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January 24, 2020

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

Subject: Refuse Hideaway Landfill  
January 2020 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on January 22, 2020. Attached are the monitoring results for January 2019. Pressure, methane, carbon dioxide, oxygen, and methane (% LEL) are measured during the monthly event.

The property owned by William L Kahl, LLC south of the Refuse Hideaway Landfill is having a fence installed. A wide area of clearing was recently completed on the northern side of that property and GP-9 appears to have been hit during the activities. The protective casing is loose, and the top 5-feet of the PVC well is also loose. TRC will put the PVC well back and secure it with bentonite in February. TRC will also place bentonite around the protective casing to secure it.

The next monthly gas probe monitoring event will take place in February 2020.

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: 1/22/2020

START TIME: 8:15 AM

END TIME: 3:30 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: cloudy

DATE LAST CALIBRATED: 1/22/2020

TEMPERATURE: 24 °F

METHOD: Standard Calibration Gases      BAROMETRIC PRESSURE & TREND: 29.18 in. Hg, Steady

PRESS INSTRUMENT : Manometer

GROUND CONDITIONS: frozen/snow covered

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	9:04	-0.04	0.0	0.0	1.3	19.9	(2)
GP-1S	9:06	-0.05	0.0	0.0	0.0	20.8	(2)
GP-2D	9:12	0.0	9.0	0.4	1.0	19.8	(1)
GP-2S	9:14	-0.03	0.0	0.0	0.5	20.4	(1)
GP-3	9:19	0.0	0.0	0.0	8.2	8.6	(1)
GP-4	9:25	0.0	0.0	0.0	1.1	20.6	(1) Water in probe
GP-5	9:31	0.0	0.0	0.0	0.9	20.2	(2)
GP-6	9:38	0.0	0.0	0.0	0.0	20.8	(1)
GP-7	9:46	0.0	0.0	0.0	0.6	20.1	(2) Water in probe
GP-8	9:55	0.0	0.0	0.0	0.6	19.8	(1)
GP-9	10:23	Open to ATM	0.0	0.0	0.3	20.4	(1) Reset probe extention, casing unstable, bentonite repair planned for February
GP-10	10:29	0.0	0.0	0.0	1.9	19.0	(1)
GP-11D	10:34	0.0	0.0	0.0	0.3	20.4	(2)
GP-11S	10:37	0.0	0.0	0.0	0.2	20.4	(2)
GP-12D	10:51	0.0	>5	5.9	6.0	15.5	(1)
GP-12S	10:53	0.0	0.0	0.0	2.3	18.9	(1)
GP-13D	11:09	0.0	0.0	0.0	0.2	20.3	(2)
GP-13S	11:11	0.0	0.0	0.0	0.4	20.2	(2)
GP-16D	11:46	0.0	8	0.4	5.8	11.7	(2)
GP-16M	NM	NM	NM	NM	NM	NM	Cracked Probe, No Measurements Taken
GP-16S	11:48	0.0	0.0	0.0	1.0	19.8	(2)
GP-17D	11:39	0.04	0.0	0.0	0.1	19.9	(1)
GP-17M	11:41	0.03	0.0	0.0	0.1	20.5	(1)
GP-17S	11:43	0.0	0.0	0.0	0.1	20.5	(1)
GP-18D	11:56	0.17	0.0	0.0	1.4	18.6	(3)
GP-18M	11:58	0.0	51	2.6	3.9	15.7	(3)
GP-18S	12:00	0.0	0.0	0.0	0.1	20.5	(3)
GP-19 <sup>85-100</sup>	12:16	0.04	0.0	0.0	4.6	15.4	(1)
GP-19 <sup>50-70</sup>	12:18	0.06	0.0	0.0	5.7	15.1	(1)
GP-19 <sup>25-40</sup>	12:20	0.03	0.0	0.0	5.2	14.7	(1)
GP19 <sup>2-15</sup>	12:22	0.0	0.0	0.0	5.6	12.6	(1)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-20 <sup>85-100</sup>	12:27	0.06	0.0	0.0	2.1	17.3	(2)
GP-20 <sup>50-70</sup>	12:29	0.0	0.0	0.0	3.1	16.8	(2)
GP-20 <sup>25-40</sup>	12:31	0.00	0.0	0.0	2.9	16.8	(2)
GP-20 <sup>2-15</sup>	12:33	0.04	0.0	0.0	3.0	16.7	(2)
GP-21 <sup>85-100</sup>	12:38	0.03	0.0	0.0	0.2	20.4	(2)
GP-21 <sup>50-70</sup>	12:40	0.08	0.0	0.0	1.3	19.0	(2)
GP-21 <sup>25-40</sup>	12:42	0.07	0.0	0.0	2.7	16.5	(2)
GP-21 <sup>2-15</sup>	12:44	0.03	0.0	0.0	1.5	18.9	(2)
GP-22 <sup>85-100</sup>	13:26	0.12	0.0	0.0	6.1	9.4	(2)
GP-22 <sup>50-70</sup>	13:28	0.17	0.0	0.0	3.4	15.4	(2)
GP-22 <sup>25-40</sup>	13:30	0.06	0.0	0.0	1.9	18.5	(2)
GP-22 <sup>2-15</sup>	13:32	0.00	0.0	0.0	4.5	15.1	(2)
GP-23 <sup>85-100</sup>	13:41	0.08	18	0.9	8.8	4.9	(2)
GP-23 <sup>50-70</sup>	13:43	0.06	80	4.0	12.3	0.6	(2)
GP-23 <sup>25-40</sup>	13:45	0.03	10	0.5	19.0	0.2	(2)
GP-23 <sup>2-15</sup>	13:47	0.03	>5	5.9	18.4	0.2	(2)
GP-24 <sup>85-100</sup>	13:53	0.18	0.0	0.0	15.7	1.2	(2)
GP-24 <sup>50-70</sup>	13:55	0.06	0.0	0.0	1.9	18.4	(2)
GP-24 <sup>25-40</sup>	13:57	0.0	3	0.1	10.6	7.2	(2)
GP-24 <sup>2-15</sup>	13:59	0.0	57	2.8	16.9	0.5	(2)
GPW-1D	15:19	0.75	0.0	0.0	0.3	18.8	(1)
GPW-1M	15:21	0.73	0.0	0.0	1.6	17.9	(1)
GPW-1S	15:23	0.0	0.0	0.0	1.7	18.1	(1)
G-1D	8:34	0.0	0.0	0.0	0.0	20.7	(1)
G-1S	8:37	0.0	0.0	0.0	0.3	20.5	(1)
G-2D	11:24	0.0	0.0	0.0	0.2	20.3	(1)
G-2S	11:27	0.0	2	0.1	2.4	17.8	(1)
G-5	10:03	0.0	0.0	0.0	1.0	20.3	(1)
G-6	8:45	0.0	0.0	0.0	0.0	20.8	(1)
G-8	12:50	0.0	0.0	0.0	0.0	20.4	(1)
G-9	13:07	0.0	0.0	0.0	1.2	14.9	(1)
G-10	14:09	1.24	0.0	0.0	0.1	20.5	(1)
Speedway Office	8:59	Open to ATM	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 1/22/2020  
Checked by: K. Vater 1/23/2020