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May 21, 2024

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

Subject: Refuse Hideaway Landfill
April 2024 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 2024.

- April 4, 2024 – Gas Probe Monitoring
- April 10, 2024 – GES Restart
- April 15, 2024 – Air Compressor Maintenance (Oil and Filters)
- April 18, 2024 – Site Inspections
  - Bi-weekly
  - Monthly
  - Quarterly
- April 18, 2024 – Cap Inspection
- April 25 – 30, 2024 – Leachate Extraction System Restart and Operation

Gas Extraction System

The gas extraction system (GES) was operational until Aprill 2, 2024 when a utility outage occurred causing a shutdown. The system was restarted on April 4, 2024 and a VFD fault was activated. The blower was left off until further inspection could be conduct on April 10, 2024. The system was restarted on April 10, 2024 following inspection and was operational with no issues observed. The system operated for the remainder of the month of April.

Field data from the gas extraction well and gas probe monitoring conducted in April 2024, are included in Attachment 1.

Leachate Extraction System

Based on projected cold weather conditions the leachate extraction system was scheduled to be restarted for the season on April 25, 2024, and operated for the remainer of the month. Prior to/during startup TRC conducted the following maintenance tasks and pre-checks:

April 15, 2024

- The oil in the air compressor system was replaced and the compressor filter was inspected.

April 18, 2024

- The depth to leachate was measured at each leachate extraction well with a pump installed. The depth to leachate could not be measured in well GW-12 as the probe caught on internal equipment and could not be lowered to the leachate. Measurements are included in Attachment 1 (Landfill Gas Monitoring Form).

- Each leachate extraction well with a pump system includes a cycle counter, each counter was recorded prior to system startup and notes are included in Attachment 1 (Landfill Gas Monitoring Form).

April 25, 2024

- The inline filters and regulators between the air compressor and air dryer and air dryer and the well field were inspected, and no changes were required.

- A new timer was installed on the solenoid valve for the condensate auto drain on the air compressor tank. The valve and timer were checked and operational.

- The compressor system was started with all valves in the closed position and initial operation was monitored. The compressor motor and pump started and operated until the tank pressure increased to approximately 175 pounds per square inch (PSI). The system was monitored for 15 minutes and no significant pressure drop was observed.

- While the compressor motor and pump were operating, the overfill float installed in the leachate tank was checked. When the overfill float was triggered, the compressor system shutdown and the visual alarm light illuminated properly.

- The air dryer system was restarted. The valve between the air compressor and air dryer was opened and a small leak was observed at the pressure regulator. The fitting was tightened, and the leak was resolved. The regulator was set to 50 PSI. The automatic condensate for the air dryer system was checked and operational.

- The airline valves at the 11 leachate collection wells were closed and the valve between the air dryer and the well field was opened to check the air conveyance lines between the system skid and each well. The air compressor started back up and operated for approximately 8 to 9 minutes, building up air pressure in the air convenance lines. The compressor motor shut off and the system was monitored for 15 minutes. Minimal to no pressure drop was observed indicating that no significant air leaks in the conveyance lines were present.

- The compressed air valves for the four pumps (GW-1, GW-2, GW-4, and GW-5) along the southern extraction branch were opened and each pump airline, inline filter regulator, and cycle counter were inspected for proper operation and leaks. Pressure at each regulator was inspected and set between 40 and 50 PSI.

- The compressed air valves for the three pumps (GW-7, GW-8, and GW-9) along the central branch and four pumps (GW-10, GW-11, GW-12, and GW-13) along the northern branch were

opened and each pump airline, inline filter regulator, and cycle counter were inspected for proper operation and leaks. Pressure at each regulator was inspected and set between 40 and 50 PSI.

- The air compressor cycle time continued to be monitored and the tank pressure dropped to 50 PSI and was continuously running and not able to build sufficient pressure to shut the compressor motor off. Pumps along the central and north leg were closed to allow the compressor system to catch up.

- The compressor system cycling on/off frequency was monitored and pumps GW-7, GW-8, GW-9, and GW-10 were slowly brought back online in conjunction with the southern branch pumps which remained in operation. Pumps GW-11, GW-12, and GW-13 were left off to allow for the leachate level in the landfill to begin to decrease but not over operate the air compressor system. Upon departure, the compressor system was running for 5 to 6 minutes to build tank pressure to 175 PSI and the pumps would deplete the tank pressure to 150 PSI in approximately 2 minutes, at which the compressor would start up again and continue this cycle.

Following an initial day of operation the leachate extraction system continued to be monitored until the system was fully operational. The below provides a summary of the observations and operations of the system through the end of April 2024.

April 26, 2024

- TRC checked the leachate extraction system, and the air compressor cycle time had adjusted from 5 to 6 minutes on/ 2 minutes off to 2 minutes on/ 4 to 5 minutes off.

- The 8 pumps in operation were checked and the cycling at 6 of the 8 pumps had decreased reducing the demand for compressed air.

- The observed leachate level was approaching the tank high level alarm set point of approximately 110 inches, so the remaining pumps along the northern branch were left offline until the leachate tank could be pumped out.

April 27, 2024

- TRC checked the leachate extraction system, and the system was shutoff upon arrival due to the tank high level float alarm. TRC shut down the compressor system until the leachate tank could be pumped out.

April 29, 2024

- A-1 Sewer removed 19,798 gallons of leachate from the holding tank.

- TRC restarted the compressor system with only the south branch pumps in operation. The central and northern branch pumps were slowly brought back online. However, based on observed operation and on/off cycling for the compressor, the central branch pumps were shut down and the northern branch pumps were left turned on to allow for leachate removal in wells

GW-10 through GW-13, but to not over operate the compressor system. The four southern branch pumps also remained online in conjunction with the northern branch pumps.

April 30, 2024

- A-1 Sewer removed additional leachate from holding tank. The quantity is unknown as TRC did not see A-1 Sewer personnel while onsite.

- Following inspection of the leachate tank, TRC observed the air compressor and blower system shutting down. No alarm condition was present on the human machine interface (HMI) screen. The alarm shutdown/reset was initiated and both systems restarted and operated. The leachate tank high level float was tested and operational.

- The southern and northern pumps were checked and cycling had reduced from the previous day and so the remaining three pumps for the central branch (GW-7 through GW-9) were restarted. The compressor system on/off cycling varied as pumps were operated but cycle time was recorded at approximately 2-3 minutes on and 4 minutes off upon departure.

The leachate tank level was gauged during Site visits and the following measurements and observations were recorded:

- April 18, 2024 – 40 Inches
- April 25, 2024 – 15 inches (09:30 prior to pump start up)
- April 25, 2024 – 39 inches (13:20 – 8 of 11 pumps operating)
- April 26, 2024 – 87.5 inches (09:00 – 8 of 11 pumps operating)
- April 26, 2024 – 95 inches (14:20 – 8 of 11 pumps operating)
- April 27, 2024 – 117 inches (09:00 – System Shutdown)
- April 29, 2024 – 30 inches (09:00 – Following A-1 Sewer Removal)
- April 29, 2024 – 50 inches (13:00 – 8 of 11 pumps operating)
- April 30, 2024 – 40 inches (08:15 – Following A-1 Sewer Removal)

Cap Inspection

TRC conducted a monthly inspection of the landfill cap and stormwater conveyance features on April 18, 2024. The landfill cap and stormwater conveyance features are operational. Five areas were identified as needing reseeding. TRC will 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. April 2024 Monitoring Results
2. Photographic Log

Attachment 1

April 2024 Monitoring Results

REFUSE HIDEAWAY LANDFILL
GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke

DATE: 4/4/2024

START TIME: 7:49 AM

END TIME: 1:50 PM

GAS/INSTRUMENT TYPE: **GEM 2000**

SERIAL NO.: 11668

DATE LAST CALIBRATED: 4/4/2024

METHOD: Standard Calibration Gases

PRESS INSTRUMENT : Manometer

WEATHER CONDITIONS: Cloudy/Flurries

TEMPERATURE: 32 °F

BAROMETRIC PRESSURE & TREND: 29.66 in. Hg, rising

GROUND CONDITIONS: saturated

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	8:47	0.04	0.0	0.0	2.5	17.6	(2)
GP-1S	8:49	0.05	0.0	0.0	0.0	20.9	(2)
GP-2D	8:54	0.09	0.0	0.0	1.2	19.5	(1)
GP-2S	8:56	0.0	0.0	0.0	0.4	20.5	(1)
GP-3	8:59	0.00	0.0	0.0	2.5	4.5	(1)
GP-4	9:05	0.13	0.0	0.0	0.9	19.9	(1)
GP-5	9:08	0.00	0.0	0.0	0.2	20.7	(2)
GP-6	9:15	0.06	0.0	0.0	0.1	20.6	(1)
GP-7	9:21	0.08	0.0	0.0	0.4	20.2	(2)
GP-8	9:29	0.0	0.0	0.0	1.2	19.4	(2)
GP-9	9:34	0.16	0.0	0.0	1.4	19.3	(1)
GP-10	9:39	0.0	0.0	0.0	1.4	18	(1)
GP-11D	9:44	0.05	0.0	0.0	0.1	20.8	(2)
GP-11S	9:46	0.0	0.0	0.0	0.3	20.5	(2)
GP-12D	9:51	0.00	>100	17.3	22.6	0	(1) Stable readings at 2 minutes.
GP-12S	9:54	0.0	0.0	0.0	0.2	20.7	(1)
GP-13D	10:01	0.0	0.0	0.0	0.6	20.3	(2)
GP-13S	10:03	0.0	0.0	0.0	0.9	20.1	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	10:22	0.0	0.0	0.0	0.2	20.6	(2)
GP-16S	10:24	0.0	0.0	0.0	0.3	20.5	(2)
GP-17D	10:15	0.0	0.0	0.0	2.4	17.7	(1)
GP-17M	10:17	0.0	0.0	0.0	0.2	20.6	(1)
GP-17S	10:19	0.0	0.0	0.0	0.1	20.7	(1)
GP-18D	10:27	0.0	0.0	0.0	0.4	20.3	(2)
GP-18M	10:29	0.0	0.0	0.0	0.1	20.7	(2)
GP-18S	10:31	0.0	0.0	0.0	0.0	20.9	(2)
GP-19$^{85-100}$	11:15	0.00	0.0	0.0	1.2	19.7	(1)
GP-19$^{50-70}$	11:17	0.0	0.0	0.0	0.9	20.1	(1)
GP-19$^{25-40}$	11:19	0.0	0.0	0.0	1.4	19.5	(1)
GP19$^{2-15}$	11:21	0.0	0.0	0.0	0.7	20.2	(1)
GP-20$^{85-100}$	11:06	0.0	0.0	0.0	0.4	20.3	(2)
GP-20$^{50-70}$	11:08	0.0	0.0	0.0	0.7	20.1	(2)
GP-20$^{25-40}$	11:10	0.0	0.0	0.0	1.3	19.6	(2)
GP-20$^{2-15}$	11:12	0.0	0.0	0.0	1.4	19.4	(2)
GP-21$^{85-100}$	10:57	0.00	0.0	0.0	0.1	20.7	(2)
GP-21$^{50-70}$	10:59	0.00	0.0	0.0	0.4	20.3	(2)
GP-21$^{25-40}$	11:01	0.0	0.0	0.0	0.1	20.8	(2)
GP-21$^{2-15}$	11:03	0.0	0.0	0.0	0.9	20.0	(2)
GP-22$^{85-100}$	11:26	0.09	0.0	0.0	0.1	20.8	(2)
GP-22$^{50-70}$	11:28	0.07	0.0	0.0	0.6	20.3	(2)
GP-22$^{25-40}$	11:30	0.00	0.0	0.0	1.0	20.0	(2)
GP-22$^{2-15}$	11:32	0.0	0.0	0.0	1.9	18.9	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23$^{85-100}$	11:37	0.06	0.0	0.0	0.4	20.3	(2)
GP-23$^{50-70}$	11:39	0.04	0.0	0.0	0.5	20.2	(2)
GP-23$^{25-40}$	11:40	0.0	0.0	0.0	8.9	10.1	(2)
GP-23$^{2-15}$	11:42	0.0	0.0	0.0	1.4	19.5	(2)
GP-24$^{85-100}$	11:47	0.9	0.0	0.0	9.1	9.7	(2)
GP-24$^{50-70}$	11:49	0.6	0.0	0.0	1.4	19.2	(2)
GP-24$^{25-40}$	11:51	0.3	0.0	0.0	0.8	20.1	(2)
GP-24$^{2-15}$	11:53	0.0	0.0	0.0	2.1	18.7	(2)
GPW-1D	13:40	0.56	0.0	0.0	0.4	20.3	(1)
GPW-1M	13:42	0.42	0.0	0.0	0.8	20.1	(1)
GPW-1S	13:44	0.0	0.0	0.0	0.5	20.4	(1)
G-1D	8:31	0.02	0.0	0.0	0.0	20.9	(1)
G-1S	8:33	0.0	0.0	0.0	0.2	20.7	(1)
G-2D	10:09	0.0	0.0	0.0	0.5	20.2	(1)
G-2S	10:11	0.0	0.0	0.0	0.0	20.9	(1)
G-5	9:26	0.0	NM	NM	NM	NM	(1) No flow, water in probe.
G-6	8:26	0.97	0.0	0.0	0.9	20	(1)
G-8	10:53	0.0	0.0	0.0	0.5	20.3	(1)
G-9	10:39	0.0	0.0	0.0	0.1	20.8	(1)
G-10	11:59	1.10	0.0	0.0	0.2	20.7	(1)
Speedway Office	8:44	0.0	0.0	0.0	0.0	20.9	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 4/4/2024
Checked by: M. Wagler 5/15/2024

LANDFILL GAS MONITORING FORM

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

			STARTING	ENDING
TECHNICIAN(S):	J. Roelke	DATE:	4/18/24	4/18/24
GAS/INSTRUMENT TYPE:	GEM 2000	TIME:	7:00 AM	10:30 AM
SERIAL NO.:	11668	BAROMETRIC PRESSURE [25]	30.04 in. Hg	30.06in. Hg
DATE LAST CALIBRATED:	4/18/2024	BAROMETRIC TREND [46381]	rising	rising
METHOD:	Standard Calibration Gases	WEATHER CONDITIONS:	cloudy	light rain
PRESSURE INSTRUMENT:	Dwyer Digital Manometer	TEMPERATURE [21]	43 °F	46 °F
Project # 459573.0006.000		GROUND CONDITIONS [No DNR ID]:	moist	moist

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	Depth to Leachate (FT- BTOC)
GW-1	7:38	40	-6.5	-5.3	0.03	-5.3	0.03	11.1	11.3	23.0	1.4	0.5 / 12	0.5 / 12	Counter #: 9998	32.96
GW-2	7:49	40	-6.2	-1.4	0.01	-1.4	0.01	6.4	0.0	0.1	20.8	0.0 / 12	0.0 / 12	Counter #: 69718	44.21
GW-3	8:00	48	-6.3	-6.2	0.03	-6.3	0.05	14.4	35.0	32.2	0.0	5.0 / 12	6.0 / 12	Counter #: No Pump	No Pump
GW-4	8:11	44	-6.4	-3.5	0.02	-2.6	0.02	9.0	10.3	11.8	11.0	0.5 / 12	0.25 / 12	Counter #: 73755	32.27
GW-5	8:22	42	-6.3	-0.6	-0.01	-0.6	0.01	6.4	22.3	15.8	10.1	0.25 / 12	0.25 / 12	Counter #: 231184	35.09
GW-6	9:37	42	-6.5	-2.7	0.01	-2.7	0.01	6.4	30.2	32.4	0.0	1.0 / 12	1.0 / 12	Counter #: No Pump	No Pump
GW-7	9:31	44	-6.5	-6.5	0.03	-6.5	0.03	11.1	34.9	17.3	7.4	7.0 / 12	7.0 / 12	Counter #: 83160	38.68
GW-8	9:25	46	-6.5	-6.5	0.03	-6.5	0.03	11.1	40.1	13.7	4.9	9.0 / 12	9.0 / 12	Counter #: 76755	39.79
GW-9	9:18	46	-6.4	-0.1	0.01	-0.1	0.01	6.4	9.4	5.4	19.4	0.125 / 12	0.125 / 12	Counter #: 56240	43.54
GW-10	9:09	44	-6.5	-0.8	0.01	-0.8	0.01	6.4	26.8	20.8	2.7	0.50 / 12	0.50 / 12	Counter #: 17125	47.05
GW-11	8:38	48	-6.7	-1.2	0.02	-0.6	0.02	9.0	4.7	3.4	17.2	0.25 / 12	0.125 / 12	Counter #: 27690	39.17
GW-12	8:49	46	-6.6	-1.1	0.01	-0.6	0.01	6.4	13.6	8.5	15.0	0.25 / 12	0.125 / 12	Counter #: 96671	NM(4)
GW-13	8:59	48	-6.5	-2.1	0.02	-0.8	0.01	6.4	18.5	12.8	12.7	0.25 / 12	0.125 / 12	Counter #: 37283	43.86

Notes:

(1): Sample port frozen and no measurement taken.

(2): Air compressor system was down but pump counter cycle numbers were reported as to record baseline for future restart.

(3): Flowrate calculated LANDTEC's Flow Charts provided in the ACCU-Flo Wellhead Installation and Operation Manual.

(4): Depth to leachate could not be measured, probe could not be installed past internal pump equipment.

"NA" = Data Not Available

"NM" = Not Monitored

Data Entered By: J. Roelke 4/ 18 /2024

Checked By: M. Wagler 5/15/2024

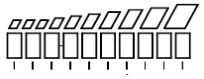
Monthly/Quarterly System Inspection Log
Landfill Gas Extraction and Leachate Pump System
WDNR - Refuse Hideaway Landfill
Middleton, Wisconsin

TRC Operator Name: John Roelke		
Date: 4/18/2024	**Arrival Time: 7:00 AM**	**Departure Time: 10:30 PM**

Site Conditions	Initial[1]	Final[2]	Equipment	
Weather Conditions:	cloudy	light rain	Gas/Instrument Type:	GEMS 2000
Ground Condition:	moist	moist	Serial Number:	11668
Barometric Pressure:	30.04 in. Hg	30.06in. Hg	Date Last Calibrated:	4/18/2024
Barometric Pressure Trend:	rising	rising	Method:	Standard field calibration
Temperature:	43°F	46°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	3.19	--
			Speed	-	1800 - 1900 rpm	999.8	--
			Frequency	-	30 - 35 Hz	16.73	--
	HMI		Amperage	-	3 -4 amps	3.2	--
	HMI		Speed	-		19	--
	HMI		Hours	-	-	13112	--
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	48	50
	Local	GHS-PI-301	Blower Inlet Vacuum	7 in. w.c.	7 in. w.c.	-6.99	-6.91
	Local	GHS-TI-301	Blower Inlet Temperature	-	50 - 90 °F	44	50
	Local	Sample Port	Gas Composition - % Methane	-		9.5	9.8
			Gas Composition - % CO2	-		9.0	9.5
			Gas Composition - % Oxygen	-		14.9	14.8
			Gas Composition - % Balance	-		66.6%	65.9%
Demister	Local	GHS-PDI-301	Demister Differential Pressure	-	1-2 in w.c	2	--
	Local		Slight Glass: Liquid Present	-	-	no	--
	HMI	LS-701	Level Indication	-	-	--	--
Blower Outlet	HMI	PT-302	Blower Outlet Flow Pressure	-	-	0.0	0.0
	HMI	TE-302	Blower Outlet Temperature	-	50 - 90 °F	54	56
	HMI	PDT-301	Blower Outlet Flow Differential Pressure	-	1-2 in w.c	0.30	0.24
	HMI	-	Blower Outlet Flow Rate	-	180 - 190 scfm	81	80
	Local	GHS-PI-302	Blower Outlet Flow Pressure	-	-	0.03	0.03
	Local	GHS-TI-302	Blower Outlet Temperature	-	50 - 90 °F	50	50
	Local	Sample Port	Gas Composition - % Methane	-		9.5	9.8
			Gas Composition - % CO2	-		8.9	9.5
			Gas Composition - % Oxygen	-		14.8	14.8
			Gas Composition - % Balance	-		66.8%	65.9%
Branch Headers	Local	North	North Branch Vacuum	-	6 - 7 in w.c.	-6.80	-6.73
	Local	North	Valve Position	6 turns open /6	6 turns open	6	6
	Local	North Sample Port	Gas Composition - % Methane	-		14.8	24
			Gas Composition - % CO2	-		10.4	17.9
			Gas Composition - % Oxygen	-		12.5	5.8
			Gas Composition - % Balance	-		62.3%	52.3%
	Local	Central	Central Branch Vacuum	-	6 - 7 in w.c.	-6.75	-6.68
	Local	Central	Valve Position	-	6 turns open	6	6
	Local	Central Sample Port	Gas Composition - % Methane	-		2.2	2.3
			Gas Composition - % CO2	-		2.4	2.5
			Gas Composition - % Oxygen	-		19.5	19.6
			Gas Composition - % Balance	-		75.9%	75.6%
	Local	South	South Branch Vacuum	-	6 - 7 in w.c.	-6.79	-6.72
	Local	South	Valve Position	-	6 turns open	6	6
	Local	South Sample Port	Gas Composition - % Methane	-		15.9	16.8
			Gas Composition - % CO2	-		15.5	16.5
			Gas Composition - % Oxygen	-		10.5	10.2
			Gas Composition - % Balance	-		58.1%	56.5%

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 System[4]		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 Indictor:	YES	GFI 2 Status:	GREEN	Filter Cleaned	NO
Condenser Cleaned[2]:	NO	**Leachate Tank/Loadout**			
Dew Point Indicator:		Liquid Level (inches):	40	Visual Check:	
	Indicate which bars are green(G) or red (R) and note (F) if flashing.	***Contact WDNR if level is above***	71 inches	· Evidence of Tank Overflow:	No
		Leak Detection Test Completed:	no	· Inspect concrete pad and storm sewer for damage or backup. Good	
		Overfill Float Functional[7]	Yes		
		Exhaust Stack			
		Drain Stack Sump (vol. removed)	0.25 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: Lateral Well East (LWE) 4" cap is cracked is pulling in oxygen into the Central Header. This is reflected by the low methane and high oxygen levels. The air compressor's heat tape and insulation cover was removed and put in storage. Cap inspection was completed.

Quarterly Tasks:

Air compressor oil changed on 4/15/2024.
Landfill signage checked and visible.
Air compressor filter checked and does not need replacement.
Filter regulators to be checked during air compressor startup.
Locks for gates checked and operational.

Data Entered By: J. Roelke 4/18/2024
Checked By: M. Wagler 5/15/2024

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 is damaged but still provides well protection from mowing operations (see photo #6). -GW-2 and GW-3 on the south side have wildlife burrowing inside the fencing. GW-13 on the north side has burrowing outside the fence. (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 #6 and #7 as example). Protective fencing remains in place.
Condition of drainage ways: West Drainage Ditch - During the April 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. East Drainage Ditch - Drainage ways are acceptable with minimal to no changes from previous conditions aside from those described below.
Extent of vegetation cover: Vegetation cover is acceptable over the majority of the site (see photo #7). Various areas were reseeded and ground cover was applied in fall of 2022. Some bare spots were observed (see photo #1, #3 and #4). Per discussion with the WDNR, TRC will apply seed and erosion mat in May 2024 in select areas.
Significant erosion: No evidence if significant erosion was observed at the site. However, evidence of erosion at the eastern drainage ditch above the sediment basin continues to get worse.
Repeated erosion: Evidence of erosion at the eastern drainage ditch above the sediment basin continues to get worse when heavy rain events occur.
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. TRC will continue to monitor and apply seed in select areas in May 2024. (see photo #1, #3, #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 erosion at the eastern drainage ditch above the sediment basin was observed. Vegetation is in place, but ruts are starting to from (See photo #2). TRC will continue to monitor the area.
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

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
1	4/18/2024

Description

Eastern Drainage Ditch:
Bare spots are present to the north, above the drainage way and will require reseeding.

Photo No.	Date
2	4/18/2024

Description

Eastern Drainage Ditch:
Evidence of erosion starting to occur 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:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
3	4/18/2024

Description

Eastern Landfill Extents

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

Photo No.	Date
4	4/18/2024

Description

Eastern Landfill Extents

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

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
5	4/18/2024

Description

Southern Landfill Extents

GW-2, GW-3 have burrowing from wildlife inside fencing. GW-13 has burrowing from wildlife outside fencing.

Photo No.	Date
6	4/18/2024

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.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Natural Resources (WDNR)	Refuse Hideaway Landfill Middleton, WI	TRC # 457573

Photo No.	Date
7	4/18/2024

Description

Northern Landfill Extents:
Cap remains in good condition with full vegetation cover.