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November 11, 2020

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

Subject: Refuse Hideaway Landfill
November 2020 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on November 3, 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 December 2020.

If you have any questions, please contact me at 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: 11/3/2020

START TIME: 6:58 AM

END TIME: 1:15 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: sunny

DATE LAST CALIBRATED: 11/3/2020

TEMPERATURE: 46°F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 29.97 in. Hg falling

PRESS INSTRUMENT : Manometer

GROUND CONDITIONS: moist

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	8:37	0.0	0.0	0.0	0.1	20.8	(2)
GP-1S	8:39	0.0	0.0	0.0	0.0	20.9	(2)
GP-2D	8:42	0.0	3	0.1	2.8	17.8	(1)
GP-2S	8:44	0.0	0.0	0.0	2.3	19.3	(1) Stable reading at 90 seconds..
GP-3	8:47	0.0	46	2.2	10.7	11.5	(1)
GP-4	8:53	0.0	0.0	0.0	0.2	20.7	(1)
GP-5	8:55	0.0	0.0	0.0	1.5	20.0	(2)
GP-6	9:01	0.10	0.0	0.0	0.1	20.8	(1)
GP-7	9:10	0.35	0.0	0.0	0.6	20.5	(2)
GP-8	9:16	0.0	0.0	0.0	3.0	18.2	(2)
GP-9	9:24	0.0	0.0	0.0	4.6	16.7	(1)
GP-10	9:27	0.0	0.0	0.0	4.3	15.9	(1)
GP-11D	9:31	0.0	0.0	0.0	0.5	20.3	(2)
GP-11S	9:33	0.0	0.0	0.0	2.5	19.0	(2)
GP-12D	9:37	0.0	>5	9.7	14.9	5.7	(1) Stable reading at 2 minutes.
GP-12S	9:40	0.0	0.0	0.0	1.5	19.8	(1) Stable reading at 2 minutes.
GP-13D	9:46	0.0	11	0.5	2.1	18.0	(2)
GP-13S	9:48	0.0	0.0	0.0	1.4	19.6	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	10:10	0.0	0.0	0.0	6.5	12.7	(2)
GP-16S	10:12	0.0	0.0	0.0	0.7	19.7	(2)
GP-17D	10:02	0.0	0.0	0.0	1.7	18.7	(1)
GP-17M	10:04	0.0	0.0	0.0	0.5	20.0	(1)
GP-17S	10:06	0.0	0.0	0.0	2.8	17.7	(1) Stable readings at 90 seconds.
GP-18D	10:15	0.0	11	0.5	6.0	12.0	(3)
GP-18M	10:17	0.0	4	0.2	0.6	19.6	(3)
GP-18S	10:19	0.0	0.0	0.0	0.3	20.4	(3)
GP-19 ⁸⁵⁻¹⁰⁰	11:14	0.09	0.0	0.0	0.9	19.3	(1)
GP-19 ⁵⁰⁻⁷⁰	11:16	0.0	0.0	0.0	1.1	20.0	(1)
GP-19 ²⁵⁻⁴⁰	11:18	0.0	0.0	0.0	1.2	19.8	(1)
GP19 ²⁻¹⁵	11:20	0.0	0.0	0.0	1.9	19.4	(1)
GP-20 ⁸⁵⁻¹⁰⁰	11:05	0.0	0.0	0.0	0.8	19.9	(2)
GP-20 ⁵⁰⁻⁷⁰	11:07	0.0	0.0	0.0	0.6	20.1	(2)
GP-20 ²⁵⁻⁴⁰	11:09	0.0	0.0	0.0	1.1	19.6	(2)
GP-20 ²⁻¹⁵	11:11	0.0	0.0	0.0	0.8	19.8	(2)
GP-21 ⁸⁵⁻¹⁰⁰	10:55	0.0	0.0	0.0	0.2	20.5	(2)
GP-21 ⁵⁰⁻⁷⁰	10:57	0.0	0.0	0.0	1.1	19.5	(2)
GP-21 ²⁵⁻⁴⁰	10:59	0.0	0.0	0.0	1.9	18.9	(2)
GP-21 ²⁻¹⁵	11:01	0.0	0.0	0.0	1.1	20.1	(2)
GP-22 ⁸⁵⁻¹⁰⁰	11:26	0.0	0.0	0.0	2.0	19.3	(2)
GP-22 ⁵⁰⁻⁷⁰	11:28	0.0	0.0	0.0	2.5	18.1	(2)
GP-22 ²⁵⁻⁴⁰	11:30	0.0	0.0	0.0	1.6	19.7	(2)
GP-22 ²⁻¹⁵	11:32	0.0	0.0	0.0	1.8	19.5	(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	0.0	0.0	0.0	7.7	6.4	(2)
GP-23 ⁵⁰⁻⁷⁰	11:39	0.0	0.0	0.0	2.2	17.7	(2)
GP-23 ²⁵⁻⁴⁰	11:41	0.0	0.0	0.0	8.3	8.9	(2)
GP-23 ²⁻¹⁵	11:43	0.0	0.0	0.0	3.2	17.3	(2)
GP-24 ⁸⁵⁻¹⁰⁰	11:48	0.12	0.0	0.0	0.6	20.1	(2)
GP-24 ⁵⁰⁻⁷⁰	11:50	0.0	0.0	0.0	1.1	19.5	(2)
GP-24 ²⁵⁻⁴⁰	11:52	0.0	0.0	0.0	2.9	18.1	(2)
GP-24 ²⁻¹⁵	11:54	0.0	0.0	0.0	3.7	15.7	(2)
GPW-1D	12:57	0.56	0.0	0.0	2.0	18.4	(1)
GPW-1M	12:59	0.0	0.0	0.0	1.5	18.6	(1)
GPW-1S	13:01	0.10	0.0	0.0	2.0	19.0	(1)
G-1D	8:09	0.12	0.0	0.0	0.1	20.8	(1)
G-1S	8:11	0.14	5	0.3	2.5	18.3	(1)
G-2D	9:52	0.0	0.0	0.0	0.5	20.2	(1)
G-2S	9:54	0.0	>5	7.6	18.6	0.0	(1) Stable readings at 3 minutes.
G-5	9:18	0.0	0.0	0.0	4.0	17.5	(1)
G-6	8:26	0.0	0.0	0.0	1.3	19.1	(1)
G-8	10:47	0.0	0.0	0.0	0.0	20.8	(1)
G-9	10:37	0.0	0.0	0.0	1.4	15.0	(1)
G-10	12:03	-0.32	0.0	0.0	0.1	20.7	(1)
Speedway Office	8:33	0.0	0.0	0.0	0.1	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 11/5/2020
Checked by: K. Vater 11/10/2020