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**Landfill Inspection Report 2022**

Date

**February 2023**

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



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

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Approved by **Clifford Yantz**  
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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 2022 Quarterly Post Closure Inspections at the hazardous waste landfill for the Coldwater Road Landfill (Site) in Flint, Michigan.

Each quarterly inspection event 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**), a Site Layout (**Figure 2**), and a 2022 Incident Location Map (**Figure 3**) are also included.

## 2. INSPECTION FINDINGS

The below sections summarize the findings and repairs made during the 2022 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.

Several hundred woody-stemmed plants were removed from the landfill cap between March 2022 and September 2022.

Small areas of bare vegetation were observed along the western slope of Cell B, Cell C, and Cell F during the 1<sup>st</sup> quarterly inspection. These areas had filled in during the start of the growing season and were no longer visible during the 2<sup>nd</sup> quarterly inspection.

One potentially active animal burrow was observed on March 25, 2022 and a trap was set on March 31, 2022. The animal burrow was found to not be active and was closed out on May 19, 2022. The burrow was filled using methods approved by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), which included measuring the approximate length (1.5 feet), depth (3 inches), and diameter (4 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 2<sup>nd</sup> Quarter Status Report. The location of the animal burrow can be found on [Figure 3](#) in this report. Animal activity will continue to be addressed during future landfill cap maintenance.

Tall shallow rooted weeds covered a portion of the southern area of the landfill cap during 2022. The weeds roots were not deep penetrating; although they did make navigating the areas where they are located more difficult. If the weeds do not get pushed down over the winter months due to snow cover and decompose during the spring, the areas with the tall weeds will be mowed down during the first 2023 Site-wide mowing event.

### 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, east, and west 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 roads become impassable.

No other problems to the access roads were observed during 2022.

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

Openings in the perimeter fence were repaired during the 2<sup>nd</sup> quarter through the 4<sup>th</sup> quarter of 2022.

During the 2<sup>nd</sup> quarter and 3<sup>rd</sup> quarter, holes in the fence were repaired west of the landfill cap north of Chrysler Street, west of landfill cap south of Dunkrik Road, along the western property boundary, and southeast of the landfill cap. A new section of fence was also installed north of the landfill cap to replace fence that was removed during the berm construction. At the request of EGLE a photo log and figure of the repairs was shared via email on July 22, 2022.

During the 4<sup>th</sup> quarter, holes in the fence were repaired along the western property boundary and along the southern portion of the western arm of Site. See [Figure 3](#) for the location of the fence repairs completed during the entire year.

#### **2.5 Leachate Collection System**

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 if 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.

#### **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 for potential drainage problems.

No drainage issues associated with the operation of the landfill were observed during the quarterly inspections for 2022.

### 3. SUMMARY

This summary of the quarterly inspections fulfills the annual inspection reporting requirements for 2022. The first quarter 2023 site inspection will be conducted in March 2023. 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 24, 2023

cc: file

## **TABLES**



**TABLE 1**  
**RACER Trust - Coldwater Road**  
**Liquid Volumes Removed from Leak Detection Vaults in 2022**

Date 2022	VAULT A	VAULT B	VAULT C	VAULT D	VAULT E	VAULT F	TOTAL LDS GALLONS
January 19, 2022	381*	604	50*	250*	1,215	5*	2,505
February 16, 2022	132	258	26	98	717	4	1,235
March 10, 2022	--	--	--	--	752	--	752
April 14, 2022	120*	1,115	44*	238*	1,080	5*	2,602
May 19, 2022	--	700	--	--	1,184	--	1,884
June 9, 2022	267*	391	47*	215*	889	95*	1,904
July 20, 2022	--	310	--	--	978	--	1,288
August 16, 2022	322*	226	156*	240*	312	0*	1,256
September 22, 2022	113	67	85	95	268	4	632
October 28, 2022	--	--	--	--	--	--	--
November 8, 2022	72*	49*	52*	76*	72*	3*	324
December 13, 2022	--	--	--	--	--	--	--
<b>YEAR END TOTAL</b>	<b>1,407</b>	<b>3,720</b>	<b>460</b>	<b>1,212</b>	<b>7,467</b>	<b>116</b>	<b>14,382</b>

**Notes**

Liquid volumes in gallons

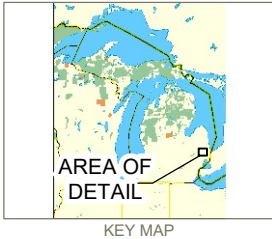
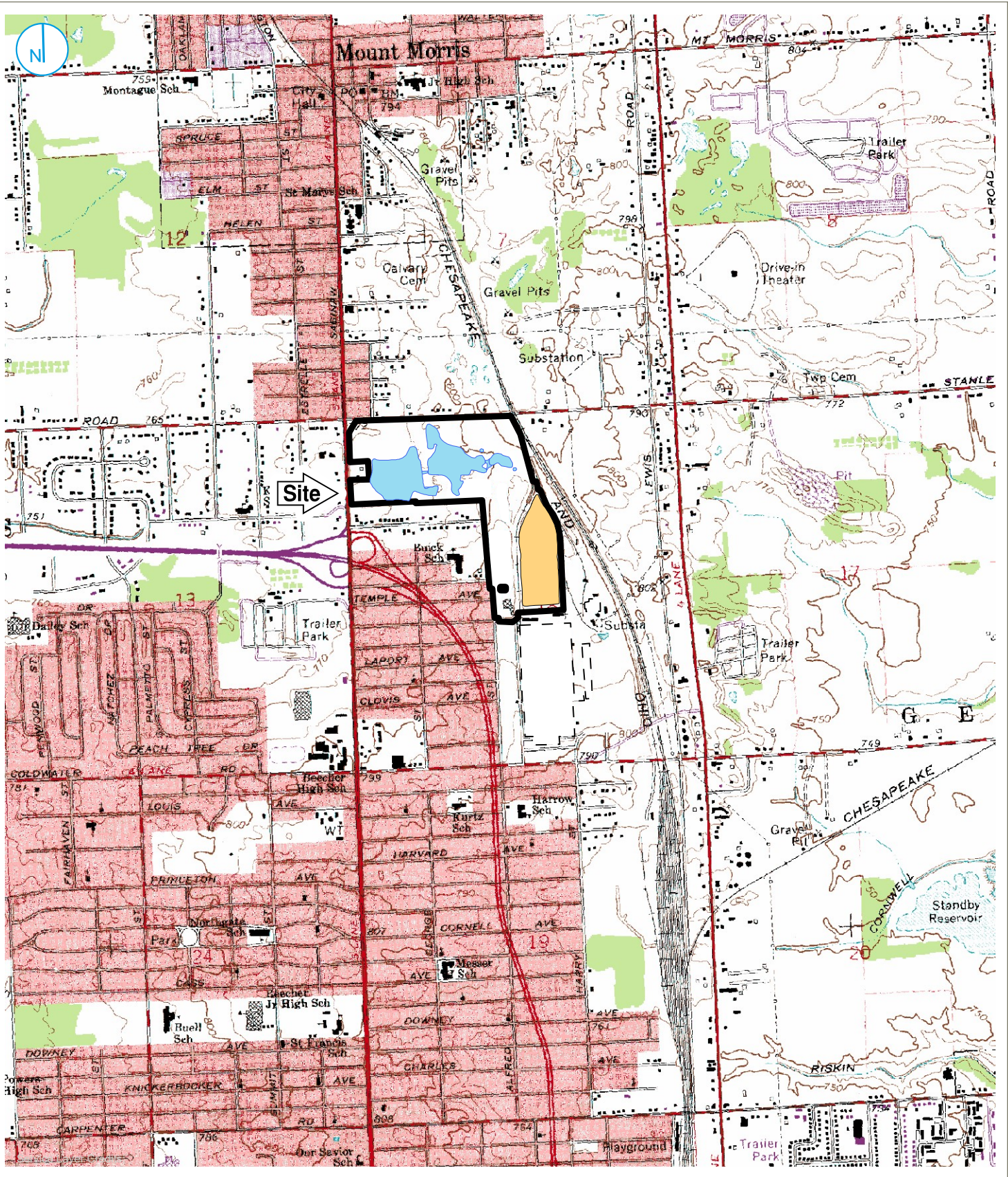
LDS - Leak Detection System

-- Vault not dewatered

\* Indicates 2 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 Facility  
 Flint, Michigan

O'BRIEN & GERE ENGINEERS, INC.  
 A RAMBOLL COMPANY



PROJECT: 169000XXXX | DATED: 8/11/2020 | DESIGNER: MONETANT  
I:\Racer-Trust\153888\75178.Coldwater-2020\Docs\Reports\LD\Site\Semt-Annual Jun 2020\Figure\002 - Site\_Layout\_2020 SA Rpts (LDS-Rpt) (2020-08)\_08112020.mxd



- ⊙ LEACHATE COLLECTION SUMP
- ACCESS PORT FOR LEAK DETECTION VAULT
- ▬ PROPERTY BOUNDARY



### SITE LAYOUT

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

**FIGURE 02**

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus D.S., USDA, USGS, AeroGRID, IGN, and the GIS User Community



- ⊙ LEACHAGE COLLECTION SUMP
- ACCESS FOR LEAK DETECTION VAULT
- ⊠ FENCE REPAIR
- ⊗ ANIMAL BURROW
- ▬ PROPERTY BOUNDARY



FENCE REPAIR LOCATION MAP

RACER TRUST  
Coldwater Road  
Flint, Michigan

FIGURE 03

**APPENDIX A  
INSPECTION LOGS**

**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940102192**

**Inspector's Name/Title** \_\_\_\_\_ Kalyssa Ramirez \_\_\_\_\_

**Inspector's Signature/Date/Time** \_\_\_\_\_ Kalyssa Ramirez 3/14/22 @ 1:30; 3/22/22 @ 10:30; 3/25/22 @ 11:00

**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	Yes	No	No	No	No	No	Soil exposure from animal burrow	
Cell B	No	No	No	No	No	No	Small amount of soil exposure on western slope	
Cell C	No	No	No	No	No	No	Small amount of soil exposure on western slope	
Cell D	No	No	No	No	No	No	Small divot on western side	
Cell E	No	No	No	No	No	No		
Cell F	No	No	No	No	No	No	Small amount of soil exposure on eastern corner	
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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	None, other than by animal burrow	Noted on drawing	Yes	Yes		
B	None other than small amount of soil exposure	Noted on drawing	Yes	Yes		
C	Small hole where soil exposed	Noted on drawing	Yes	Yes		
D	Small hole where soil exposed	Noted on drawing	Yes	Yes		
E	None	Noted on drawing	Yes	Yes		
F	Soil exposure on western corner	Noted on drawing	Yes	Yes		
Berms	No	Noted on drawing	Yes	Yes	Eastern & south of landfill grass is a little long	

## 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	Yes	Yes		
Roads located approx. east of landfill	Some areas there are spare gravel	Yes		
Roads located approx. north of wetlands	Yes	Yes	Some ponding of water, a little gravel, not as much as west of wetlands	
Roads located approx. south of wetlands	Gravel present in some spots, saturated, some gravel washout	No saturated water puddled in road		
Roads located approx. west of wetlands	No	No	Completely saturated water pooled. Not much gravel other than by pad.	
Roads located approx. east of wetlands	No	No	Completely saturated poor gravel. Ponding water.	

## 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	Fence is collapsing in section	No	No	No	Hole south of landfill cap	
Fences along west property line	Yes	No	No	No	Holes in fence see figure	
Fences along east property line	Yes	No	Yes	No	Missing fence from when culvert was built, gate open	

**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.

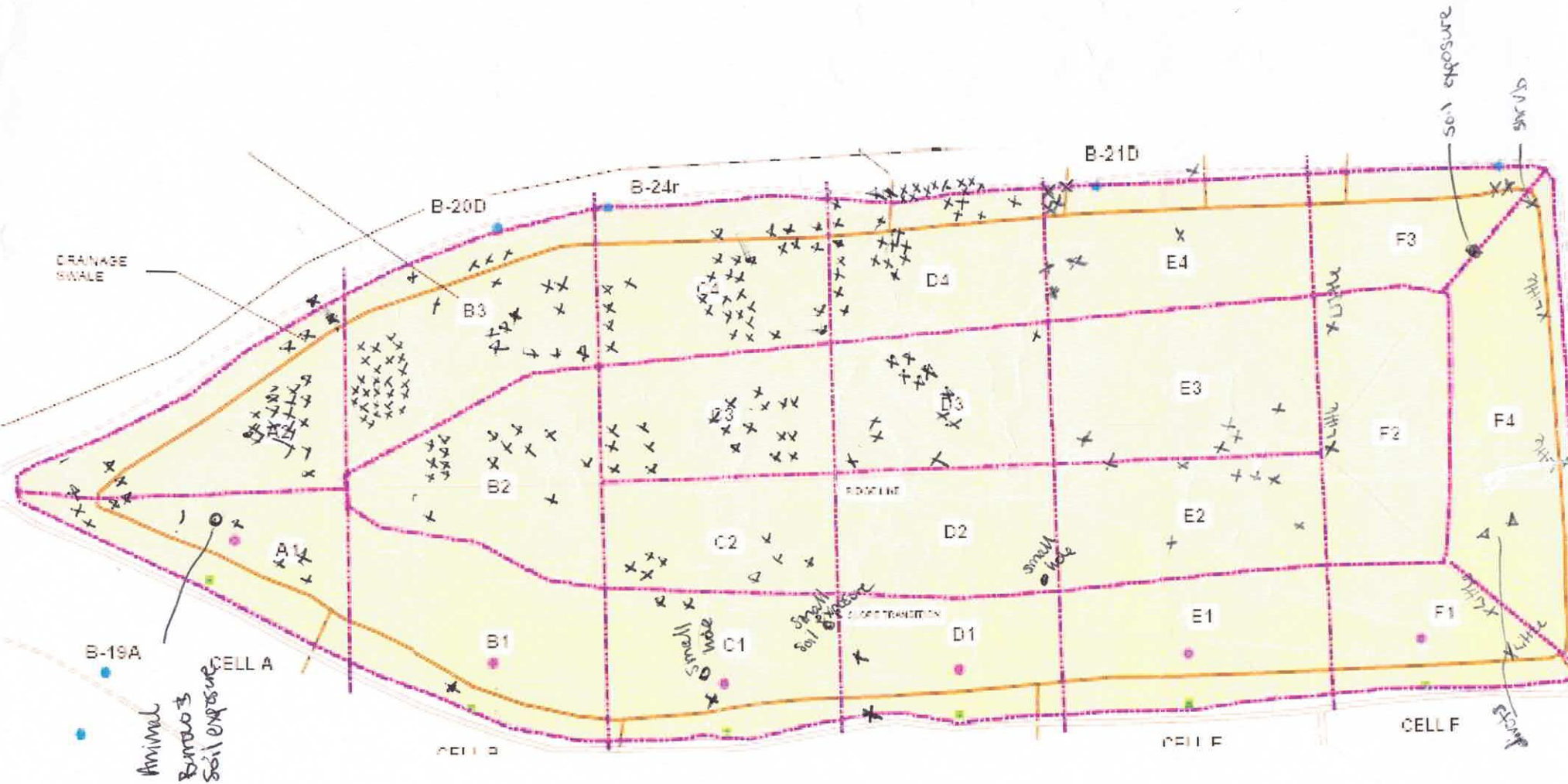
Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken	Date Corrected
RMA	No	Yes, in road by rain	No	Yes, minor ponding in southern portion	Yes, from road	Ponding south of trail. Soil erosion & washout occurring north of trail/road near slope of the RMA hill.	

### **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.

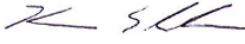
Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions	Date Corrected
Perimeter of landfill and berm	None, some ponding on trail				
Drainage trenches at base of landfill	None				
RMA	Yes	In road	Slight gully due to rain		
Wetlands area	Ponds over flowing				
Culverts around landfill	Vegetation in culvert at C4 & D4	Culvert near F1 looks like some vegetation is growing			
Western drainage swale	None				
North landfill catch basin	None				





**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940102192**

**Inspector's Name/Title** Kevin Schneider

**Inspector's Signature/Date/Time**  6/30/2022

**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	Soil exposure from 1 <sup>st</sup> quarter has filled in.	Burrow closed May 19, 2022
Cell B	No	No	No	No	No	No	Soil exposure from 1 <sup>st</sup> quarter has filled in.	
Cell C	No	No	No	No	No	No	Soil exposure from 1 <sup>st</sup> quarter has filled in.	
Cell D	No	No	No	No	No	No		
Cell E	No	No	No	No	No	No		
Cell F	No	No	No	No	No	No	Soil exposure from 1 <sup>st</sup> quarter has filled in.	
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: Woody plant removal was performed throughout quarter and during inspection. There are tall shallow rooted weeds around the southern portion of the landfill.

**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	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	
B	No	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	
C	No	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	
D	No	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	
E	No	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	
F	No	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	
Berms	No	Yes	Yes	Yes	Woody plant removal taking place through quarter. Grass mowing is being scheduled	

### 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	Could use some more gravel	Yes		
Roads located approx. east of landfill	Could use some more gravel	Yes	Could use additional gravel in areas	
Roads located approx. north of wetlands	Could use some more gravel	Yes	Has dried out since last quarter	
Roads located approx. south of wetlands	Yes	Yes		
Roads located approx. west of wetlands	Yes	Yes	Has dried out since last quarter	
Roads located approx. east of wetlands	Yes	Yes	Has dried out since last quarter	

### 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	Fence is collapsing in section.	No	No	No	Not affecting performance	
Fences along west property line	No	No	No	No		Holes repaired April 1, 2022
Fences along east property line	Yes	No	Yes	No	Opening in on eastside south of landfill. Down fence from berm construction.	

**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	Gullyng in spring from rain.	No	No	Gullyng in spring from rain.		

### **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	No				
Drainage trenches at base of landfill	No				
RMA	No, previous gullying from rain.	In road	Slight gully due to rain		
Wetlands area	No				
Culverts around landfill	Vegetation in culverts				
Western drainage swale	No				
North landfill catch basin	No				

2nd Qtr 2020 6/30/20

1078PROJECTS\MLC\_15384-750DOCS\REPORTS\INSPECTION SECURITY REPORT 108.MXD

PLOT DATE: 2/6/2012 4:53



FIGURE 1

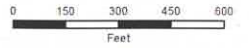


**LEGEND**

- 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

**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940102192**

**Inspector's Name/Title** \_\_\_\_\_ Kalyssa Ramirez \_\_\_\_\_

**Inspector's Signature/Date/Time** \_\_\_\_\_ Kalyssa Ramirez \_\_\_\_\_ 9/22/22 \_\_\_\_\_ 9:30 \_\_\_\_\_

**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	Yes	No	No	No	No		
Cell B	No	No	No	No	No	No	A few shallow holes. Locations noted on map (B3).	
Cell C	No	No	No	No	No	No	A few shallow holes. Locations noted on map (C4).	
Cell D	No	No	No	No	No	No		
Cell E	No	No	No	No	No	No		
Cell F	No	No	No	No	No	No	A shallow hole, location noted on map (F3).	
Berms	No	No	No	No	No	No		

**Woody Plant Removal Activities**

Summarize monthly activities: \_\_\_\_\_ Woody plant removal conducted throughout quarter.

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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	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22
B	No	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22
C	No	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22
D	No	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22
E	No	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22
F	No	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22
Berms	No	Yes	No	No	See map for deep rooted plants. Access roads and around building could be cut one more time this year.	Grass mowed 8/8/22

### 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	Could use more, more dirt is present than gravel.	Yes	Occasional rut, doesn't significantly affect access unless it rains then water will accumulate in ruts.	
Roads located approx. east of landfill	Could use more. Mostly dirt and gravel.	Yes	Occasional rut, doesn't significantly affect access unless it rains then water will accumulate in ruts.	
Roads located approx. north of wetlands	Could use more. Just dirt. Some gravel present by gate. Road is grass west of gate.	Yes	Occasional rut, doesn't significantly affect access unless it rains then water will accumulate in ruts.	
Roads located approx. south of wetlands	Mostly dirt, some gravel & vegetation near Saginaw road.	Water accumulated in ruts near Klein Road.	Occasional rut, doesn't significantly affect access unless it rains then water will accumulate in ruts.	
Roads located approx. west of wetlands	Some gravel mostly dirt and vegetation.	Yes	Occasional rut, doesn't significantly affect access unless it rains then water will accumulate in ruts.	
Roads located approx. east of wetlands	Just dirt could use gravel.	Yes	Occasional rut, doesn't significantly affect access unless it rains then water will accumulate in ruts.	

### 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, some words are illegible due to age of the signs.		
Fences along south property line	Fence is collapsing in section.	No	No	No, some words are illegible due to age of the signs.		
Fences along west property line	Yes	Yes	No	No, some words are illegible due to age of the signs.	Holes near Dollar General and by residential home.	
Fences along east property line	No	No	No	No, some words are illegible due to age of the signs.		Gate closed week of July 20, 2022; new fence installed week of July 11, 2022

**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	Gullyng in spring from rain.	No	No	Gullyng in spring from rain.		

### **Drainage Inspections**

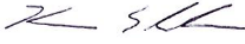
Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions	Date Corrected
Perimeter of landfill and berm	No				
Drainage trenches at base of landfill	No				
RMA	No, previous gullyng from rain.	By access road	Gullyng in spring from rain.		
Wetlands area	No				
Culverts around landfill	No				
Western drainage swale	No				
North landfill catch basin	No				



**Quarterly Post Closure Inspection Log Sheet**  
**Coldwater Road Landfill Site – Operations and Maintenance**  
**Flint, Michigan**  
**Project No. 1940102192**

**Inspector's Name/Title** Kevin Schneider

**Inspector's Signature/Date/Time**  12/21/22 - 12/22/22

**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.

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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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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
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- 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	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	
B	No	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	
C	No	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	
D	No	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	
E	No	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	
F	No	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	
Berms	No	Yes	Yes	Yes	See map for deep rooted plants and shallow rooted weeds. Grass long but manageable.	

**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	Could use more gravel	Yes	Shallow ruts.	
Roads located approx. east of landfill	Could use more gravel	Yes	Shallow ruts.	
Roads located approx. north of wetlands	Could use more gravel	Yes	Shallow ruts.	
Roads located approx. south of wetlands	Yes	Yes	Repaired during berm repair.	
Roads located approx. west of wetlands	Yes	Yes	Repaired during berm repair.	
Roads located approx. east of wetlands	Yes	Yes	Repaired during berm repair.	

**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.

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Fences along north property line	No	No	No	No. Some signs are faded.		
Fences along south property line	Fence is collapsing in section.	No	No	No. Some signs are faded.		
Fences along west property line	Yes	Yes	No	No. Some signs are faded.	Holes near Dollar General and by residential home. See Map.	Repaired 12/21/2022
Fences along east property line	No	No	No	No. Some signs are faded.		

**Leachate Collection System**

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Describe any issues and actions taken	Date Corrected

**Remaining Materials Area**

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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	No	No	No	No	Smoothed out during berm repair.	

### **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	No				
Drainage trenches at base of landfill	No				
RMA	No			Slight gullying	
Wetlands area	No				
Culverts around landfill	No				
Western drainage swale	No				
North landfill catch basin	No				

12/21/22 4th Qtr 2022

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PLOT DATE: 2/6/2012 1:44



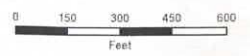
FIGURE 1



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

RACER TRUST  
COLDWATER ROAD  
LANDFILL FACILITY  
FLINT, MICHIGAN

**SITE LAYOUT**

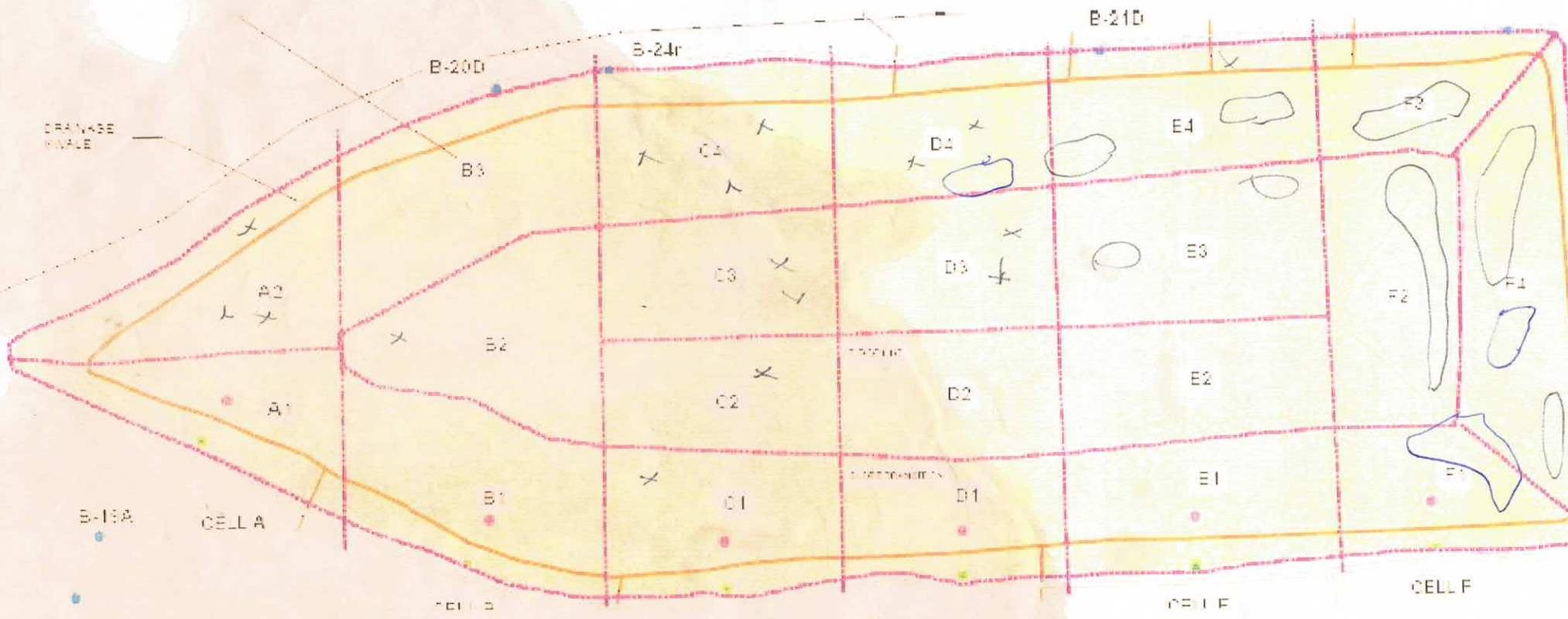


FEBRUARY 2021



MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

12/22/22  
4th Qtr 2022



X woody plants  
O Tall dense shallow rooted weeds