

December 21, 2023

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

Subject: Refuse Hideaway Landfill
November 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 November 2023.

- November 2, 2023 – Gas Probe Monitoring
- November 8, 2023 – Bi-weekly Site Inspection
- November 20, 2023 – Bi-weekly and Monthly Site Inspections
- November 20, 2023 – Cap Inspection

Gas Extraction System

The gas extraction system (GES) was restarted by TRC on September 6, 2023 following the electrical service repairs. The system was operated for the month of November.

Field data from the gas extraction well monitoring and gas probe monitoring is included in Attachment 1.

Leachate Extraction System

The leachate extraction system was restarted on October 25, 2023 following repair of the compressor system. However, based on exterior temperatures the system was kept off during the month of October. Winter operation conditions are being evaluated to ensure the compressor can operate through the winter. TRC has coordinated and discussed options for cold weather operation with subcontractors and the WDNR.

The leachate tank level was gauged during each Site visit and the following measurements were recorded:

- November 2, 2023 - 39.75 Inches
- November 8, 2023 - 30 Inches
- November 20, 2023 – 71 Inches

Cap Inspection

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on November 20, 2023. The landfill cap and stormwater conveyance features are operational. TRC will

Ms. Cindy Koepke
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continue to observe the condition of the features. An inspection form with further details is provided in Attachment 1 and a photographic log is provided in Attachment 2.

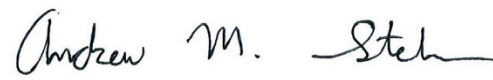
If you have any questions, please contact Andrew Stehn at astehn@trccompanies.com or 608-807-8112.

Sincerely,

TRC



Molly Wagler, EIT
Project Engineer



Andrew Stehn, PE
Project Manager

Attachments: 1. November 2023 Monitoring Results
2. Photographic Log

Attachment 1
November 2023 Monitoring Results

REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke

DATE: 11/2/2023

START TIME: 7:50 AM

END TIME: 1:15PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: sunny

DATE LAST CALIBRATED: 11/2/2023

TEMPERATURE: 31 °F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 30.19 in. Hg, rising

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	8:20	-0.02	0.0	0.0	5.5	13.0	(2)
GP-1S	8:22	0.0	0.0	0.0	0.1	20.7	(2)
GP-2D	8:26	0.00	0.0	0.0	2.4	18.8	(1)
GP-2S	8:28	0.0	0.0	0.0	1.7	19.3	(1)
GP-3	8:30	-0.01	2	0.1	6.0	18.1	(1) Stable readings at 2 minutes.
GP-4	8:36	0.0	0.0	0.0	4.2	17.2	(1)
GP-5	8:38	0.0	0.0	0.0	3.5	18.5	(2)
GP-6	8:44	0.0	0.0	0.0	2.1	19.2	(1)
GP-7	8:51	-0.07	0.0	0.0	4.1	16.4	(2)
GP-8	8:59	-0.02	0.0	0.0	6.1	16.2	(2)
GP-9	9:04	-0.02	0.0	0.0	3.6	17.7	(1)
GP-10	9:10	0.0	0.0	0.0	4.9	17.1	(1)
GP-11D	9:15	-0.02	0.0	0.0	0.8	20.0	(2)
GP-11S	9:17	0.0	0.0	0.0	2.0	19.0	(2)
GP-12D	9:22	0.0	>100	6.2	12.7	8.2	(1) Stable readings at 2 minutes.
GP-12S	9:25	-0.03	0.0	0.0	2.6	18.5	(1)
GP-13D	9:32	0.0	2	0.1	1.9	18.6	(2)
GP-13S	9:34	0.0	0.0	0.0	1.6	19.1	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	9:55	0.0	0.0	0.0	0.5	20.2	(2)
GP-16S	9:57	0.0	0.0	0.0	0.8	20.0	(2)
GP-17D	9:48	0.0	0.0	0.0	2.4	18.8	(1)
GP-17M	9:50	0.0	0.0	0.0	0.6	20.2	(1)
GP-17S	9:52	0.0	0.0	0.0	0.3	20.5	(1)
GP-18D	10:01	0.0	0.0	0.0	0.4	20.4	(2)
GP-18M	10:03	0.0	0.0	0.0	0.2	20.7	(2)
GP-18S	10:05	0.0	0.0	0.0	0.2	20.6	(2)
GP-19 ⁸⁵⁻¹⁰⁰	10:48	0.0	0.0	0.0	2.2	18.6	(1)
GP-19 ⁵⁰⁻⁷⁰	10:50	0.0	0.0	0.0	1.6	19.9	(1)
GP-19 ²⁵⁻⁴⁰	10:52	0.0	0.0	0.0	1.4	20.0	(1)
GP19 ²⁻¹⁵	10:54	0.0	0.0	0.0	1.2	20.2	(1)
GP-20 ⁸⁵⁻¹⁰⁰	10:41	0.0	0.0	0.0	0.5	20.1	(2)
GP-20 ⁵⁰⁻⁷⁰	10:43	0.0	0.0	0.0	1.1	19.9	(2)
GP-20 ²⁵⁻⁴⁰	10:45	0.0	0.0	0.0	1.3	20.0	(2)
GP-20 ²⁻¹⁵	10:47	0.0	0.0	0.0	1.6	19.7	(2)
GP-21 ⁸⁵⁻¹⁰⁰	10:32	0.0	0.0	0.0	0.4	20.5	(2)
GP-21 ⁵⁰⁻⁷⁰	10:34	0.0	0.0	0.0	0.7	20.4	(2)
GP-21 ²⁵⁻⁴⁰	10:36	0.0	0.0	0.0	1.7	19.8	(2)
GP-21 ²⁻¹⁵	10:38	0.0	0.0	0.0	1.2	20.1	(2)
GP-22 ⁸⁵⁻¹⁰⁰	10:59	0.0	0.0	0.0	2.4	18.6	(2)
GP-22 ⁵⁰⁻⁷⁰	11:01	0.0	0.0	0.0	1.9	19.0	(2)
GP-22 ²⁵⁻⁴⁰	11:03	0.0	0.0	0.0	1.9	19.2	(2)
GP-22 ²⁻¹⁵	11:05	0.0	0.0	0.0	2.4	18.8	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 ⁸⁵⁻¹⁰⁰	11:11	0.0	0.0	0.0	0.9	19.9	(2)
GP-23 ⁵⁰⁻⁷⁰	11:13	0.0	0.0	0.0	0.8	20.1	(2)
GP-23 ²⁵⁻⁴⁰	11:15	0.0	0.0	0.0	0.8	20.2	(2)
GP-23 ²⁻¹⁵	11:17	0.0	0.0	0.0	2.7	18.7	(2)
GP-24 ⁸⁵⁻¹⁰⁰	11:21	0.0	0.0	0.0	0.2	20.6	(2)
GP-24 ⁵⁰⁻⁷⁰	11:23	0.0	0.0	0.0	2.2	18.3	(2)
GP-24 ²⁵⁻⁴⁰	11:25	0.0	0.0	0.0	2.0	18.5	(2)
GP-24 ²⁻¹⁵	11:27	0.0	0.0	0.0	2.5	18.1	(2)
GPW-1D	13:01	-0.38	0.0	0.0	2.4	18.3	(1)
GPW-1M	13:03	-0.34	0.0	0.0	1.4	19.5	(1)
GPW-1S	13:05	0.0	0.0	0.0	1.8	18.9	(1)
G-1D	8:12	0.0	0.0	0.0	0.0	20.8	(1)
G-1S	8:14	0.0	0.0	0.0	1.2	19.8	(1) Stable readings at 2 minutes.
G-2D	9:37	0.0	0.0	0.0	0.3	20.4	(1)
G-2S	9:39	0.0	86	4.3	18.8	0.2	(1) Stable readings at 2 minutes.
G-5	8:57	-0.04	2	0.1	5.6	14.1	(1)
G-6	8:03	0.0	0.0	0.0	0.0	20.8	(1)
G-8	10:26	0.0	0.0	0.0	0.1	19.2	(1)
G-9	10:13	-0.04	0.0	0.0	0.4	18.8	(1)
G-10	11:32	-0.14	0.0	0.0	0.2	20.5	(1)
Speedway Office	8:18	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:

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

Entered by: J. Roelke 11/2/2023
Checked by: M. Wagler 11/20/2023

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

TRC Operator Name: J. Roelke	Date: 11/8/2023	Arrival Time: 14:37	Departure Time: 15:32
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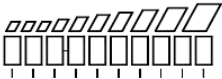
Site Conditions		Equipment	
Weather Conditions:	light rain	Gas/Instrument Type:	GEMS 2000
Ground Condition:	dry	Serial Number:	11668
Barometric Pressure:	29.69 in. Hg	Date Last Calibrated:	11/8/2023
Barometric Pressure Trend:	falling	Method:	standard field calibration gas
Temperature:	49 °F	Pressure Instrument:	Dwyer Manometer

Landfill Gas Extraction System¹

System	Location	Tag #	Equipment Description	Set Point	Typical Range	Field Reading
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	3.32
			Speed	-	1800 - 1900 rpm	1421.60
			Frequency	-	30 - 35 Hz	23.82
	HMI		Amperage	-	3 - 4 amps	3.3
			Speed	-		32
			Hours	-	-	9540

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.	-7.0
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	54
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	-6.93
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	49
	Local	Sample Port	Gas Composition - % Methane	-		7.6
			Gas Composition - % CO2	-		8.6
Gas Composition - % Oxygen			-		14.9	
Gas Composition - % Balance			-		68.9%	
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	0.1
	Local		Slight Glass: Liquid Present	-	-	None
	HMI	LS-701	Level Indication	-	-	--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	0.1
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	59
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	0.81
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	134
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	0.2
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	56
	Local	Sample Port	Gas Composition - % Methane	-		7.7
			Gas Composition - % CO2	-		8.6
			Gas Composition - % Oxygen	-		15.0
Gas Composition - % Balance			-		68.7%	
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	-6.11
	Local	North	Valve Position	6 turns open /6	6 turns open	6/6
	Local	North Sample Port	Gas Composition - % Methane	-		22.5
			Gas Composition - % CO2	-		17.5
			Gas Composition - % Oxygen	-		7.3
			Gas Composition - % Balance	-		52.7%
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	-6.08
	Local	Central	Valve Position	-	6 turns open	6/6
	Local	Central Sample Port	Gas Composition - % Methane	-		5.2
			Gas Composition - % CO2	-		6.5
			Gas Composition - % Oxygen	-		16.3
			Gas Composition - % Balance	-		72.0%
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	-6.02
	Local	South	Valve Position	-	6 turns open	6/6
	Local	South Sample Port	Gas Composition - % Methane	-		9.5
Gas Composition - % CO2			-		10.5	
Gas Composition - % Oxygen			-		13.9	
Gas Composition - % Balance			-		66.1%	

Air Compressor System ^{1,3,4} (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
Air Dryer System² (Off Line)		Electrical Status			HMI Heater/Air Conditioner			
System Operational:		YES		3-Phase Power Indicator:		3 of 3	Operational	Yes
Condensate Drain Operational:		YES		GFI 1 Status:		(Green)	Temperature	51 °F
Alarm Indicator:		OFF		GFI 2 Status:		(Green)	Filter Cleaned	No
Condenser Cleaned ² :		NO		Leachate Tank/Loadout				
Dew Point Indicator:		Liquid Level (inches):		39.75		Visual Check:		
 <p>Indicate which bars are green(G) or red (R) and note (F) if flashing.</p>		Contact WDNR if level is above		71		· Evidence of Tank Overflow:		No
		Leak Detection Test Completed:		no		· Inspect concrete pad and storm sewer for damage or backup		
		Overfill Float Functional ⁵ :		no				
				Exhaust Stack				
Drain Stack Sump (vol. removed)				0.75 gallons		Stack Condition ⁴ : 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: Heat tape is in working order, warm to the touch. Stack sump drained 0.75 gallons and was transferred into the leachate tank. The insulation for the air compressor motor was installed.

Data Entered By: J. Roelke 11/9/2023
Checked By: M. Wagler 11/20/2023

LANDFILL GAS MONITORING FORM
REFUSE HIDEAWAY GAS MONITORING PROGRAM (EPA ID: WID980610604, Facility ID: 113112010)

TECHNICIAN(S): J. Roelke
 GAS/INSTRUMENT TYPE: GEM 2000
 SERIAL NO.: 11668
 DATE LAST CALIBRATED: 11/20/2023
 METHOD: Standard Calibration Gases
 PRESSURE INSTRUMENT: Dwyer Digital Manometer
 Project # _____

STARTING DATE: 11/20/23 ENDING DATE: 11/20/23
 TIME: 8:27 AM TIME: 11:23 AM
 BAROMETRIC PRESSURE [25] 30.20 in. Hg 30.21 in. Hg
 BAROMETRIC TREND [46381] rising rising
 WEATHER CONDITIONS: cloudy cloudy
 TEMPERATURE [21] 41 °F 45 °F
 GROUND CONDITIONS [No DNR ID]: dry dry

Well No.	Time	Well Temp. (°F)	Available Header Pressure (in. W.C.)	Applied Well Pressure (in. W.C.)	Differential Pressure (in. W.C.)	Final Well Pressure (in. W.C.)	Final Deferential Pressure (in. W.C.)	Estimated Gas Flow (scfm)	Methane (% by vol.)	Carbon Dioxide (% by vol.)	Oxygen (% by vol.)	Initial Valve Setting (% open)	Final Valve Setting (% open)	Pump Counter
GW-1	9:12	40	-5.61	-0.26	0.03	-0.26	0.03	-	21.3	31.2	0.3	0.5 / 12	0.5 / 12	Counter #: NM
GW-2	9:26	40	-5.49	-0.44	0.02	-0.44	0.02	-	0.0	0.2	20.5	0.00 / 12	0.00 / 12	Counter #: NM
GW-3	9:32	52	-5.37	-5.01	0.07	-5.01	0.07	-	29.3	31.3	0.00	0.50 / 12	5.00 / 12	Counter #: NM
GW-4	9:38	48	-5.40	-1.31	0.03	-0.93	0.02	-	6.6	17.6	5.1	1.00 / 12	0.5 / 12	Counter #: NM
GW-5	9:45	42	-5.34	-1.85	0.03	-1.85	0.03	-	25.5	16.3	8.9	0.50 / 12	0.50 / 12	Counter #: NM
GW-6	10:45	44	-5.80	-3.31	0.04	-3.31	0.04	-	25.9	30.7	0.0	1.50 / 12	1.50 / 12	Counter #: NM
GW-7	10:36	44	-5.61	-5.59	0.04	-5.59	0.04	-	37.7	28.5	0.8	7.00 / 12	7.00 / 12	Counter #: NM
GW-8	10:31	44	-5.48	-5.44	0.04	-5.44	0.04	-	40.4	15.5	7.4	3.50 / 12	3.50 / 12	Counter #: NM
GW-9	10:27	42	-5.42	-0.08	0.02	-0.08	0.02	-	10.6	6.7	10.5	0.25 / 12	0.25 / 12	Counter #: NM
GW-10	10:20	44	-6.00	-0.77	0.03	-0.77	0.03	-	30.9	25.3	0.6	0.5 / 12	0.50 / 12	Counter #: NM
GW-11	10:02	44	-6.09	0.05	0.02	-5.41	0.03	-	81.5	17.8	0.0	0.5 / 12	1.50 / 12	Counter #: NM
GW-12	10:08	44	-6.08	0.04	0.02	-1.69	0.02	-	63.4	29.1	0.0	0.125 / 12	0.750 / 12	Counter #: NM
GW-13	10:14	46	-6.02	-0.02	0.02	-3.64	0.03	-	70.6	28.9	0.0	0.25 / 12	0.75 / 12	Counter #: NM

Notes:

"NA" = Data Not Available
 "NM" = Not Monitored

Data Entered By: J. Roelke 11/20/2023
 Checked By: M. Wagler 11/20/2023

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

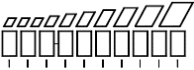
TRC Operator Name: John Roelke	Date: 11/20/2023	Arrival Time: 8:27 AM	Departure Time: 11:23 AM
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Site Conditions	Initial ¹	Final ²	Equipment	
Weather Conditions:	cloudy	cloudy	Gas/Instrument Type:	GEMS 2000
Ground Condition:	dry	dry	Serial Number:	11668
Barometric Pressure:	30.20 in. Hg	30.21 in. Hg	Date Last Calibrated:	11/20/2023
Barometric Pressure Trend:	rising	rising	Method:	Standard field calibration
Temperature:	41 °F	45 °F	Pressure Instrument:	Dwyer Series 475 Manometer

Landfill Gas Extraction System ³							
	Location	Tag #	Equipment Description	Set Point	Typical Range	Initial Field Reading ¹	Final Field Reading ²
Blower Motor	Remote	GHS-BLR-301	Amperage	-	3 - 4 amps	3.38	--
			Speed	-	1800 - 1900 rpm	1473	--
			Frequency	-	30 - 35 Hz	24.73	--
	HMI		Amperage	-	3 - 4 amps	3.3	--
			Speed	-	-	34	--
			Hours	-	-	9822	--

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.	-7	-7
	HMI	TE-301	Blower Inlet Temperature	-	50 - 90 °F	50	51
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	-6.92	-6.9
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	44	48
	Local	Sample Port	Gas Composition - % Methane	-	-	6.6	8.4
			Gas Composition - % CO2	-	-	7.7	8.1
Gas Composition - % Oxygen			-	-	15.9	15.1	
Gas Composition - % Balance			-	-	69.8%	68.4%	
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	1	--
	Local		Slight Glass: Liquid Present	-	-	no	--
	HMI	LS-701	Level Indication	-	-	--	--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	0.1	0.1
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	55	56
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	0.93	0.99
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	143	147
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	0.09	0.12
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	50	52
	Local	Sample Port	Gas Composition - % Methane	-	-	6.5	8.4
			Gas Composition - % CO2	-	-	7.6	8.1
			Gas Composition - % Oxygen	-	-	16.1	15
			Gas Composition - % Balance	-	-	69.8%	68.5%
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	-6.18	-6.07
	Local	North	Valve Position	6 turns open /6	6 turns open	6	6
	Local	North Sample Port	Gas Composition - % Methane	-	-	20	44.6
			Gas Composition - % CO2	-	-	16.1	21.1
			Gas Composition - % Oxygen	-	-	8.2	5
			Gas Composition - % Balance	-	-	55.5%	29.3%
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	-5.96	-5.88
	Local	Central	Valve Position	-	6 turns open	6	6
	Local	Central Sample Port	Gas Composition - % Methane	-	-	4.4	4.3
			Gas Composition - % CO2	-	-	5.7	5.9
			Gas Composition - % Oxygen	-	-	17.4	16.4
			Gas Composition - % Balance	-	-	72.5%	73.4%
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	-6.12	-6.05
	Local	South	Valve Position	-	6 turns open	6	6
	Local	South Sample Port	Gas Composition - % Methane	-	-	8	7.6
			Gas Composition - % CO2	-	-	9.1	8.8
Gas Composition - % Oxygen			-	-	15.2	14.8	
Gas Composition - % Balance			-	-	67.7%	68.8%	

Air Compressor System ^{3,5,6} (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 (yes/no)							
Air Dryer System⁴ (Off Line)		Electrical Status			HMI Heater/Air Conditioner			
System Operational:		YES	3-Phase Power Indicator:		3 of 3	Operational	Yes	
Condensate Drain Operational:		NO	GFI 1 Status:		GREEN	Temperature	45 °F	
Alarm Indicator:		YES	GFI 2 Status:		GREEN	Filter Cleaned	no	
Condenser Cleaned ² :		NO	Leachate Tank/Loadout					
Dew Point Indicator:		Liquid Level (inches):		30	Visual Check:			
 <p>Indicate which bars are green(G) or red (R) and note (F) if flashing.</p>	Contact WDNR if level is above		71 inches	Evidence of Tank Overflow:				
	Leak Detection Test Completed:		no	Inspect concrete pad and storm sewer for damage or backup				
	Overfill Float Functional ⁷		Yes	Exhaust Stack				
	Drain Stack Sump (vol. removed)		0 gallons	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: Heat tape is in working order, warm to the touch. Leachate pumps were tested on 10/27/23, and all pumps were in working order.
 NM - Not Measured

Data Entered By: J. Roelke 11/20/2023

Checked By: M. Wagler 11/20/2023

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:
<p>Cap integrity:</p> <ul style="list-style-type: none"> - Cap integrity is acceptable - Fencing around GW-1 and GW-2 is damaged but still provides well protection from mowing operations (see photo #6). - GW-2 and GW-4 on the south side have wildlife burrowing inside the fencing (see photo #5) - Snow fencing was installed to protect the airlines for the Gas Extraction Wells during mowing events at GW-2, GW-4, GW-7, GW-8, GW-9, GW-10, GW-11, GW-12, GW-13 (see photo #5 & #7). Protective fencing remains in place.
<p>Condition of drainage ways:</p> <p>West Drainage Ditch - During the May inspection, areas of vegetation die off were observed at the drainage path to the north. This area was previously regraded during the 2020-2021 grading work at the site. Currently, the area showed improvement but will still be monitored moving forward.</p> <p>East Drainage Ditch - Drainage ways are acceptable with minimal to no changes from previous conditions aside from those described below.</p>
<p>Extent of vegetation cover:</p> <p>Vegetation cover is acceptable over the majority of the site. Various areas were reseeded and ground cover was applied in the fall of 2022. Some bare spots were observed (see photo #3 and #4). Per discussion with the WDNR, TRC will evaluate the areas in Spring of 2024 and apply seed as needed at that time.</p>
<p>Significant erosion:</p> <p>No evidence if significant erosion was observed at the site.</p>
<p>Repeated erosion:</p> <p>No evidence if significant erosion was observed at the site.</p>
<p>Vegetation die-off:</p> <p>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 and apply seed as needed in 2024. (see photo #1).</p>
<p>Maintain surface water conveyances and the sedimentation basin by completing the following:</p> <p>Inspect drainage ditches for erosion, blockages, and vegetation, describe and note any issues:</p> <p>Evidence of erosion at the eastern drainage ditch above the sediment basin was observed. Vegetation is in place, but ruts are starting to form (See photo #2). TRC will continue to monitor the area.</p>
<p>Inspect sedimentation basin banks and outfalls for erosion, describe and note any issues:</p> <p>No erosion or other issues at sedimentation basin banks or outfalls.</p>
<p>Measure the distance between the invert of the sedimentation basin outlet and the top of the sediments accumulated in the basin (June Only!): NM</p>
<p>Inspected By: J. Roelke 11/20/23</p> <p>Checked By A.Stehn 12/21/23</p>

Attachment 2
Photographic Log

Photographic Log

Client Name: Wisconsin Department of Natural Resources (WDNR)	Site Location: Refuse Hideaway Landfill Middleton, WI	Project No.: TRC # 457573
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Photo No. 1	Date 11/20/2023	
Description <u>Eastern Drainage Ditch:</u> Bare spots are present to the north, above the drainage way and will likely require reseeding.		

Photo No. 2	Date 11/20/2023	
Description <u>Eastern Drainage Ditch:</u> Evidence of erosion starting to occur was observed at the north portion of the eastern drainage ditch leading to the sediment basin. Vegetation is still intact but ruts are starting to form.		

Photographic Log

Client Name: Wisconsin Department of Natural Resources (WDNR)		Site Location: Refuse Hideaway Landfill Middleton, WI	Project No.: TRC # 457573
Photo No. 3	Date 11/20/2023		
Description <u>Eastern Landfill Extents</u> Reseeding and ground cover was previously applied in the Fall of 2022. Some bare spots remain and will likely require reseeding.			
Photo No. 4	Date 11/20/2023		
Description <u>Eastern Landfill Extents</u> Reseeding and ground cover was previously applied in the Fall of 2022. Some bare spots remain and will likely require reseeding.			

Photographic Log




Client Name: Wisconsin Department of Natural Resources (WDNR)		Site Location: Refuse Hideaway Landfill Middleton, WI	Project No.: TRC # 457573
Photo No. 5	Date 11/20/2023		
Description <u>Southern Landfill Extents</u> GW-2 and GW-4 have burrowing from wildlife inside fencing.			

Photo No. 6	Date 11/20/2023		
Description <u>Southern Landfill Extents:</u> GW-1 protective fencing is falling apart. Fencing still provides protection during mowing operations. GW-1 protective fencing is in the same condition as GW-2.			

Photographic Log

Client Name: Wisconsin Department of Natural Resources (WDNR)		Site Location: Refuse Hideaway Landfill Middleton, WI	Project No.: TRC # 457573
Photo No. 7	Date 11/20/2023		
Description <u>Northern Landfill Extents:</u> Cap remains in good condition with full vegetation cover.			