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**Michigan Department of Environment, Great Lakes, and Energy**

Document type

**Landfill Inspection Report 2023**

Date

**February 2024**

# **COLDWATER ROAD LANDFILL - MID 005 356 860 LANDFILL INSPECTION REPORT**



Bright ideas. Sustainable change.

# **COLDWATER ROAD LANDFILL - MID 005 356 860 LANDFILL INSPECTION REPORT**

Project name **RACER Trust Coldwater Road Landfill**  
Project no. **15388/1940103462**  
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Document type **Annual Report**  
Version **1**  
Date **February 28, 2024**  
Prepared by **Kevin Schneider**  
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Approved by **Clifford Yantz**  
Description **Landfill Inspection Annual Report**

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## 1. INTRODUCTION

On behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), Ramboll Americas Engineering Solutions, Inc. (Ramboll), is presenting this annual Landfill Inspection Report summarizing the 2023 Quarterly Post Closure Inspections at the hazardous waste landfill for the Coldwater Road Landfill (Site) in Flint, Michigan.

A request to change the frequency of site/landfill cap inspections from quarterly to occur on a semi-annual basis was submitted to the Department of Environment, Great Lakes, and Energy (EGLE) in the 2<sup>nd</sup> Quaterly Status Report, dated July 14, 2023, and was approved by EGLE in a response letter dated January 24, 2024. The updated inspection frequency will be implemented in 2024.

Each quarterly inspection event in 2023 consisted of the following activities:

- A visual inspection of the landfill cap and berms
- A visual inspection of the leachate accumulation above ground storage tank (AST)
- A visual inspection of the site access roads
- A visual inspection of the site perimeter fencing and gates
- An inspection of the leachate collection system
- Testing of the leachate detection alarm system
- A summary of the monthly removal of liquids from the leak detection vaults
- A visual inspection of site drainage structures.

A summary of the inspections is outlined in the following sections and copies of the quarterly inspection reports are included as **Appendix A**. A Site Location Map (**Figure 1**), and a 2023 Incident Location Map (**Figure 2**) are also included.

## 2. INSPECTION FINDINGS

The below sections summarize the findings and repairs made during the 2023 quarterly inspections.

### 2.1 Cap and Landfill Berms

The cap and surrounding landfill berms were visually inspected each quarter for deep root penetration, burrowing animals, soil erosion, slope failures, and ponding water, including within the ditch and/or washouts.

On November 2, 2022, EGLE staff conducted an inspection of the landfill cap. Based on the inspection, EGLE recommended that the landfill cap cover be maintained at a height that would not hinder inspections of the landfill cap. This was due to the tall shallow rooted weeds covering a portion of the southern area. To comply with EGLE's recommendation, the landfill cap was mowed on May 11, 2023.

Several hundred woody-stemmed plants were removed from the landfill cap during the 3<sup>rd</sup> and 4<sup>th</sup> quarters once growth was observed following the mowing activities.

A small area of bare vegetation was observed along the western slope of Cell E during the 2<sup>nd</sup> quarterly inspection. The area had filled in during the growing season and was no longer visible during subsequent inspections.

One potentially active animal burrow was observed on September 29, 2023 and a trap was set the same day. The animal burrow was found to be active, as an animal was trapped. The animal burrow was closed out on November 20, 2023. The burrow was filled using methods approved by EGLE, which included measuring the approximate length (4+ feet), depth (1 foot), and diameter (6 inches) and recording the location.

Once the burrow was filled in, the area was raked smooth and grass seed was spread. No signs of liner damage were observed during the inspection and repair of the animal burrow. A log of burrow activity throughout the year is maintained at the landfill. The log contains information on the date that a burrow was identified, response activities, and the date the burrow was filled and seeded. A photo log and figure containing the location of the burrow was also included in the 4<sup>th</sup> Quarter Status Report. The location of the animal burrow can be found on **Figure 2** in this report. Animal activity will continue to be addressed during future landfill cap maintenance.

### 2.2 Leachate Collection AST

The 15,000-gallon leachate accumulation AST is located in the containment/control building. An inspection of this AST system (tank, piping, containment) is completed and documented during each site visit by Ramboll and during quarterly inspections in accordance with the post-closure care plan (PCCP). No evidence of leakage was observed within the AST secondary containment area or the associated piping.

### **2.3 Access Roads**

The landfill access and perimeter roads were inspected for sufficient gravel and proper drainage during the quarterly inspections.

During the 1<sup>st</sup> quarter inspection, the access road north, south, and east of the ponds had areas of ponded water but remained passable. Throughout the access roads there are areas of shallow rutting and areas with minimal gravel. The shallow rutting and lack of gravel do not affect travel around the Site and will be addressed if the road surfaces deteriorate significantly.

No other problems to the access roads were observed during 2023.

### **2.4 Site Perimeter Fencing and Gates**

Openings in the perimeter fence were repaired during the 1<sup>st</sup> quarter through the 4<sup>th</sup> quarter of 2023.

During the 1<sup>st</sup> quarter, 2<sup>nd</sup> quarter, and 3<sup>rd</sup> quarter, a hole in the fence west of the landfill cap north of Chrysler Street was repaired. A hole in the perimeter fence northeast of the landfill cap was observed during the 2<sup>nd</sup> quarter inspection and repaired during the 4<sup>th</sup> quarter 2023. See **Figure 2** for the location of the fence repairs completed during the entire year.

### **2.5 Leachate Collection System**

The telemetry for the sump and tank alarms was changed to a new cellular system offered by AT&T on October 6, 2023.

The leachate collection system was inspected quarterly for visible signs of damage. System components inspected include the control panels for the sumps and the leak detection vaults, as well as the visible portions of the vault piping. No evidence of damage was observed for the aboveground components of the system. Additionally, no signs of erosion/washouts were noticed in the areas around the control panels and posts.

### **2.6 Leachate Detection Alarm System**

The PermAlert automated leak detection alarm was tested during each quarterly inspection. The alarm was found to be operating during each of the quarterly inspections.

### **2.7 Vault Liquid Removal**

The leak detection vaults were pumped out monthly as needed during the year. Per the PCCP, which was revised and approved on January 24, 2017, dewatering can occur on an every other month basis unless more than 300 gallons of liquid were removed from a vault during a dewatering event. If more than 300 gallons were removed from a vault, then that vault was dewatered the following month and continued to be dewatered on a monthly basis until less than 150 gallons were removed during a single dewatering event, after which dewatering for that vault reverts back to every other month. If three or more vaults had more than 300 gallons removed during a dewatering event, then the next monthly dewatering event included all the vaults. The volumes of liquid evacuated from each cell are provided in **Table 1** and were reported in the Quarterly Status Reports.

In accordance with EGLE's January 24, 2024 letter, the current vault dewatering schedule, as stated above, will continue for Vaults B and E. However, due to the reduced volumes of water produced in Vaults A, C, D, and F, the vault dewatering frequency for Vaults A, C, D, and F will be quarterly beginning in 2024.

## **2.8 Drainage Inspection**

The perimeter of the landfill and berm, drainage swales at the base of the landfill, the Remaining Materials Area (RMA, **Figure 2**), and the pond area were inspected during each of the quarterly inspections for potential drainage problems. No drainage issues associated with the operation of the landfill were observed.

### 3. SUMMARY

This summary of the quarterly inspections fulfills the annual inspection reporting requirements for 2023. The first semi-annual 2024 site inspection will be conducted in April 2024. If you have any questions, feel free to contact me at (313) 333-0211.

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#### **Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

On Behalf of RACER Trust



Clifford S. Yantz  
Managing Hydrogeologist – Ramboll Americas Engineering Solutions, Inc.  
Agent for RACER Trust

Date: February 28, 2024

cc: file

## **TABLES**



**TABLE 1**  
**RACER Trust - Coldwater Road**  
**Liquid Volumes Removed from Leak Detection Vaults in 2023**

Date 2023	VAULT A	VAULT B	VAULT C	VAULT D	VAULT E	VAULT F	VAULT MONTHLY TOTALS	SUMP MONTHLY TOTALS
2023-JAN-19	49	39	36	3	--	--	127	1
2023-FEB-14	--	--	--	--	--	--	--	372
2023-MAR-15	79*	1,098*	31*	81*	226*	4*	1,519	608
2023-APR-21	--	--	--	--	375	--	375	102
2023-MAY-11	102*	936*	29*	80*	311	--	1,458	0
2023-JUN-28	71	164	34	124	393	2*	788	1,701
2023-JUL-14	--	--	--	126	--	--	126	196
2023-AUG-17	99*	144*	103*	130	226*	2*	704	733
2023-SEP	--	--	--	--	--	--	--	1,885
2023-OCT-18	272*	552*	247*	80*	1,084*	85*	2,320	274
2023-NOV-20	--	406	--	--	693	--	1,099	886
2023-DEC-20	260*	509	38*	103*	591	340*	1,841	584
<b>YEAR END TOTAL</b>	<b>932</b>	<b>3,848</b>	<b>518</b>	<b>601</b>	<b>4,025</b>	<b>433</b>	<b>10,357</b>	<b>7,342</b>

**Notes**

Liquid volumes in gallons

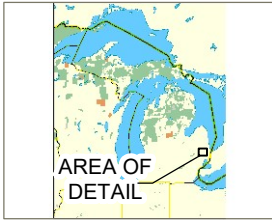
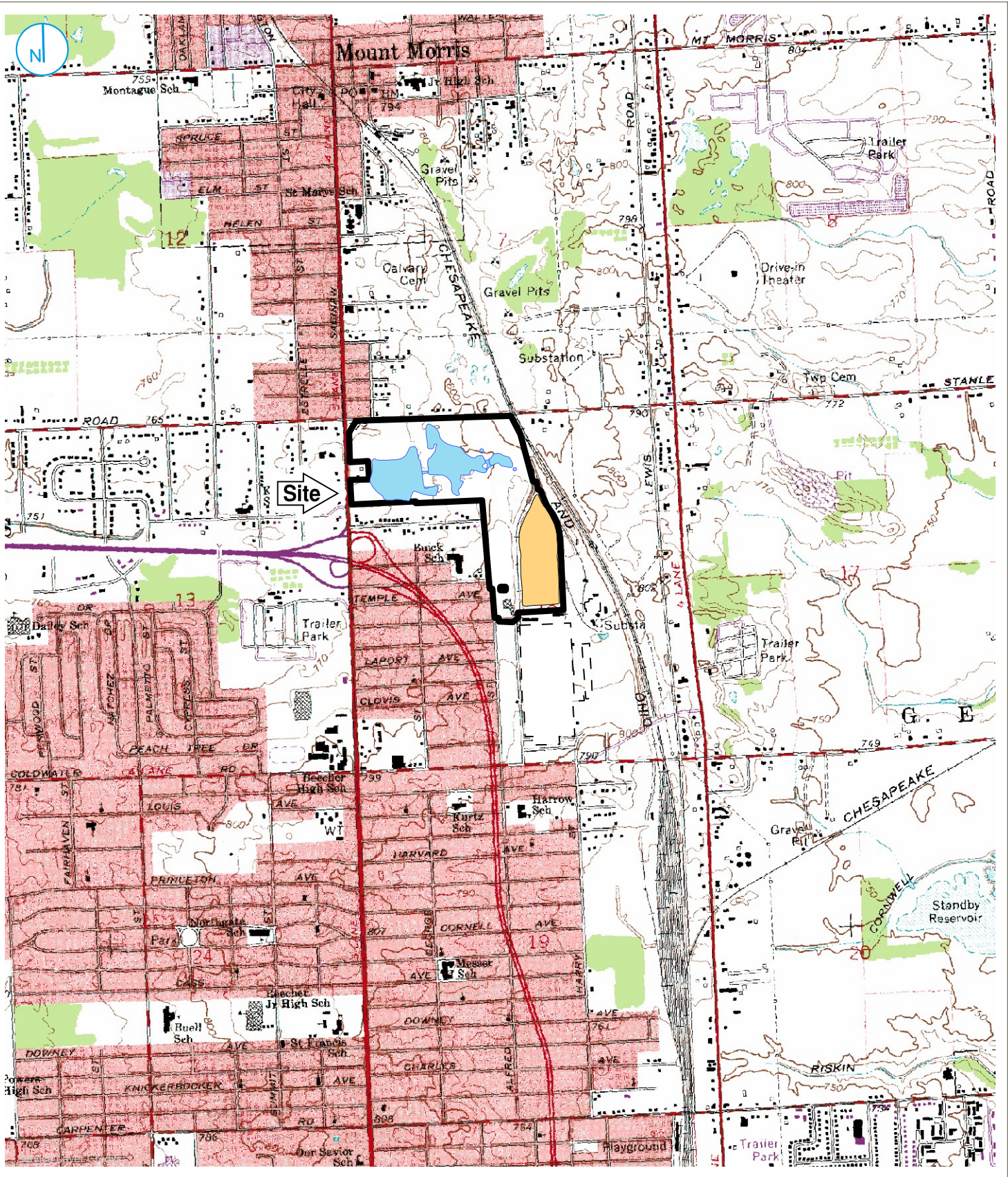
LDS - Leak Detection System

-- Vault not dewatered

\* Indicates 2 or 3 month totals

Pre the revised Post Closure Care Plan October 2014, dewatering occurred on an every other month basis unless more than 300 gallons of liquid were removed from a vault during a dewatering event. If more than 300 gallons were removed from a vault, then that vault was dewatered the following month and continued to be dewatered on a monthly basis until less than 150 gallons were removed during a single dewatering event, after which dewatering for that vault reverted back to every other month. If three or more vaults had more than 300 gallons removed during a dewatering event, then the next monthly dewatering event included all the vaults.

## **FIGURES**



- Wetlands
- Site Buildings
- Landfill-poly
- Former Powerhouse
- Former Plant
- Landfill Property

**SITE LOCATION**

**FIGURE 01**

Map Scale: 1:1,24,000;  
 Map Center: 83°41'9"W 43°5'51"N

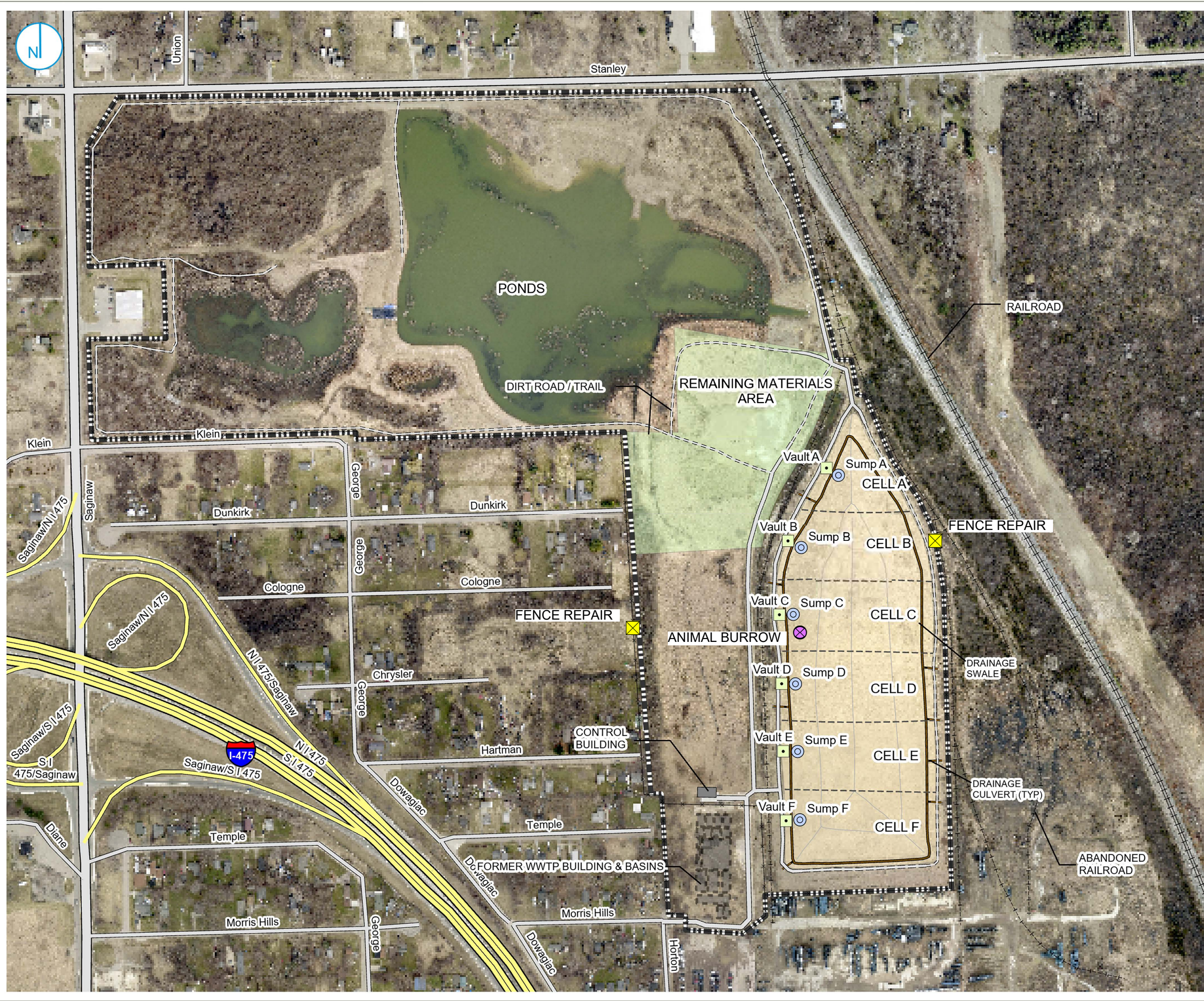
0 1,000 2,000 Feet

**RACER TRUST**  
 Coldwater Road Landfill  
 Flint, Michigan

A RAMBOLL COMPANY



PROJECT: 1940103462 | DATED: 2/7/2023 | DESIGNER: MONETANT  
I:\Racer-Trust\1088190\GIS\Coldwater\_Road\ProRACER\_Coldwater\_Road\_2022\_Annual\_LDS\_and\_GW\_Figures.aprx\002 - Site\_Layout 2022 SA Rpts (LDS-Rpt)\_02032023



- ⊙ LEACHATE COLLECTION SUMP
- ACCESS PORT FOR LEAK DETECTION VAULT
- ▬ PROPERTY BOUNDARY
- ✕ FENCE REPAIR
- ⊗ ANIMAL BURROW



### 2023 INCIDENT LOCATION MAP

**RACER Trust**  
Coldwater Road Landfill Facility  
Flint, Michigan

**FIGURE 02**

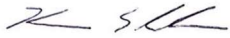
RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.  
A RAMBOLL COMPANY



**APPENDIX A**  
**QUARTERLY INSPECTION LOGS**

**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940103462**

**Inspector’s Name/Title:** Kevin Schneider

**Inspector’s Signature/Date/Time:**  March 15, 2023 and March 23, 2023

**Cap and Berm**

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken	Date Corrected
Cell A	No	No	No	No	No	No		
Cell B	No	No	No	No	No	No		
Cell C	No	No	No	No	No	No		
Cell D	No	No	No	No	No	No		
Cell E	No	No	No	No	No	No		
Cell F	No	No	No	No	No	No		
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: Will address any woody plants during the growing season.

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**Leachate Tank Storage**

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

**Tank**

- Cracks or holes observed in tank? No  Yes \_\_\_
- Liquid dripping or running from tank? No  Yes \_\_\_
- Staining observed on the tank surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Piping**

- Is piping sagging, cracked or punctured? No  Yes \_\_\_
- Liquid dripping or running from piping? No  Yes \_\_\_
- Is the tank discharge valve open? No  Yes \_\_\_
- Staining observed on the piping surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Emergency Response**

- Are drums present in accumulation building? No \_\_\_ Yes
- Are sandbags present in accumulation building? No \_\_\_ Yes
- Are shovels present in accumulation building? No \_\_\_ Yes

If no to any, describe issue, location, and actions taken	Date Corrected

**Vegetation**

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Do areas around building and equipment need to be mowed?	Do access roads need to be mowed?	If yes, describe issue, and actions taken	Date Corrected
A	No	Noted on drawing	Yes	Yes	Plan to mow landfill cap and access roads during 2 <sup>nd</sup> quarter.	
B	No	Noted on drawing	Yes	Yes		
C	No	Noted on drawing	Yes	Yes		
D	No	Noted on drawing	Yes	Yes		
E	No	Noted on drawing	Yes	Yes		
F	No	Noted on drawing	Yes	Yes		
Berms	No	Noted on drawing	Yes	Yes		

**Access Roads**

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe issue, and actions taken	Date Corrected
Roads located approx. west of landfill	Some areas there are spare gravel	Yes		
Roads located approx. east of landfill	Some areas there are spare gravel	Yes		
Roads located approx. north of wetlands	Yes	Yes, area of ponded water.	No action required at this time.	
Roads located approx. south of wetlands	Yes	Yes, area of ponded water.	No action required at this time.	
Roads located approx. west of wetlands	Yes	Yes		
Roads located approx. east of wetlands	Some areas there are spare gravel	Yes, area of ponded water.	No action required at this time.	

**Site Perimeter Fence**

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	“Trespassing Prohibited” and “Private Property” Signs Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	No		
Fences along south property line	No	No	No	No		
Fences along west property line	Yes	No	No	No	Holes in fence. See figure.	Repaired during inspection.
Fences along east property line	No	No	No	No		

**Leachate Collection System**

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

**Alarm Test**

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

**Cable Test**

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?
			No

**Battery Test**

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

Describe any issues and actions taken	Date Corrected

**Remaining Materials Area**

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken	Date Corrected
RMA	No	Yes, in road by rain	No	No	No	Shallow erosion gully across road due to rain. No action required at this time.	

### **Drainage Inspections**

Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions	Date Corrected
Perimeter of landfill and berm	None, some ponding on trail				
Drainage trenches at base of landfill	None				
RMA	None	In road	Shallow gully due to rain	No action required at this time.	
Wetlands area	None				
Culverts around landfill	None				
Western drainage swale	None				
North landfill catch basin	None				

1st Qrt 2023

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PLOT DATE: 2/6/2012 8:44



FIGURE 1

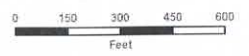


**LEGEND**

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT

RACER TRUST  
COLDWATER ROAD  
LANDFILL FACILITY  
FLINT, MICHIGAN

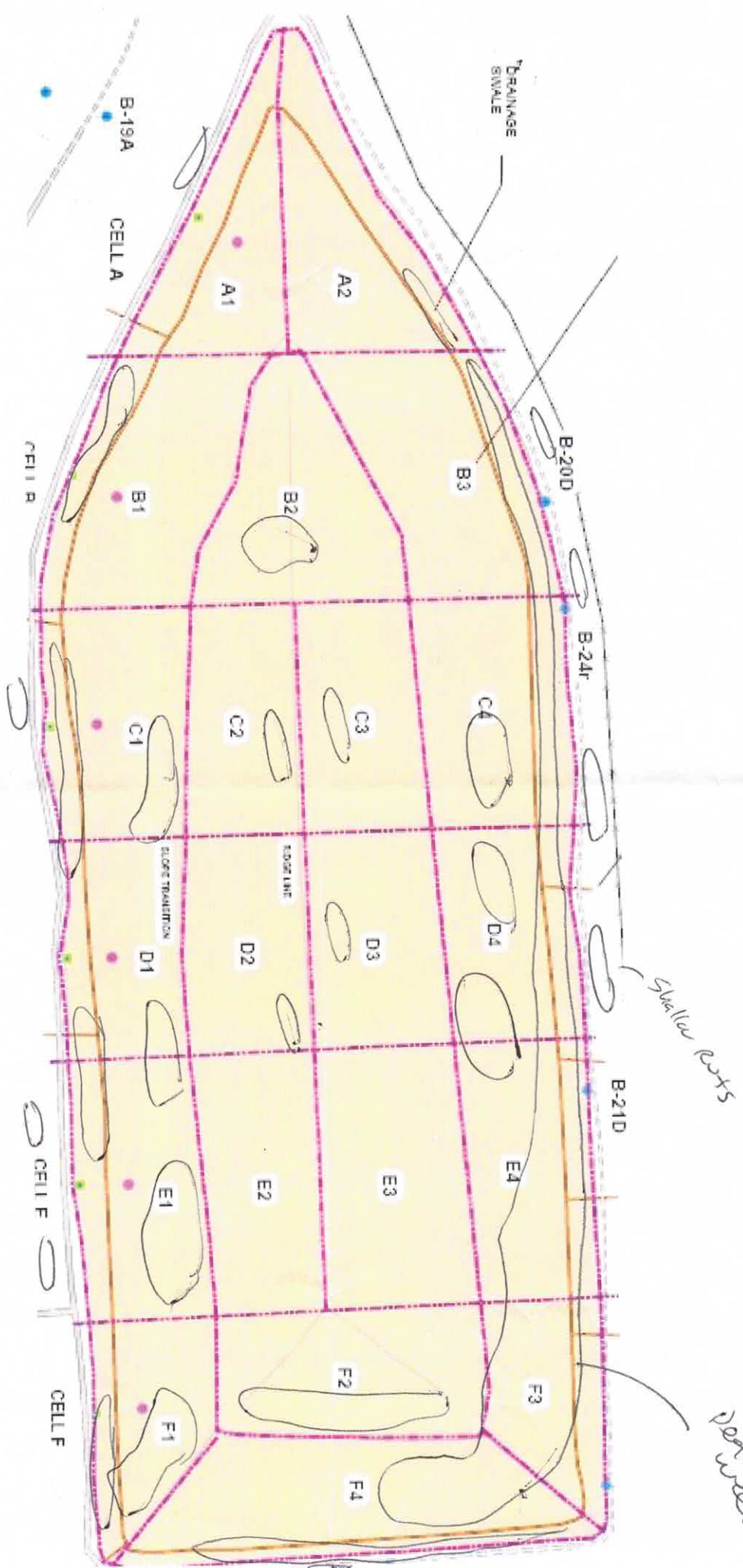
**SITE LAYOUT**



FEBRUARY 2021



MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

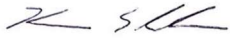


15x 21x 2000

Dead tall weeds

**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940103462**

**Inspector’s Name/Title:** Kevin Schneider

**Inspector’s Signature/Date/Time:**  June 26, 2023 and June 28, 2023

**Cap and Berm**

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken	Date Corrected
Cell A	No	No	No	No	No	No		
Cell B	No	No	No	No	No	No		
Cell C	No	No	No	No	No	No		
Cell D	No	No	No	No	No	No	Few mole mounds observed at Cell D1. No action required at this time.	
Cell E	No	No	No	No	No	No	Small are of spare vegetation at Cell E1. No action required at this time.	
Cell F	No	No	No	No	No	No		
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: Landfill cap mowed down on May 11, 2023.

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**Leachate Tank Storage**

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

**Tank**

- Cracks or holes observed in tank? No  Yes \_\_\_
- Liquid dripping or running from tank? No  Yes \_\_\_
- Staining observed on the tank surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Piping**

- Is piping sagging, cracked or punctured? No  Yes \_\_\_
- Liquid dripping or running from piping? No  Yes \_\_\_
- Is the tank discharge valve open? No  Yes \_\_\_
- Staining observed on the piping surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Emergency Response**

- Are drums present in accumulation building? No \_\_\_ Yes
- Are sandbags present in accumulation building? No \_\_\_ Yes
- Are shovels present in accumulation building? No \_\_\_ Yes

If no to any, describe issue, location, and actions taken	Date Corrected

**Vegetation**

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Do areas around building and equipment need to be mowed?	Do access roads need to be mowed?	If yes, describe issue, and actions taken	Date Corrected
A	No	No	Yes	Yes	Landfill cap mowed working with contractor to mow access roads.	
B	No	No	Yes	Yes		
C	No	No	Yes	Yes		
D	No	No	Yes	Yes		
E	No	No	Yes	Yes		
F	No	No	Yes	Yes		
Berms	No	No	Yes	Yes		

**Access Roads**

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe issue, and actions taken	Date Corrected
Roads located approx. west of landfill	Some areas there are spare gravel	Yes	No action required at this time.	
Roads located approx. east of landfill	Some areas there are spare gravel	Yes	No action required at this time.	
Roads located approx. north of wetlands	Yes	Yes		
Roads located approx. south of wetlands	Yes	Yes		
Roads located approx. west of wetlands	Yes	Yes		
Roads located approx. east of wetlands	Some areas there are spare gravel	Yes	No action required at this time.	

**Site Perimeter Fence**

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	“Trespassing Prohibited” and “Private Property” Signs Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	No		
Fences along south property line	No	No	No	No		
Fences along west property line	Yes	No	No	No	Hole in fence. See figure.	Repaired during inspection.
Fences along east property line	Yes	No	No	No	Hole in fence. See figure.	Repaired on October 4, 2023

**Leachate Collection System**

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

**Alarm Test**

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

**Cable Test**

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?
			No

**Battery Test**

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

Describe any issues and actions taken	Date Corrected

**Remaining Materials Area**

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken	Date Corrected
RMA	No	Yes, in road by rain	No	No	No	Shallow erosion gully across road due to rain. No action required at this time.	

### **Drainage Inspections**



Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions	Date Corrected
Perimeter of landfill and berm	None				
Drainage trenches at base of landfill	None				
RMA	None	In road	Shallow gully due to rain	No action required at this time.	
Wetlands area	None				
Culverts around landfill	None		Few culverts have vegetation in them.	No action required at this time. Vegetation in culverts does not prohibit drainage.	
Western drainage swale	None				
North landfill catch basin	None				

2nd Qtr 2021

FIGURE 1



- LEGEND**
-  LEACHATE COLLECTION SUMP
  -  ACCESS PORT FOR LEAK DETECTION VAULT

RACER TRUST  
COLDWATER ROAD  
LANDFILL FACILITY  
FLINT, MICHIGAN

**SITE LAYOUT**



FEBRUARY 2021

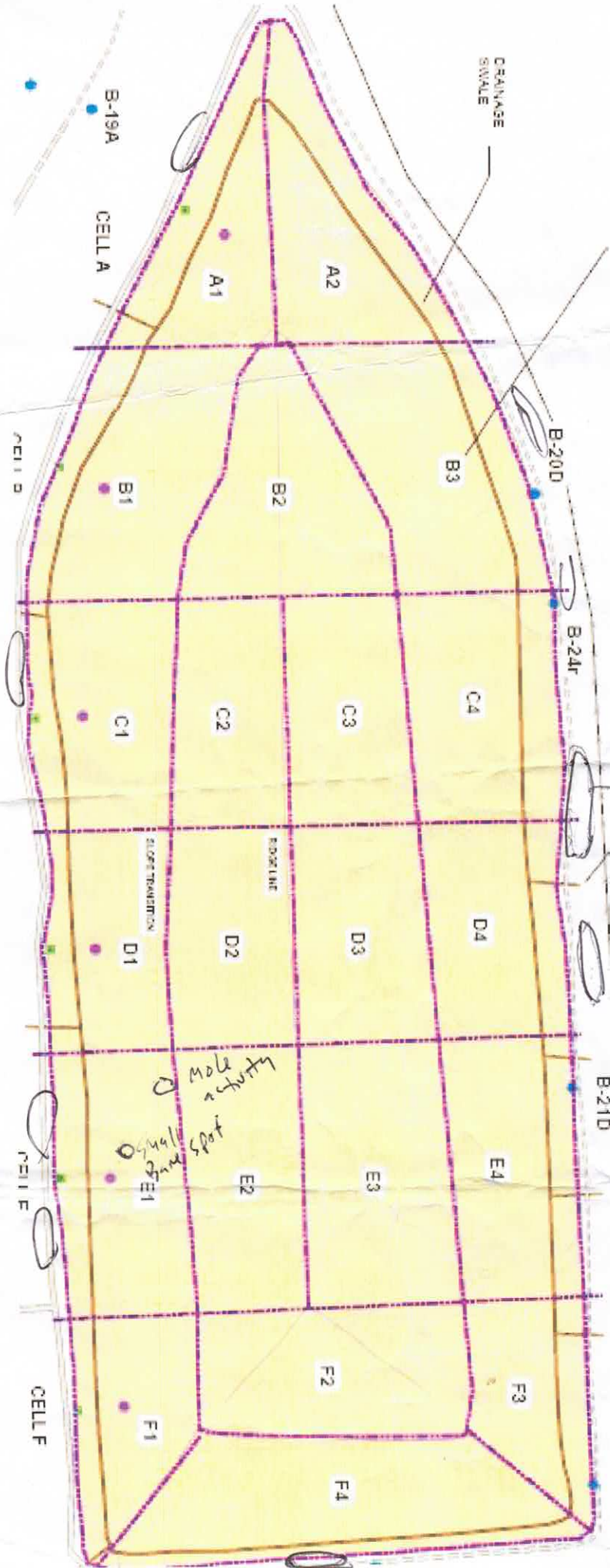


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PLOT DATE: 2/8/2021.kns

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION





Glass on Cap moved

Shallow Ruts

Per Oct 2025

Mole activity  
Mole hole

**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940103462**

**Inspector’s Name/Title:** Kevin Schneider

**Inspector’s Signature/Date/Time:**  September 29, 2023.

**Cap and Berm**

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken	Date Corrected
Cell A	No	No	No	No	No	No		
Cell B	No	No	No	No	No	No		
Cell C	No	No	No	No	No	No	Animal burrow located at Cell C1. Set up trap. Burrow closed out on 11/20/23. Trapped raccoon.	11/20/23
Cell D	No	No	No	No	No	No		
Cell E	No	No	No	No	No	No		
Cell F	No	No	No	No	No	No		
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: Woody plants removal was performed during inspection.

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**Leachate Tank Storage**

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

**Tank**

- Cracks or holes observed in tank? No  Yes \_\_\_
- Liquid dripping or running from tank? No  Yes \_\_\_
- Staining observed on the tank surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Piping**

- Is piping sagging, cracked or punctured? No  Yes \_\_\_
- Liquid dripping or running from piping? No  Yes \_\_\_
- Is the tank discharge valve open? No  Yes \_\_\_
- Staining observed on the piping surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Emergency Response**

- Are drums present in accumulation building? No \_\_\_ Yes
- Are sandbags present in accumulation building? No \_\_\_ Yes
- Are shovels present in accumulation building? No \_\_\_ Yes

If no to any, describe issue, location, and actions taken	Date Corrected

**Vegetation**

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Do areas around building and equipment need to be mowed?	Do access roads need to be mowed?	If yes, describe issue, and actions taken	Date Corrected
A	No	Noted on drawing	No	No	Access roads and around building mowed on August 1, 2023	8/1/23
B	No	Noted on drawing	No	No		
C	No	Noted on drawing	No	No		
D	No	Noted on drawing	No	No		
E	No	Noted on drawing	No	No		
F	No	Noted on drawing	No	No		
Berms	No	Noted on drawing	No	No		

**Access Roads**

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe issue, and actions taken	Date Corrected
Roads located approx. west of landfill	Some areas there are spare gravel	Yes	No action required at this time.	
Roads located approx. east of landfill	Some areas there are spare gravel	Yes	No action required at this time.	
Roads located approx. north of wetlands	Yes	Yes		
Roads located approx. south of wetlands	Yes	Yes		
Roads located approx. west of wetlands	Yes	Yes		
Roads located approx. east of wetlands	Some areas there are spare gravel	Yes	No action required at this time.	

**Site Perimeter Fence**

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	“Trespassing Prohibited” and “Private Property” Signs Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	No		
Fences along south property line	No	No	No	No		
Fences along west property line	No	No	No	No		
Fences along east property line	Yes	No	No	No	Hole in fence. See figure.	Repaired on 10/4/23

**Leachate Collection System**

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

**Alarm Test**

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

**Cable Test**

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?
			No

**Battery Test**

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

Describe any issues and actions taken	Date Corrected

**Remaining Materials Area**

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken	Date Corrected
RMA	No	Yes, in road by rain	No	No	No	Shallow erosion gully across road due to rain. No action required at this time.	

### **Drainage Inspections**

Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions	Date Corrected
Perimeter of landfill and berm	None				
Drainage trenches at base of landfill	None				
RMA	None	In road	Shallow gully due to rain	No action required at this time.	
Wetlands area	None				
Culverts around landfill	None		Few culverts have vegetation in them.	No action required at this time. Vegetation in culverts does not prohibit drainage.	
Western drainage swale	None				
North landfill catch basin	None				

3rd Qtr 2022

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PLOT DATE: 2/6/2012 10:59



FIGURE 1



- LEGEND**
- LEACHATE COLLECTION SUMP
  - ACCESS PORT FOR LEAK DETECTION VAULT

*Note 1 - fence*

RACER TRUST  
COLDWATER ROAD  
LANDFILL FACILITY  
FLINT, MICHIGAN

**SITE LAYOUT**

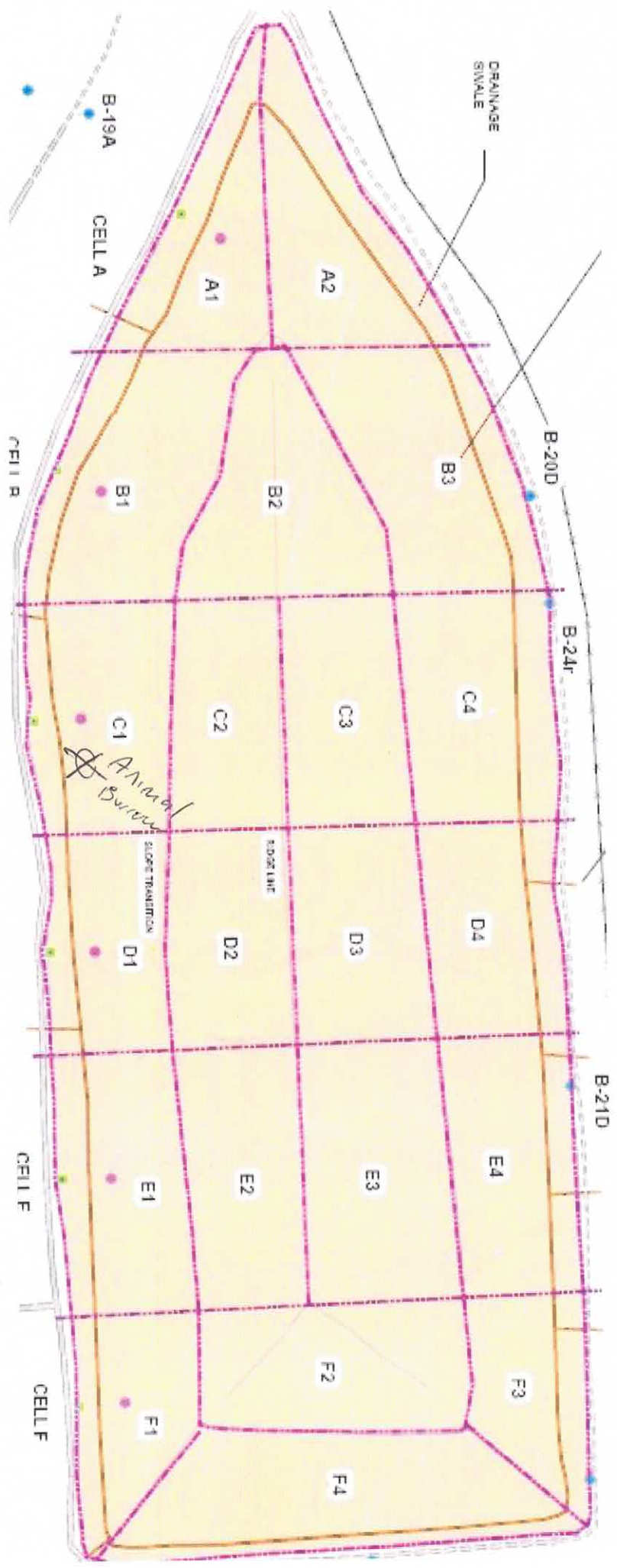


FEBRUARY 2021



MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

6m45 moved on cell  
and access roads



30 Q14 2023

**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940103462**

**Inspector’s Name/Title:** Kevin Schneider

**Inspector’s Signature/Date/Time:**  December 18, 2023 and December 19, 2023.

**Cap and Berm**

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken	Date Corrected
Cell A	No	No	No	No	No	No		
Cell B	No	No	No	No	No	No		
Cell C	No	No	No	No	No	No		
Cell D	No	No	No	No	No	No		
Cell E	No	No	No	No	No	No		
Cell F	No	No	No	No	No	No		
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: Several woody plants (coniferous type) observed during inspection.

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**Leachate Tank Storage**

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

**Tank**

- Cracks or holes observed in tank? No  Yes \_\_\_
- Liquid dripping or running from tank? No  Yes \_\_\_
- Staining observed on the tank surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Piping**

- Is piping sagging, cracked or punctured? No  Yes \_\_\_
- Liquid dripping or running from piping? No  Yes \_\_\_
- Is the tank discharge valve open? No  Yes \_\_\_
- Staining observed on the piping surface? No  Yes \_\_\_

If yes to any, describe issue, location, and actions taken	Date Corrected

**Emergency Response**

- Are drums present in accumulation building? No \_\_\_ Yes
- Are sandbags present in accumulation building? No \_\_\_ Yes
- Are shovels present in accumulation building? No \_\_\_ Yes

If no to any, describe issue, location, and actions taken	Date Corrected

**Vegetation**

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

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E	No	Noted on drawing	No	No		
F	No	Noted on drawing	No	No		
Berms	No	Noted on drawing	No	No		

**Access Roads**

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe issue, and actions taken	Date Corrected
Roads located approx. west of landfill	Some areas there are spare gravel	Yes	No action required at this time.	
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Roads located approx. south of wetlands	Yes	Yes		
Roads located approx. west of wetlands	Yes	Yes		
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**Site Perimeter Fence**

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	“Trespassing Prohibited” and “Private Property” Signs Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	No		
Fences along south property line	No	No	No	No		
Fences along west property line	Yes	No	No	No	Previous hole reopened. Limbs down on fence.	Repaired during inspection.
Fences along east property line	No	No	No	No		

**Leachate Collection System**

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

**Alarm Test**

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

**Cable Test**

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2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?
			No

**Battery Test**

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

Describe any issues and actions taken	Date Corrected

**Remaining Materials Area**

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

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### **Drainage Inspections**

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Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions	Date Corrected
Perimeter of landfill and berm	None				
Drainage trenches at base of landfill	None				
RMA	None	In road	Shallow gully due to rain	No action required at this time.	
Wetlands area	None				
Culverts around landfill	None				
Western drainage swale	None				
North landfill catch basin	None				

4th 07 2023

1078 PROJECTS\M\C 15388\750\DCS\REPORTS\INSPECTION SECURITY REPORT\008.MXD

PLOT DATE: 2/6/2012.Rbs





MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

FIGURE 1

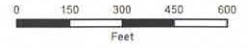


**LEGEND**

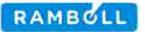
-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT

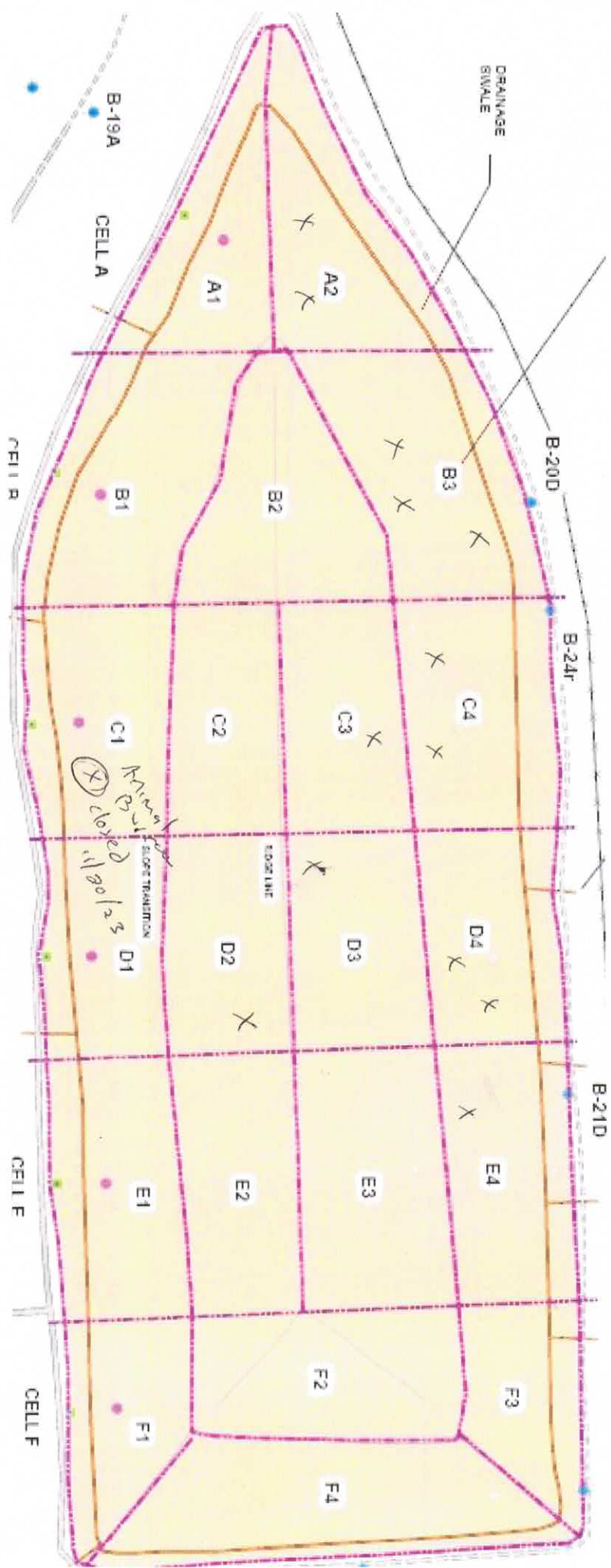
RACER TRUST  
COLDWATER ROAD  
LANDFILL FACILITY  
FLINT, MICHIGAN

**SITE LAYOUT**



FEBRUARY 2021





47m Oct 2013