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August 21, 2020

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

Subject: Refuse Hideaway Landfill
August 2020 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on August 20, 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 September 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: 8/20/2020 _____

START TIME: 7:06 AM _____

END TIME: 1:00 PM _____

GAS/INSTRUMENT TYPE: **GEM 2000** _____

SERIAL NO.: 11668 _____

DATE LAST CALIBRATED: 8/20/2020 _____

WEATHER CONDITIONS: cloudy _____

TEMPERATURE: 62°F _____

METHOD: Standard Calibration Gases _____

BAROMETRIC PRESSURE & TREND: 30.01 steady _____

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	7:45	0.0	>5	12.4	19.6	0.1	(2)
GP-1S	7:47	0.0	>5	18.3	23.2	0.0	(2)
GP-2D	7:53	0.09	>5	7.7	11.7	9.2	(1)
GP-2S	7:55	0.0	>5	12.9	20.8	0.0	(1) Stable readings at 90 seconds.
GP-3	8:01	0.0	>5	46.3	37.6	0.8	(1) Stable readings at 2 minutes.
GP-4	8:08	0.0	0.0	0.0	10.6	12.3	(1)
GP-5	8:11	0.0	0.0	0.0	3.8	17.3	(2)
GP-6	8:22	0.0	0.0	0.0	0.0	20.7	(1)
GP-7	8:37	0.0	0.0	0.0	0.3	20.3	(2)
GP-8	8:43	0.0	0.0	0.0	12.9	6.8	(2)
GP-9	9:05	0.0	0.0	0.0	8.9	13.4	(1)
GP-10	9:09	0.0	0.0	0.0	5.6	15.2	(1)
GP-11D	9:14	0.0	67	3.3	10.5	2.5	(2)
GP-11S	9:16	0.0	50	2.5	12.6	0.3	(2)
GP-12D	9:20	0.0	>5	8.9	14.6	7.5	(1) Stable readings at 2 minutes.
GP-12S	9:23	0.0	0.0	0.0	3.9	16.8	(1)
GP-13D	9:26	0.0	39	1.9	8.5	10.2	(2)
GP-13S	9:28	0.0	0.0	0.0	10.1	7.3	(2) Stable readings at 90 seconds.

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	10:53	0.0	0.0	0.0	2.1	18.4	(2)
GP-16S	10:55	0.0	0.0	0.0	4.3	17.3	(2)
GP-17D	9:46	0.0	0.0	0.0	4.7	15.2	(1)
GP-17M	9:48	0.0	0.0	0.0	4.2	16.8	(1)
GP-17S	9:50	0.0	0.0	0.0	6.7	14.4	(1)
GP-18D	10:03	0.0	14	0.7	6.0	12.0	(3) Stable readings at 90 seconds.
GP-18M	10:06	0.0	7	0.3	5.6	15.0	(3)
GP-18S	10:08	0.0	>5	8.1	16.9	2.7	(3)
GP-19 ⁸⁵⁻¹⁰⁰	10:56	0.0	0.0	0.0	0.1	20.7	(1)
GP-19 ⁵⁰⁻⁷⁰	10:58	0.0	0.0	0.0	0.5	20.4	(1)
GP-19 ²⁵⁻⁴⁰	11:00	0.0	0.0	0.0	0.3	20.6	(1)
GP19 ²⁻¹⁵	11:02	0.0	0.0	0.0	0.0	20.9	(1)
GP-20 ⁸⁵⁻¹⁰⁰	10:46	0.0	0.0	0.0	0.2	20.6	(2)
GP-20 ⁵⁰⁻⁷⁰	10:48	0.0	0.0	0.0	0.0	20.7	(2)
GP-20 ²⁵⁻⁴⁰	10:50	0.0	0.0	0.0	0.4	20.5	(2)
GP-20 ²⁻¹⁵	10:52	0.0	0.0	0.0	0.7	20.5	(2)
GP-21 ⁸⁵⁻¹⁰⁰	10:37	0.12	0.0	0.0	0.5	20.0	(2)
GP-21 ⁵⁰⁻⁷⁰	10:39	0.0	0.0	0.0	0.4	20.4	(2)
GP-21 ²⁵⁻⁴⁰	10:41	0.0	0.0	0.0	0.0	20.8	(2)
GP-21 ²⁻¹⁵	10:43	0.0	0.0	0.0	0.6	20.5	(2)
GP-22 ⁸⁵⁻¹⁰⁰	11:08	0.0	0.0	0.0	3.5	18.1	(2)
GP-22 ⁵⁰⁻⁷⁰	11:10	0.0	0.0	0.0	0.9	20.1	(2)
GP-22 ²⁵⁻⁴⁰	11:12	0.0	0.0	0.0	2.5	18.7	(2)
GP-22 ²⁻¹⁵	11:14	0.0	0.0	0.0	3.6	18.1	(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	11:20	0.0	0.0	0.0	0.6	20.1	(2)
GP-23 ⁵⁰⁻⁷⁰	11:22	0.0	0.0	0.0	0.6	20.1	(2)
GP-23 ²⁵⁻⁴⁰	11:24	0.0	0.0	0.0	0.3	20.6	(2)
GP-23 ²⁻¹⁵	11:26	0.0	0.0	0.0	2.9	18.1	(2)
GP-24 ⁸⁵⁻¹⁰⁰	11:33	0.14	0.0	0.0	0.3	20.4	(2)
GP-24 ⁵⁰⁻⁷⁰	11:35	0.0	0.0	0.0	0.5	20.3	(2)
GP-24 ²⁵⁻⁴⁰	11:37	0.0	0.0	0.0	0.4	20.4	(2)
GP-24 ²⁻¹⁵	11:39	0.0	0.0	0.0	3.8	17.9	(2) Stable readings at 90 seconds.
GPW-1D	12:52	-0.60	0.0	0.0	3.4	16.7	(1)
GPW-1M	12:54	-0.63	0.0	0.0	1.5	18.7	(1)
GPW-1S	12:56	0.0	0.0	0.0	1.7	18.8	(1)
G-1D	7:20	0.0	>5	14.9	21.6	0.0	(1)
G-1S	7:22	0.0	>5	33.9	30.3	0.0	(1)
G-2D	9:37	0.0	0.0	0.0	3.4	15.8	(1)
G-2S	9:39	0.0	>5	7.9	17.2	0.5	(1)
G-5	8:47	0.0	0.0	0.0	7.0	14.5	(1)
G-6	7:33	0.0	0.0	0.0	0.7	20.3	(1)
G-8	10:30	0.0	0.0	0.0	0.0	20.8	(1)
G-9	10:17	0.0	0.0	0.0	0.1	18.7	(1)
G-10	11:46	-0.47	0.0	0.0	0.2	20.6	(1)
Speedway Office	7:40	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 8/20/2020
Checked by: K. Vater 8/21/2020