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December 9, 2020

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

Subject: Refuse Hideaway Landfill  
December 2020 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on December 7, 2020. Attached are the monitoring results. Pressure, methane, carbon dioxide, oxygen, and methane (% LEL) are measured during the monthly event.

The next monthly gas probe monitoring event will take place in January 2021.

If you have any questions, please contact me at [kvater@trccompanies.com](mailto:kvater@trccompanies.com) or 608-826-3663.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Katherine Vater".

Katherine Vater, PE  
Project Manager

Attachments

**REFUSE HIDEAWAY LANDFILL  
GAS PROBE MONITORING FORM**

TECHNICIAN(S): J. Roelke

DATE: 12/7/2020

START TIME: 7:11 AM

END TIME: 12:30 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: cloudy

DATE LAST CALIBRATED: 12/7/2020

TEMPERATURE: 29°F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 30.08 rising

PRESS INSTRUMENT : Manometer

GROUND CONDITIONS: frozen

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	7:40	0.0	0.0	0.0	3.3	16.7	(2)
GP-1S	7:42	0.0	0.0	0.0	0.0	20.9	(2)
GP-2D	7:46	0.09	0.0	0.0	0.0	20.8	(1)
GP-2S	7:48	0.0	0.0	0.0	0.3	20.5	(1)
GP-3	7:51	0.0	>5	8.6	21.5	1.7	(1) Stable readings at 2 minutes.
GP-4	8:09	0.06	0.0	0.0	0.1	20.7	(1)
GP-5	8:12	0.0	0.0	0.0	1.2	19.6	(2)
GP-6	8:16	0.6	0.0	0.0	0.1	20.7	(1)
GP-7	8:23	0.0	0.0	0.0	0.3	20.4	(2) Water in probe at 56 seconds.
GP-8	8:30	0.0	0.0	0.0	2.1	18.4	(2)
GP-9	8:36	0.0	0.0	0.0	3.8	17.5	(1)
GP-10	8:39	0.0	0.0	0.0	5.1	14.8	(1)
GP-11D	8:45	0.0	0.0	0.0	0.1	20.7	(2)
GP-11S	8:47	0.0	0.0	0.0	0.4	20.5	(2)
GP-12D	8:51	0.0	>5	20.7	23.6	0.0	(1) Stable readings at 2 minutes.
GP-12S	8:54	0.0	0.0	0.0	0.2	20.5	(1)
GP-13D	9:02	0.0	3	0.1	0.6	19.8	(2)
GP-13S	9:04	0.0	0.0	0.0	0.5	20.2	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	9:19	0.0	0.0	0.0	1.2	19.1	(2)
GP-16S	9:21	0.0	0.0	0.0	0.1	20.7	(2)
GP-17D	9:13	0.0	0.0	0.0	1.3	18.8	(1)
GP-17M	9:15	0.0	0.0	0.0	0.2	20.5	(1)
GP-17S	9:17	0.0	0.0	0.0	0.1	20.7	(1)
GP-18D	9:25	0.0	0.0	0.0	0.9	19.6	(3)
GP-18M	9:27	0.0	0.0	0.0	0.1	20.7	(3)
GP-18S	9:29	0.0	0.0	0.0	0.1	20.6	(3)
GP-19 <sup>85-100</sup>	10:08	0.0	0.0	0.0	4.4	14.5	(1) Stable readings at 2 minutes.
GP-19 <sup>50-70</sup>	10:11	0.0	0.0	0.0	2.3	17.9	(1)
GP-19 <sup>25-40</sup>	10:13	0.0	0.0	0.0	2.7	17.6	(1)
GP19 <sup>2-15</sup>	10:15	0.0	0.0	0.0	2.2	17.8	(1)
GP-20 <sup>85-100</sup>	10:00	0.0	0.0	0.0	1.1	18.9	(2)
GP-20 <sup>50-70</sup>	10:02	0.0	0.0	0.0	1.6	19.0	(2)
GP-20 <sup>25-40</sup>	10:04	0.0	0.0	0.0	1.5	19.2	(2)
GP-20 <sup>2-15</sup>	10:06	0.0	0.0	0.0	1.9	18.7	(2)
GP-21 <sup>85-100</sup>	9:51	0.0	0.0	0.0	0.5	19.9	(2)
GP-21 <sup>50-70</sup>	9:53	0.0	0.0	0.0	1.6	18.6	(2)
GP-21 <sup>25-40</sup>	9:55	0.0	0.0	0.0	1.9	18.4	(2)
GP-21 <sup>2-15</sup>	9:57	0.0	0.0	0.0	1.3	19.6	(2)
GP-22 <sup>85-100</sup>	10:19	0.0	0.0	0.0	2.2	18.9	(2)
GP-22 <sup>50-70</sup>	10:21	0.0	0.0	0.0	0.9	19.8	(2)
GP-22 <sup>25-40</sup>	10:23	0.0	0.0	0.0	1.6	19.5	(2)
GP-22 <sup>2-15</sup>	10:25	0.0	0.0	0.0	2.2	19.0	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-23 <sup>85-100</sup>	10:31	0.0	0.0	0.0	0.2	20.5	(2)
GP-23 <sup>50-70</sup>	10:33	0.0	0.0	0.0	3.0	15.6	(2)
GP-23 <sup>25-40</sup>	10:35	0.0	0.0	0.0	0.2	20.6	(2)
GP-23 <sup>2-15</sup>	10:37	0.0	0.0	0.0	0.9	19.6	(2)
GP-24 <sup>85-100</sup>	10:41	0.0	0.0	0.0	0.5	19.8	(2)
GP-24 <sup>50-70</sup>	10:43	0.0	0.0	0.0	0.9	19.3	(2)
GP-24 <sup>25-40</sup>	10:45	0.0	0.0	0.0	0.4	19.8	(2)
GP-24 <sup>2-15</sup>	10:47	0.0	0.0	0.0	2.0	18.4	(2)
GPW-1D	12:13	0.0	0.0	0.0	1.3	19.3	(1)
GPW-1M	12:15	0.0	0.0	0.0	0.1	20.7	(1)
GPW-1S	12:17	0.0	0.0	0.0	1.5	20.4	(1)
G-1D	7:18	0.0	0.0	0.0	0.0	20.9	(1)
G-1S	7:20	0.0	17	0.9	2.1	18.1	(1) Stable readings at 2 minutes.
G-2D	9:07	0.0	0.0	0.0	0.3	20.3	(1)
G-2S	9:09	0.0	0.0	0.0	0.1	20.7	(1)
G-5	8:33	0.0	0.0	0.0	1.8	18.6	(1)
G-6	7:27	0.0	0.0	0.0	0.7	19.9	(1)
G-8	9:45	0.0	0.0	0.0	0.1	20.7	(1)
G-9	9:36	0.0	0.0	0.0	1.4	15.7	(1)
G-10	10:53	-0.21	0.0	0.0	0.1	20.7	(1)
Speedway Office	7:34	Open to ATM	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.

**Key:**

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

Entered by: J. Roelke 12/7/2020  
Checked by: K. Vater 12/8/2020