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November 22, 2021

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

Subject: Refuse Hideaway Landfill
November 2021 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on November 10, 2021. 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 2021.

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: 11/10/2021

START TIME: 7:20 AM

END TIME: 3:00 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: cloudy

DATE LAST CALIBRATED: 11/10/2021

TEMPERATURE: 30 deg F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 30.14 in. Hg, falling

PRESS INSTRUMENT : Manometer

GROUND CONDITIONS: dry

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	7:53	0.0	0.0	0.0	6.6	13.2	(2)
GP-1S	7:55	0.0	0.0	0.0	0.0	20.8	(2)
GP-2D	7:58	0.10	0.0	0.0	2.7	18.5	(1)
GP-2S	8:00	0.0	0.0	0.0	1.7	19.4	(1)
GP-3	8:03	0.0	>5	34.4	33.8	0.2	(1)
GP-4	8:07	0.0	0.0	0.0	3.6	17.9	(1)
GP-5	8:10	0.0	0.0	0.0	2.7	18.9	(2)
GP-6	8:16	0.0	0.0	0.0	3.8	15.9	(1)
GP-7	8:25	0.0	0.0	0.0	3.3	17.6	(2)
GP-8	8:33	0.0	0.0	0.0	7.3	14.2	(2) Stable readings at 2 minutes.
GP-9	8:39	0.0	0.0	0.0	3.2	18.0	(1)
GP-10	8:43	0.0	0.0	0.0	4.9	16.8	(1)
GP-11D	8:47	0.0	20	1.0	8.9	10.6	(2) Stable readings at 2 minutes.
GP-11S	8:50	0.0	0.0	0.0	1.6	19.3	(2)
GP-12D	8:54	0.0	64	3.2	6.8	13.8	(1) Stable readings at 2 minutes.
GP-12S	8:57	0.0	0.0	0.0	1.6	19.4	(1)
GP-13D	9:00	0.0	4	0.2	2.6	17.4	(2) Stable readings at 2 minutes.
GP-13S	9:03	0.0	0.0	0.0	1.3	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	9:22	0.0	0.0	0.0	1.4	19.0	(2)
GP-16S	9:24	0.0	0.0	0.0	1.0	19.8	(2)
GP-17D	9:16	0.0	0.0	0.0	2.8	17.7	(1)
GP-17M	9:18	0.0	0.0	0.0	1.0	19.4	(1)
GP-17S	9:20	0.0	0.0	0.0	1.8	18.8	(1)
GP-18D	9:30	0.0	0.0	0.0	0.5	19.9	(2)
GP-18M	9:32	0.0	0.0	0.0	0.3	20.0	(2)
GP-18S	9:34	0.0	0.0	0.0	0.1	20.5	(2)
GP-19 ⁸⁵⁻¹⁰⁰	10:20	0.0	0.0	0.0	0.5	20.3	(1)
GP-19 ⁵⁰⁻⁷⁰	10:22	0.0	0.0	0.0	1.4	19.7	(1)
GP-19 ²⁵⁻⁴⁰	10:24	0.0	0.0	0.0	1.3	19.8	(1)
GP19 ²⁻¹⁵	10:26	0.0	0.0	0.0	0.8	20.2	(1)
GP-20 ⁸⁵⁻¹⁰⁰	10:11	0.0	0.0	0.0	0.4	20.3	(2)
GP-20 ⁵⁰⁻⁷⁰	10:13	0.0	0.0	0.0	0.6	20.3	(2)
GP-20 ²⁵⁻⁴⁰	10:15	0.0	0.0	0.0	0.8	20.2	(2)
GP-20 ²⁻¹⁵	10:17	0.0	0.0	0.0	1.4	19.9	(2)
GP-21 ⁸⁵⁻¹⁰⁰	10:01	0.15	0.0	0.0	0.4	20.2	(2)
GP-21 ⁵⁰⁻⁷⁰	10:03	0.0	0.0	0.0	2.4	17.7	(2)
GP-21 ²⁵⁻⁴⁰	10:05	0.0	0.0	0.0	0.3	20.5	(2)
GP-21 ²⁻¹⁵	10:07	0.0	0.0	0.0	0.9	20.1	(2)
GP-22 ⁸⁵⁻¹⁰⁰	10:34	0.0	0.0	0.0	1.6	19.7	(2)
GP-22 ⁵⁰⁻⁷⁰	10:36	0.0	0.0	0.0	0.5	20.5	(2)
GP-22 ²⁵⁻⁴⁰	10:38	0.0	0.0	0.0	1.3	19.9	(2)
GP-22 ²⁻¹⁵	10:40	0.0	0.0	0.0	1.9	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	10:46	0.0	0.0	0.0	4.7	15.6	(2)
GP-23 ⁵⁰⁻⁷⁰	10:48	0.0	0.0	0.0	0.3	20.4	(2)
GP-23 ²⁵⁻⁴⁰	10:50	0.0	0.0	0.0	0.2	20.6	(2)
GP-23 ²⁻¹⁵	10:52	0.0	0.0	0.0	2.9	18.5	(2)
GP-24 ⁸⁵⁻¹⁰⁰	10:57	0.0	0.0	0.0	12.4	7.4	(2) Stable readings at 2 minutes.
GP-24 ⁵⁰⁻⁷⁰	11:00	0.0	0.0	0.0	0.9	20.2	(2)
GP-24 ²⁵⁻⁴⁰	11:02	0.0	0.0	0.0	0.4	20.5	(2)
GP-24 ²⁻¹⁵	11:04	0.0	0.0	0.0	2.5	18.8	(2) Stable readings at 2 minutes.
GPW-1D	14:48	0.88	0.0	0.0	2.6	18.2	(1)
GPW-1M	14:50	0.91	0.0	0.0	1.6	18.3	(1)
GPW-1S	14:52	0.0	0.0	0.0	2.0	19.0	(1)
G-1D	7:44	0.0	0.0	0.0	0.0	20.8	(1)
G-1S	7:46	0.0	0.0	0.0	3.8	16.2	(1) Stable readings at 2 minutes.
G-2D	9:07	0.0	0.0	0.0	0.8	20.3	(1)
G-2S	9:09	0.0	>5	7.2	19.3	0.0	(1) Stable readings at 2 minutes.
G-5	8:30	0.0	0.0	0.0	4.7	16.3	(1)
G-6	7:37	0.0	0.0	0.0	0.0	20.8	(1)
G-8	9:56	0.0	0.0	0.0	0.0	20.8	(1)
G-9	9:43	0.0	0.0	0.0	0.0	20.8	(1)
G-10	11:12	0.54	0.0	0.0	0.1	20.6	(1)
Speedway Office	7:50	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 11/11/2021
Checked by: K. Vater 11/18/2021