

April 27, 2023

Ms. Cindy Koepke  
Hydrogeologist  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Subject: Refuse Hideaway Landfill  
March 2023 Operation Monitoring and Maintenance Activities

Dear Cindy:

TRC completed the following operation, monitoring, and maintenance activities at the Refuse Hideaway Landfill (the Site) in Middleton, WI in March 2023.

- March 7, 2023 – Bi-weekly Site Inspection and Gas Probe Monitoring
- March 20, 2023 – Monthly Site Inspection
- March 27, 2023 – Leachate Sample Collection

## **Electrical Upgrades**

TRC is working with an electrical subcontractor to restore electrical service to the Site to allow for system operation.

## **Gas Extraction System**

The gas extraction system (GES) was restarted in October 2022 and was operated until December 15, 2022 when an overvoltage fault was observed and the system was shut down until the electrical service to the Site is repaired.

Perimeter gas probe monitoring was conducted at the site on March 7, 2023.

Field data from system and gas probe monitoring is included in Attachment 1.

## **Leachate Extraction System**

The leachate extraction system remained off during the month of March due to the lack of electrical service to the Site.

The leachate tank level was gauged on March 7, 2023, during the bi-weekly Site Inspection and contained 24.5 inches of leachate.

A leachate sample was collected on March 27, 2022, from the extraction system storage tank and analyzed by Eurofins for ICP Metals and Mercury per the Section 2.01 of the Wastewater Discharge Permit NTO-5.11. The laboratory analytical report is provided in Attachment 2.

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## Cap Inspection

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on March 20, 2022. The landfill cap and stormwater conveyance features are operational. TRC will continue to observe the condition of the features as the growing season starts this spring. An inspection form with further details is provided in Attachment 1 and a photographic log is provided in Attachment 3.

If you have any questions, please contact me at [astehn@trccompanies.com](mailto:astehn@trccompanies.com) or 608-807-8112.

Sincerely,

TRC



Andrew Stehn, PE  
Project Manager

- Attachments:
1. March 2023 Monitoring Results
  2. Laboratory Analytical Report – Leachate Sample
  3. Photographic Log

**Attachment 1**  
**March 2023 Monitoring Results**

## REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke

DATE: 3/7/2023

START TIME: 7:58AM

END TIME: 1:30 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: Sunny

DATE LAST CALIBRATED: 3/7/2023

TEMPERATURE: 32 °F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 30.44 in.Hg., rising

PRESS INSTRUMENT : Manometer

GROUND CONDITIONS: Frozen

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	8:28	-0.04	0.0	0.0	1.4	19.3	(2)
GP-1S	8:30	-0.02	0.0	0.0	0.0	20.8	(2)
GP-2D	8:34	0.00	0.0	0.0	0.3	20.4	(1)
GP-2S	8:36	0.00	0.0	0.0	0.2	20.5	(1)
GP-3	8:40	-0.02	0.0	0.0	0.3	20.3	(1)
GP-4	8:46	-0.04	0.0	0.0	0.0	20.8	(1)
GP-5	8:50	0.06	0.0	0.0	0.0	20.8	(2)
GP-6	8:56	0.12	0.0	0.0	0.0	20.8	(1)
GP-7	9:04	0.30	0.0	0.0	0.2	20.5	(2)
GP-8	9:17	-0.04	0.0	0.0	1.4	18.8	(2)
GP-9	9:21	0.00	0.0	0.0	1.2	18.5	(1)
GP-10	9:25	0.00	0.0	0.0	0.8	17.9	(1)
GP-11D	9:32	-0.05	0.0	0.0	0.0	20.8	(2)
GP-11S	9:34	0.00	0.0	0.0	0.1	20.7	(2)
GP-12D	9:37	0.00	>100	6.5	6.9	13.1	(1) Stable readings at 2 minutes.
GP-12S	9:40	0.00	0.0	0.0	0.2	20.7	(1)
GP-13D	9:43	0.04	0.0	0.0	0.0	20.8	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-13S	9:45	0.00	0.0	0.0	0.3	20.5	(2)
GP-16D	10:03	-0.05	0.0	0.0	0.0	20.8	(2)
GP-16S	10:05	0.00	0.0	0.0	0.0	20.8	(2)
GP-17D	9:56	-0.06	0.0	0.0	1.4	18.5	(1)
GP-17M	9:58	-0.05	0.0	0.0	0.0	20.8	(1)
GP-17S	10:00	-0.02	0.0	0.0	0.0	20.8	(1)
GP-18D	10:08	-0.19	0.0	0.0	0.0	20.8	(2)
GP-18M	10:10	-0.04	0.0	0.0	0.0	20.8	(2)
GP-18S	10:12	0.00	0.0	0.0	0.0	20.8	(2)
GP-19 <sup>85-100</sup>	10:59	-0.04	0.0	0.0	1.8	19.0	(1)
GP-19 <sup>50-70</sup>	11:01	-0.03	0.0	0.0	2.2	18.0	(1)
GP-19 <sup>25-40</sup>	11:03	-0.02	0.0	0.0	2.5	17.5	(1)
GP19 <sup>2-15</sup>	11:05	0.00	0.0	0.0	1.9	18.8	(1)
GP-20 <sup>85-100</sup>	10:49	0.00	0.0	0.0	0.0	20.8	(2)
GP-20 <sup>50-70</sup>	10:51	0.00	0.0	0.0	0.0	20.8	(2)
GP-20 <sup>25-40</sup>	10:53	0.00	0.0	0.0	1.0	19.4	(2)
GP-20 <sup>2-15</sup>	10:55	0.00	0.0	0.0	1.2	19.1	(2)
GP-21 <sup>85-100</sup>	10:40	-0.30	0.0	0.0	0.4	19.8	(2)
GP-21 <sup>50-70</sup>	10:42	-0.10	0.0	0.0	0.0	20.8	(2)
GP-21 <sup>25-40</sup>	10:44	-0.04	0.0	0.0	0.0	20.5	(2)
GP-21 <sup>2-15</sup>	10:46	0.00	0.0	0.0	0.5	20.1	(2)
GP-22 <sup>85-100</sup>	11:09	-0.15	0.0	0.0	0.9	20.0	(2)
GP-22 <sup>50-70</sup>	11:11	-0.14	0.0	0.0	0.8	20.2	(2)
GP-22 <sup>25-40</sup>	11:13	0.00	0.0	0.0	1.7	19.4	(2)
GP-22 <sup>2-15</sup>	11:15	0.00	0.0	0.0	1.2	19.8	(2)
GP-23 <sup>85-100</sup>	11:20	-0.04	0.0	0.0	0.0	20.8	(2)
GP-23 <sup>50-70</sup>	11:22	-0.03	0.0	0.0	0.0	20.8	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 <sup>25-40</sup>	11:24	-0.04	0.0	0.0	0.0	20.8	(2)
GP-23 <sup>2-15</sup>	11:26	-0.03	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>85-100</sup>	11:31	-0.16	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>50-70</sup>	11:33	-0.10	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>25-40</sup>	11:35	-0.06	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>2-15</sup>	11:37	-0.05	0.0	0.0	0.0	20.8	(2)
GPW-1D	1:20	-0.82	0.0	0.0	0.0	20.8	(1)
GPW-1M	13:22	-0.74	0.0	0.0	0.0	20.8	(1)
GPW-1S	13:24	0.00	0.0	0.0	1.7	18.6	(1)
G-1D	8:19	-0.05	0.0	0.0	0.0	20.8	(1)
G-1S	8:21	-0.03	0.0	0.0	0.0	20.8	(1)
G-2D	9:48	0.00	0.0	0.0	0.0	20.8	(1)
G-2S	9:50	0.04	0.0	0.0	0.0	20.8	(1)
G-5	9:11	0.18	NM	NM	NM	NM	(1) Not measured, water in probe.
G-6	8:13	0.00	0.0	0.0	0.0	20.8	(1)
G-8	10:34	0.00	0.0	0.0	0.0	20.8	(1)
G-9	10:02	0.00	0.0	0.0	0.5	18.5	(1)
G-10	11:45	-1.66	0.0	0.0	0.0	20.8	(1)
Speedway Office	8:25	0.00	0.0	0.0	0.0	20.8	Open to ATM

**NOTES:**

- (1); Locked probe casing.
- (2); Probe is above casing and cannot be locked.
- (3); No cap for probe casing and cannot be locked.

**Key:**

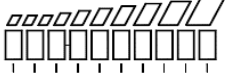
Shallow or 2'-15'
Medium or 25'-40'
Deep or 50'-70'
85'-100'

Entered by: J. Roelke 3/7/2023  
Checked by: T. Perkins 4/19/2023

**Bi-weekly - System Inspection Log**  
**Landfill Gas Extraction and Leachate Pump System**  
**WDNR - Refuse Highway Landfill**  
**Middleton, Wisconsin**

TRC Operator Name: John Roelke		Date: 3/7/2023		Arrival Time: 12:30	Departure Time: 12:45
Site Conditions			Equipment		
Weather Conditions:	Cloudy		Gas/Instrument Type:	GEMS 2000	
Ground Condition:	Frozen		Serial Number:	11668	
Barometric Pressure:	30.44 inHg		Date Last Calibrated:	3/7/2023	
Barometric Pressure Trend:	Rising		Method:	standard field calibration gas	
Temperature:	40F		Pressure Instrument:	Dwyer Manometer	

Landfill Gas Extraction System <sup>1</sup> Landfill Gas System Off-Line						
System	Location	Tag #	Equipment Description	Set Point	Typical Range	Field Reading
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	NM
			Speed	-	1800 - 1900 rpm	NM
			Frequency	-	30 - 35 Hz	NM
	HMI		Amperage	-	3 -4 amps	NM
			Speed	-		NM
			Hours	-	-	NM
Blower Operating (yes/no). Note excessive noise or issues observed.						
Blower Inlet	HMI	PT-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	NM
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
Gas Composition - % Oxygen			-		NM	
Gas Composition - % Balance			-		NM	
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	NM
	Local		Slight Glass: Liquid Present	-	-	NM
	HMI	LS-701	Level Indication	-	-	NM
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	NM
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	NM
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	NM
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	NM
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	NM
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
Gas Composition - % Oxygen			-		NM	
Gas Composition - % Balance			-		NM	
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	North	Valve Position	6 turns open /6	6 turns open	NM
	Local	North Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	Central	Valve Position	-	6 turns open	NM
	Local	Central Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
			Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	South	Valve Position	-	6 turns open	NM
	Local	South Sample Port	Gas Composition - % Methane	-		NM
			Gas Composition - % CO2	-		NM
Gas Composition - % Oxygen			-		NM	
Gas Composition - % Balance			-		NM	

Air Compressor System <sup>1,3,4</sup> <b>Air Compressor System Off-Line</b>								
Operational Settings	Pressure Set Points				Condensate Set Points			
	Tank Low (psi)	Tank High (psi)	Well Field (psi)	On (min.)	Off (min.)	Open (sec.)	Closed (min.)	Test Operation
<b>Air Dryer System<sup>2</sup></b>		<b>Electrical Status</b>			<b>HMI Heater/Air Conditioner</b>			
System Operational:	YES	3-Phase Power Indicator:		_____ of 3	Operational	Yes		
Condensate Drain Operational:	YES	GFI 1 Status:		(Green / Red)	Temperature	47F		
Alarm Indicator:	OFF	GFI 2 Status:		(Green / Red)	Filter Cleaned	No		
Condenser Cleaned <sup>2</sup> :	NO	<b>Leachate Tank/Loadout</b>						
Dew Point Indicator:		Liquid Level (inches):		24.5	Visual Check:			
 <p>Indicate which bars are green(G) or red (R) and note (F) if flashing.</p>		<b>Contact WDNR if level is above</b>		<b>71</b>	· Evidence of Tank Overflow:			
		Leak Detection Test Completed:		(yes/no)		· Inspect concrete pad and storm sewer for damage or backup		
		Overfill Float Functional <sup>5</sup> :		(yes/no)				
		<b>Exhaust Stack</b>						
		Drain Stack Sump (vol. removed)		0 gal	Stack Condition <sup>4</sup> : Good			

1. Check all air lines and gas extraction lines for leaks during each site visit. Drain inline air filters and replace as needed.
2. Air Dryer - Clean the condenser monthly using an air jet (max. 2 bar / 30 psig) inside out. Make sure not to damage the aluminum lamellae of the cooling package.
3. On a quarterly basis change the oil and check/clean the air filters and intercoolers for the air compressor.
4. Inspect mounting brackets and bolts for the air compressor and effluent stack for tightness.
5. Test overfill float operation on a monthly basis.

Comments/Notes:  
 NM - Not Measured  
 3 loads of leachate/runoff water removed/hailed off site

Data Entered By: J. Roelke 3/7/2023  
 Checked By: T. Perkins 4/19/2023



**Monthly System Inspection Log**  
**Landfill Gas Extraction and Leachate Pump System**  
**WDNR - Refuse Highway Landfill**  
**Middleton, Wisconsin**

<b>TRC Operator Name:</b> John Roelke	<b>Date:</b> 3/20/2023	<b>Arrival Time:</b> 15:15	<b>Departure Time:</b> 16:15
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Site Conditions	Initial <sup>1</sup>	Final <sup>2</sup>	Equipment	
Weather Conditions:	Cloudy		Gas/Instrument Type:	GEMS 2000
Ground Condition:	Frozen		Serial Number:	11668
Barometric Pressure:	29.97 inHg	NM	Date Last Calibrated:	
Barometric Pressure Trend:	Falling		Method:	Standard field calibration
Temperature:	47F		Pressure Instrument:	Dwyer Series 475 Manometer

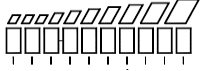
**Landfill Gas Extraction System<sup>3</sup> Landfill Gas Extraction System Off-Line**

System	Location	Tag #	Equipment Description	Set Point	Typical Range	Initial Field Reading <sup>1</sup>	Final Field Reading <sup>2</sup>
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	MN	--
			Speed	-	1800 - 1900 rpm	MN	--
			Frequency	-	30 - 35 Hz	MN	--
	HMI	GHS-BLR-301	Amperage	-	3 - 4 amps	MN	--
			Speed	-		NM	--
			Hours	-		NM	--

Blower Operating (YES). Note excessive noise or issues observed.

Blower Inlet	HMI	PT-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM	NM
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	NM	NM
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	NM	NM
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
Gas Composition - % Oxygen			-		NM	NM	
Gas Composition - % Balance			-		NM	NM	
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	NM	--
	Local		Slight Glass: Liquid Present	-	-		--
	HMI	LS-701	Level Indication	-	-		--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	NM	NM
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	NM	NM
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	NM	NM
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	NM	NM
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	NM	NM
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM	NM
	Local	Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
Gas Composition - % Oxygen			-		NM	NM	
Gas Composition - % Balance			-		NM	NM	
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	NM	NM
	Local	North	Valve Position	6 turns open /6	6 turns open	NM	NM
	Local	North Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	NM	NM
	Local	Central	Valve Position	-	6 turns open	NM	NM
	Local	Central Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
			Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	NM	NM
	Local	South	Valve Position	-	6 turns open	NM	NM
	Local	South Sample Port	Gas Composition - % Methane	-		NM	NM
			Gas Composition - % CO2	-		NM	NM
Gas Composition - % Oxygen			-		NM	NM	
Gas Composition - % Balance			-		NM	NM	

**Air Compressor System<sup>3,5,6</sup> Air Compressor System Off-Line**

Operational Settings	Pressure Set Points				Condensate Set Points				
	Tank Low (psi)	Tank High (psi)	Well Field (psi)	On (min.)	Off (min.)	Open (sec.)	Closed (min.)	Test Operation	
	<b>NOT OPERATING</b>								
<b>Air Dryer System<sup>4</sup></b>			<b>Electrical Status</b>			<b>HMI Heater/Air Conditioner</b>			
System Operational:		3-Phase Power Indicator:			_____ of 3	Operational			
Condensate Drain Operational:		GFI 1 Status:			GREEN	Temperature			
Alarm Indicator:		GFI 2 Status:			GREEN	Filter Cleaned			
Condenser Cleaned <sup>2</sup> :		<b>Leachate Tank/Loadout</b>							
Dew Point Indicator:		Liquid Level (inches):				Visual Check: OK			
 <p>Indicate which bars are green(G) or red (R) and note (F) if flashing.</p>		<b>Contact WDNR if level is above</b>			71 inches	Evidence of Tank Overflow:			
		Leak Detection Test Completed:			No		Inspect concrete pad and storm sewer for damage or backup		
		Overfill Float Functional <sup>7</sup> :			Yes				
		<b>Exhaust Stack</b>							
		Drain Stack Sump (vol. removed)					Stack Condition <sup>6</sup> :		

1. Initial site conditions represents readings collected upon arrival to the site and initial field readings are collected prior to the landfill balancing.
2. Final site conditions represents readings collected upon departure from the site and final field readings are collected following the landfill balancing.
3. Check all air lines and gas extraction lines for leaks during each site visit. Drain inline air filters and replace as needed.
4. Air Dryer - Clean the condenser monthly using an air jet (max. 2 bar / 30 psig) inside out. Make sure not to damage the aluminum lamellae of the cooling package.
5. On a quarterly basis change the oil and check/clean the air filters and intercoolers for the air compressor.
6. Inspect mounting brackets and bolts for the air compressor and effluent stack for tightness.
7. Test overfill float operation on a monthly basis.

Comments/Notes:  
 NM - Not Measured  
 Inspected landfill cap

Data Entered By: J. Roelke 3/20/2023  
 Checked By: T. Perkins 4/19/2023

**Cap Inspection**

**Note: Photograph all issues encountered during inspection**

**Note: Keep vehicle traffic to gravel roadways, avoid driving on the landfill surface**

**Is the landfill surface covered in snow (Y/N)? No**

**Inspect the landfill surface when not covered in snow. Describe the condition and any issues observed for each category below:**

**Cap integrity:**

Cap integrity is acceptable with no changes from condition prior to snow cover.

**Condition of drainage ways:**

West Drainage Ditch - During the March inspection, standing/slow to drain water was observed at the surface to the north. This area was previously identified as having less positive slope than its surrounds and was regraded during 2020-2021 grading work at the Site. The final post construction survey showed positive slope.

East Drainage Ditch - A small portion of the riprap at the west embankment of the northern culvert appears to have eroded/failed.

Drainage ways are acceptable with minimal to no changes from previous conditions aside from those described above.

**Extent of vegetation cover:**

Vegetation cover is acceptable over the majority of the Site. Various areas were reseeded and ground cover was applied in the fall of 2022 and remains in place. Burrowed areas were filled in with soil at gas extraction wells GW-2, GW-4, and GW-12 and remain in good condition.

**Significant erosion:**

No evidence of significant erosion was observed at the Site.

**Repeated erosion:**

No evidence of repeated erosion was observed at the Site.

**Vegetation die-off:**

Areas at the west drainage ditch and east drainage ditch previously showed signs of vegetation die-off and were reseeded in the fall of 2022. Ground cover in these areas remains and TRC will continue to monitor vegetation regrowth in 2023.

**Maintain surface water conveyances and the sedimentation basin by completing the following:**

**Inspect drainage ditches for erosion, blockages, and vegetation, describe and note any issues:**

Evidence of light erosion at the eastern drainage ditch was previously observed and reseeded in the fall of 2022. Ground cover remains in place and TRC will continue to monitor the area for vegetation regrowth and any additional evidence of erosion.

**Inspect sedimentation basin banks and outfalls for erosion, describe and note any issues:**

No erosion or other issues at sedimentation basin banks and outfalls.

**Measure the distance between the invert of the sedimentation basin outlet and the top of the sediments accumulated in the basin (June Only!):**

NM

Data Entered By: J. Roelke 3/20/2023

Checked By: T. Perkins 4/19/2023

**Attachment 2**  
**Laboratory Analytical Report – Leachate Sample**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tea Jackson-Strong  
TRC Environmental Corporation  
999 Fourier Drive, Suite 101  
Madison, Wisconsin 53717

Generated 4/10/2023 3:59:06 PM

## JOB DESCRIPTION

Refuse Landfill - 457573.0002.0000

## JOB NUMBER

500-231323-1

# Eurofins Chicago

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

## Authorization



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# Case Narrative

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

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**Job ID: 500-231323-1**

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**Laboratory: Eurofins Chicago**

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**Narrative**

**Job Narrative  
500-231323-1**

**Comments**

No additional comments.

**Receipt**

The sample was received on 3/28/2023 10:10 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: TRC Environmental Corporation  
 Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

**Client Sample ID: Leachate Tank**

**Lab Sample ID: 500-231323-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.89	J B	2.0	0.43	ug/L	1		6010D	Total Recoverable
Chromium	14		10	1.7	ug/L	1		6010D	Total Recoverable
Copper	32	B	10	1.8	ug/L	1		6010D	Total Recoverable
Lead	13		5.0	2.7	ug/L	1		6010D	Total Recoverable
Nickel	13		10	1.9	ug/L	1		6010D	Total Recoverable
Selenium	7.6	J	10	5.3	ug/L	1		6010D	Total Recoverable
Zinc	190		20	5.0	ug/L	1		6010D	Total Recoverable
Mercury	0.11	J	0.20	0.079	ug/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

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# Method Summary

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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# Sample Summary

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-231323-1	Leachate Tank	Water	03/22/23 12:50	03/28/23 10:10

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# Client Sample Results

Client: TRC Environmental Corporation  
 Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

**Client Sample ID: Leachate Tank**

**Lab Sample ID: 500-231323-1**

Date Collected: 03/22/23 12:50

Matrix: Water

Date Received: 03/28/23 10:10

**Method: SW846 6010D - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.89	J B	2.0	0.43	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Chromium	14		10	1.7	ug/L	-	04/04/23 09:29	04/07/23 21:37	1
Copper	32	B	10	1.8	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Lead	13		5.0	2.7	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Molybdenum	<3.8		10	3.8	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Nickel	13		10	1.9	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Selenium	7.6	J	10	5.3	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Silver	<1.5		5.0	1.5	ug/L	-	04/04/23 09:29	04/04/23 18:46	1
Zinc	190		20	5.0	ug/L	-	04/04/23 09:29	04/04/23 18:46	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	J	0.20	0.079	ug/L	-	04/03/23 14:55	04/04/23 08:29	1

# Definitions/Glossary

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

## Metals

### Prep Batch: 705605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231323-1	Leachate Tank	Total/NA	Water	7470A	
MB 500-705605/13-A	Method Blank	Total/NA	Water	7470A	
LCS 500-705605/12-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 705757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231323-1	Leachate Tank	Total Recoverable	Water	3005A	
MB 500-705757/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-705757/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 705825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231323-1	Leachate Tank	Total/NA	Water	7470A	705605
MB 500-705605/13-A	Method Blank	Total/NA	Water	7470A	705605
LCS 500-705605/12-A	Lab Control Sample	Total/NA	Water	7470A	705605

### Analysis Batch: 706033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231323-1	Leachate Tank	Total Recoverable	Water	6010D	705757
MB 500-705757/1-A	Method Blank	Total Recoverable	Water	6010D	705757
LCS 500-705757/2-A	Lab Control Sample	Total Recoverable	Water	6010D	705757

### Analysis Batch: 706832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-231323-1	Leachate Tank	Total Recoverable	Water	6010D	705757
MB 500-705757/1-A	Method Blank	Total Recoverable	Water	6010D	705757
LCS 500-705757/2-A	Lab Control Sample	Total Recoverable	Water	6010D	705757

# QC Sample Results

Client: TRC Environmental Corporation  
 Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 500-705757/1-A**  
**Matrix: Water**  
**Analysis Batch: 706033**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 705757**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	0.557	J	2.0	0.43	ug/L		04/04/23 09:29	04/04/23 17:40	1
Copper	3.41	J	10	1.8	ug/L		04/04/23 09:29	04/04/23 17:40	1
Lead	<2.7		5.0	2.7	ug/L		04/04/23 09:29	04/04/23 17:40	1
Molybdenum	<3.8		10	3.8	ug/L		04/04/23 09:29	04/04/23 17:40	1
Nickel	<1.9		10	1.9	ug/L		04/04/23 09:29	04/04/23 17:40	1
Selenium	<5.3		10	5.3	ug/L		04/04/23 09:29	04/04/23 17:40	1
Silver	<1.5		5.0	1.5	ug/L		04/04/23 09:29	04/04/23 17:40	1
Zinc	<5.0		20	5.0	ug/L		04/04/23 09:29	04/04/23 17:40	1

**Lab Sample ID: MB 500-705757/1-A**  
**Matrix: Water**  
**Analysis Batch: 706832**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 705757**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<1.7		10	1.7	ug/L		04/04/23 09:29	04/07/23 20:28	1

**Lab Sample ID: LCS 500-705757/2-A**  
**Matrix: Water**  
**Analysis Batch: 706033**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 705757**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	250	255		ug/L		102	80 - 120
Lead	100	93.1		ug/L		93	80 - 120
Molybdenum	1000	975		ug/L		97	80 - 120
Nickel	500	472		ug/L		94	80 - 120
Selenium	100	94.2		ug/L		94	80 - 120
Silver	50.0	46.0		ug/L		92	80 - 120
Zinc	500	446		ug/L		89	80 - 120

**Lab Sample ID: LCS 500-705757/2-A**  
**Matrix: Water**  
**Analysis Batch: 706832**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 705757**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-705605/13-A**  
**Matrix: Water**  
**Analysis Batch: 705825**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 705605**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.079		0.20	0.079	ug/L		04/03/23 14:55	04/04/23 07:32	1

# QC Sample Results

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-705605/12-A  
Matrix: Water  
Analysis Batch: 705825

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 705605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.98	1.91		ug/L		96	80 - 120

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# Lab Chronicle

Client: TRC Environmental Corporation  
 Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

**Client Sample ID: Leachate Tank**

**Lab Sample ID: 500-231323-1**

**Date Collected: 03/22/23 12:50**

**Matrix: Water**

**Date Received: 03/28/23 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			705757	BDE	EET CHI	04/04/23 09:29 - 04/04/23 09:59 <sup>1</sup>
Total Recoverable	Analysis	6010D		1	706033	CMS	EET CHI	04/04/23 18:46
Total Recoverable	Prep	3005A			705757	BDE	EET CHI	04/04/23 09:29 - 04/04/23 09:59 <sup>1</sup>
Total Recoverable	Analysis	6010D		1	706832	CMS	EET CHI	04/07/23 21:37
Total/NA	Prep	7470A			705605	MJG	EET CHI	04/03/23 14:55 - 04/03/23 16:55 <sup>1</sup>
Total/NA	Analysis	7470A		1	705825	MJG	EET CHI	04/04/23 08:29

<sup>1</sup> Completion dates and times are reported or not reported per method requirements or individual lab discretion.

**Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Accreditation/Certification Summary

Client: TRC Environmental Corporation  
Project/Site: Refuse Landfill - 457573.0002.0000

Job ID: 500-231323-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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# Chain of Custody Record

638986



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program  DW  NPDES  RCRA  Other

500-231323 COC

TAL-8210

Client Contact		Project Manager: <b>Andy Stehn</b>		Site Contact: <b>Andy Stehn</b>		Date: <b>3/27/23</b>		Carrier: <b>Fed Ex</b>		Job / SDG No. <b>SW-231323</b>										
Company Name: <b>TRC</b>		Tel/Email: <b>(608) 807-8112</b>		Lab Contact: <b>Sandra Fredrick</b>		Carrier: <b>Fed Ex</b>		1 of 1 COCs		Sampler: <b>John Kaelke</b>										
Address: <b>999 Fourier Dr.</b>		Analysis Turnaround Time																		
City/State/Zip: <b>Madison WI 53717</b>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS																		
Phone: <b>(608) 807-8112</b>		TAT if different from Below _____																		
Fax: <b>astehna@trcompanies.com</b>		<input type="checkbox"/> 2 weeks																		
Project Name: <b>Refuse Landfill</b>		<input checked="" type="checkbox"/> 1 week																		
Site: <b>Middleton WI</b>		<input type="checkbox"/> 2 days																		
PO#: <b>457573.0002.000</b>		<input type="checkbox"/> 1 day																		
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes										
1 Leachate Tank			3/27/23	12:15	G	W	1	N	N	X	X	X	X	X	X	X	X	X	X	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other																				
<b>Possible Hazard Identification</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown										<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months										
<b>Special Instructions/QC Requirements &amp; Comments</b>																				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No										Custody Seal No _____ Cooler Temp (°C) Obs'd <b>1.3</b> Corr'd <b>1.7</b> Therm ID No _____										
Relinquished by <b>[Signature]</b>			Company <b>TRC</b>			Date/Time <b>3/27/23</b>			Received by _____			Company _____			Date/Time _____					
Relinquished by _____			Company _____			Date/Time _____			Received by _____			Company _____			Date/Time _____					
Relinquished by _____			Company _____			Date/Time _____			Received in Laboratory by <b>[Signature]</b>			Company _____			Date/Time <b>3/28/23 10:10</b>					



500-231323 Waybl

ORIGIN ID RRLA (262) 202-5955  
IAN EVANS  
EUROFINS TESTAMERICA  
4125 N 124TH ST  
SUITE F (REAR)  
BROOKFIELD, WI 53005  
UNITED STATES US

SHIP DATE: 24MAR23  
ACTWGT: 20 00 LB MAN  
CAD: 0269688/CAFE3621

BILL SENDER

SRPT7/RRRP/4124

*Handwritten initials: JPT*

TO **SAMPLE RECEIPT**  
**EUROFINS**  
**2417 BOND ST.**

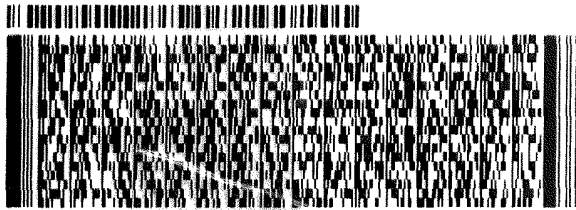
**UNIVERSITY PARK IL 60484**

(262) 202-- 5955

REF

INV:  
PO:

DEPT:



**FedEx**  
Express



JP22302206060104

**FedEx**

TRK# **6374 2028 2447**  
0201

**TUE - 28 MAR A**  
**PRIORITY OVERNIGHT**

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# Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-231323-1

**Login Number: 231323**

**List Number: 1**

**Creator: James, Jeff A**

**List Source: Eurofins Chicago**


Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**Attachment 3**  
**Photographic Log**





## Photographic Log

<b>Client Name:</b> Wisconsin Department of Natural Resources (WDNR)		<b>Site Location:</b> Refuse Hideaway Landfill Middleton, WI	<b>Project No.:</b> TRC # 457573
<b>Photo No.</b> 1	<b>Date</b> 3/20/2023		
<b>Description</b> <u>Western Drainage Ditch:</u> Surface water was observed at the north portion of the drainage ditch. Surface water is flowing naturally towards the southernly riprap area.			

<b>Photo No.</b> 2	<b>Date</b> 3/20/2023		
<b>Description</b> <u>Eastern Drainage Ditch:</u> Some riprap has begun to deteriorate at the west side of the western culvert. Surface water is flowing and is not being obstructed.			



## Photographic Log

<b>Client Name:</b> Wisconsin Department of Natural Resources (WDNR)		<b>Site Location:</b> Refuse Hideaway Landfill Middleton, WI	<b>Project No.:</b> TRC # 457573
<b>Photo No.</b> 3	<b>Date</b> 3/20/2023		
<b>Description</b> <u>Eastern Drainage Ditch:</u> Areas were reseeded and erosion mat was applied cover in the fall of 2022 and remains in place.			

<b>Photo No.</b> 4	<b>Date</b> 3/20/2023		
<b>Description</b> <u>Eastern Landfill Extents</u> Reseeding and ground cover was previously applied in the Fall of 2022 and remains in place.			



## Photographic Log

<b>Client Name:</b> Wisconsin Department of Natural Resources (WDNR)		<b>Site Location:</b> Refuse Hideaway Landfill Middleton, WI	<b>Project No.:</b> TRC # 457573
<b>Photo No.</b> 5	<b>Date</b> 3/20/2023		
<b>Description</b> <u>Southern Landfill Extents:</u> Evidence of burrowing around GW-2 (and other Site wells) was observed in 2022. These areas were filled with soil in the Fall of 2022 and remain in good condition.			
<b>Photo No.</b> 6	<b>Date</b> 3/20/2023		
<b>Description</b> <u>Southern Landfill Extents:</u> Based on TRC's observations post-snow melt, the Site cap appears to be in good condition.			