

May 22, 2023

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

Subject: Refuse Hideaway Landfill

April 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 April 2023.

- April 12, 2023 Bi-weekly Site Inspection
- April 17, 2023 Gas Probe Monitoring
- April 24, 2023 Monthly Site Inspection

### **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 April 17, 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 April due to the issues with the electrical service to the Site.

The leachate tank level was gauged on April 12, and April 24, 2023, and contained 54 inches and 65.5 inches of leachate, respectively.

## **Cap Inspection**

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on April 24, 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

Ms. Cindy Koepke Wisconsin Department of Natural Resources May 22, 2023 Page 2

inspection form with further details is provided in Attachment 1 and a photographic log is provided in Attachment 2.

If you have any questions, please contact Andrew Stehn at astehn@trccompanies.com or 608-807-8112.

Sincerely,

**TRC** 

Thomas Perkins Project Engineer

Attachments: 1. April 2023 Monitoring Results

2. Photographic Log

Angken M. Stehn

Andrew Stehn, PE

Project Manager

# Attachment 1 April 2023 Monitoring Results

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

TRC Operator Name: J. Roelke			
Date: 4/12/2023	Arrival Time: 13:55	Departure Time	14:25
Site Conditio	ns		Equipment
Weather Conditions:	Sunny	Gas/Instrument Type:	GEMS 2000
Ground Condition:	Moist	Serial Number:	11668
Barometric Pressure:	29.80 in. Hg	Date Last Calibrated:	NM
Barometric Pressure Trend:	Falling	Method:	standard field calibration gas
Temperature:	80F	Pressure Instrument:	Dwyer Manometer

			Landfill Gas Extraction System <sup>1</sup> Landfill Ga	s System Off Line		
System	Location	Tag #	Equipment Description	Set Point	Typical Range	Field Reading
			Amperage	-	3 - 4 amps	NM
	Remote		Speed	-	1800 - 1900 rpm	NM
Blower Motor		GHS-BLR-301	Frequency	-	30 - 35 Hz	NM
Plower Motor	HMI	GU3-PLK-201	Amperage	-	3 -4 amps	NM
	HMI	Ī [	Speed	-		NM
	HMI	1	Hours	-	-	NM
Blower 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
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM
Blower Inlet		1	Gas Composition - % Methane	_		NM
		1 -	Gas Composition - % CO2	-	<del> </del>	NM
	Local	Sample Port	Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	-	<del> </del>	NM
	Local	GHS-PDI-301	Demister Differential Pressure	_	1-2 in w.c	NM
Demister	Local	3/13 / 0/-301	Slight Glass: Liquid Present		1-2 III W.C	NM
Demister	HMI	LS-701	Level Indication	-	-	NM
	HMI	PT-302	Blower Outlet Flow Pressure	-	_	NM
	HMI	TE-302	Blower Outlet Flow Flessure  Blower Outlet Temperature		50 - 90 °F	NM
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	NM
	HMI	PD1-301	Blower Outlet Flow Rate	-	180 - 190 scfm	NM
		- CUC DI 202		-	<b>-</b>	
Blower Outlet	Local	GHS-PI-302	Blower Outlet Flow Pressure			NM
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM
	Local		Gas Composition - % Methane	-		NM
		Sample Port	Gas Composition - % CO2	-		NM
		1	Gas Composition - % Oxygen	-		NM
		<del>                                     </del>	Gas Composition - % Balance	<u> </u>		NM
	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	North	Valve Position	6 turns open /6	6 turns open	NM
			Gas Composition - % Methane	-		NM
	Local	North Sample	Gas Composition - % CO2	-		NM
		Port	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
Branch Headers			Gas Composition - % Methane	-		NM
Dianich Headers	Local	Central	Gas Composition - % CO2	-		NM
	Local	Sample Port	Gas Composition - % Oxygen	-		NM
		<u> </u>	Gas Composition - % Balance	-		NM
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	NM
	Local	South	Valve Position	-	6 turns open	NM
			Gas Composition - % Methane	-	'	NM
		South Sample	Gas Composition - % CO2	-		NM
	Local	Port	Gas Composition - % Oxygen	-		NM
			Gas Composition - % Balance	_	<b> </b>	NM

		Air Compr	essor Syste	m <sup>1,3,4</sup> Air Co	ompressor	System Off Line			
		Press	sure Set Poin	ts		Condensate Set Points			
Operational Settings	Tank Low (psi)	Tank High (psi)	Well Field (psi) On (min.) Off (min.)		Open (sec.)	Closed (min.)	Test Operation		
Air Dryer S	Electrical Status			HMI Heater		ter/Air Conditioner			
System Operation	al:	YES	3-Phas	e Power Indi	cator:	of 3	Operational	Ok	
Condensate Drain Oper	ational:	YES	GFI 1 Status:		(Green / Red)	Temperature	91F		
Alarm Indictor:		OFF	GFI 2 Status:			(Green / Red)	Filter Cleaned	No	
Condenser Cleane	d²:	NO	Leachate Tank/Loadout						
Dew Point Ir	dicator:		Liquid Level (inches):		54	Visual Check:			
			Contact W	DNR if level	is above	71	· Evidence of Tank Overflow:		
-57777			Leak Dete	ction Test Co	mpleted:	No	·Inspect concrete pad and storm sewer f		
		Indicate which bars are green(G) or red (R) and note (F) if flashing.		Overfill Float Functional <sup>5</sup> :		Yes damage or backup		Jp	
	rea (ii) and note (i ) ii nasiniig.					Exhaust St	Exhaust Stack		
				Drain Stack Sump (vol. removed)		0	Stack Condition <sup>4</sup> :		

<sup>1.</sup> 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	
NM - Not Measured	

Data Entered By: T. Perkins 5/19/2023 Checked By: A. Stehn 5/19/2023

## REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke DATE: 4/17/2023

START TIME: 8:07 AM

END TIME: 12:45 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668 WEATHER CONDITIONS: Light snow

DATE LAST CALIBRATED: 4/17/2023 TEMPERATURE: 28 °F

METHOD: Standard Calibration Gases BAROMETRIC PRESSURE & TREND: 29.63 in. Hg, rising

PRESS INSTRUMENT : Manometer GROUND CONDITIONS: Snow covered

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	8:38	0.00	0.0	0.0	2.6	16.4	(2)
GP-1S	8:40	0.00	0.0	0.0	0.1	20.6	(2)
GP-2D	8:44	0.00	0.0	0.0	2.4	16.3	(1)
GP-2S	8:46	0.00	0.0	0.0	1.6	19.0	(1)
GP-3	8:49	-0.04	>100	75.4	15.6	0.0	(1)
GP-4	8:55	-0.04	0.0	0.0	0.0	20.8	(1)
GP-5	8:59	0.00	0.0	0.0	0.1	20.7	(2)
GP-6	9:04	0.00	0.0	0.0	0.0	20.8	(1)
GP-7	9:12	0.00	0.0	0.0	0.2	20.4	(2)
GP-8	9:18	0.00	0.0	0.0	2.5	18.0	(2)
GP-9	9:25	0.00	0.0	0.0	2.0	17.9	(1)
GP-10	9:28	0.00	0.0	0.0	1.9	15.2	(1)
GP-11D	9:34	0.00	0.0	0.0	0.1	20.7	(2)
GP-11S	9:36	0.00	0.0	0.0	0.3	20.4	(2)
GP-12D	9:40	-0.05	>100	13.7	14.9	5.8	(1) Stable readings at 2 minutes.
GP-12S	9:43	0.00	0.0	0.0	2.7	15.8	(1)
GP-13D	9:46	0.00	0.0	0.0	2.8	15.9	(2)
GP-13S	9:48	0.00	0.0	0.0	2.2	17.3	(2)

Page 1 of 3

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	10:06	0.00	0.0	0.0	2.8	16.2	(2)
GP-16S	10:08	0.00	0.0	0.0	3.8	12.2	(2)
GP-17D	10:00	0.00	10.0	0.5	3.7	14.7	(1)
GP-17M	10:02	0.00	20.0	1.0	4.8	11.1	(1)
GP-17S	10:04	0.00	30.0	1.5	4.0	10.8	(1)
GP-18D	10:12	0.00	0.0	0.0	3.7	15.8	(2)
GP-18M	10:14	0.00	0.0	0.0	1.3	18.6	(2)
GP-18S	10:16	0.00	0.0	0.0	0.1	20.7	(2)
GP-19 <sup>85-100</sup>	11:22	-0.03	0.0	0.0	2.1	18.0	(1)
GP-19 <sup>50-70</sup>	11:24	0.00	0.0	0.0	2.0	18.3	(1)
GP-19 <sup>25-40</sup>	11:26	0.00	0.0	0.0	2.2	18.1	(1)
GP19 <sup>2-15</sup>	11:28	0.00	0.0	0.0	2.3	18.5	(1)
GP-20 <sup>85-100</sup>	11:09	0.00	0.0	0.0	1.1	19.6	(2)
GP-20 <sup>50-70</sup>	11:11	0.00	0.0	0.0	1.2	19.3	(2)
GP-20 <sup>25-40</sup>	11:13	0.00	0.0	0.0	1.6	19.5	(2)
GP-20 <sup>2-15</sup>	11:15	0.00	0.0	0.0	1.4	19.0	(2)
GP-21 <sup>85-100</sup>	10:58	-0.11	0.0	0.0	0.6	19.9	(2)
GP-21 <sup>50-70</sup>	11:00	-0.04	0.0	0.0	1.3	19.5	(2)
GP-21 <sup>25-40</sup>	11:02	0.00	0.0	0.0	0.6	20.0	(2)
GP-21 <sup>2-15</sup>	11:04	0.00	0.0	0.0	0.2	20.4	(2)
GP-22 <sup>85-100</sup>	11:34	-0.12	0.0	0.0	2.4	18.6	(2)
GP-22 <sup>50-70</sup>	11:35	-0.10	0.0	0.0	1.6	19.4	(2)
GP-22 <sup>25-40</sup>	11:36	-0.04	0.0	0.0	1.1	19.7	(2)
GP-22 <sup>2-15</sup>	11:38	0.00	0.0	0.0	0.6	20.1	(2)
GP-23 <sup>85-100</sup>	11:42	-0.03	0.0	0.0	0.0	20.8	(2)
GP-23 <sup>50-70</sup>	11:44	0.00	0.0	0.0	0.0	20.8	(2)
GP-23 <sup>25-40</sup>	11:46	0.00	0.0	0.0	0.8	20.1	(2)
GP-23 <sup>2-15</sup>	11:48	0.00	0.0	0.0	1.2	19.4	(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-24 <sup>85-100</sup>	11:54	0.00	0.0	0.0	0.0	20.8	(2)
GP-24 <sup>50-70</sup>	11:56	0.00	0.0	0.0	1.4	19.4	(2)
GP-24 <sup>25-40</sup>	11:58	0.00	0.0	0.0	4.6	16.8	(2)
GP-24 <sup>2-15</sup>	12:00	0.00	0.0	0.0	2.4	17.3	(2)
GPW-1D	12:35	-0.68	0.0	0.0	0.0	20.8	(1)
GPW-1M	12:37	-0.64	0.0	0.0	1.6	19.0	(1)
GPW-1S	12:39	0.00	0.0	0.0	0.3	20.2	(1)
G-1D	8:27	-0.04	0.0	0.0	0.0	20.8	(1)
G-1S	8:29	-0.02	0.0	0.0	0.0	20.8	(1)
G-2D	8:53	0.00	0.0	0.0	2.0	19.2	(1)
G-2S	9:55	0.00	0.0	0.0	0.0	20.7	(1)
G-5	9:17	0.00	NM	NM	NM	NM	(1) No flow, water in probe.
G-6	8:23	0.00	0.0	0.0	0.0	20.8	(1)
G-8	10:28	0.00	0.0	0.0	0.0	20.8	(1)
G-9	10:46	0.00	0.0	0.0	0.0	20.8	(1)
G-10	12:09	-1.47	0.0	0.0	0.0	20.8	(1)
Speedway Office	8:34	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.
- (4) NM: Not Monitored

#### Key:

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

85'-100'

Entered by: J. Roelke 4/17/2023 Checked by: T. Perkins 5/19/2023

Namadison-dysPiecords/-NVPMSNP/1724575730002000002Files for I\_002Probe Monitoring April jar\_Map.Msx

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

TRC Operator Name: J. Roelke Date: 4/24/2023

Date: 4/24/2023 Arrival Time: 7:50 Departure Time: 10:00

Site Conditions	Initial <sup>1</sup>	Final <sup>2</sup>	Equipment		
Weather Conditions:	Sunny	NM	Gas/Instrument Type:	GEMS 2000	
Ground Condition:	Moist	NM	Serial Number:	11668	
Barometric Pressure:	30.21 in. Hg	NM	Date Last Calibrated:	NM	
Barometric Pressure Trend:	Rising	NM	Method:	Standard field calibration	
Temperature:	35F	NM	Pressure Instrument:	Dwyer Series 475 Manometer	

			Landfill Gas Extraction System <sup>3</sup> Landf	ill 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>
			Amperage	-	3 - 4 amps	NM	
	Remote		Speed	-	1800 - 1900 rpm	NM	
Diamer Mater		CUC DLD 201	Frequency	-	30 - 35 Hz	NM	
Blower Motor	HMI	GHS-BLR-301	Amperage	-	3 -4 amps	NM	
	HMI	1 [	Speed	-		NM	
	HMI	1	Hours	-	=	NM	
Blower Operating (	YES). Note ex	cessive noise or is	sues 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
Blower Inlet	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	NM	NM
Blower Inlet			Gas Composition - % Methane	-		NM	NM
	Lasal	Communic Domb	Gas Composition - % CO2	-		NM	NM
	Local	Sample Port	Gas Composition - % Oxygen	-		NM	NM
			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
Blower Outlet	Local	GHS-PI-302	Blower Outlet Flow Pressure	=	=	NM	NM
Blower Outlet	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	NM	NM
			Gas Composition - % Methane	-		NM	NM
	Local	Sample Port	Gas Composition - % CO2	-		NM	NM
	Local	Sample Fort	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
	Local	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
Branch Headers			Gas Composition - % Methane	-		NM	NM
5. ancii i caaci 3	Local	Central	Gas Composition - % CO2	-		NM	NM
	25001	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
	Local	South Sample	Gas Composition - % CO2	-		NM	NM
	25001	Port	Gas Composition - % Oxygen	-		NM	NM
			Gas Composition - % Balance	-		NM	NM

			Air C	ompressor	System <sup>3,5,6</sup>				
		Pres	sure Set Poin			Condensate Set Points			
Operational Settings	Tank Low (psi)	Tank High (psi)	Well Field (psi) On (min.) Off (n		Off (min.)	Open (sec.)	Closed (min.)	Test Operation	
				NOT OPER	ATING			(у	es/no)
Air Dryer S	System <sup>4</sup>			Electr	ical Status		HMI Hea	ter/Air Cond	itioner
System Operation	al:	No	3-Phas	e Power Indi	cator:	<u>3</u> of 3	Operational	Yes	
Condensate Drain Oper	rational:	NM	GFI 1 Status:		GREEN	Temperature	51F		
Alarm Indictor:		OFF	GFI 2 Status:			GREEN	Filter Cleaned	Cleaned No	
Condenser Cleane	ed²:	No	Leachate Ta			Leachate Tank	/Loadout		
Dew Point Ir	ndicator:	•	Liquid Level (inches):			65.5	65.5 Visual Check:		
			Contact V	/DNR if level	is above	71 inches	· Evidence of Tank	Overflow:	No
			Leak Dete	ction Test Co	mpleted:	No	·Inspect concret	e pad and st	orm sewer for
		Indicate which bars are green(G) or red (R) and note (F) if flashing.		Overfill Float Functional <sup>7</sup>			Yes damage or backup		
	rea (it) and note			Exhaust Sta			tack		
111111111				Drain Stack Sump (vol. removed)		0	Stack Condition <sup>6</sup> : Good		Good

<sup>1.</sup> 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: Conducted cap inspection
NM - Not Measured
The gas and leachate extraction systems remain off until the electrical service to the system is repaired.

Data Entered By: J. Roelke 4/24/2023 Checked By: T. Perkins 5/19/2023

#### 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.

Fencing around GW-1 and GW-2 are damaged but still provide protection from lawn tractor. See photo 6 and photo 7.

#### Condition of drainage ways:

West Drainage Ditch - During the April inspection, standing /slow to drain water was observed at the surface 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 - A small portion of the riprap at the west embankment of the northern culvert appears to have eroded. 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 and remains in place. See photo #3. Burrowed areas were filled in with soil at gas extraction wells GW-2, GW-4, and GW-12. New burrowing was identified at GW-4. See photo 5.

#### Significant erosion:

No evidence of significant erosion was observed at the site.

#### Repeated erosion:

No evidence of 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 5.

#### 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 sediments accumulated in the basin (June Only!): NM

# Attachment 2 Photographic Log



**Client Name:** Wisconsin Department of Natural Resources (WDNR)

Site Location: Refuse Hideaway Landfill Middleton, WI

Project No.: TRC # 457573

Photo No.

4/24/2023

Date

Description

Western Drainage Ditch: Surface water was observed at the north portion of the drainage ditch. Surface water

is flowing naturally towards the southernly riprap area.



Photo No. Date

> 2 4/24/2023

**Description** 

Eastern Drainage Ditch: Some riprap has begun to deteriorate at the west side of the western culvert. Surface water is flowing and is not being obstructed.





Client Name:

Wisconsin Department of Natural Resources (WDNR)

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

TRC # 457573

Photo No. Date

3 4/24/2023

## Description

Eastern Drainage Ditch:
Areas were reseeded and erosion mat was applied in the fall of 2022. Grass is emerging from mat. Rill erosion is emerging and will be monitored.



Photo No. Date 4/24/2023

#### **Description**

Eastern Landfill Extents:
Reseeding and ground cover was previously applied in the Fall of 2022 and remains in place. Grass is starting to emerge from mat.





Client Name:
Wisconsin Department of Natural
Resources (WDNR)

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

Photo No. Date 5 4/24/2023

## Description

Southern Landfill Extents:
Evidence of burrowing around
GW-4. GW-2, GW-4 and
GW-12 areas were filled with
soil in the Fall of 2022 and
GW-2 and GW-12 remain in
good condition.



 Photo No.
 Date

 6
 4/24/2023

#### **Description**

Southern Landfill Extents:
GW-1 protective fencing is damaged. Fencing still provides protection from mowing operations.





Client Name: Site Location:
Wisconsin Department of Natural
Resources (WDNR) Refuse Hideaway Landfill
Middleton, WI

**Project No.:** TRC # 457573

 Photo No.
 Date

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 4/24/2023

### Description

Southern Landfill Extents:
GW-2 protective fencing is in damaged. Fencing still provides protection from mowing operations.

