



Wisconsin Public Service Corporation  
Environmental Department  
333 W. Everett St.  
Milwaukee, WI 53203

January 31, 2024

Mr. Tony Peterson  
Wisconsin Department of Natural Resources  
1300 West Clairemont Avenue  
Eau Claire, WI 54701-6127

*via electronic submittal*

**RE: WISCONSIN PUBLIC SERVICE WESTON DISPOSAL SITE #3 ASH LANDFILL  
LICENSE #2879 - FID# 737062150  
NR 506.20(3) 2023 ANNUAL CCR REPORT**

Dear Mr. Peterson:

This report is submitted as required per NR 506.20(3) and will be placed in the facility operating record. The report consists of the following attachments:

- 2023 fugitive dust control report [per NR 506.20(3)(a)]
- 2023 inspection report [per NR 506.20(3)(b)]
- 2023 groundwater monitoring and corrective action report [per NR 506.20(3)(c)]
- 2023 leachate pipe cleaning and inspection report [per NR 506.20(3)(d)]

Copies of the annual fugitive dust and inspection reports (listed above) are already available online at <https://www.we-energies.com/environment/coal-combustion> (the company website). A copy of the annual groundwater monitoring and corrective action report will be placed on the company website in early March 2024.

Please contact me at 414.221-2457 or [eric.kovatch@wecenergygroup.com](mailto:eric.kovatch@wecenergygroup.com) should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eric P. Kovatch', written in a cursive style.

Eric P. Kovatch  
Facility Manager – Senior Environmental Consultant

cc: Matt Bachman (WDNR)

Attachments: Appendices A through D (reports listed above)

[File:\2024-01-31 WDS3 NR506 Annual Report for WDNR]

**APPENDIX A**

**2023 FUGITIVE DUST CONTROL REPORT  
[PER NR 506.20(3)(A)]**

**2023 ANNUAL FUGITIVE DUST CONTROL REPORT  
WESTON DISPOSAL SITE #3**

**December 19, 2023**

**1.0 INTRODUCTION**

This annual fugitive dust control report has been prepared to meet the requirements of 40 CFR 257.80(c).

Weston Disposal Site #3 currently consists of two cells. Cell 2 began active operations in Quarter 2 of 2016 and Cell 1 began active operations Quarter 3 of 2021. A final cover of approximately 2-1/2 acres was installed over a portion of Cell 2 in 2016.

**2.0 FUGITIVE DUST CONTROL MEASURES**

Fugitive dust control measures are described in Section 2.0 of the Fugitive Dust Control Plan, Weston Disposal Site #3, dated October 13, 2015. Effectiveness of the Fugitive Dust Control Plan is evaluated during the weekly and annual inspections. A review of the weekly and annual inspections contained in the operating record was completed during the preparation of this annual fugitive dust control report and confirms that the fugitive dust control measures implemented at Weston Disposal Site #3 are effective.

**3.0 CITIZEN COMPLAINTS**

The procedure for logging citizen complaints is described in Section 3.0 of the Fugitive Dust Control Plan, Weston Disposal Site #3, dated October 13, 2015. There were no citizen complaints associated with Weston Disposal Site #3 that were logged during the period covered by this annual report.

**APPENDIX B**

**2023 INSPECTION REPORT  
[PER NR 506.20(3)(B)]**

Consulting  
Engineers and  
Scientists

December 19, 2023  
Project 2103691

Mr. Eric Kovatch, P.G.  
WEC Energy Group – Business Services  
333 West Everett Street, A231  
Milwaukee, Wisconsin 53203

**Re: 2023 Landfill Inspection Report  
Weston Disposal Site No. 3  
Wisconsin Public Service Corporation  
Town of Knowlton, Marathon County, Wisconsin**

Dear Mr. Kovatch:

GEI Consultants, Inc. (GEI) is pleased to provide this landfill inspection report for the Wisconsin Public Service Corporation (WPSC) Weston Disposal Site No. 3 (WDS3). The inspection was completed to comply with *40 CFR 257 Subpart D – Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments* and specifically with § 257.84(b) *Annual inspections by a qualified professional engineer*.

**§ 257.84 Inspection Requirements for CCR Landfills**

*(b) Annual inspections by a qualified professional engineer.*

(1) Existing and new CCR landfills and any lateral expansion of a CCR landfill must be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and accepted good engineering standards. The inspection must, at a minimum, include:

- (i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person and results of previous annual inspections); and
- (ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.

(2) *Inspection report.* The qualified professional engineer must prepare a report following each inspection that addresses the following:

- (i) Any changes in geometry of the structure since the previous annual inspection;
- (ii) The approximate volume of CCR contained in the unit at the time of the inspection;
- (iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and
- (iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

## Background

The landfill, located in the E 1/2 of the NW 1/4 and W 1/2 of the NE 1/4, Section 23, Township 26 North, Range 7 East, Town of Knowlton, Marathon County, Wisconsin, is permitted by the Wisconsin Department of Natural Resources (WDNR) under License No. 3067. Figure 1 - Site Location Figure, shows the location of the landfill relative to the Weston Power Plant. The landfill was permitted by the WDNR on December 11, 2014, with the issuance of a Conditional Plan of Operation Approval. The facility is licensed and approved as a 57.6-acre, 4,075,500 cubic yard (cy) landfill. Cells 1 and 2 have a constructed area of 15.1 acres and an operational capacity of 667,900 cy. Both cells were constructed in 2015 in addition to the installation of a leachate force main, storage tank, and load-out system. The construction of Cells 1 and 2 was approved by the WDNR on April 22, 2016. WPSC placed Cell 2 into service on June 27, 2016 and Cell 1 into service on August 16, 2021. WPSC has filled the cells episodically since being placed into service and has constructed permanent final cover over approximately 3.5 acres of the Cell 2 exterior slopes after reaching final waste grades.

GEI was retained to perform an annual inspection of the landfill in compliance with § 257.84(b) *Annual inspections by a qualified professional engineer*. The inspection was performed on October 30, 2023. Copies of the site location figure, inspection form, and landfill inspection photo log are appended to this letter-report and constitute the entirety of the report.

## Site Inspection

The landfill site inspection was performed by John M. Trast, P.E, D.GE on October 30, 2023. The inspection included observation of Cells 1 and 2, observation and inspection of the Cell 2 partial final cover and perimeter slopes, and storm water management features for the site. Photographs taken during the site inspection are attached to this report. The following are the observed conditions as of the date of the annual inspection:

- (i) Cell 1 was placed into service on August 26, 2021, with the placement of the frost protection layer. Cell 1 received approximately 16,300 cy of CCR in early 2023. As of December 19, 2023, approximately 107,500 cy of CCR have been disposed of in Cell 1. CCR placement consists of the 4-foot frost protection layer on the floor of the cell and the north and east perimeter slopes.
- (ii) Cell 2 was placed into service on June 27, 2016. As of December 19, 2023, approximately 389,000 cy of CCR have been disposed of in Cell 2. CCR placement consists of the 4-foot frost protection layer on the floor of the cell and CCR placed to final waste grades on the east slope. Permanent final cover has been constructed over approximately 3.5 acres of the perimeter slopes of Cell 2 in 2016 and 2020; the remainder of the cell has CCR placed in accordance with the waste filling and storm water management plans.
- (iii) The perimeter slopes of Cells 1 and 2, and the final cover slopes of Cell 2 appear to be in excellent condition with no signs of instability, structural weakness, significant erosion, woody vegetation, or animal burrows. The fugitive dust control plan is effective as there was no evidence of fugitive dust around the perimeter of the landfill and no observed dust from site operations. A few areas on the Cell 2 final cover were observed to lack proper vegetation and will be reseeded next growing season.

## Conclusion

On October 30, 2023, a GEI licensed professional engineer completed an annual inspection of the

WPSC Weston Disposal Site No. 3 in compliance with § 257.84(b) *Annual inspections by a qualified professional engineer.* Cell 2 of the landfill is operational and did not receive any CCR during 2023. Cell 1 is operational and received approximately 16,300 cy of CCR during 2023. An additional 15,000 cy of CCR is expected to be hauled and placed into Cell 1 in late December 2023. The perimeter slopes of Cell 2 appear to be in good condition with no significant erosion, no woody vegetation, no animal burrows, and no areas of instability or structural weakness. At the time of the inspection, the permanent final cover constructed is in good condition, with some noticeable areas of thin vegetation. WEC will be notified of these areas and will be reseeded during the growing season in 2024.

The inspection was completed by John M. Trast, P.E. I am a licensed professional engineer in the State of Wisconsin in accordance with the requirements of Chapter A-E 4, Wisconsin Administrative Code; that this document has been prepared in accordance with the Rules of Professional Conduct in Chapter A-E 8, Wisconsin Administrative Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in Chapters NR 500 to 538, Wisconsin Administrative Code and 40 CFR 257.

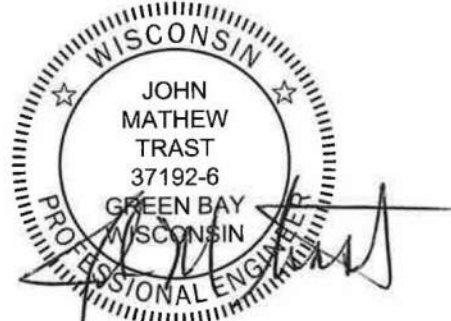
If you have any questions regarding this report, please contact John Trast at 920-455-8299.

Sincerely,

GEI CONSULTANTS, INC.



Andrew J. Schwoerer, P.G.  
Project Professional



John M. Trast, P.E., D.G.E.  
Vice President

Attachments:

- Figure 1 – Site Location Figure
- WDS3 Ash Landfill CCR Compliance – Annual Inspection Form
- Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

AJS:amp

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WISCONSIN PUBLIC SERVICE  
TOWN OF KNOWLTON, WISCONSIN



WESTON DISPOSAL SITE NO. 3  
SITE LOCATION FIGURE

Project 2103691

December 19, 2023

Fig. 1

J:\Landfills\WPS\_Legner\Dust Control\dwg\fig1



**WDS3 ASH LANDFILL CCR COMPLIANCE - ANNUAL INSPECTION****INSPECTOR:** John M. Trast, P.E., D.GE**INSPECTION DATE/TIME:** 10/30/2023, 1:00 P.M.**WEATHER:**

Temperature: 45° F  
 Conditions: Sunny  
 Wind: Moderate  
 Wind Direction: W  
 Precipitation: None      Approx. 4" rainfall a week prior to inspection.

**LEACHATE COLLECTION SYSTEM:****Load-out Facility:**

High level alarms: Yes  
 Low level alarms: No  
 Leak alarms: No  
 Tank Level : 16.0 ft  
 Tank Volume: 69600 gallons  
 Pump: Available  
 Pad Condition: Good

**Sump:**

Cell 1 Pump #1 Available 27.4 in Primary LCS Sump  
 Cell 1 Pump #2 Available 22.0 in Primary LCS Sump  
 Control Panel: Available  
 Cell 2 Pump #1 Available 32.5 in Primary LCS Sump  
 Cell 2 Pump #2 Available 20.0 in Primary LCS Sump  
 Control Panel: Available

Comments: Leachate volume in the tank is being managed by certified operators to generally keep the volume less than 30,000 gallons (operating capacity is 104,800 gallons). Leachate levels in the sumps are being maintained in compliance with the operating license requirements (no alarms) of less than 1-foot of head on the liner. Tank volume was higher at the time of inspection due to a large rainfall the previous week.

**STABILITY/EROSION OF FINAL COVERS & WASTE SLOPES:**Final Covers: Waste Slopes: 

Comments : The Cell 2 final cover slopes appear stable with no observed instability, no significant erosion, no woody vegetation, or no animal burrows. A few areas of poor t vegetation were observed on the Cell 2 cover, as seen in the inspection photo log. WEC will be notified of these areas and will be reseeded next spring. In general, the cover appeared to be in good condition with no observed instability or significant erosion.

**Note: Check mark indicates slope appears stable and no significant erosion.**

**LANDFILL OPERATIONS:****Fugitive Dust Control:**

Tracking Pads :   
 Cattle Guards :   
 Access Road Clean:   
 Landfill Surfaces Vegetated:   
 Airbourne Dust Visible: No  
 Sign of Recent Dust Deposition: No

**Stormwater Management**

Exterior Ditches:   
 Interior Ditches:   
 Catch Basin:   
 Culverts:

Comments: Cell 2 partial closures occurred in 2016 Southeast corner and 2020 East slope of the landfill. The remain uncovered area over Cell 2 was covered in 2022. In 2021 WEC opened Cell 1 of the landfill and placed the 4 feet frost protection layer. Leachate from Cells 1 and 2 is hauled from the on-site leachate collection tank to the Weston Power Plan for disposal.

**Note: Check mark indicates that the features are acceptable.**

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



<i>Photo No. 1 – Active filling area on Cell 2, looking north.</i>	<u>2</u>
<i>Photo No. 2 – Cell 2/3 intercell berm and leachate collection ditch along west side of Cell 2.</i>	<u>2</u>
<i>Photo No. 3 – Cell 2 west slope.</i>	<u>3</u>
<i>Photo No. 4 – Cell 2 south and east slope and stormwater diversion berm.</i>	<u>3</u>
<i>Photo No. 5 – Stormwater Basin 2 east of Cell 2.</i>	<u>4</u>
<i>Photo No. 6 – Stormwater Basin 2.</i>	<u>4</u>
<i>Photo No. 7 – Active filling area in Cell 1, looking east.</i>	<u>5</u>
<i>Photo No. 8 – Looking northeast to the Cell 1 active filling area and the east slope prepared for final cover.</i>	<u>5</u>
<i>Photo No. 9 – Looking west at the Cell 1 north perimeter slope and leachate collection ditch.</i>	<u>6</u>
<i>Photo No. 10 – Looking northeast to the Cell 1 active filling area and east slope.</i>	<u>6</u>
<i>Photo No. 11 – Looking south at the Cell 2 east stormwater control ditch.</i>	<u>7</u>
<i>Photo No. 12 – Leachate collection tank and loadout facility.</i>	<u>7</u>
<i>Photo No. 13 – Stormwater diversion berm inlet on the southeast corner of Cell 2.</i>	<u>8</u>
<i>Photo No. 14 – Cell 2 gradient control outlet pipe.</i>	<u>8</u>
<i>Photo No. 15 – Cell 1 gradient control outlet pipe.</i>	<u>9</u>
<i>Photo No. 16 – Cell 1 gradient control outlet pipe.</i>	<u>9</u>

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 1 – Active filling area on Cell 2, looking north.



Photo No. 2 – Cell 2/3 intercell berm and leachate collection ditch along west side of Cell 2.

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 3 – Cell 2 west slope.



Photo No. 4 – Cell 2 south and east slope and stormwater diversion berm.

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 5 – Stormwater Basin 2 east of Cell 2.



Photo No. 6 – Stormwater Basin 2.

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 7 – Active filling area in Cell 1, looking east.



Photo No. 8 – Looking northeast to the Cell 1 active filling area and the east slope prepared for final cover.

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 9 – Looking west at the Cell 1 north perimeter slope and leachate collection ditch.



Photo No. 10 – Looking northeast to the Cell 1 active filling area and east slope.

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 11 – Looking south at the Cell 2 east stormwater control ditch.



Photo No. 12 – Leachate collection tank and loadout facility.



# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 13 – Stormwater diversion berm inlet on the southeast corner of Cell 2.



Photo No. 14 – Cell 2 gradient control outlet pipe.

# Weston Disposal Site No. 3 Landfill CCR Inspection – Photo Log

Date: 10/30/2023

Project No.: 2103691

Client: Wisconsin Public Service Corporation



Photo No. 15 – Cell 1 gradient control outlet pipe.



Photo No. 16 – Cell 1 gradient control outlet pipe.

**APPENDIX C**

**2023 GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT  
[PER NR 506.20(3)(C)]**

Prepared for  
**Wisconsin Public Service Corporation**

Date  
**January 31, 2024**

Project No.  
**1940102327**

# **2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

## **WESTON DISPOSAL SITE NO. 3 LANDFILL**

**2023 CCR ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT  
WESTON DISPOSAL SITE NO. 3 LANDFILL**

Project name **Weston Disposal Site No. 3 Landfill**  
Project no. **1940102327**  
Recipient **Wisconsin Public Service Corporation**  
Document type **Annual CCR Groundwater Monitoring and Corrective Action Report**  
Revision **FINAL**  
Date **January 31, 2024**  
Prepared by **Kyle J. Schaefer**  
Checked by **Eric J. Tlachac, PE**  
Approved by **Nathaniel R. Keller, PG**

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**Kyle J. Schaefer**  
Senior Project Scientist



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**Eric J. Tlachac, PE**  
Senior Project Manager



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**Nathaniel R. Keller, PG**  
Senior Technical Manager

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2. Monitoring and Corrective Action Program Status	6
3. Key Actions Completed in 2023	7
4. Problems Encountered and Actions to Resolve the Problems	9
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### TABLES (IN TEXT)

Table A 2022-2023 Detection Monitoring Program Summary

### TABLES (ATTACHED)

Table 1 Groundwater Elevations

Table 2 Analytical Results – Baseline and CCR Parameters

### FIGURES (ATTACHED)

Figure 1 Monitoring Well Location Map

Figure 2 Potentiometric Surface Map, October 25, 2022

Figure 3 Potentiometric Surface Map, April 27, 2023

Figure 4 Potentiometric Surface Map, October 30, 2023

### APPENDICES

Appendix A Laboratory Reports

## ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ACL	Alternative Concentration Limit
Ca	calcium
CCR	coal combustion residuals
Cl	chloride
ES	Enforcement Standard
ESAP	Environmental Sampling & Analysis Plan
mg/L	milligrams per liter
NA	not applicable
No.	number
NRT/OBG	Natural Resource Technology, an OBG Company
PAL	Preventive Action Limit
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SO <sub>4</sub>	sulfate
TBD	to be determined
TDS	total dissolved solids
WDNR	Wisconsin Department of Natural Resources
WDS3	Weston Disposal Site No. 3 Landfill
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) 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 Weston Disposal Site Number (No.) 3 (WDS3) Landfill located in the Town of Knowlton, Wisconsin.

As required in NR 514.045, a Plan of Operation Modification (Plan Mod), including an Environmental Sampling and Analysis Plan (ESAP) Addendum, was prepared for the above referenced CCR 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 26, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 20, 2023.

From 2016 through 2022 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.

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

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 approval.

In 2023, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring). Additional samples were collected to establish baseline groundwater quality for parameters listed in Ch. NR 507 Appendix I, Tables 1A and 3 that were not analyzed as part of the 40 C.F.R. § 257.94 Detection Monitoring Program.



## 1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Wisconsin Public Service Corporation, to provide the information required by Ch. NR 507.15(3)(m) at the WDS3 Landfill located in the Town of Knowlton, 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 the 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 WDS3 Landfill began 2023 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 WDS3 Landfill ended 2023 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 WDNR approval.)

- 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 WDS3 Landfill in 2023).
- 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 WSD3 Landfill in 2023).

This report provides the required information for the WDS3 Landfill for calendar year 2023.

## 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 WDS3 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 26, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 20, 2023. Accordingly, no changes have occurred to the monitoring program status in calendar year 2023.

From 2016 through 2022 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.

In 2023, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring). Additional samples were collected to establish baseline groundwater quality for parameters listed in Ch. NR 507 Appendix I, Tables 1A and 3 that were not collected as part of the 40 C.F.R. § 257.94 Detection Monitoring Program.

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 approval.

In 2024, groundwater sampling will be completed in accordance with Ch. NR 507.15(3)(L).

### 3. KEY ACTIONS COMPLETED IN 2023

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 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 Revision 1, Weston Disposal Site No. 3 Landfill* (Ramboll, 2023) submitted as Appendix C of the ESAP Addendum. 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 Ch. NR 507.15(3)(L) (as applicable) in the fourth quarter of 2022 and all monitoring events in 2023 are presented in **Table 2**. Laboratory reports for all 2023 monitoring events are included in **Appendix A**<sup>1</sup>.

In 2023, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) with additional sampling to establish baseline groundwater quality for select parameters listed in Ch. NR 507 Appendix I, Tables 1A and 3 that were not analyzed as part of the 40 C.F.R. § 257.94 Detection Monitoring Program conducted from 2016-2022. Sampling occurred monthly starting in February of 2023 and extending through October of 2023. **Table 2** and **Appendix A** include all analytical results and laboratory reports for the monitoring events. A total of 8 samples have been collected from each monitoring well and analyzed for each parameter listed in Ch. NR 507 Appendix I Tables 1A and 3.

**Table A. 2022-2023 Detection Monitoring Program Summary**

Sampling Date	Purpose	Analytical Data Receipt Date	Parameters Analyzed
October 25, 2022	Detection Monitoring	December 5, 2022	40 C.F.R. § 257 Appendix III
February 16, 2023	Baseline Sampling	March 1, 2023	Total Alkalinity Total Calcium Total Copper Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite Field pH Total Silver Total Zinc
March 24, 2023	Baseline Sampling	April 5, 2023	Total Alkalinity Total Calcium Total Copper Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite Field pH

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

March 24, 2023 cont.	Baseline Sampling	April 5, 2023	Total Silver Total Zinc
April 27, 2023	Detection Monitoring & Baseline Sampling	May 23, 2023	Ch. NR 507 App A Tables 1A and 3 (Except Total Alkalinity)
June 7, 2023	Baseline Sampling	June 19, 2023	Total Calcium Total Copper Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite Field pH Total Silver Total Zinc
July 12, 2023	Baseline Sampling	July 26, 2023	Total Calcium Total Copper Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite Field pH Total Silver Total Zinc
August 16, 2023	Baseline Sampling	August 29, 2023	Total Calcium Total Copper Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite Field pH Total Silver Total Zinc
September 20, 2023	Baseline Sampling	September 29, 2023	Total Calcium Total Copper Total Hardness Total Magnesium Total Manganese Total Nitrate + Nitrite Field pH Total Silver Total Zinc
October 30, 2023	Detection Monitoring & Baseline Sampling	December 1, 2023	Ch. NR 507 App A Tables 1A and 3 (Except Total Alkalinity, Total Copper, Total Manganese, Total Nitrate + Nitrite, Total Silver, and Total Zinc)

## **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:

- Detection Monitoring in accordance with Ch. NR 507.15(3)(L) with semi-annual sampling scheduled for the second and fourth quarters of 2024. 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 Preventive Action Limits, Enforcement Standards, and/or ACLs, following WDNR approval.
- 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 indicate a source other than WDS3 Landfill 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, 2023. *Sampling and Analysis Plan Revision 1, Weston Disposal Site No. 3 Landfill, Town of Knowlton, Wisconsin*. December 19, 2023.



## TABLES

**TABLE 1  
GROUNDWATER ELEVATIONS**

2023 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
WESTON DISPOSAL SITE NO. 3 LANDFILL  
TOWN OF KNOWLTON, WI

Well ID	Well Type	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date	Groundwater Elevation (ft NAVD88)
LS-101	Background (Upgradient)	44.72648	-89.63627	10/25/2022	1191.83
				4/27/2023	1197.03
				10/30/2023	1194.58
LS-100	Compliance (Downgradient)	44.72484	-89.63437	10/25/2022	1187.72
				4/27/2023	1192.37
				10/30/2023	1190.55
LS-105	Compliance (Downgradient)	44.72295	-89.63439	10/25/2022	1184.30
				4/27/2023	1186.78
				10/30/2023	1185.78
LS-106	Compliance (Downgradient)	44.72219	-89.63533	10/25/2022	1181.62
				4/27/2023	1182.65
				10/30/2023	1182.59
LS-107	Compliance (Downgradient)	44.72630	-89.63852	10/25/2022	1188.62
				4/27/2023	1189.41
				10/30/2023	1188.7
LS-52	Water Level Only	NA	NA	10/25/2022	1189.14
				4/27/2023	1193.99
				10/30/2023	1190.96

**Notes:**

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

**Weston Disposal Site #3**  
**Table 2. Analytical Results - Baseline and CCR Parameters**

Date Range: 10/25/2022 to 12/31/2023

Lab Methods:

Well Id	Date Sampled	Lab Id	Ag, tot, ug/L	Alkalinity, unfiltered, mg/L	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	Cu, tot, ug/L
LS-100	10/25/2022	AE63596	<3.20	42.8	0.0204	17.1	2.30	<3
	2/16/2023	40258414001	<3.20	35.1		13.8		<3
	3/24/2023	40259853001	<3.20	33.4		11.9		<3
	4/27/2023	40261496001	<3.20		<0.0173	12.2	1.10	<3
	6/7/2023	40263347001	<3.20			15.6		<3
	7/12/2023	40265075001	<3.20			18.6		<3
	8/16/2023	AE68557	<6.40			28.1		56
	9/20/2023	AE69145	<3.20			28.0		21
10/30/2023	40270382001		13.9	0.0336	21.3	2.30		
LS-101	10/25/2022	AE63597	<3.20	26.2	<0.0173	6.3	0.49	5
	2/16/2023	40258414002	<3.20	17.3		4.9		<3
	3/24/2023	40259853002	<3.20	12.3		3.1		<3
	4/27/2023	40261496002	<3.20		<0.0173	2.5	0.64	22
	6/7/2023	40263347002	<3.20			2.7		<3
	7/12/2023	40265075002	<3.20			4.6		<3
	8/16/2023	AE68558	<3.20			6.3		<3
	9/20/2023	AE69146	<3.20			6.5		<3
10/30/2023	40270382002		14.5	0.0179	3.7	<0.59		
LS-105	10/25/2022	AE63598	<3.20	75.8	0.0411	23.2	1.80	3
	2/16/2023	40258414003	<3.20	116.0		30.6		<3
	3/24/2023	40259853003	<3.20	91.6		27.6		<3
	4/27/2023	40261496003	<3.20		0.0203	21.4	1.70	<3
	6/7/2023	40263347003	<3.20			17.9		<3
	7/12/2023	40265075003	<3.20			19.8		<3
	8/16/2023	AE68559	<3.20			22.9		<3

**Weston Disposal Site #3**  
**Table 2. Analytical Results - Baseline and CCR Parameters**

**Date Range: 10/25/2022 to 12/31/2023**

**Lab Methods:**

			Ag, tot, ug/L	Alkalinity, unfiltered, mg/L	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	Cu, tot, ug/L
LS-105	9/20/2023	AE69147	<3.20			24.7		<3
	10/30/2023	40270382003		60.1	0.0431	22.6	3.10	
LS-106	10/25/2022	AE63599	<3.20	75.5	0.0242	17.0	2.50	7
	2/16/2023	40258414004	<3.20	83.4		24.3		29
	3/24/2023	40259853004	<3.20	68.3		15.3		4
	4/27/2023	40261496004	<3.20		0.0411	3.6	0.90	4
	6/7/2023	40263347004	<3.20			5.7		<3
	7/12/2023	40265075004	<3.20			12.2		<3
	8/16/2023	AE68560	<3.20			18.9		4
	9/20/2023	AE69148	<3.20			21.8		<3
	10/30/2023	40270382004		12.6	0.0382	4.0	<3.00	
LS-107	10/25/2022	AE63600	<3.20	40.7	0.0312	36.2	10.40	4
	2/16/2023	40258414005	<3.20	43.3		45.7	18.70	<3
	3/24/2023	40259853005	<3.20	42.3		35.6	15.20	<3
	4/27/2023	40261496005	<3.20		0.0208	38.0	38.80	<3
	6/7/2023	40263347005	<3.20			34.5		<3
	7/12/2023	40265075005	<3.20			29.5		<3
	8/16/2023	AE68561	<3.20			42.7		<3
	9/20/2023	AE69149	<3.20			49.0		<3
	10/30/2023	40270382005		43.2	0.0385	40.9	35.20	

**Weston Disposal Site #3**  
**Table 2. Analytical Results - Baseline and CCR Parameters**

Date Range: 10/25/2022 to 12/31/2023

Lab Methods:

Well Id	Date Sampled	Lab Id	Fluoride, total, mg/L	Hardness, tot, mg/L	Mg, tot, mg/L	Mn, tot, ug/L	Nitrite + Nitrate, mg/L	pH (field), SU
LS-100	10/25/2022	AE63596	<0.095			4.7	2.821	5.1
		AE63814						
	2/16/2023	40258414001	44.50	2.41	2.7	1.600		
	3/24/2023	40259853001	38.00	2.04	3.5	1.100		
	4/27/2023	40261489007	<0.095	38.60	2.00	<1.5	2.000	5.2
		40261496001						
	6/7/2023	40263347001	50.20	2.73	2.4	2.500	5.2	
	7/12/2023	40265075001	59.90	3.28	4.4	2.100	5.7	
	8/16/2023	AE68557	128.00	14.10	342.0	1.600	5.8	
9/20/2023	AE69145	103.00	8.06	121.0	1.700	5.9		
10/30/2023	40270382001	<0.095	67.30	3.43		5.7		
LS-101	10/25/2022	AE63597	<0.095			2.0	0.651	5.4
		AE63816						
	2/16/2023	40258414002	17.10	1.20	4.1	0.870		
	3/24/2023	40259853002	11.10	0.81	1.9	0.400		
	4/27/2023	40261489009	<0.095	9.15	0.70	3.3	0.200	5.3
		40261496002						
	6/7/2023	40263347002	9.78	0.77	2.5	0.200	5.3	
	7/12/2023	40265075002	15.60	0.98	4.0	0.180	6.0	
	8/16/2023	AE68558	20.40	1.15	2.1	0.250	6.1	
9/20/2023	AE69146	207.00	1.08	3.1	0.320			
10/30/2023	40270382002	<0.095	13.70	1.12		5.8		
LS-105	10/25/2022	AE63598	<0.095			1260.0	<0.065	5.6
		AE63823						
	2/16/2023	40258414003	107.00	7.41	1530.0	<0.059		
	3/24/2023	40259853003	95.70	6.52	1340.0	<0.059		
4/27/2023	40261489016					5.5		

**Weston Disposal Site #3**  
**Table 2. Analytical Results - Baseline and CCR Parameters**

**Date Range: 10/25/2022 to 12/31/2023**

**Lab Methods:**

			Fluoride, total, mg/L	Hardness, tot, mg/L	Mg, tot, mg/L	Mn, tot, ug/L	Nitrite + Nitrate, mg/L	pH (field), SU
LS-105	4/27/2023	40261496003	<0.095	74.70	5.14	1140.0	<0.065	
	6/7/2023	40263347003		62.50	4.30	956.0	<0.059	5.6
	7/12/2023	40265075003		69.10	4.76	1050.0	<0.059	6.1
	8/16/2023	AE68559		79.50	5.43	1110.0	<0.059	6.1
	9/20/2023	AE69147		86.00	5.89	1090.0	<0.065	6.0
	10/30/2023	40270382003	<0.480	79.80	5.67			6.0
LS-106	10/25/2022	AE63599	<0.095			1350.0	<0.065	5.6
	2/16/2023	40258414004		119.00	14.10	3620.0	<0.059	
	3/24/2023	40259853004		64.70	6.47	826.0	0.067	
	4/27/2023	40261496004	<0.095	17.50	2.11	241.0	0.350	5.4
	6/7/2023	40263347004		23.20	2.19	73.2	0.590	5.3
	7/12/2023	40265075004		46.20	3.79	755.0	<0.059	6.1
	8/16/2023	AE68560		77.90	7.43	2320.0	<0.059	6.1
	9/20/2023	AE69148		90.90	8.85	2370.0	<0.065	6.1
	10/30/2023	40270382004	<0.480	17.90	1.93			6.2
LS-107	10/25/2022	AE63600	<0.095			6.6	1.521	5.3
	2/16/2023	40258414005		156.00	10.30	9.5	1.400	
	3/24/2023	40259853005		121.00	7.86	9.8	1.300	
	4/27/2023	40261496005	<0.095	130.00	8.53	6.0	1.500	5.4
	6/7/2023	40263347005		118.00	7.85	4.0	1.400	5.5
	7/12/2023	40265075005		101.00	6.68	3.4	1.200	5.8
	8/16/2023	AE68561		146.00	9.60	5.6	1.300	5.7
	9/20/2023	AE69149		167.00	10.90	16.2	1.200	5.6
	10/30/2023	40270382005	<0.095	140.00	9.24			5.7

**Weston Disposal Site #3**  
**Table 2. Analytical Results - Baseline and CCR Parameters**

**Date Range: 10/25/2022 to 12/31/2023**

**Lab Methods:**

Well Id	Date Sampled	Lab Id	SO4, tot, mg/L	TDS, mg/L	Zn, tot, ug/L
LS-100	10/25/2022	AE63596	15.8	112	<12
	2/16/2023	40258414001		82	<12
	3/24/2023	40259853001		70	<12
	4/27/2023	40261496001	11.9	52	<12
	6/7/2023	40263347001			<12
	7/12/2023	40265075001			<12
	8/16/2023	AE68557			91
	9/20/2023	AE69145			33
	10/30/2023	40270382001	57.6	116	
LS-101	10/25/2022	AE63597	2.7	58	<12
	2/16/2023	40258414002			<12
	3/24/2023	40259853002			<12
	4/27/2023	40261496002	1.6	26	<12
	6/7/2023	40263347002			<12
	7/12/2023	40265075002			<12
	8/16/2023	AE68558			<12
	9/20/2023	AE69146			23
	10/30/2023	40270382002	1.5	50	
LS-105	10/25/2022	AE63598	25.3	160	<12
	2/16/2023	40258414003			<12
	3/24/2023	40259853003			<12
	4/27/2023	40261496003	17.8	118	<12
	6/7/2023	40263347003			<12
	7/12/2023	40265075003			<12
	8/16/2023	AE68559			<12

**Weston Disposal Site #3**  
**Table 2. Analytical Results - Baseline and CCR Parameters**

**Date Range: 10/25/2022 to 12/31/2023**

**Lab Methods:**

			SO4, tot, mg/L	TDS, mg/L	Zn, tot, ug/L
LS-105	9/20/2023	AE69147			<12
	10/30/2023	40270382003	28.9	124	
LS-106	10/25/2022	AE63599	2.2	122	<12
	2/16/2023	40258414004			32
	3/24/2023	40259853004			<12
	4/27/2023	40261496004	1.1	88	<12
	6/7/2023	40263347004			<12
	7/12/2023	40265075004			<12
	8/16/2023	AE68560			<12
	9/20/2023	AE69148			<12
	10/30/2023	40270382004	<2.2	76	
LS-107	10/25/2022	AE63600	89.1	218	<12
	2/16/2023	40258414005	80.7	212	<12
	3/24/2023	40259853005	74.7	180	<12
	4/27/2023	40261496005	54.8	212	<12
	6/7/2023	40263347005			<12
	7/12/2023	40265075005			<12
	8/16/2023	AE68561			<12
	9/20/2023	AE69149			<12
	10/30/2023	40270382005	72.0	238	



## FIGURES



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- CCR RULE DOWNGRAIDENT MONITORING WELL LOCATION
- CCR RULE UPGRADIENT MONITORING WELL LOCATION
- WESTON DISPOSAL SITE NO. 3 LANDFILL



**NOTES**  
 1. IMAGERY DATE = 10/10/2022

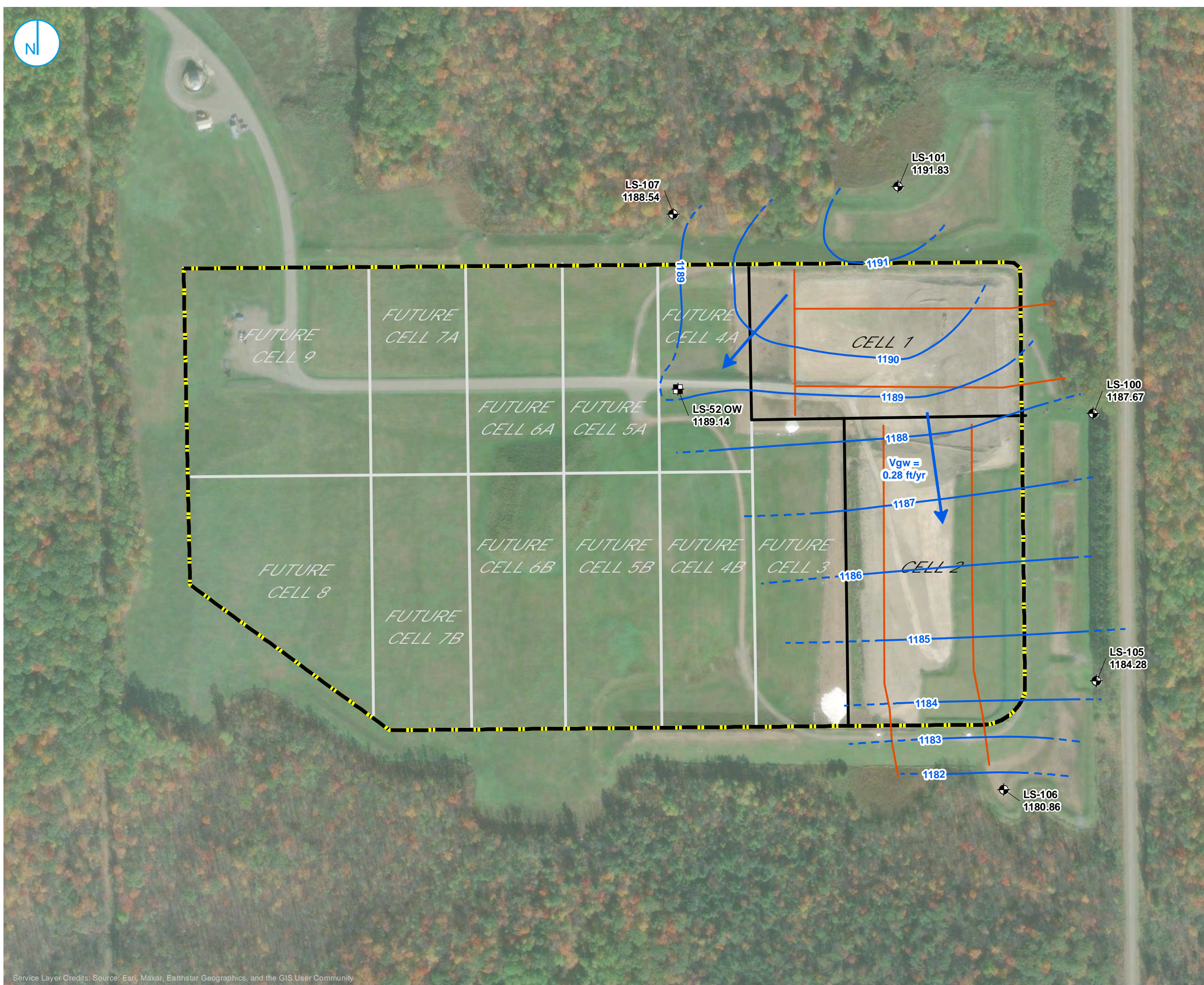
### MONITORING WELL LOCATION MAP

2023 CCR ANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT  
 WESTON DISPOSAL SITE NO. 3 LANDFILL  
 TOWN OF KNOWLTON, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.





- WESTON DISPOSAL SITE NO. 3 LANDFILL
- GROUNDWATER GRADIENT CONTROL SYSTEM
- CCR RULE MONITORING WELL
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- NOTES**
1. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
  2.  $V_{gw}$  = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
  3. IMAGERY DATE = 10/10/2022



**POTENTIOMETRIC SURFACE MAP  
OCTOBER 25, 2022**

**2023 CCR ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
WESTON DISPOSAL SITE NO. 3 LANDFILL  
TOWN OF KNOWLTON, WISCONSIN**

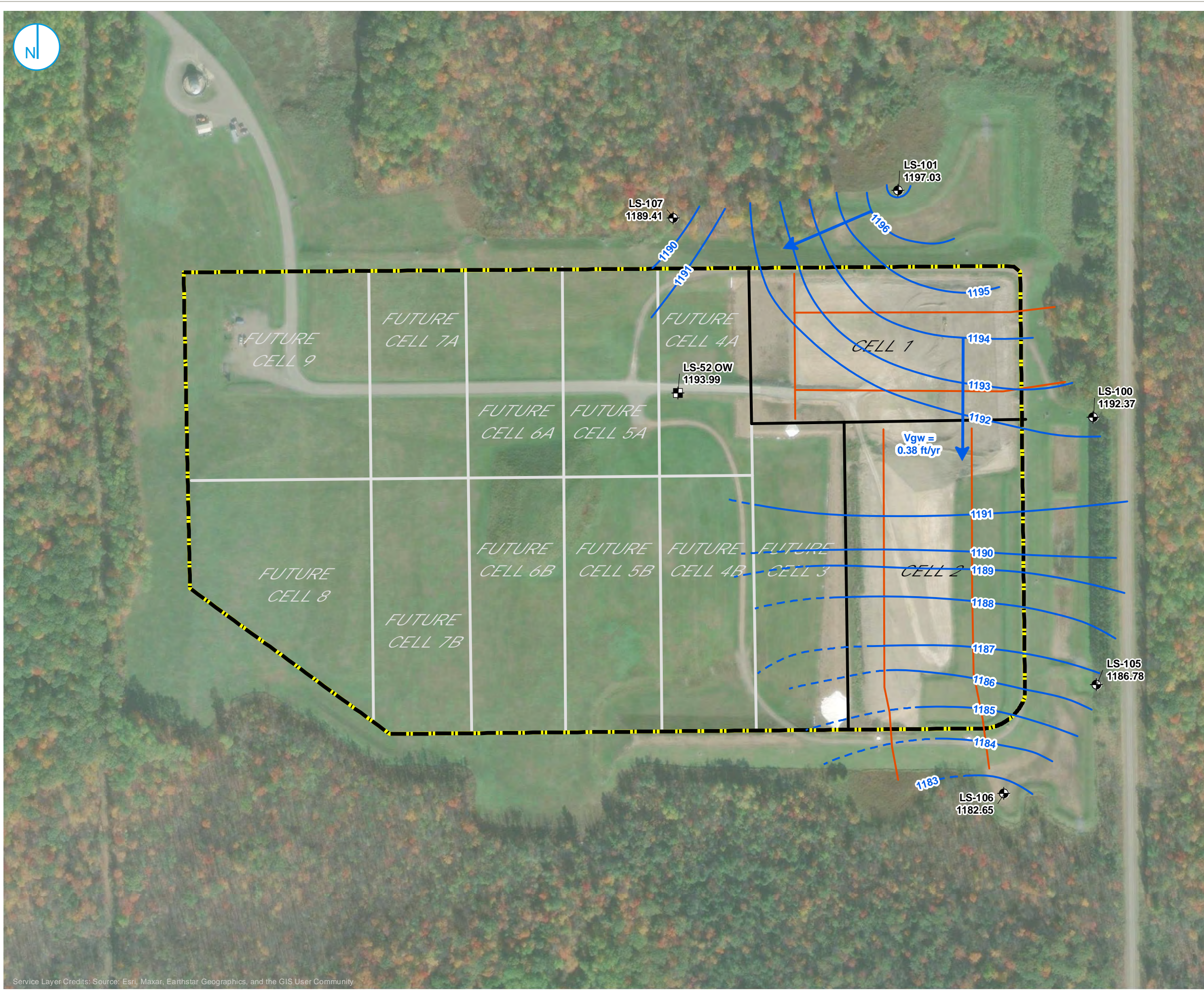
**FIGURE 2**



**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS  
 WESTON DISPOSAL SITE NO. 3 LANDFILL  
 TOWN OF KNOWLTON, WISCONSIN**

<b>OCTOBER 2022</b>		$V = K i / n_e$		V = Groundwater Velocity			
				K = Hydraulic Conductivity			
				i = Hydraulic Gradient (unitless value)			
				n <sub>e</sub> = Effective Porosity			
<b>UPPERMOST AQUIFER</b>							
<b>Contours</b>	<b>1188</b>	<b>to</b>	<b>1187</b>	<b>South Side of Cell 1 / North Side of Cell 2</b>		<b>Elevation</b>	<b>Distance</b>
K =	1.28E+01 ft/yr	Geometric mean for Landfill 3 (all)				<b>Change</b>	<b>Change</b>
i =	0.006	between contours identified above				(ft)	(ft)
n <sub>e</sub> =	25 %					1 /	180
							0.006
V =	$\frac{1.28E+01 * 5.56E-03}{0.25}$						
V =	0.28 feet/year						

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



- WESTON DISPOSAL SITE NO. 3 LANDFILL
- GROUNDWATER GRADIENT CONTROL SYSTEM
- CCR RULE MONITORING WELL
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- NOTES**
1. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
  2. Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
  3. IMAGERY DATE = 10/10/2022



**POTENTIOMETRIC SURFACE MAP  
APRIL 27, 2023**

**2023 CCR ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
WESTON DISPOSAL SITE NO. 3 LANDFILL  
TOWN OF KNOWLTON, WISCONSIN**

**FIGURE 3**

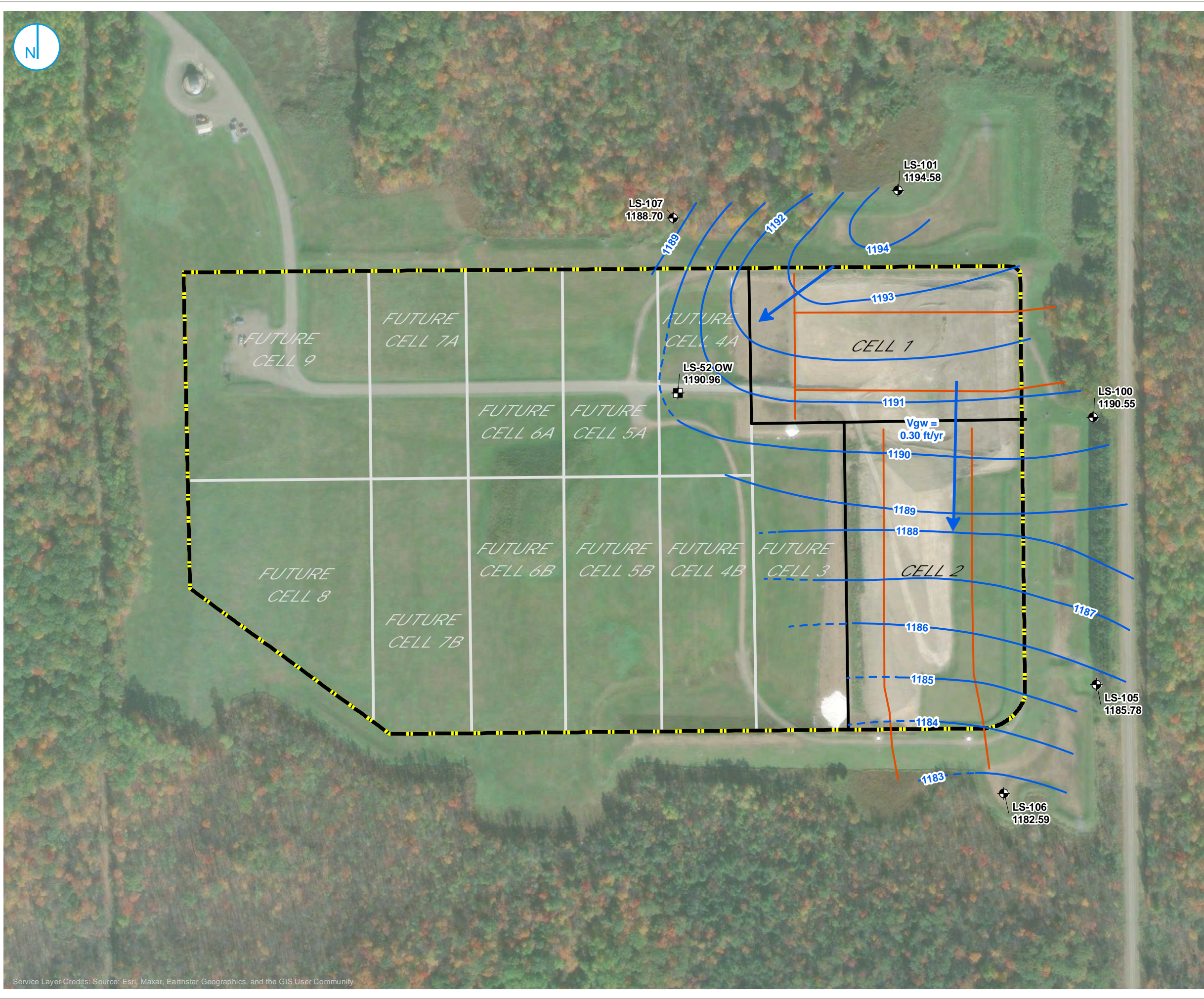
RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.



**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS  
 WESTON DISPOSAL SITE NO. 3 LANDFILL  
 TOWN OF KNOWLTON, WISCONSIN**

<b>APRIL 2023</b>	$V = K i / n_e$		V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) $n_e$ = Effective Porosity
<b>UPPERMOST AQUIFER</b>			
<b>Contours</b>	<b>1193 to 1191</b>	<b>South Side of Cell 1 / North Side of Cell 2</b>	Elevation Change (ft)
K =	1.28E+01 ft/yr	Geometric mean for Landfill 3 (all)	Distance Change (ft)
i =	0.007	between contours identified above	2 / 270
$n_e$ =	25 %		0.007
V =	$\frac{1.28E+01 * 7.41E-03}{0.25}$		
V =	0.38 feet/year		

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



- WESTON DISPOSAL SITE NO. 3 LANDFILL
- GROUNDWATER GRADIENT CONTROL SYSTEM
- CCR RULE MONITORING WELL
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD 88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- NOTES**
1. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
  2. V<sub>gw</sub> = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
  3. IMAGERY DATE = 10/10/2022



**POTENTIOMETRIC SURFACE MAP  
OCTOBER 30, 2023**

**2023 CCR ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
WESTON DISPOSAL SITE NO. 3 LANDFILL  
TOWN OF KNOWLTON, WISCONSIN**

**FIGURE 4**



**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS  
 WESTON DISPOSAL SITE NO. 3 LANDFILL  
 TOWN OF KNOWLTON, WISCONSIN**

<b>OCTOBER 2023</b>		$V = K i / n_e$	V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n <sub>e</sub> = Effective Porosity
<b>UPPERMOST AQUIFER</b>			
<b>Contours</b>	<b>1192 to 1190</b>	<b>South Side of Cell 1 / North Side of Cell 2</b>	Elevation Change (ft)
K =	1.28E+01 ft/yr	Geometric mean for Landfill 3 (all)	Distance Change (ft)
i =	0.006	between contours identified above	2 / 343
n <sub>e</sub> =	25 %		0.006
V =	$\frac{1.28E+01 * 5.83E-03}{0.25}$		
V =	0.30 feet/year		

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



**APPENDIX A**  
**LABORATORY REPORTS**

To: Bob Meidl  
 PSB Annex A231

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



Report Date: Monday, January 29, 2024

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

Sample Description: **LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE71171 Sample Collection Date/Time: 02/16/2023 10:44  
 Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	9.29	0.05	feet		1		H2OD	2/16/23	C APPLEKAMP
Field Temperature	6.0	0.1	Degrees t		1		TEMP	2/16/23	C APPLEKAMP
Field pH	5.2	0.1	Units	0.1	1		FIELDPH	2/16/23	C APPLEKAMP
Field Conductivity	109	0	umhos		1		FCOND25	2/16/23	C APPLEKAMP
Dissolved Oxygen-Field	7.6	0.1	mg/l		1		FIELDDO	2/16/23	C APPLEKAMP
Turbidity	2.7	0.1	NTU'S		1		EPA 180.1	2/16/23	C APPLEKAMP
Redox Potential	271	1	mV		1		ASTM D1498-93	2/16/23	C APPLEKAMP
Total Calcium	13800	114	ug/L	500	1		EPA 200.7	2/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Magnesium	2410	182	ug/L	1000	1		EPA 200.7	2/21/23	020
Total Manganese	2.7	1.5	ug/L	5.0	1		EPA 200.7	2/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Hardness as CaCO3	44.5	1.0	mg/L	5.4	1		StdMtd 2340B	2/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	2/21/23	020
Total Dissolved Solids	82.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	2/21/23	020
Total Alkalinity as CaCO3	35.1	7.4	mg/L	25.0	1		SM 2320 B-1997	2/20/23	020
Nitrate-Nitrite as N	1.6	0.059	mg/L	0.25	1		EPA 300.0	2/23/23	020

Sample Comments:

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE71172 Sample Collection Date/Time: 02/16/2023 10:07  
 Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	11.58	0.05	feet		1		H2OD	2/16/23	C APPLEKAMP
Field Temperature	6.0	0.1	Degrees t		1		TEMP	2/16/23	C APPLEKAMP
Field pH	5.3	0.1	Units	0.1	1		FIELDPH	2/16/23	C APPLEKAMP
Field Conductivity	48	0	umhos		1		FCOND25	2/16/23	C APPLEKAMP
Dissolved Oxygen-Field	10.6	0.1	mg/l		1		FIELDDO	2/16/23	C APPLEKAMP
Turbidity	8.5	0.1	NTU'S		1		EPA 180.1	2/16/23	C APPLEKAMP
Redox Potential	259	1	mV		1		ASTM D1498-93	2/16/23	C APPLEKAMP
Total Calcium	4880	114	ug/L	500	1		EPA 200.7	2/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Magnesium	1200	182	ug/L	1000	1		EPA 200.7	2/21/23	020
Total Manganese	4.1	1.5	ug/L	5.0	1	J	EPA 200.7	2/21/23	020

Report Date: Monday, January 29, 2024

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

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE71172 Sample Collection Date/Time: 02/16/2023 10:07  
Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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 Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Hardness as CaCO3	17.1	1.0	mg/L	5.4	1		StdMtd 2340B	2/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	2/21/23	020
Total Alkalinity as CaCO3	17.3	7.4	mg/L	25.0	1	J	SM 2320 B-1997	2/20/23	020
Nitrate-Nitrite as N	0.87	0.059	mg/L	0.25	1		EPA 300.0	2/23/23	020

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE71173 Sample Collection Date/Time: 02/16/2023 11:23  
Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	4.96	0.05	feet		1		H2OD	2/16/23	C APPLEKAMP
Field Temperature	5.6	0.1	Degrees t		1		TEMP	2/16/23	C APPLEKAMP
Field pH	5.6	0.1	Units	0.1	1		FIELDPH	2/16/23	C APPLEKAMP
Field Conductivity	256	0	umhos		1		FCOND25	2/16/23	C APPLEKAMP
Dissolved Oxygen-Field	0.3	0.1	mg/l		1		FIELDDO	2/16/23	C APPLEKAMP
Turbidity	2.2	0.1	NTU'S		1		EPA 180.1	2/16/23	C APPLEKAMP
Redox Potential	45.4	1	mV		1		ASTM D1498-93	2/16/23	C APPLEKAMP
Total Calcium	30600	114	ug/L	500	1		EPA 200.7	2/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Magnesium	7410	182	ug/L	1000	1		EPA 200.7	2/21/23	020
Total Manganese	1530	1.5	ug/L	5.0	1		EPA 200.7	2/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Hardness as CaCO3	107	1.0	mg/L	5.4	1		StdMtd 2340B	2/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	2/21/23	020
Total Alkalinity as CaCO3	116	7.4	mg/L	25.0	1		SM 2320 B-1997	2/20/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	2/23/23	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE71174 Sample Collection Date/Time: 02/16/2023 12:12  
Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	12.45	0.05	feet		1		H2OD	2/16/23	C APPLEKAMP
Field Temperature	6.9	0.1	Degrees t		1		TEMP	2/16/23	C APPLEKAMP
Field pH	5.9	0.1	Units	0.1	1		FIELDPH	2/16/23	C APPLEKAMP
Field Conductivity	192	0	umhos		1		FCOND25	2/16/23	C APPLEKAMP
Dissolved Oxygen-Field	0.4	0.1	mg/l		1		FIELDDO	2/16/23	C APPLEKAMP

Report Date: Monday, January 29, 2024

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

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE71174 Sample Collection Date/Time: 02/16/2023 12:12  
 Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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>
Turbidity	50.3	0.1	NTU'S		1		EPA 180.1	2/16/23	C APPLEKAMP
Redox Potential	42.9	1	mV		1		ASTM D1498-93	2/16/23	C APPLEKAMP
Total Calcium	24300	114	ug/L	500	1		EPA 200.7	2/21/23	020
Total Copper	29.1	3.4	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Magnesium	14100	182	ug/L	1000	1		EPA 200.7	2/21/23	020
Total Manganese	3620	1.5	ug/L	5.0	1		EPA 200.7	2/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Hardness as CaCO3	119	1.0	mg/L	5.4	1		StdMtd 2340B	2/21/23	020
Total Zinc	32.0	11.6	ug/L	40.0	1	J	EPA 200.7	2/21/23	020
Total Alkalinity as CaCO3	83.4	14.9	mg/L	50.0	2		SM 2320 B-1997	2/20/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	2/23/23	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE71175 Sample Collection Date/Time: 02/16/2023 08:59  
 Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	5.55	0.05	feet		1		H2OD	2/16/23	C APPLEKAMP
Field Temperature	6.5	0.1	Degrees t		1		TEMP	2/16/23	C APPLEKAMP
Field pH	5.4	0.1	Units	0.1	1		FIELDPH	2/16/23	C APPLEKAMP
Field Conductivity	352	0	umhos		1		FCOND25	2/16/23	C APPLEKAMP
Dissolved Oxygen-Field	0.9	0.1	mg/l		1		FIELDDO	2/16/23	C APPLEKAMP
Turbidity	2.9	0.1	NTU'S		1		EPA 180.1	2/16/23	C APPLEKAMP
Redox Potential	249	1	mV		1		ASTM D1498-93	2/16/23	C APPLEKAMP
Total Calcium	45700	114	ug/L	500	1		EPA 200.7	2/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Magnesium	10300	182	ug/L	1000	1		EPA 200.7	2/21/23	020
Total Manganese	9.5	1.5	ug/L	5.0	1		EPA 200.7	2/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	2/21/23	020
Total Hardness as CaCO3	156	1.0	mg/L	5.4	1		StdMtd 2340B	2/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	2/21/23	020
Total Dissolved Solids	212	8.7	mg/L	20.0	1		Std Mtd 2540 C	2/21/23	020
Total Chloride	18.7	0.43	mg/L	2.0	1		EPA 300.0	2/27/23	020
Total Sulfate	80.7	2.2	mg/L	10.0	5		EPA 300.0	2/28/23	020
Total Alkalinity as CaCO3	43.3	7.4	mg/L	25.0	1	M0	SM 2320 B-1997	2/20/23	020
Nitrate-Nitrite as N	1.4	0.059	mg/L	0.25	1		EPA 300.0	2/23/23	020

Sample Comments:

Report Date: Monday, January 29, 2024

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

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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: Laboratory Services at (414) 221-4595.

To: Bob Meidl  
 PSB Annex A231

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



Report Date: Monday, January 29, 2024

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

Sample Description: <b>LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well</b>									
Sample ID:	AE71183	Sample Collection Date/Time:	03/24/2023	12:12					
Sample Received:	01/29/2024	Sample Collector:	C APPLEKAMP						
<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	7.87	0.05	feet		1		H2OD	3/24/23	C APPLEKAMP
Field Temperature	5.1	0.1	Degrees C		1		TEMP	3/24/23	C APPLEKAMP
Field pH	5.3	0.1	Units	0.1	1		FIELDPH	3/24/23	C APPLEKAMP
Field Conductivity	97	0	umhos		1		FCOND25	3/24/23	C APPLEKAMP
Dissolved Oxygen-Field	9.5	0.1	mg/l		1		FIELDDO	3/24/23	C APPLEKAMP
Turbidity	3.2	0.1	NTU'S		1		EPA 180.1	3/24/23	C APPLEKAMP
Redox Potential	246	1	mV		1		ASTM D1498-93	3/24/23	C APPLEKAMP
Total Calcium	11900	114	ug/L	500	1		EPA 200.7	3/28/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Magnesium	2040	182	ug/L	1000	1		EPA 200.7	3/28/23	020
Total Manganese	3.5	1.5	ug/L	5.0	1	J	EPA 200.7	3/28/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Hardness as CaCO3	38.0	1.0	mg/L	5.4	1		StdMtd 2340B	3/28/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	3/28/23	020
Total Alkalinity as CaCO3	33.4	7.4	mg/L	25.0	1		SM 2320 B-1997	4/4/23	020
Nitrate-Nitrite as N	1.1	0.059	mg/L	0.25	1		EPA 300.0	4/3/23	020
Total Dissolved Solids	70.0	8.7	mg/L	20.0	1		Std Mtd 2540 C	3/28/23	020

Sample Comments:

Sample Description: <b>LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well</b>									
Sample ID:	AE71184	Sample Collection Date/Time:	03/24/2023	11:38					
Sample Received:	01/29/2024	Sample Collector:	C APPLEKAMP						
<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	10.60	0.05	feet		1		H2OD	3/24/23	C APPLEKAMP
Field Temperature	5.7	0.1	Degrees C		1		TEMP	3/24/23	C APPLEKAMP
Field pH	5.4	0.1	Units	0.1	1		FIELDPH	3/24/23	C APPLEKAMP
Field Conductivity	34.8	0	umhos		1		FCOND25	3/24/23	C APPLEKAMP
Dissolved Oxygen-Field	11.8	0.1	mg/l		1		FIELDDO	3/24/23	C APPLEKAMP
Turbidity	4.1	0.1	NTU'S		1		EPA 180.1	3/24/23	C APPLEKAMP
Redox Potential	229	1	mV		1		ASTM D1498-93	3/24/23	C APPLEKAMP
Total Calcium	3100	114	ug/L	500	1		EPA 200.7	3/28/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Magnesium	806	182	ug/L	1000	1	J	EPA 200.7	3/28/23	020
Total Manganese	1.9	1.5	ug/L	5.0	1	J	EPA 200.7	3/28/23	020

Report Date: Monday, January 29, 2024

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

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE71184 Sample Collection Date/Time: 03/24/2023 11:38  
Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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 Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Hardness as CaCO3	111	1.0	mg/L	5.4	1		StdMtd 2340B	3/28/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	3/28/23	020
Total Alkalinity as CaCO3	12.3	7.4	mg/L	25.0	1	J	SM 2320 B-1997	4/4/23	020
Nitrate-Nitrite as N	0.40	0.059	mg/L	0.25	1		EPA 300.0	4/3/23	020

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE71185 Sample Collection Date/Time: 03/24/2023 12:52  
Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	4.39	0.05	feet		1		H2OD	3/24/23	C APPLEKAMP
Field Temperature	5.2	0.1	Degrees t		1		TEMP	3/24/23	C APPLEKAMP
Field pH	5.6	0.1	Units	0.1	1		FIELDPH	3/24/23	C APPLEKAMP
Field Conductivity	253	0	umhos		1		FCOND25	3/24/23	C APPLEKAMP
Dissolved Oxygen-Field	0.5	0.1	mg/l		1		FIELDDO	3/24/23	C APPLEKAMP
Turbidity	1.2	0.1	NTU'S		1		EPA 180.1	3/24/23	C APPLEKAMP
Redox Potential	66	1	mV		1		ASTM D1498-93	3/24/23	C APPLEKAMP
Total Calcium	27600	114	ug/L	500	1		EPA 200.7	3/28/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Magnesium	6520	182	ug/L	1000	1		EPA 200.7	3/28/23	020
Total Manganese	1340	1.5	ug/L	5.0	1		EPA 200.7	3/28/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Hardness as CaCO3	95.7	1.0	mg/L	5.4	1		StdMtd 2340B	3/28/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	3/28/23	020
Total Alkalinity as CaCO3	91.6	7.4	mg/L	20.0	1		SM 2320 B-1997	4/4/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	4/3/23	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE71186 Sample Collection Date/Time: 03/24/2023 13:43  
Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	12.33	0.05	feet		1		H2OD	3/24/23	C APPLEKAMP
Field Temperature	6.4	0.1	Degrees t		1		TEMP	3/24/23	C APPLEKAMP
Field pH	5.6	0.1	Units	0.1	1		FIELDPH	3/24/23	C APPLEKAMP
Field Conductivity	136	0	umhos		1		FCOND25	3/24/23	C APPLEKAMP
Dissolved Oxygen-Field	0.9	0.1	mg/l		1		FIELDDO	3/24/23	C APPLEKAMP

Report Date: Monday, January 29, 2024

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

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE71186 Sample Collection Date/Time: 03/24/2023 13:43  
 Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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>
Turbidity	36.3	0.1	NTU'S		1		EPA 180.1	3/24/23	C APPLEKAMP
Redox Potential	111	1	mV		1		ASTM D1498-93	3/24/23	C APPLEKAMP
Total Calcium	15300	114	ug/L	500	1		EPA 200.7	3/28/23	020
Total Copper	4.1	3.4	ug/L	10.0	1	J	EPA 200.7	3/28/23	020
Total Magnesium	6470	182	ug/L	1000	1		EPA 200.7	3/28/23	020
Total Manganese	826	1.5	ug/L	5.0	1		EPA 200.7	3/28/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Hardness as CaCO3	64.7	1.0	mg/L	5.4	1		StdMtd 2340B	3/28/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	3/28/23	020
Total Alkalinity as CaCO3	68.3	7.4	mg/L	25.0	1		SM 2320 B-1997	4/4/23	020
Nitrate-Nitrite as N	0.067	0.059	mg/L	0.25	1	J	EPA 300.0	4/3/23	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE71187 Sample Collection Date/Time: 03/24/2023 10:52  
 Sample Received: 01/29/2024 Sample Collector: C APPLEKAMP

<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	5.44	0.05	feet		1		H2OD	3/24/23	C APPLEKAMP
Field Temperature	5.8	0.1	Degrees t		1		TEMP	3/24/23	C APPLEKAMP
Field pH	5.4	0.1	Units	0.1	1		FIELDPH	3/24/23	C APPLEKAMP
Field Conductivity	301	0	umhos		1		FCOND25	3/24/23	C APPLEKAMP
Dissolved Oxygen-Field	1.4	0.1	mg/l		1		FIELDDO	3/24/23	C APPLEKAMP
Turbidity	1.8	0.1	NTU'S		1		EPA 180.1	3/24/23	C APPLEKAMP
Redox Potential	247	1	mV		1		ASTM D1498-93	3/24/23	C APPLEKAMP
Total Calcium	35600	114	ug/L	500	1		EPA 200.7	3/28/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Magnesium	7860	182	ug/L	1000	1		EPA 200.7	3/28/23	020
Total Manganese	9.8	1.5	ug/L	5.0	1		EPA 200.7	3/28/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	3/28/23	020
Total Hardness as CaCO3	121	1.0	mg/L	5.4	1		StdMtd 2340B	3/28/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	3/28/23	020
Total Alkalinity as CaCO3	42.3	7.4	mg/L	25.0	1		SM 2320 B-1997	4/4/23	020
Nitrate-Nitrite as N	1.3	0.059	mg/L	0.25	1		EPA 300.0	4/3/23	020
Total Dissolved Solids	180	8.7	mg/L	20.0	1		Std Mtd 2540 C	3/28/23	020
Total Chloride	15.2	2.2	mg/L	10.0	5		EPA 300.0	4/3/23	020
Total Sulfate	74.7	2.2	mg/L	10.0	5		EPA 300.0	4/3/23	020

Sample Comments:



Report Date: Monday, January 29, 2024

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

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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: Laboratory Services at (414) 221-4595.

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: **LS-10 Weston Onsite Ash Landfill - GW Monitoring Wells**  
 Sample ID: AE66667 Sample Collection Date/Time: 04/27/2023 11:15  
 Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	11.73	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	7.7	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	404	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	181	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/5/23	020
Dissolved Sulfate	5.3	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	53200	568	ug/L	2500	5		EPA 200.7	5/3/23	020
Dissolved Magnesium	13700	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	189	1	mg/L		1		Std Mtd 2340B	5/3/23	020

Sample Comments:  
 Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-48P Weston Onsite Ash Landfill - GW Monitoring Wells**  
 Sample ID: AE66668 Sample Collection Date/Time: 04/27/2023 17:00  
 Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	0.7	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	8.5	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	214	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.7	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	92.2	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/5/23	020
Dissolved Sulfate	15.0	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	75.0	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	12800	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	4210	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	20.0	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	49.3	1.0	mg/L	5.4	1		Std Mtd 2340B	5/2/23	020

Sample Comments:  
 Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-48R Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66669 Sample Collection Date/Time: 04/27/2023 10:55  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	2.14	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	6.8	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	214	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.4	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	101	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/5/23	020
Dissolved Sulfate	6.5	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	60.6	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	21200	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	9110	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	2.4	2.4	ug/L	10.0	1	J	EPA 200.7	5/2/23	020
Total Hardness as CaCO3	90.4	1.0	mg/L	5.4	1		Std Mtd 2340B	5/2/23	020

Sample Comments:

Sample Description: **LS-49R Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66670 Sample Collection Date/Time: 04/27/2023 15:20  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	4/27/23	C APPLEKAMP
Field Temperature	6.5	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	134	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.6	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	61.7	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/5/23	020
Dissolved Sulfate	5.7	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	12600	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	4820	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	51	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:

Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-54 Weston Onsite Ash Landfill - GW Monitoring WLS**  
Sample ID: AE66671 Sample Collection Date/Time: 04/27/2023 14:25  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	1.33	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	7.2	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	42	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.9	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-54 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66671 Sample Collection Date/Time: 04/27/2023 14:25  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	10.9	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/5/23	020
Dissolved Sulfate	4.9	0.44	mg/L	2.0	1	M0, R1	EPA 300.0	5/19/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	3260	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	818	182	ug/L	1000	1	J	EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	12	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS 54P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66672 Sample Collection Date/Time: 04/27/2023 14:15  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	0.88	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	8.8	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	128	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.4	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	51.3	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/5/23	020
Dissolved Sulfate	5.9	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	24.9	17.3	ug/L	40.0	1	J	EPA 200.7	5/2/23	020
Dissolved Calcium	14200	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	2850	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	47	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-100 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66673 Sample Collection Date/Time: 04/27/2023 11:54  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	6.75	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	5.1	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	99	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.2	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	25.2	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	12.2	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	12000	114	ug/L	500	1		EPA 200.7	5/2/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-100 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66673 Sample Collection Date/Time: 04/27/2023 11:54  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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 Magnesium	2030	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	38	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-100P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66674 Sample Collection Date/Time: 04/27/2023 15:40  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	8.11	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	10.5	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	299	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.7	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	117	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	21.0	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	21.6	17.3	ug/L	40.0	1	J	EPA 200.7	5/2/23	020
Dissolved Calcium	28300	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	9140	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	110	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-101 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66675 Sample Collection Date/Time: 04/27/2023 11:03  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	8.48	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	5.5	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	31	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.3	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	9.1	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	1.6	0.44	mg/L	2.0	1	J	EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	2540	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	695	182	ug/L	1000	1	J	EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	9.2	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Report Date: Wednesday, January 24, 2024

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

Sample Comments:

Sample Description: **LS-101P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66676 Sample Collection Date/Time: 04/27/2023 17:10  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	8.69	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	9.1	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	60	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.2	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	18.1	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	2.7	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	4610	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	1170	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	16	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-102 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66677 Sample Collection Date/Time: 04/27/2023 10:35  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	2.31	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	6.2	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	69.5	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.4	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	14.0	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	4.4	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	5660	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	1330	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	20	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-102P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66678 Sample Collection Date/Time: 04/27/2023 10:45  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	1.46	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	7.6	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	123.7	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.0	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	34.8	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	7.4	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	11400	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	3130	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	41	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-103 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66679 Sample Collection Date/Time: 04/27/2023 12:10  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	9.72	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	7.1	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	183	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.7	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	8.5	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	4.2	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	13200	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	3860	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	49	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-103P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66680 Sample Collection Date/Time: 04/27/2023 12:00  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	9.69	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	9.1	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	560	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	7.4	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-103P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66680 Sample Collection Date/Time: 04/27/2023 12:00  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	171	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	17.4	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	61200	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	13800	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	6.1	2.4	ug/L	10.0	1	J	EPA 200.7	5/2/23	020
Total Hardness as CaCO3	210	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-104 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66681 Sample Collection Date/Time: 04/27/2023 13:30  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	8.27	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	7.0	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	36	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.8	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	8.7	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	3.0	0.44	mg/L	2.0	1		EPA 300.0	5/18/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	2910	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	667	182	ug/L	1000	1	J	EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	10	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-105 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66682 Sample Collection Date/Time: 04/27/2023 12:58  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	3.53	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	6.6	0.1	Degrees t		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	201	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.5	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	82.1	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	17.1	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	19.9	17.3	ug/L	40.0	1	J	EPA 200.7	5/2/23	020
Dissolved Calcium	21700	114	ug/L	500	1		EPA 200.7	5/2/23	020



Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-105 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66682 Sample Collection Date/Time: 04/27/2023 12:58  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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 Magnesium	5280	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	76	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LS-105P Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66683 Sample Collection Date/Time: 04/27/2023 16:30  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	3.50	0.05	feet		1		H2OD	4/27/23	C APPLEKAMP
Field Temperature	9.5	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	209	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	5.7	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	71.4	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	29.9	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	27.3	17.3	ug/L	40.0	1	J	EPA 200.7	5/2/23	020
Dissolved Calcium	24700	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	7370	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	92	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **QA/QC1 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66684 Sample Collection Date/Time: 04/27/2023 00:00  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	26.0	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	12.1	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	12100	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	2050	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	39	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Report Date: Wednesday, January 24, 2024

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

Sample Description: **QA/QC2 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66685 Sample Collection Date/Time: 04/27/2023 00:00  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	10.2	7.4	mg/l	25.0	1	J	Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	4.1	0.44	mg/L	2.0	1		EPA 300.0	5/19/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	12900	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	3820	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	48	1	mg/L		1		Std Mtd 2340B	5/23/23	MWM

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **EB1 Weston Onsite Ash Landfill - GW Monitoring Wells**  
Sample ID: AE66686 Sample Collection Date/Time: 04/27/2023 17:30  
Sample Received: 05/19/2023 Sample Collector: C APPLEKAMP

<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	12.5	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	2.0	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.2	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Total Filtered Alkalinity as CaCO3	Less Than	7.4	mg/l	25.0	1		Std Mtd 2320 B	5/10/23	020
Dissolved Sulfate	0.46	0.44	mg/L	2.0	1	J	EPA 300.0	5/19/23	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	5/2/23	020
Dissolved Calcium	Less Than	114	ug/L	500	1		EPA 200.7	5/2/23	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	5/2/23	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	5/2/23	020
Total Hardness as CaCO3	Less Than	1.0	mg/L	5.4	1		Std Mtd 2340B	5/2/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750)

Sample Description: **LHT WDS#3 Ash Landfill - Semi Annual Sample**  
Sample ID: AE66728 Sample Collection Date/Time: 04/27/2023 17:45  
Sample Received: 05/24/2023 Sample Collector: C APPLEKAMP

<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	10.8	0.1	Degrees C		1		TEMP	4/27/23	C APPLEKAMP
Field Conductivity	3351	0	umhos		1		FCOND25	4/27/23	C APPLEKAMP
Field pH	6.3	0.1	Units	0.1	1		FIELDPH	4/27/23	C APPLEKAMP
Turbidity	No	0.1	NTU'S		1		EPA 180.1	4/27/23	C APPLEKAMP
Total Suspended Solids	2.9	0.48	mg/L	1.0	1		Std Mtd 2540 D	5/1/23	020
COD	67.8	15.5	mg/L	52.6	1		EPA 410.4	5/9/23	020
Biochemical Oxygen Demand	Less Than	2	mg/L	2	1		Std Mtd 5210B	5/4/23	020
Total Alkalinity as CaCO3	63.7	7.4	mg/L	25.0	1		SM 2320 B-1997	5/10/23	020
Total Sulfate	1300	22.2	mg/L	100	50		EPA 300.0	5/15/23	020

Report Date: Wednesday, January 24, 2024

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

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Sample Description: **LHT WDS#3 Ash Landfill - Semi Annual Sample**  
Sample ID: AE66728 Sample Collection Date/Time: 04/27/2023 17:45  
Sample Received: 05/24/2023 Sample Collector: C APPLEKAMP

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Chloride	325	21.6	mg/L	100	50		EPA 300.0	5/15/23	020
Total Boron	751	17.3	ug/L	40.0	1		EPA 200.7	5/3/23	020
Total Cadmium	Less Than	1.3	ug/L	5.0	1		EPA 200.7	5/3/23	020
Total Calcium	297000	114	ug/L	500	1		EPA 200.7	5/3/23	020
Total Iron	Less Than	56.7	mg/L	100	1		EPA 200.7	5/3/23	020
Total Lead	Less Than	5.9	ug/L	20.0	1		EPA 200.7	5/3/23	020
Total Magnesium	28000	182	ug/L	1000	1		EPA 200.7	5/3/23	020
Total Manganese	3080	1.5	ug/L	5.0	1		EPA 200.7	5/3/23	020
Total Molybdenum	231	2.4	ug/L	10.0	1		EPA 200.7	5/3/23	020
Total Selenium	19.1	12.2	ug/L	40.0	1		EPA 200.7	5/3/23	020
Total Hardness as CaCO3	857	1	mg/L		1		Std Mtd 2340B	5/1/23	020
Total Mercury	92.7	2.0	ng/L	5.0	10		EPA 1631E	5/3/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Cert #405132750)

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Sample Description: **Hg Blk WDS#3 Ash Landfill - Semi Annual Sample**  
Sample ID: AE66729 Sample Collection Date/Time: 04/27/2023 17:50  
Sample Received: 05/24/2023 Sample Collector: C APPLEKAMP

<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 Mercury Field Blank	Less Than	0.20	ng/L	0.50	1		EPA 1631E	5/9/23	020

Sample Comments:

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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: Laboratory Services at (414) 221-4595.

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: **LS-100 Weston Disposal Site #3 - Ash Landfill Sample**  
 Sample ID: AE67407 Sample Collection Date/Time: 06/07/2023 13:20  
 Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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	9.18	0.05	feet		1		H2OD	6/7/23	CMA - REL
Field Temperature	8.3	0.1	Degrees t		1		TEMP	6/7/23	CMA - REL
Field Conductivity	123	0	umhos		1		FCOND25	6/7/23	CMA - REL
Field pH	5.2	0.1	Units	0.1	1		FIELDPH	6/7/23	CMA - REL
Turbidity	1.8	0.1	NTU'S		1		EPA 180.1	6/7/23	CMA - REL
Nitrate-Nitrite as N	2.5	0.059	mg/L	0.25	1		EPA 300.0	6/19/23	020
Dissolved Oxygen-Field	7.6	0.1	mg/l		1		FIELDDO	6/7/23	CMA - REL
Redox Potential	256	1	mV		1		ASTM D1498-93	6/7/23	CMA - REL
Total Hardness as CaCO3	50	1	mg/L		1		Std Mtd 2340B	6/30/23	CMW
Total Calcium	15600	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	2730	182	ug/L	1000	1		EPA 200.7	6/9/23	020
Total Manganese	2.4	1.5	ug/L	5.0	1	J	EPA 200.7	6/9/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:  
 Sample analyzed by Pace Analytical (WDNR Lab Cert #405132750)

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill Sample**  
 Sample ID: AE67408 Sample Collection Date/Time: 06/07/2023 12:44  
 Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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	11.29	0.05	feet		1		H2OD	6/7/23	CMA - REL
Field Temperature	8.9	0.1	Degrees t		1		TEMP	6/7/23	CMA - REL
Field Conductivity	30	0	umhos		1		FCOND25	6/7/23	CMA - REL
Field pH	5.3	0.1	Units	0.1	1		FIELDPH	6/7/23	CMA - REL
Turbidity	4.4	0.1	NTU'S		1		EPA 180.1	6/7/23	CMA - REL
Nitrate-Nitrite as N	0.20	0.059	mg/L	0.25	1	J	EPA 300.0	6/19/23	020
Dissolved Oxygen-Field	10.4	0.1	mg/l		1		FIELDDO	6/7/23	CMA - REL
Redox Potential	235	1	mV		1		ASTM D1498-93	6/7/23	CMA - REL
Total Hardness as CaCO3	9.8	1	mg/L		1		Std Mtd 2340B	6/30/23	CMW
Total Calcium	2650	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	768	182	ug/L	1000	1	J	EPA 200.7	6/9/23	020
Total Manganese	2.5	1.5	ug/L	5.0	1	J	EPA 200.7	6/9/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67408 Sample Collection Date/Time: 06/07/2023 12:44  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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 Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67409 Sample Collection Date/Time: 06/07/2023 14:01  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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	4.85	0.05	feet		1		H2OD	6/7/23	CMA - REL
Field Temperature	10.5	0.1	Degrees t		1		TEMP	6/7/23	CMA - REL
Field Conductivity	171	0	umhos		1		FCOND25	6/7/23	CMA - REL
Field pH	5.6	0.1	Units	0.1	1		FIELDPH	6/7/23	CMA - REL
Turbidity	1.0	0.1	NTU'S		1		EPA 180.1	6/7/23	CMA - REL
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	6/19/23	020
Dissolved Oxygen-Field	0.4	0.1	mg/l		1		FIELDDO	6/7/23	CMA - REL
Redox Potential	78	1	mV		1		ASTM D1498-93	6/7/23	CMA - REL
Total Hardness as CaCO3	62	1	mg/L		1		Std Mtd 2340B	6/30/23	CMW
Total Calcium	17900	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	4300	182	ug/L	1000	1		EPA 200.7	6/9/23	020
Total Manganese	956	1.5	ug/L	5.0	1		EPA 200.7	6/9/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67410 Sample Collection Date/Time: 06/07/2023 14:54  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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	12.38	0.05	feet		1		H2OD	6/7/23	CMA - REL
Field Temperature	9.2	0.1	Degrees t		1		TEMP	6/7/23	CMA - REL
Field Conductivity	51	0	umhos		1		FCOND25	6/7/23	CMA - REL
Field pH	5.3	0.1	Units	0.1	1		FIELDPH	6/7/23	CMA - REL
Turbidity	38.2	0.1	NTU'S		1		EPA 180.1	6/7/23	CMA - REL
Nitrate-Nitrite as N	0.59	0.059	mg/L	0.25	1		EPA 300.0	6/19/23	020
Dissolved Oxygen-Field	3.1	0.1	mg/l		1		FIELDDO	6/7/23	CMA - REL
Redox Potential	164	1	mV		1		ASTM D1498-93	6/7/23	CMA - REL
Total Hardness as CaCO3	23	1	mg/L		1		Std Mtd 2340B	6/30/23	CMW

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67410 Sample Collection Date/Time: 06/07/2023 14:54  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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 Calcium	5680	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	2190	182	ug/L	1000	1		EPA 200.7	6/9/23	020
Total Manganese	73.2	1.5	ug/L	5.0	1		EPA 200.7	6/9/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67411 Sample Collection Date/Time: 06/07/2023 11:58  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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	6.20	0.05	feet		1		H2OD	6/7/23	CMA - REL
Field Temperature	8.4	0.1	Degrees C		1		TEMP	6/7/23	CMA - REL
Field Conductivity	295	0	umhos		1		FCOND25	6/7/23	CMA - REL
Field pH	5.4	0.1	Units	0.1	1		FIELDPH	6/7/23	CMA - REL
Turbidity	3.0	0.1	NTU'S		1		EPA 180.1	6/7/23	CMA - REL
Nitrate-Nitrite as N	1.4	0.059	mg/L	0.25	1		EPA 300.0	6/19/23	020
Dissolved Oxygen-Field	1.8	0.1	mg/l		1		FIELDDO	6/7/23	CMA - REL
Redox Potential	223	1	mV		1		ASTM D1498-93	6/7/23	CMA - REL
Total Hardness as CaCO3	120	1	mg/L		1		Std Mtd 2340B	6/30/23	CMW
Total Calcium	34500	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	7850	182	ug/L	1000	1		EPA 200.7	6/9/23	020
Total Manganese	4.0	1.5	ug/L	5.0	1	J	EPA 200.7	6/9/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:

Sample Description: **QA/QC1 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67412 Sample Collection Date/Time: 06/07/2023 00:00  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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>
Nitrate-Nitrite as N	2.6	0.059	mg/L	0.25	1		EPA 300.0	6/19/23	020
Total Hardness as CaCO3	49	1	mg/L		1		Std Mtd 2340B	6/30/23	CMW
Total Calcium	15200	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	2670	182	ug/L	1000	1		EPA 200.7	6/9/23	020

Report Date: Wednesday, January 24, 2024

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

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Sample Description: **QA/QC1 Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67412 Sample Collection Date/Time: 06/07/2023 00:00  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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 Manganese	1.7	1.5	ug/L	5.0	1	J	EPA 200.7	6/9/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:

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Sample Description: **EB Weston Disposal Site #3 - Ash Landfill Sample**  
Sample ID: AE67413 Sample Collection Date/Time: 06/07/2023 15:10  
Sample Received: 06/28/2023 Sample Collector: CMA - REL

<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>
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	6/19/23	020
Total Hardness as CaCO3	Less Than	1	mg/L		1		Std Mtd 2340B	6/9/23	020
Total Calcium	Less Than	114	ug/L	500	1		EPA 200.7	6/9/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	6/9/23	020
Total Manganese	Less Than	1.5	ug/L	5.0	1		EPA 200.7	6/9/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	6/9/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	6/9/23	020

Sample Comments:

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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: Laboratory Services at (414) 221-4595.

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: **LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE67966 Sample Collection Date/Time: 07/12/2023 13:39  
 Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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	11.86	0.05	feet		1		H2OD	7/12/23	J OETTINGER
Field Conductivity	143	0	umhos		1		FCOND25	7/12/23	J OETTINGER
Field pH	5.7	0.1	Units	0.1	1		FIELDPH	7/12/23	J OETTINGER
Field Temperature	10.3	0.1	Degrees C		1		TEMP	7/12/23	J OETTINGER
Dissolved Oxygen-Field	4.0	0.1	mg/l		1		FIELDDO	7/12/23	J OETTINGER
Turbidity	3.0	0.1	NTU'S		1		EPA 180.1	7/12/23	J OETTINGER
Redox Potential	248	1	mV		1		ASTM D1498-93	7/12/23	J OETTINGER
Total Calcium	18600	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Magnesium	3280	182	ug/L	1000	1		EPA 200.7	7/17/23	020
Total Manganese	4.4	1.5	ug/L	5.0	1	J	EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Hardness as CaCO3	59.9	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	2.1	0.059	mg/L	0.25	1		EPA 300.0	7/25/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750).

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE67967 Sample Collection Date/Time: 07/12/2023 12:58  
 Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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	14.60	0.05	feet		1		H2OD	7/12/23	J OETTINGER
Field Conductivity	44	0	umhos		1		FCOND25	7/12/23	J OETTINGER
Field pH	6.0	0.1	Units	0.1	1		FIELDPH	7/12/23	J OETTINGER
Field Temperature	9.5	0.1	Degrees C		1		TEMP	7/12/23	J OETTINGER
Dissolved Oxygen-Field	8.2	0.1	mg/l		1		FIELDDO	7/12/23	J OETTINGER
Turbidity	7.4	0.1	NTU'S		1		EPA 180.1	7/12/23	J OETTINGER
Redox Potential	228	1	mV		1		ASTM D1498-93	7/12/23	J OETTINGER
Total Calcium	4630	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Magnesium	981	182	ug/L	1000	1	J	EPA 200.7	7/17/23	020
Total Manganese	4.0	1.5	ug/L	5.0	1	J	EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Hardness as CaCO3	15.6	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020



Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67967 Sample Collection Date/Time: 07/12/2023 12:58  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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 Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	0.18	0.059	mg/L	0.25	1	J	EPA 300.0	7/25/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750).

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67968 Sample Collection Date/Time: 07/12/2023 14:15  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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	6.20	0.05	feet		1		H2OD	7/12/23	J OETTINGER
Field Conductivity	176	0	umhos		1		FCOND25	7/12/23	J OETTINGER
Field pH	6.1	0.1	Units	0.1	1		FIELDPH	7/12/23	J OETTINGER
Field Temperature	12.0	0.1	Degrees t		1		TEMP	7/12/23	J OETTINGER
Dissolved Oxygen-Field	0.0	0.1	mg/l		1		FIELDDO	7/12/23	J OETTINGER
Turbidity	2.1	0.1	NTU'S		1		EPA 180.1	7/12/23	J OETTINGER
Redox Potential	-43	1	mV		1		ASTM D1498-93	7/12/23	J OETTINGER
Total Calcium	19800	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Magnesium	4760	182	ug/L	1000	1		EPA 200.7	7/17/23	020
Total Manganese	1050	1.5	ug/L	5.0	1		EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Hardness as CaCO3	69.1	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	7/25/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750).

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67969 Sample Collection Date/Time: 07/12/2023 15:09  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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	12.40	0.05	feet		1		H2OD	7/12/23	J OETTINGER
Field Conductivity	9.7	0	umhos		1		FCOND25	7/12/23	J OETTINGER
Field pH	6.1	0.1	Units	0.1	1		FIELDPH	7/12/23	J OETTINGER
Field Temperature	11.1	0.1	Degrees t		1		TEMP	7/12/23	J OETTINGER
Dissolved Oxygen-Field	0.0	0.1	mg/l		1		FIELDDO	7/12/23	J OETTINGER
Turbidity	11.2	0.1	NTU'S		1		EPA 180.1	7/12/23	J OETTINGER
Redox Potential	114	1	mV		1		ASTM D1498-93	7/12/23	J OETTINGER
Total Calcium	12200	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67969 Sample Collection Date/Time: 07/12/2023 15:09  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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 Magnesium	3790	182	ug/L	1000	1		EPA 200.7	7/17/23	020
Total Manganese	755	1.5	ug/L	5.0	1		EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Hardness as CaCO3	46.2	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	7/25/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750).

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67970 Sample Collection Date/Time: 07/12/2023 12:01  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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	7.35	0.05	feet		1		H2OD	7/12/23	J OETTINGER
Field Conductivity	254	0	umhos		1		FCOND25	7/12/23	J OETTINGER
Field pH	5.8	0.1	Units	0.1	1		FIELDPH	7/12/23	J OETTINGER
Field Temperature	10.0	0.1	Degrees t		1		TEMP	7/12/23	J OETTINGER
Dissolved Oxygen-Field	0.6	0.1	mg/l		1		FIELDDO	7/12/23	J OETTINGER
Turbidity	2.4	0.1	NTU'S		1		EPA 180.1	7/12/23	J OETTINGER
Redox Potential	197	1	mV		1		ASTM D1498-93	7/12/23	J OETTINGER
Total Calcium	29500	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Magnesium	6680	182	ug/L	1000	1		EPA 200.7	7/17/23	020
Total Manganese	3.4	1.5	ug/L	5.0	1	J	EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Hardness as CaCO3	101	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	1.2	0.059	mg/L	0.25	1		EPA 300.0	7/25/23	020

Sample Comments:  
Sample analyzed by Pace Analytical (WDNR Lab Certification #405132750).

Sample Description: **QAQC1 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67971 Sample Collection Date/Time: 07/12/2023 00:00  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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 Calcium	17600	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Magnesium	3120	182	ug/L	1000	1		EPA 200.7	7/17/23	020
Total Manganese	3.4	1.5	ug/L	5.0	1	J	EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020

Report Date: Wednesday, January 24, 2024

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

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Sample Description: **QAQC1 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67971 Sample Collection Date/Time: 07/12/2023 00:00  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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 Hardness as CaCO3	56.9	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	2.2	0.059	mg/L	0.25	1		EPA 300.0	7/25/23	020

Sample Comments:

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Sample Description: **EB1 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE67972 Sample Collection Date/Time: 07/12/2023 15:20  
Sample Received: 07/26/2023 Sample Collector: JONAH OETTINGER

<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 Calcium	Less Than	114	ug/L	500	1		EPA 200.7	7/17/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	7/17/23	020
Total Manganese	Less Than	1.5	ug/L	5.0	1		EPA 200.7	7/17/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	7/17/23	020
Total Hardness as CaCO3	Less Than	1.0	mg/L	5.4	1		Std Mtd 2340B	7/17/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	7/17/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	7/25/23	020

Sample Comments:

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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: Laboratory Services at (414) 221-4595.

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: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE68558 Sample Collection Date/Time: 08/16/2023 14:23  
 Sample Received: 08/30/2023 Sample Collector: J OETTINGER

<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	14.6	0.05	feet		1		H2OD	8/16/23	CMA
Field Conductivity	55.4	0	umhos		1		FCOND25	8/16/23	CMA
Field pH	6.1	0.1	Units	0.1	1		FIELDPH	8/16/23	CMA
Field Temperature	11.6	0.1	Degrees t		1		TEMP	8/16/23	CMA
Total Calcium	6250	114	ug/L	500	1		EPA 200.7	8/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Magnesium	1150	182	ug/L	1000	1		EPA 200.7	8/21/23	020
Total Manganese	2.1	1.5	ug/L	5.0	1	J	EPA 200.7	8/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Hardness as CaCO3	20.4	1	mg/L	5.4	1		Std Mtd 2340B	8/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	8/21/23	020
Nitrate-Nitrite as N	0.25	0.059	mg/L	0.25	1	J	EPA 300.0	8/17/23	020

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE68559 Sample Collection Date/Time: 08/16/2023 16:06  
 Sample Received: 08/30/2023 Sample Collector: J OETTINGER

<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	6.75	0.05	feet		1		H2OD	8/16/23	CMA
Field Conductivity	198	0	umhos		1		FCOND25	8/16/23	CMA
Field pH	6.1	0.1	Units	0.1	1		FIELDPH	8/16/23	CMA
Field Temperature	13.7	0.1	Degrees t		1		TEMP	8/16/23	CMA
Total Calcium	22900	114	ug/L	500	1		EPA 200.7	8/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Magnesium	5430	182	ug/L	1000	1		EPA 200.7	8/21/23	020
Total Manganese	1110	1.5	ug/L	5.0	1		EPA 200.7	8/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Hardness as CaCO3	79.5	1	mg/L	5.4	1		Std Mtd 2340B	8/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	8/21/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	8/17/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE68560 Sample Collection Date/Time: 08/16/2023 16:48  
Sample Received: 08/30/2023 Sample Collector: J OETTINGER

<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	12.40	0.05	feet		1		H2OD	8/16/23	CMA
Field Conductivity	165	0	umhos		1		FCOND25	8/16/23	CMA
Field pH	6.1	0.1	Units	0.1	1		FIELDPH	8/16/23	CMA
Field Temperature	13.5	0.1	Degrees t		1		TEMP	8/16/23	CMA
Total Calcium	18900	114	ug/L	500	1		EPA 200.7	8/21/23	020
Total Copper	3.6	3.4	ug/L	10.0	1	J	EPA 200.7	8/21/23	020
Total Magnesium	7430	182	ug/L	1000	1		EPA 200.7	8/21/23	020
Total Manganese	2320	1.5	ug/L	5.0	1		EPA 200.7	8/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Hardness as CaCO3	77.9	1	mg/L	5.4	1		Std Mtd 2340B	8/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	8/21/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	8/17/23	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE68561 Sample Collection Date/Time: 08/16/2023 13:26  
Sample Received: 08/30/2023 Sample Collector: J OETTINGER

<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	7.55	0.05	feet		1		H2OD	8/16/23	CMA
Field Conductivity	350	0	umhos		1		FCOND25	8/16/23	CMA
Field pH	5.7	0.1	Units	0.1	1		FIELDPH	8/16/23	CMA
Field Temperature	11.6	0.1	Degrees t		1		TEMP	8/16/23	CMA
Total Calcium	42700	114	ug/L	500	1		EPA 200.7	8/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Magnesium	9600	182	ug/L	1000	1		EPA 200.7	8/21/23	020
Total Manganese	5.6	1.5	ug/L	5.0	1		EPA 200.7	8/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Hardness as CaCO3	146	1	mg/L	5.4	1		Std Mtd 2340B	8/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	8/21/23	020
Nitrate-Nitrite as N	1.3	0.059	mg/L	0.25	1		EPA 300.0	8/17/23	020

Sample Comments:

Report Date: Wednesday, January 24, 2024

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

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Sample Description: **QA/QC1 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE68562 Sample Collection Date/Time: 08/16/2023 00:00  
Sample Received: 08/30/2023 Sample Collector: J OETTINGER

<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 Calcium	22100	114	ug/L	500	1		EPA 200.7	8/21/23	020
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Magnesium	5240	182	ug/L	1000	1		EPA 200.7	8/21/23	020
Total Manganese	1050	1.5	ug/L	5.0	1		EPA 200.7	8/21/23	020
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	8/21/23	020
Total Hardness as CaCO3	76.6	1	mg/L	5.4	1		Std Mtd 2340B	8/21/23	020
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	8/21/23	020
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	8/17/23	020

Sample Comments:

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Sample Description: **EB1 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE68563 Sample Collection Date/Time: 08/16/2023 17:25  
Sample Received: 08/30/2023 Sample Collector: J OETTINGER

<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 Calcium	Less Than	114	ug/L	500	1		EPA 200.7	8/21/23	C157915
Total Copper	Less Than	3.4	ug/L	10.0	1		EPA 200.7	8/21/23	C157915
Total Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	8/21/23	C157915
Total Manganese	Less Than	1.5	ug/L	5.0	1		EPA 200.7	8/21/23	C157915
Total Silver	Less Than	3.2	ug/L	10.0	1		EPA 200.7	8/21/23	C157915
Total Hardness as CaCO3	Less Than	1	mg/L	5.4	1		Std Mtd 2340B	8/21/23	C157915
Total Zinc	Less Than	11.6	ug/L	40.0	1		EPA 200.7	8/21/23	C157915
Nitrate-Nitrite as N	Less Than	0.059	mg/L	0.25	1		EPA 300.0	8/17/23	C157915

Sample Comments:

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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: Laboratory Services at (414) 221-4595.

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: **LS-100 Weston Disposal Site #3 CCR Catchup Sampling**  
 Sample ID: AE69145 Sample Collection Date/Time: 09/20/2023 13:35  
 Sample Received: 09/29/2023 Sample Collector: R E LEE

<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	9/20/23	RAMOLL
Field Conductivity	150	0	umhos		1		FCOND25	9/20/23	RAMBOLL
Field pH	5.9	0.1	Units	0.1	1		FIELDPH	9/20/23	RAMBOLL
Field Temperature	13	0.1	Degrees t		1		TEMP	9/20/23	RAMBOLL
Total Calcium	28000	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	20.7	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	8060	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	121	1.5	ug/L	5.0	1		EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	103	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	33.3	11.6	ug/L	40	1	J	EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	1.7	0.65	mg/L	2.5	10	J	EPA 300.0	9/22/23	020

Sample Comments:

Sample Description: **LS-101 Weston Disposal Site #3 CCR Catchup Sampling**  
 Sample ID: AE69146 Sample Collection Date/Time: 09/20/2023 16:05  
 Sample Received: 09/29/2023 Sample Collector: R E LEE

<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	14.40	0.05	feet		1		H2OD	9/25/23	020
Total Calcium	6510	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	Less Than	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	1080	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	3.1	1.5	ug/L	5.0	1	J	EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	207	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	23.3	11.6	ug/L	40	1	J	EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	0.32	0.065	mg/L	0.25	1		EPA 300.0	9/22/23	020

Sample Comments:

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-105 Weston Disposal Site #3 CCR Catchup Sampling**  
Sample ID: AE69147 Sample Collection Date/Time: 09/20/2023 14:48  
Sample Received: 09/29/2023 Sample Collector: R E LEE

<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	7.50	0.05	feet		1		H2OD	9/20/23	RAMBOLL
Field Conductivity	212	0	umhos		1		FCOND25	9/20/23	RAMBOLL
Field pH	6.0	0.1	Units	0.1	1		FIELDPH	9/20/23	RAMBOLL
Field Temperature	14	0.1	Degrees t		1		TEMP	9/20/23	RAMBOLL
Total Calcium	24700	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	Less Than	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	5890	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	1090	1.5	ug/L	5	1		EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	86.0	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	Less Than	11.6	ug/L	40	1		EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	Less Than	0.065	mg/L	0.25	1		EPA 300.0	9/22/23	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 CCR Catchup Sampling**  
Sample ID: AE69148 Sample Collection Date/Time: 09/20/2023 15:38  
Sample Received: 09/29/2023 Sample Collector: R E LEE

<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	12.40	0.05	feet		1		H2OD	9/20/23	RAMBOLL
Field Conductivity	200	0	umhos		1		FCOND25	9/20/23	RAMBOLL
Field pH	6.1	0.1	Units	0.1	1		FIELDPH	9/20/23	RAMBOLL
Field Temperature	14	0.1	Degrees t		1		TEMP	9/20/23	RAMBOLL
Total Calcium	21800	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	Less Than	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	8850	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	2370	1.5	ug/L	5	1		EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	90.9	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	Less Than	11.6	ug/L	40	1		EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	Less Than	0.065	mg/L	0.25	1		EPA 300.0	9/22/23	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 CCR Catchup Sampling**  
Sample ID: AE69149 Sample Collection Date/Time: 09/20/2023 12:27  
Sample Received: 09/29/2023 Sample Collector: R E LEE

<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	8.49	0.05	feet		1		H2OD	9/20/23	RAMBOLL
Field Conductivity	393	0	umhos		1		FCOND25	9/20/23	RAMBOLL



Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-107 Weston Disposal Site #3 CCR Catchup Sampling**  
 Sample ID: AE69149 Sample Collection Date/Time: 09/20/2023 12:27  
 Sample Received: 09/29/2023 Sample Collector: R E LEE

<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	5.6	0.1	Units	0.1	1		FIELDPH	9/20/23	RAMBOLL
Field Temperature	12	0.1	Degrees C		1		TEMP	9/20/23	RAMBOLL
Total Calcium	49000	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	Less Than	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	10900	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	16.2	1.5	ug/L	5	1		EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	167	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	Less Than	11.6	ug/L	40	1		EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	1.2	0.065	mg/L	0.25	1		EPA 300.0	9/22/23	020

Sample Comments:

Sample Description: **QAQC1 Weston Disposal Site #3 CCR Catchup Sampling**  
 Sample ID: AE69150 Sample Collection Date/Time: 09/20/2023 00:00  
 Sample Received: 09/29/2023 Sample Collector: R E LEE

<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 Calcium	24300	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	Less Than	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	5780	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	1070	1.5	ug/L	5	1		EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	84.5	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	Less Than	11.6	ug/L	40	1		EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	Less Than	0.065	mg/L	0.25	1		EPA 300.0	9/22/23	020

Sample Comments:

Sample Description: **EB Weston Disposal Site #3 CCR Catchup Sampling**  
 Sample ID: AE69151 Sample Collection Date/Time: 09/20/2023 16:20  
 Sample Received: 09/29/2023 Sample Collector: R E LEE

<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 Calcium	Less Than	114	ug/L	500	1		EPA 200.7	9/25/23	020
Total Copper	Less Than	3.4	ug/L	10	1		EPA 200.7	9/25/23	020
Total Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	9/25/23	020
Total Manganese	Less Than	1.5	ug/L	5	1		EPA 200.7	9/25/23	020
Total Silver	Less Than	3.2	ug/L	10	1		EPA 200.7	9/25/23	020
Total Hardness as CaCO3	Less Than	1	mg/L	5.4	1		Std Mtd 2340B	9/25/23	020
Total Zinc	Less Than	11.6	ug/L	40	1		EPA 200.7	9/25/23	020
Nitrate-Nitrite as N	Less Than	0.065	mg/L	0.25	1		EPA 300.0	9/25/23	020

Report Date: Wednesday, January 24, 2024

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

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Sample Comments:

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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: Laboratory Services at (414) 221-4595.

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: **LS-100 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70114 Sample Collection Date/Time: 10/30/2023 12:03  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	8.61	0.05	feet		1		H2OD	10/30/23	R.E. LEE
Field Conductivity	181	0	umhos		1		FCOND25	10/30/23	R.E. LEE
Field pH	5.7	0.1	Units	0.1	1		FIELDPH	10/30/23	R.E. LEE
Field Temperature	11.5	0.1	Degrees t		1		TEMP	10/30/23	R.E. LEE
Dissolved Oxygen-Field	7.1	0.1	mg/l		1		FIELDDO	10/30/23	R.E. LEE
Turbidity	3.56	0.1	NTU'S		1		EPA 180.1	10/30/23	R.E. LEE
Redox Potential	227	1	mV		1		ASTM D1498-93	10/30/23	R.E. LEE
Total Dissolved Solids	120	8.7	mg/L	20	1		Std Mtd 2540 C	11/1/23	020
Total Boron	33.6	17.3	ug/L	40	1	J	EPA 200.7	11/3/23	020
Total Calcium	21300	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	3430	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	67.3	1	mg/L		1		Std Mtd 2340B	11/27/23	020
Dissolved Boron	32.6	17.3	ug/L	40	1	J	EPA 200.7	11/7/23	020
Dissolved Calcium	21700	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	3480	182	ug/L	1000	1		EPA 200.7	11/7/23	020
Dissolved Sodium	3800	350	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Potassium	1420	325	ug/L	1000	1		EPA 200.7	11/7/23	020
Total Hardness as CaCO3	68.6	1.0	mg/L	5.4	1		StdMtd 2340B	11/7/23	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/13/23	020
Total Chloride	2.3	0.59	mg/L	2.0	1		EPA 300.0	11/13/23	020
Total Sulfate	57.6	0.44	mg/L	2.0	1		EPA 300.0	11/13/23	020
Dissolved Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/14/23	020
Dissolved Chloride	2.3	0.59	mg/L	2.0	1		EPA 300.0	11/14/23	020
Dissolved Sulfate	55.5	0.44	mg/L	2.0	1		EPA 300.0	11/14/23	020
Total Alkalinity as CaCO3	13.9	5.0	mg/L	10.0	1		SM 2320 B-1997	11/13/23	020
Total Filtered Alkalinity as CaCO3	14.2	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Bicarbonate Ion	14.2	5.0	mg/L	10.0	1		HCO3	11/13/23	020

Sample Comments:

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70115 Sample Collection Date/Time: 10/30/2023 11:08  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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: Wednesday, January 24, 2024

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

Sample Description: **LS-101 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70115 Sample Collection Date/Time: 10/30/2023 11:08  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	11.05	0.05	feet		1		H2OD	10/30/23	R.E. LEE
Field Conductivity	44	0	umhos		1		FCOND25	10/30/23	R.E. LEE
Field pH	5.8	0.1	Units	0.1	1		FIELDPH	10/30/23	R.E. LEE
Field Temperature	10.3	0.1	Degrees C		1		TEMP	10/30/23	R.E. LEE
Dissolved Oxygen-Field	10.5	0.1	mg/l		1		FIELDDO	10/30/23	R.E. LEE
Turbidity	14.0	0.1	NTU'S		1		EPA 180.1	10/30/23	R.E. LEE
Redox Potential	212	1	mV		1		ASTM D1498-93	10/30/23	R.E. LEE
Total Dissolved Solids	50.0	8.7	mg/L	20	1		Std Mtd 2540 C	11/1/23	020
Total Boron	17.9	17.3	ug/L	40	1	J	EPA 200.7	11/3/23	020
Total Calcium	3650	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	1120	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	13.7	1.0	mg/L	5.4	1		Std Mtd 2340B	11/6/23	020
Dissolved Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	11/7/23	020
Dissolved Calcium	3500	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	930	182	ug/L	1000	1	J	EPA 200.7	11/7/23	020
Dissolved Sodium	2860	350	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Potassium	1160	325	ug/L	1000	1		EPA 200.7	11/7/23	020
Total Hardness as CaCO3	12.6	1.0	mg/L	5.4	1		StdMtd 2340B	11/7/23	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/13/23	020
Total Chloride	Less Than	0.59	mg/L	2.0	1		EPA 300.0	11/13/23	020
Total Sulfate	1.5	0.44	mg/L	2.0	1	J	EPA 300.0	11/13/23	020
Dissolved Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/14/23	020
Dissolved Chloride	0.60	0.59	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Dissolved Sulfate	1.6	0.44	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Total Alkalinity as CaCO3	14.5	5.0	mg/L	10.0	1		SM 2320 B-1997	11/13/23	020
Total Filtered Alkalinity as CaCO3	16.5	5	mg/l	10	1		Std Mtd 2320 B	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Bicarbonate Ion	16.5	5.0	mg/L	10.0	1		HCO3	11/13/23	020

Sample Comments:

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70116 Sample Collection Date/Time: 10/30/2023 12:52  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	4.56	0.05	feet		1		H2OD	10/30/23	R.E. LEE
Field Conductivity	212	0	umhos		1		FCOND25	10/30/23	R.E. LEE
Field pH	6.0	0.1	Units	0.1	1		FIELDPH	10/30/23	R.E. LEE
Field Temperature	10.8	0.1	Degrees C		1		TEMP	10/30/23	R.E. LEE
Dissolved Oxygen-Field	0.5	0.1	mg/l		1		FIELDDO	10/30/23	R.E. LEE
Turbidity	3.8	0.1	NTU'S		1		EPA 180.1	10/30/23	R.E. LEE
Redox Potential	4.2	1	mV		1		ASTM D1498-93	10/30/23	R.E. LEE
Total Dissolved Solids	124	8.7	mg/L	20	1		Std Mtd 2540 C	11/1/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-105 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70116 Sample Collection Date/Time: 10/30/2023 12:52  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	43.1	17.3	ug/L	40	1		EPA 200.7	11/3/23	020
Total Calcium	22600	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	5670	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	75	1	mg/L		1		Std Mtd 2340B	11/27/23	020
Dissolved Boron	41.0	17.3	ug/L	40	1		EPA 200.7	11/7/23	020
Dissolved Calcium	21500	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	5060	182	ug/L	1000	1		EPA 200.7	11/7/23	020
Dissolved Sodium	5280	350	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Potassium	1240	325	ug/L	1000	1		EPA 200.7	11/7/23	020
Total Hardness as CaCO3	74.5	1.0	mg/L	5.4	1		StdMtd 2340B	11/7/23	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5		EPA 300.0	11/13/23	020
Total Chloride	3.1	3.0	mg/L	10	5	J	EPA 300.0	11/13/23	020
Total Sulfate	28.9	2.2	mg/L	10.0	5		EPA 300.0	11/13/23	020
Dissolved Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/14/23	020
Dissolved Chloride	1.7	0.59	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Dissolved Sulfate	34.5	0.44	mg/L	2.0	1		EPA 300.0	11/14/23	020
Total Alkalinity as CaCO3	60.1	5.0	mg/L	10.0	1		SM 2320 B-1997	11/9/23	020
Total Filtered Alkalinity as CaCO3	65.1	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/12/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/12/23	020
Bicarbonate Ion	65.1	5.0	mg/L	10.0	1		HCO3	11/12/23	020

Sample Comments:

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70117 Sample Collection Date/Time: 10/30/2023 13:54  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	11.85	0.05	feet		1		H2OD	10/30/23	R.E. LEE
Field Conductivity	44	0	umhos		1		FCOND25	10/30/23	R.E. LEE
Field pH	6.2	0.1	Units	0.1	1		FIELDPH	10/30/23	R.E. LEE
Field Temperature	11.9	0.1	Degrees t		1		TEMP	10/30/23	R.E. LEE
Dissolved Oxygen-Field	7.3	0.1	mg/l		1		FIELDDO	10/30/23	R.E. LEE
Turbidity	42.6	0.1	NTU'S		1		EPA 180.1	10/30/23	R.E. LEE
Redox Potential	90	1	mV		1		ASTM D1498-93	10/30/23	R.E. LEE
Total Dissolved Solids	76.0	8.7	mg/L	20	1		Std Mtd 2540 C	11/1/23	020
Total Boron	38.2	17.3	ug/L	40	1	J	EPA 200.7	11/3/23	020
Total Calcium	3970	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	1930	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	17.9	1.0	mg/L	5.4	1		Std Mtd 2340B	11/27/23	020
Dissolved Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	11/7/23	020
Dissolved Calcium	3760	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	1140	182	ug/L	1000	1		EPA 200.7	11/7/23	020
Dissolved Sodium	1530	350	ug/L	500	1		EPA 200.7	11/7/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-106 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70117 Sample Collection Date/Time: 10/30/2023 13:54  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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 Potassium	776	325	ug/L	1000	1	J	EPA 200.7	11/7/23	020
Total Hardness as CaCO3	14.1	1.0	mg/L	5.4	1		StdMtd 2340B	11/7/23	020
Total Fluoride	Less Than	0.48	mg/L	1.6	5		EPA 300.0	11/13/23	020
Total Chloride	Less Than	3.0	mg/L	10.0	5		EPA 300.0	11/13/23	020
Total Sulfate	Less Than	2.2	mg/L	10	5		EPA 300.0	11/13/23	020
Dissolved Fluoride	0.11	0.095	mg/L	0.32	1	J	EPA 300.0	11/14/23	020
Dissolved Chloride	0.77	0.59	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Dissolved Sulfate	1.7	0.44	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Total Alkalinity as CaCO3	12.6	5.0	mg/L	10.0	1		SM 2320 B-1997	11/13/23	020
Total Filtered Alkalinity as CaCO3	12.4	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Bicarbonate Ion	12.4	5.0	mg/L	10.0	1		HCO3	11/13/23	020

Sample Comments:

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**  
 Sample ID: AE70118 Sample Collection Date/Time: 10/30/2023 09:27  
 Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	6.00	0.05	feet		1		H2OD	10/30/23	R.E. LEE
Field Conductivity	359	0	umhos		1		FCOND25	10/30/23	R.E. LEE
Field pH	5.7	0.1	Units	0.1	1		FIELDPH	10/30/23	R.E. LEE
Field Temperature	11.2	0.1	Degrees t		1		TEMP	10/30/23	R.E. LEE
Dissolved Oxygen-Field	1.5	0.1	mg/l		1		FIELDDO	10/30/23	R.E. LEE
Turbidity	2.8	0.1	NTU'S		1		EPA 180.1	10/30/23	R.E. LEE
Redox Potential	197	1	mV		1		ASTM D1498-93	10/30/23	R.E. LEE
Total Dissolved Solids	238	8.7	mg/L	20	1		Std Mtd 2540 C	11/1/23	020
Total Boron	38.5	17.3	ug/L	40	1	J	EPA 200.7	11/3/23	020
Total Calcium	40900	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	9240	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	140	1	mg/L		1		Std Mtd 2340B	11/3/23	020
Dissolved Boron	38.1	17.3	ug/L	40.0	1	J	EPA 200.7	11/7/23	020
Dissolved Calcium	40600	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	9040	182	ug/L	1000	1		EPA 200.7	11/7/23	020
Dissolved Sodium	10000	350	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Potassium	1900	325	ug/L	1000	1		EPA 200.7	11/7/23	020
Total Hardness as CaCO3	139	1.0	mg/L	5.4	1		StdMtd 2340B	11/7/23	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/13/23	020
Total Chloride	35.2	0.59	mg/L	2.0	1		EPA 300.0	11/13/23	020
Total Sulfate	72.0	2.2	mg/L	10	5		EPA 300.0	11/14/23	020
Dissolved Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/14/23	020
Dissolved Chloride	35.4	0.59	mg/L	2.0	1		EPA 300.0	11/14/23	020
Dissolved Sulfate	70.2	2.2	mg/L	10	5		EPA 300.0	11/14/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Description: **LS-107 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE70118 Sample Collection Date/Time: 10/30/2023 09:27  
Sample Received: 11/20/2023 Sample Collector: RE LEE

<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 Alkalinity as CaCO3	43.2	5.0	mg/L	10.0	1		SM 2320 B-1997	11/9/23	020
Total Filtered Alkalinity as CaCO3	42.6	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Bicarbonate Ion	42.6	5.0	mg/L	10.0	1		HCO3	11/13/23	020

Sample Comments:

Sample Description: **QC-3 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE70119 Sample Collection Date/Time: 10/30/2023 00:00  
Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	126	8.7	mg/L	20	1		Std Mtd 2540 C	11/2/23	020
Total Boron	35.0	17.3	ug/L	40	1	J	EPA 200.7	11/3/23	020
Total Calcium	21900	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	3620	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	69.7	1.0	mg/L	5.4	1		Std Mtd 2340B	11/3/23	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/13/23	020
Total Chloride	2.3	0.59	mg/L	2.0	1		EPA 300.0	11/13/23	020
Total Sulfate	57.0	0.44	mg/L	2.0	1		EPA 300.0	11/13/23	020
Total Alkalinity as CaCO3	14.0	5.0	mg/L	10.0	1		SM 2320 B-1997	11/13/23	020

Sample Comments:

Sample Description: **EB2 Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE70120 Sample Collection Date/Time: 10/30/2023 16:30  
Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	12.0	8.7	mg/L	20	1	J	Std Mtd 2540 C	11/2/23	020
Total Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	11/3/23	020
Total Calcium	Less Than	114	ug/L	500	1		EPA 200.7	11/3/23	020
Total Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	11/3/23	020
Total Hardness as CaCO3	Less Than	1.0	mg/L	5.4	1		Std Mtd 2340B	11/3/23	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/13/23	020
Total Chloride	Less Than	0.59	mg/L	2	1		EPA 300.0	11/13/23	020
Total Sulfate	Less Than	0.44	mg/L	2.0	1		EPA 300.0	11/13/23	020
Total Alkalinity as CaCO3	Less Than	5	mg/L	10	1		SM 2320 B-1997	11/9/23	020

Report Date: Wednesday, January 24, 2024

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

Sample Comments:

Sample Description: **LS-106 TURB Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE70121 Sample Collection Date/Time: 10/30/2023 13:54  
Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	44	8.7	mg/L	20	1		Std Mtd 2540 C	11/2/23	020
Dissolved Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	11/7/23	020
Dissolved Calcium	3700	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	1100	182	ug/L	1000	1		EPA 200.7	11/7/23	020
Dissolved Sodium	1580	350	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Potassium	689	325	ug/L	1000	1	J	EPA 200.7	11/7/23	020
Total Hardness as CaCO3	13.8	1.0	mg/L	5.4	1		StdMtd 2340B	11/7/23	020
Dissolved Fluoride	0.11	0.095	mg/L	0.32	1	J	EPA 300.0	11/14/23	020
Dissolved Chloride	0.77	0.59	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Dissolved Sulfate	1.7	0.44	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Total Filtered Alkalinity as CaCO3	12.1	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Bicarbonate Ion	12.1	5.0	mg/L	10.0	1		HCO3	11/13/23	020

Sample Comments:

Sample Description: **LS-101 TURB Weston Disposal Site #3 - Ash Landfill CCR Well**  
Sample ID: AE70122 Sample Collection Date/Time: 10/30/2023 11:08  
Sample Received: 11/20/2023 Sample Collector: RE LEE

<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	44	8.7	mg/L	20	1		Std Mtd 2540 C	11/2/23	020
Dissolved Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	11/7/23	020
Dissolved Calcium	3560	114	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Magnesium	964	182	ug/L	1000	1	J	EPA 200.7	11/7/23	020
Dissolved Sodium	2980	350	ug/L	500	1		EPA 200.7	11/7/23	020
Dissolved Potassium	1060	325	ug/L	1000	1		EPA 200.7	11/7/23	020
Total Hardness as CaCO3	12.9	1000	mg/L	5400	1		StdMtd 2340B	11/7/23	020
Dissolved Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/14/23	020
Dissolved Chloride	0.60	0.59	mg/L	2.0	1	J	EPA 300.0	11/14/23	020
Dissolved Sulfate	1.7	0.44	mg/L	2.0	1		EPA 300.0	11/14/23	020
Total Filtered Alkalinity as CaCO3	14.4	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Bicarbonate Ion	14.4	5.0	mg/L	10.0	1		HCO3	11/13/23	020

Sample Comments:



Report Date: Wednesday, January 24, 2024

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

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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: Laboratory Services at (414) 221-4595.

**APPENDIX D**

**2023 LEACHATE PIPE CLEANING  
AND INSPECTION REPORT  
[PER NR 506.20(3)(D)]**

# WESTON DISPOSAL SITE #3

LEACHATE LINE JETTING

JETTING FOR: RIVERVIEW CONSTRUCTION





3600 Kewaunee Rd. Green Bay, WI 54311  
920-863-3663

# CLEANING REPORT

DATE: 10/30/2023

OWNER: Wisconsin Public Service

LOCATION: Weston Disposal Site #3

CONTRACTOR: Riverview Construction

LEACHATE:  STORM:

MH	SECTION TO MH	PIPE SIZE (inch)	PIPE LENGTH (feet)	Easement Machine used?		REMARKS
				Y	N	
C202		6	700		X	Hose advances slowly
C201		6	400		X	Hose advances very slowly
C101		6	700		X	Hose stops
C102		6	700		X	Hose advances slowly
C103		6	400		X	Hose stops
C104		6	420		X	Hose advances slowly