

July 21, 2023

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

Subject: Refuse Hideaway Landfill

June 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 June 2023.

- June 9, 2023 Bi-weekly Site Inspection
- June 13, 2023 Gas Probe Monitoring
- June 30, 2023 Monthly Site and Cap Inspections, and Leachate Sample Collection

Electrical Upgrades

TRC and Van Ert Electrical Company Inc. (Van Ert) are working to restore electrical service to the Site to allow for system operation. Van Ert was onsite on June 5, 2023, to complete the harmonics voltage monitoring testing work. The instruments were installed on May 23, 2023, and remained in place until June 5, 2023. A report was provided by Van Ert summarizing details of the harmonics voltage monitoring, electrical motor testing, and the one-line diagram. TRC conducted a review of the report submittal and provided minor comments and concurrence via email on June 28, 2023. Van Ert is working to procure the necessary equipment for the electrical system repairs/upgrades.

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 June 16, 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 June due to the issues with the electrical service to the Site.

The leachate tank level was gauged on June 6, and June 30, 2023, and contained 74.5 inches and 35.0 inches of leachate, respectively.

Ms. Cindy Koepke Wisconsin Department of Natural Resources July 21, 2023 Page 2

A leachate sample was collected on June 30, 2023, 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.

Cap Inspection

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on June 30, 2023. The landfill cap and stormwater conveyance features are operational. TRC will continue to observe the condition of the features as the growing season continues. 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 Andrew Stehn at astehn@trccompanies.com or 608-807-8112.

Sincerely,

TRC

Andrew Stehn, PE

andrew M. Stehn

Project Manager

Ted O'Connell Quality Assurance

20 Olannell

Attachments: 1. June 2023 Monitoring Results

2. Laboratory Analytical Report – Leachate Sample

3. Photographic Log

Attachment 1 June 2023 Monitoring Results

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

TRC Operato	or Name: Will Hazelti	ne	<u></u>	
Date:	6/9/2023	Arrival Time: 1:05 PM	Departure Time:	2:30 PM
	Site Cond	itions		Equipment
	Site Cont	itions		Equipment
Wea	ther Conditions:	clear	Gas/Instrument Type:	GEMS 2000
Gro	ound Condition:	dry	Serial Number:	11668
Baro	metric Pressure:	29.9	Date Last Calibrated:	NM
Baromet	tric Pressure Trend:	falling	Method:	standard field calibration gas
7	Temperature:	82	Pressure Instrument:	Dwyer Manometer

System	Location	Tag #	Equipment Description	Set Point	Typical Range	Field Reading
System	Location	rug #		Set Point		
	Remote		Amperage	-	3 - 4 amps	NM
	Kemote		Speed	-	1800 - 1900 rpm	NM
Blower Motor		GHS-BLR-301	Frequency	-	30 - 35 Hz	NM
	HMI	→ ⊢	Amperage	-	3 -4 amps	NM
	HMI	→ ⊢	Speed	-		NM
	HMI		Hours	-	-	NM
lower Operating (yes/no). Note	e excessive noise or	issues observed.			
	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
Blower Inlet	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM
piowei iiilet			Gas Composition - % Methane	-		NM
	Local	Cample Dort	Gas Composition - % CO2	-		NM
	Local	Sample Port	Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c.	NM
Demister	Local		Slight Glass: Liquid Present	-	-	NM
	НМІ	LS-701	Level Indication	-	-	NM
	HMI	PT-302	Blower Outlet Flow Pressure	-	-	NM
	НМІ	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
Blower Outlet	Local	GHS-TI-302	Blower Outlet Temperature - 50 - 90 °F		50 - 90 °F	NM
	Local	3113 11 302	Gas Composition - % Methane	_	30 30 1	NM
			Gas Composition - % CO2	_		NM
	Local	Sample Port	Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-		NM
	Local	North	North Branch Vacuum	_	6 - 7 in w.c.	NM
ŀ	Local	North	Valve Position	6 turns open /6	6 turns open	NM
ŀ	Local	1107111	Gas Composition - % Methane	-	o tarris open	NM
		North Sample	Gas Composition - % CO2	-		NM
	Local	Port	Gas Composition - % Oxygen	-		NM
		1 511	Gas Composition - % Balance	-		NM
ŀ	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	NM
ŀ	Local	Central	Valve Position	-	6 turns open	NM
ŀ	LUCAI	Central		-	o turns open	NM
Branch Headers		Central	Gas Composition - % Methane Gas Composition - % CO2	-	+	NM
	Local	 	·	-	+	
		Sample Port	Gas Composition - % Oxygen	-		NM NM
		6 11	Gas Composition - % Balance		6 7.	
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	South	Valve Position	-	6 turns open	NM
		I <u> </u>	Gas Composition - % Methane	-		NM
	Local	South Sample	Gas Composition - % CO2	-		NM
		Port	Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-	1	NM

	А	ir Compres	sor System ¹	,3,4 Air Com	pressor Sys	stem Off Line			
			sure Set Poin				Condensate Set P	oints	
Operational Settings	Tank Low (psi)	Tank High (psi)	I On (min.) I Off (min.)		Open (sec.)	Closed (min.)	Test Operation		
Air Dryer	Air Dryer System ²						HMI Heater/Air Conditioner		
System Operatio	System Operational: YES			e Power Indi	cator:	<u>3</u> of 3	Operational	yes - Comment 2	
Condensate Drain Ope	erational:	YES	GFI 1 Status:			Green	Temperature	94	
Alarm Indictor	:	OFF	GFI 2 Status:			Green	Filter Cleaned	ye	es
Condenser Clean	ed²:	NO			Lo	eachate Tank/L	oadout		
Dew Point I	ndicator:		Liqu	id Level (inch	ies):	74.5	Visi	ual Check:	
			Contact V	VDNR if level	is above	71	· Evidence of Tank	Overflow:	no
			Leak Dete	ction Test Co	mpleted:	no	·Inspect concrete pad and storm		
	Indicate which bars a		Overfill Float Functional ⁵ :			Comment 3	sewer for damage or backup		
	rea (ii) and note (red (R) and note (F) if flashing.				Exhaust Stac	:k		
				Drain Stack Sump (vol. removed)			Stack Condition ⁴ :		

- 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

- 1. The protective fencing previously installed around the air lines for the leachate extraction wells were inspected following the mowing event. No issues were observed with the fences and/or the air lines.
- 2. Air conditioner turned on during the inspection.
- 3. Float overflow light sensor not working.

Data Entered By: Will Hazeltine Checked By: Molly Wagler

REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke DATE: 6/13/2023

START TIME: 6:55 AM

END TIME: 11:30 AM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668 WEATHER CONDITIONS: Cloudy

DATE LAST CALIBRATED: 6/13/2023 TEMPERATURE: 52 °F

METHOD: Standard Calibration Gases BAROMETRIC PRESSURE & TREND: 29.71 in. Hg, steady

PRESS INSTRUMENT : Manometer GROUND CONDITIONS: dry

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	7:16	0.0	27	1.3	7.6	7.2	(2)
GP-1S	7:18	0.0	>100	5.7	14.0	0.0	(2)
GP-2D	7:21	0.10	42	2.1	5.7	11.7	(1)
GP-2S	7:23	0.0	>100	5.0	13.9	0.0	(1)
GP-3	7:27	0.0	>100	9.0	14.6	4.0	(1)
GP-4	7:32	0.0	0.0	0.0	5.0	16.9	(1)
GP-5	7:36	0.0	0.0	0.0	2.8	17.4	(2)
GP-6	7:41	0.0	0.0	8.8	2.4	18.7	(1)
GP-7	7:48	0.0	0.0	0.0	2.5	18.5	(2)
GP-8	7:57	0.0	0.0	0.0	3.7	17.9	(2)
GP-9	8:02	0.0	0.0	0.0	2.2	19.0	(1)
GP-10	8:06	0.0	0.0	0.0	3.5	15.7	(1)
GP-11D	8:11	0.0	>100	6.4	13.8	0.4	(2)
GP-11S	8:13	0.0	78	3.9	11.2	0.0	(2)
GP-12D	8:20	0.0	>100	12.8	16.6	4.5	(1) Stable readings at 2 minutes.
GP-12S	8:23	0.0	0.0	0.0	5.1	14.0	(1)
GP-13D	8:28	0.0	17	0.8	5.4	12.1	(2)
GP-13S	8:30	0.0	0.0	0.0	7.7	5.1	(2)

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GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)		COMMENTS
GP-16D	8:50	0.0	0.0	0.0	0.9	19.3	(2	2)
GP-16S	8:52	0.0	0.0	0.0	2.2	19.0	(2	2)
GP-17D	8:43	0.0	0.0	0.0	3.7	15.9	(1	1)
GP-17M	8:45	0.0	0.0	0.0	2.4	18.7	(1	1)
GP-17S	8:47	0.0	0.0	0.0	3.1	18.2	(1	1)
GP-18D	8:54	0.0	0.0	0.0	4.3	14.4	(2	2)
GP-18M	8:56	0.0	0.0	0.0	3.5	16.3	(2	2)
GP-18S	8:58	0.0	0.0	0.0	5.5	8.8	(2	2)
GP-19 ⁸⁵⁻¹⁰⁰	9:44	0.0	0.0	0.0	0.0	20.8	(1	1)
GP-19 ⁵⁰⁻⁷⁰	9:46	0.0	0.0	0.0	0.9	19.9	(1	1)
GP-19 ²⁵⁻⁴⁰	9:48	0.0	0.0	0.0	0.4	20.5	(1	1)
GP19 ²⁻¹⁵	9:50	0.0	0.0	0.0	0.0	20.8	(1	1)
GP-20 ⁸⁵⁻¹⁰⁰	9:35	0.10	0.0	0.0	0.5	20.1	(2	2)
GP-20 ⁵⁰⁻⁷⁰	9:37	0.03	0.0	0.0	0.0	20.8	(2	2)
GP-20 ²⁵⁻⁴⁰	9:39	0.0	0.0	0.0	0.2	20.6	(2	2)
GP-20 ²⁻¹⁵	9:41	0.0	0.0	0.0	0.5	20.3	(2	2)
GP-21 ⁸⁵⁻¹⁰⁰	9:26	0.28	0.0	0.0	0.9	19.2	(2	2)
GP-21 ⁵⁰⁻⁷⁰	9:28	0.05	0.0	0.0	0.2	20.5	(2	2)
GP-21 ²⁵⁻⁴⁰	9:30	0.03	0.0	0.0	0.2	20.4	(2	2)
GP-21 ²⁻¹⁵	9:32	0.0	0.0	0.0	0.5	20.5	(2	2)
GP-22 ⁸⁵⁻¹⁰⁰	9:57	0.03	0.0	0.0	2.1	19.4	(2	2)
GP-22 ⁵⁰⁻⁷⁰	9:59	0.04	0.0	0.0	2.6	17.7	(2	2)
GP-22 ²⁵⁻⁴⁰	10:01	0.0	0.0	0.0	1.3	19.8	(2	2)
GP-22 ²⁻¹⁵	10:03	0.0	0.0	0.0	2.6	18.9	(2	2)

Vinadison-dyliRecords/WPMISNPJTZ445757300020000007Files for L-004Probe Monitoring Form_June.wisx

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 ⁸⁵⁻¹⁰⁰	10:08	0.0	0.0	0.0	1.2	19.7	(2)
GP-23 ⁵⁰⁻⁷⁰	10:10	0.0	0.0	0.0	2.2	18.8	(2)
GP-23 ²⁵⁻⁴⁰	10:12	0.0	0.0	0.0	4.6	16.3	(2)
GP-23 ²⁻¹⁵	10:14	0.0	0.0	0.0	3.8	17.2	(2)
GP-24 ⁸⁵⁻¹⁰⁰	10:19	0.0	0.0	0.0	13.0	4.4	(2)
GP-24 ⁵⁰⁻⁷⁰	10:21	0.0	0.0	0.0	3.2	16,7	(2)
GP-24 ²⁵⁻⁴⁰	10:23	0.0	0.0	0.0	4.5	16.5	(2)
GP-24 ²⁻¹⁵	10:25	0.0	0.0	0.0	4.0	16.0	(2)
GPW-1D	11:16	0.42	0.0	0.0	1.7	18.5	(1)
GPW-1M	11:18	0.44	0.0	0.0	1.6	18.0	(1)
GPW-1S	11:20	0.0	0.0	0.0	0.9	19.7	(1)
G-1D	7:09	0.03	>100	5.7	16.6	0.0	(1)
G-1S	7:11	0.04	>100	22.6	22.1	0.0	(1)
G-2D	8:34	0.0	0.0	0.0	3.1	15.8	(1)
G-2S	8:36	0.0	>100	8.5	17.8	0.0	(1) Stable readings at 2 minutes.
G-5	7:52	0.22	0.0	0.0	4.6	15.9	(1)
G-6	7:03	0.0	0.0	0.0	1.0	19.2	(1)
G-8	9:21	0.0	0.0	0.0	0.0	20.8	(1)
G-9	9:09	0.04	0.0	0.0	0.0	20.4	(1)
G-10	10:33	0.34	0.0	0.0	1.4	17.3	(1)
Speedway Office	7:13	0.0	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:



Entered by: J. Roelke 6/13/2023 Checked by: M. Wagler 7/5/2023

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

TRC Operator Name: T. Perkins
Date: 6/30/2023 Arrival Time: 13:30 Departure Time: 15:45

Site Conditions	Initial ¹	Final ²	Equipment		
Weather Conditions:	Some Sun, hazy	NM	Gas/Instrument Type:	NA	
Ground Condition:	Dry	NM	Serial Number:	NA	
Barometric Pressure:	29.89 in. Hg	NM	Date Last Calibrated:	NA	
Barometric Pressure Trend:	Falling	NM	Method:	Standard field calibration	
Temperature:	86	NM	Pressure Instrument:	Dwyer Series 475 Manometer	

			Landfill Gas Extraction System ³ Landfill	Gas Extraction Sy	stem Off Line		
System	Location	Tag #	Equipment Description	Set Point	Typical Range	Initial Field Reading ¹	Final Field Reading ²
			Amperage	-	3 - 4 amps	NM	
	Remote		Speed	-	1800 - 1900 rpm	NM	
Blower Motor		GHS-BLR-301	Frequency	-	30 - 35 Hz	NM	
Blower Wotor	HMI	GII3-BEK-301	Amperage	-	3 -4 amps	NM	
	HMI		Speed	-		NM	
	HMI		Hours	-	-	NM	
Blower Operating (YES). Note exce	ssive noise or issu	es observed.				-
	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
Diamandalah	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM	NM
Blower Inlet			Gas Composition - % Methane	-		NM	NM
	Lead	Camania Dant	Gas Composition - % CO2	-		NM	NM
	Local	Sample Port	Gas Composition - % Oxygen	-		NM	NM
		1	Gas Composition - % Balance	-		NM	NM
	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	NM	
Demister	Local		Slight Glass: Liquid Present	-	-		
	HMI	LS-701	Level Indication	-	-		
	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
B. B. I.	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	NM	NM
Blower Outlet	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM	NM
		Sample Port	Gas Composition - % Methane	-		NM	NM
	Lead		Gas Composition - % CO2	-		NM	NM
	Local		Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM
	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
			Gas Composition - % Methane	-	·	NM	NM
	1 1	North Sample	Gas Composition - % CO2	-		NM	NM
	Local	Port	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
Danach Herrier			Gas Composition - % Methane	-	·	NM	NM
Branch Headers		Central	Gas Composition - % CO2	-		NM	NM
	Local	Sample Port	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
			Gas Composition - % Methane	-		NM	NM
		South Sample	Gas Composition - % CO2	-		NM	NM
	Local	Port	Gas Composition - % Oxygen	-		NM	NM
		1	Gas Composition - % Balance	-		NM	NM

			Air Con	npressor Sy	stem ^{3,5,6}					
		Pres	sure Set Poin	sure Set Points			Condensate Set F	oints		
Operational Settings	Tank Low (psi)	Tank High (psi)	Well Field (psi)	On (min.)	Off (min.) Open (sec.)		Closed (min.)	Test O	peration	
		NOT OPERATING						(ye	s/no)	
Air Dryer System ⁴ Electrical Status HMI Heate						r/Air Condit	ioner			
System Operation	System Operational: NM			3-Phase Power Indicator:			Operational	Yes		
Condensate Drain Ope	Condensate Drain Operational: NM			GFI 1 Status:			Temperature 8		37	
Alarm Indictor:		NM	GFI 2 Status:			GREEN	Filter Cleaned	er Cleaned No		
Condenser Cleane	ed²:	No				Leachate Tank/	Loadout			
Dew Point I	ndicator:		Liqu	id Level (inch	nes):	35	Vis	ual Check:		
			Contact V	/DNR if level	is above	71 inches	· Evidence of Tank Overflow:		No	
			Leak Dete	ction Test Co	mpleted:	No	· Inspect concrete	pad and st	orm sewer	
00000000000000000000000000000000000000	Indicate which bars		Overfil	Overfill Float Functional			for damage or bad	ckup		
	reu (k) and note	red (R) and note (F) if flashing.		Exhaust Stack						
			Drain Stack Sump (vol. removed)			0	Stack Condition ⁶ :		Good	

^{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

- 1. Conducted cap inspection
- 2. Leachate tank overflow alarm light not functioning

Data Entered By: T. Perkins 7/17/2023 Checked By: M. Wagler 7/18/2023

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.

Fencing around GW-1 and GW-2 are damaged but still provide protection from mowing activities. See photo #5

Snow fencing was previously installed and remains in place at GW-2, GW-4, GW-7, GW-8, GW-9, GW-10, GW-11, GW-12, and GW-13 to protect Gas Extraction Well airlines during mowing events.

Condition of drainage ways:

West Drainage Ditch - An area of vegetation die off was observed at the drainage path to the north. See photo# 1. This area was previously identified

as having less positive slope than its surrounding and was regraded during 2020-2021 grading work at the site. The final post construction survey showed positive slope.

East Drainage Ditch - Remaining riprap at the northern culvert appears stable. See photo # 2.

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. Vegetation growth is observed in several reseeded areas but various areas at the eastern and southern portion of the cap show no regrowth and likely need to be reseeded. See photos #3 and #4.

Significant erosion:

No evidence if significant erosion was observed at the site.

Repeated erosion:

No evidence if significant 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 regrowth in 2023. See photo # 4.

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. See photo # 3.

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

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

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

No sediment accumulation in the basin was observed.

Attachment 2 Laboratory Analytical Report – Leachate Sample

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ANALYTICAL REPORT

PREPARED FOR

Attn: Andy Stehn TRC Environmental Corporation 21 Griffin Rd North Windsor, Connecticut 06095

Generated 7/10/2023 1:36:37 PM

JOB DESCRIPTION

Refuse LF Leachate - 457573

JOB NUMBER

500-236066-1

Eurofins Chicago 2417 Bond Street University Park IL 60484

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

Generated 7/10/2023 1:36:37 PM

Authorized for release by Sandie Fredrick, Project Manager II Sandra.Fredrick@et.eurofinsus.com (920)261-1660

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Case Narrative

Client: TRC Environmental Corporation
Project/Site: Refuse LF Leachate - 457573

Job ID: 500-236066-1

Job ID: 500-236066-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-236066-1

Receipt

The sample was received on 7/1/2023 10:30 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 3.0° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Updated sample ID to 06-30-23 per client request.

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 LF Leachate - 457573 Job ID: 500-236066-1

Client Sample ID: Leachate Tank

Lab Sample ID: 500-236066-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.1	JB	10	1.8	ug/L	1	_	6010D	Total
									Recoverable
Zinc	7.1	J	20	5.0	ug/L	1		6010D	Total
									Recoverable

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Method Summary

Client: TRC Environmental Corporation Project/Site: Refuse LF Leachate - 457573 Job ID: 500-236066-1

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 LF Leachate - 457573

Job ID: 500-236066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-236066-1	Leachate Tank	Water	06/30/23 15:30	07/01/23 10:30

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Client Sample Results

Client: TRC Environmental Corporation

Project/Site: Refuse LF Leachate - 457573

Job ID: 500-236066-1

Client Sample ID: Leachate Tank

Date Collected: 06/30/23 15:30 Date Received: 07/01/23 10:30 Lab Sample ID: 500-236066-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.43		2.0	0.43	ug/L		07/06/23 08:24	07/06/23 23:23	1
Chromium	<1.7		10	1.7	ug/L		07/06/23 08:24	07/06/23 23:23	1
Copper	4.1	JB	10	1.8	ug/L		07/06/23 08:24	07/06/23 23:23	1
Lead	<2.7		5.0	2.7	ug/L		07/06/23 08:24	07/06/23 23:23	1
Molybdenum	<3.8		10	3.8	ug/L		07/06/23 08:24	07/06/23 23:23	1
Nickel	<1.9		10	1.9	ug/L		07/06/23 08:24	07/06/23 23:23	1
Selenium	<5.3		10	5.3	ug/L		07/06/23 08:24	07/06/23 23:23	1
Silver	<1.5		5.0	1.5	ug/L		07/06/23 08:24	07/06/23 23:23	1
Zinc	7.1	J	20	5.0	ug/L		07/06/23 08:24	07/06/23 23:23	1
- Method: SW846 7470 <i>A</i>	A - Mercury (CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	0.079	ug/L		07/07/23 10:00	07/10/23 08:27	1

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Definitions/Glossary

Client: TRC Environmental Corporation Job ID: 500-236066-1

Project/Site: Refuse LF Leachate - 457573

Qualifiers

M	eta	le
IVI	σιa	IJ

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.
_	

Eisted 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

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QC Association Summary

Client: TRC Environmental Corporation

Project/Site: Refuse LF Leachate - 457573

Job ID: 500-236066-1

Metals

Prep Batch: 721843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236066-1	Leachate Tank	Total Recoverable	Water	3005A	
MB 500-721843/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-721843/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-236066-1 MS	Leachate Tank	Total Recoverable	Water	3005A	
500-236066-1 MSD	Leachate Tank	Total Recoverable	Water	3005A	
500-236066-1 DU	Leachate Tank	Total Recoverable	Water	3005A	

Prep Batch: 722085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236066-1	Leachate Tank	Total/NA	Water	7470A	
MB 500-722085/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-722085/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 722102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
500-236066-1	Leachate Tank	Leachate Tank Total Recoverable		6010D	721843	
MB 500-721843/1-A	Method Blank	Total Recoverable	Water	6010D	721843	
LCS 500-721843/2-A	Lab Control Sample	Total Recoverable	Water	6010D	721843	
500-236066-1 MS	Leachate Tank	Total Recoverable	Water	6010D	721843	
500-236066-1 MSD	Leachate Tank	Total Recoverable	Water	6010D	721843	
500-236066-1 DU	Leachate Tank	Total Recoverable	Water	6010D	721843	

Analysis Batch: 722326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-236066-1	Leachate Tank	Total/NA	Water	7470A	722085
MB 500-722085/12-A	Method Blank	Total/NA	Water	7470A	722085
LCS 500-722085/13-A	Lab Control Sample	Total/NA	Water	7470A	722085

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Job ID: 500-236066-1

Client: TRC Environmental Corporation Project/Site: Refuse LF Leachate - 457573

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-721843/1-A

Matrix: Water

Analysis Batch: 722102

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 721843

_									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.43		2.0	0.43	ug/L		07/06/23 08:24	07/06/23 23:16	1
Chromium	<1.7		10	1.7	ug/L		07/06/23 08:24	07/06/23 23:16	1
Copper	1.81	J	10	1.8	ug/L		07/06/23 08:24	07/06/23 23:16	1
Lead	<2.7		5.0	2.7	ug/L		07/06/23 08:24	07/06/23 23:16	1
Molybdenum	<3.8		10	3.8	ug/L		07/06/23 08:24	07/06/23 23:16	1
Nickel	<1.9		10	1.9	ug/L		07/06/23 08:24	07/06/23 23:16	1
Selenium	<5.3		10	5.3	ug/L		07/06/23 08:24	07/06/23 23:16	1
Silver	<1.5		5.0	1.5	ug/L		07/06/23 08:24	07/06/23 23:16	1
Zinc	<5.0		20	5.0	ug/L		07/06/23 08:24	07/06/23 23:16	1

Lab Sample ID: LCS 500-721843/2-A

Matrix: Water

Analysis Batch: 722102

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 721843

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	50.0	50.8		ug/L		102	80 - 120	
Chromium	200	200		ug/L		100	80 - 120	
Copper	250	260		ug/L		104	80 - 120	
Lead	100	101		ug/L		101	80 - 120	
Molybdenum	1000	986		ug/L		99	80 - 120	
Nickel	500	509		ug/L		102	80 - 120	
Selenium	100	93.3		ug/L		93	80 - 120	
Silver	50.0	51.5		ug/L		103	80 - 120	
Zinc	500	504		ug/L		101	80 - 120	

Lab Sample ID: 500-236066-1 MS

Matrix: Water

Analysis Batch: 722102

Client Sample ID: Leachate Tank Prep Type: Total Recoverable

Prep Batch: 721843

/ mary or Datom / ZZ roz									op Batom . E i o i o
-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cadmium	<0.43		50.0	51.4		ug/L		103	75 - 125
Chromium	<1.7		200	197		ug/L		99	75 - 125
Copper	4.1	JB	250	269		ug/L		106	75 - 125
Lead	<2.7		100	102		ug/L		102	75 - 125
Molybdenum	<3.8		1000	995		ug/L		100	75 - 125
Nickel	<1.9		500	511		ug/L		102	75 - 125
Selenium	<5.3		100	97.8		ug/L		98	75 - 125
Silver	<1.5		50.0	50.8		ug/L		102	75 - 125
Zinc	7.1	J	500	505		ug/L		100	75 ₋ 125

Lab Sample ID: 500-236066-1 MSD

Matrix: Water

Analysis Batch: 722102

Client Sample ID: Leachate Tank Prep Type: Total Recoverable

Prep Batch: 721843

	Sample S	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	<0.43		50.0	52.0		ug/L		104	75 - 125	1	20
Chromium	<1.7		200	199		ug/L		99	75 - 125	1	20
Copper	4.1	JB	250	268		ug/L		106	75 - 125	0	20
Lead	<2.7		100	103		ug/L		103	75 - 125	1	20

Eurofins Chicago

Page 11 of 17

Client: TRC Environmental Corporation Job ID: 500-236066-1

Project/Site: Refuse LF Leachate - 457573

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-236066-1 MSD

Client Sample ID: Leachate Tank Matrix: Water Prep Type: Total Recoverable Analysis Batch: 722102 Prep Batch: 721843

Sample S	Sample	Spike	MSD	MSD				%Rec		RPD
Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<3.8		1000	1000		ug/L		100	75 - 125	0	20
<1.9		500	517		ug/L		103	75 - 125	1	20
<5.3		100	99.4		ug/L		99	75 - 125	2	20
<1.5		50.0	50.8		ug/L		102	75 - 125	0	20
7.1 J	J	500	509		ug/L		100	75 - 125	1	20
	Result (<3.8 <1.9 <5.3 <1.5	Result Qualifier	Result Qualifier Added <3.8	Result Qualifier Added Result <3.8	Result Qualifier Added Result Qualifier <3.8	Result Qualifier Added Result Qualifier Unit <3.8	Result Qualifier Added Result Qualifier Unit D <3.8	Result Qualifier Added Result Qualifier Unit D %Rec <3.8	Result Qualifier Added Result Qualifier Unit D %Rec Limits <3.8	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <3.8

Lab Sample ID: 500-236066-1 DU

Matrix: Water

Analysis Batch: 722102

Client Sample ID: Leachate Tank Prep Type: Total Recoverable Prep Batch: 721843

,,		Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Cadmium	<0.43	· ———	<0.43		ug/L		NC	20
Chromium	<1.7		<1.7		ug/L		NC	20
Copper	4.1	JB	3.93	J	ug/L		4	20
Lead	<2.7		<2.7		ug/L		NC	20
Molybdenum	<3.8		<3.8		ug/L		NC	20
Nickel	<1.9		<1.9		ug/L		NC	20
Selenium	<5.3		<5.3		ug/L		NC	20
Silver	<1.5		<1.5		ug/L		NC	20
Zinc	7.1	J	<5.0		ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-722085/12-A

Matrix: Water

Analysis Batch: 722326

Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 722085**

Analyte RL **MDL** Unit Dil Fac Result Qualifier Prepared Analyzed Mercury <0.079 0.20 0.079 ug/L 07/07/23 10:00 07/10/23 07:34

MB MB

Lab Sample ID: LCS 500-722085/13-A				Clie	nt Sar	mple ID	: Lab Control Sample
Matrix: Water							Prep Type: Total/NA
Analysis Batch: 722326							Prep Batch: 722085
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury	1.98	1.95		ug/L		98	80 - 120

Eurofins Chicago

Lab Chronicle

Client: TRC Environmental Corporation Job ID: 500-236066-1

Project/Site: Refuse LF Leachate - 457573

Client Sample ID: Leachate Tank

Lab Sample ID: 500-236066-1 Date Collected: 06/30/23 15:30 **Matrix: Water**

Date Received: 07/01/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 1
Total Recoverable	Analysis	6010D		1	722102	FXG	EET CHI	07/06/23 23:23
Total/NA	Prep	7470A			722085	MJG	EET CHI	07/07/23 10:00 - 07/07/23 12:00 ¹
Total/NA	Analysis	7470A		1	722326	MJG	EET CHI	07/10/23 08:27

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation Job ID: 500-236066-1

Project/Site: Refuse LF Leachate - 457573

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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University Park IL 60484 Phone 708-534 5200 Fax 708-534 52

2417 Bond Street

🚓 eurofins

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Chain of Custody Record

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SHIP DATE 27JUN23
ACTWGT: 15 00 LB MAN
CAD: 0269688/CAFE3707
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SAMPLE RECIEPT EUROFINS CHICAGO 2417 BOND STREET

ORIGIN ID RRLA 262 JOHN ROELKE TRC 21 GRIFFIN R D NORTH

WINDSOR, CT 06095 UNITED STATES US





262) 202 5955



FedEx TRK# 6483 4233 9780 SATURDAY 12:00P T PRIORITY OVERNIGHT

X0 JOTA

60484 G



169t.

Page 16 of 17 7/10/2023

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-236066-1

Login Number: 236066 List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Creator: Scott, Snerri L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	3.0
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	

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Attachment 3 Photographic Log



Photographic Log

Client Name:
Wisconsin Department of Natural
Resources (WDNR)

Site Location: Refuse Hideaway Landfill Middleton, WI **Project No.:** TRC # 457573

Photo No.

Date 6/30/2023

Description

Western Drainage Ditch: Vegetation die off was observed at the north portion of the drainage ditch.



Photo No. Date
2 6/30/2023

Description

Eastern Drainage Ditch:
Some riprap had previously begun to deteriorate at the west side of the western culvert. Remaining riprap remains stable. Surface water is not being obstructed.





Photographic Log

Client Name:

Wisconsin Department of Natural Resources (WDNR)

Site Location:

Refuse Hideaway Landfill Middleton, WI

Project No.:

TRC # 457573

Photo No.

Date 6/30/2023

Description

Eastern Landfill Extents
Reseeding and ground
cover was previously
applied in the Fall of 2022.
Some bare spots remain
and likely need reseeding.



Photo No.

Date

4

6/30/2023

Description

Southern/Eastern Landfill Extents

Reseeding and ground cover was previously applied in the Fall of 2022. Some bare spots remain and likely need reseeding.





Photographic Log

Client Name:

Wisconsin Department of Natural Resources (WDNR)

Site Location: Refuse Hideaway Landfill Middleton, WI Project No.:

TRC # 457573

Photo No. Date 5 6/30/2023

Description

Southern Landfill Extents: GW-2 protective fencing is falling apart. Fencing still provides protection during mowing operations. GW-1 protective fencing is in the same condition as GW-2.



Photo No.	Date
6	6/30/2023

Description

Northern Landfill Extents: Cap appears to remain in good condition with full vegetation cover.

