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January 12, 2022

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

Subject: Refuse Hideaway Landfill
January 2022 Landfill Gas Monitoring Results

Dear Cindy:

TRC completed the monthly gas probe monitoring at the Refuse Hideaway Landfill in Middleton, WI on January 3, 2022. 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 February 2022.

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
Senior Project Manager

Attachments

REFUSE HIDEAWAY LANDFILL GAS PROBE MONITORING FORM

TECHNICIAN(S): J. Roelke

DATE: 1/3/2022

START TIME: 9:15AM

END TIME: 2:15 PM

GAS/INSTRUMENT TYPE: GEM 2000

SERIAL NO.: 11668

WEATHER CONDITIONS: clear

DATE LAST CALIBRATED: 1/3/2022

TEMPERATURE: 6 deg F

METHOD: Standard Calibration Gases

BAROMETRIC PRESSURE & TREND: 30.35 , steady

PRESS INSTRUMENT : Manometer

GROUND CONDITIONS: snow covered

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-1D	9:45	0.0	0.0	0.0	4.7	15.6	(2)
GP-1S	9:47	0.0	0.0	0.0	0.1	20.7	(2)
GP-2D	9:50	0.0	0.0	0.0	0.5	20.4	(1)
GP-2S	9:52	0.0	0.0	0.0	0.4	20.4	(1)
GP-3	9:58	0.0	86	4.3	18.2	4.6	(1)
GP-4	10:03	0.0	0.0	0.0	2.2	19.1	(1)
GP-5	10:06	0.0	0.0	0.0	1.4	19.7	(2)
GP-6	10:13	0.0	0.0	0.0	1.2	18.5	(1)
GP-7	10:21	0.0	0.0	0.0	2.4	18.8	(2)
GP-8	10:30	0.0	0.0	0.0	7.3	12.9	(1) Stable readings at 2 minutes.
GP-9	10:37	0.0	0.0	0.0	2.0	18.9	(1)
GP-10	10:43	0.0	0.0	0.0	2.2	19.1	(1)
GP-11D	10:46	0.0	0.0	0.0	0.0	20.8	(2)
GP-11S	10:48	0.0	0.0	0.0	0.5	20.5	(2)
GP-12D	10:56	0.0	18	0.9	1.8	19.0	(1) Stable readings at 2 minutes.
GP-12S	10:59	0.0	0.0	0.0	0.9	20.1	(1)
GP-13D	11:03	0.0	0.0	0.0	0.1	20.6	(2)
GP-13S	11:05	0.0	0.0	0.0	0.2	20.6	(2)

GAS PROBE NAME	Time	PRESSURE (in. WC)	METHANE (% LEL)	METHANE (%, by vol.)	CARBON DIOXIDE (%, by vol.)	OXYGEN (%, by vol.)	COMMENTS
GP-16D	11:23	0.0	0.0	0.0	7.2	9.8	(2)
GP-16S	11:25	0.0	0.0	0.0	0.3	20.4	(2)
GP-17D	11:17	0.0	0.0	0.0	1.7	18.6	(1)
GP-17M	11:19	0.0	0.0	0.0	0.0	20.8	(1)
GP-17S	11:21	0.0	0.0	0.0	0.4	20.4	(1)
GP-18D	11:29	0.0	0.0	0.0	0.0	20.8	(3)
GP-18M	11:31	0.0	0.0	0.0	0.0	20.8	(3)
GP-18S	11:33	0.0	0.0	0.0	0.1	20.7	(3)
GP-19 ⁸⁵⁻¹⁰⁰	12:25	0.0	0.0	0.0	3.8	16.1	(1)
GP-19 ⁵⁰⁻⁷⁰	12:27	0.0	0.0	0.0	2.4	18.5	(1)
GP-19 ²⁵⁻⁴⁰	12:28	0.0	0.0	0.0	3.1	17.3	(1)
GP19 ²⁻¹⁵	12:30	0.0	0.0	0.0	1.1	20.0	(1)
GP-20 ⁸⁵⁻¹⁰⁰	12:16	0.0	0.0	0.0	0.5	20.2	(2)
GP-20 ⁵⁰⁻⁷⁰	12:18	0.0	0.0	0.0	1.7	18.8	(2)
GP-20 ²⁵⁻⁴⁰	12:20	0.0	0.0	0.0	1.8	18.7	(2)
GP-20 ²⁻¹⁵	12:22	0.0	0.0	0.0	1.6	18.8	(2)
GP-21 ⁸⁵⁻¹⁰⁰	12:05	0.19	0.0	0.0	0.4	20.4	(2)
GP-21 ⁵⁰⁻⁷⁰	12:07	0.08	0.0	0.0	0.2	20.6	(2)
GP-21 ²⁵⁻⁴⁰	12:09	0.0	0.0	0.0	1.8	19.0	(2)
GP-21 ²⁻¹⁵	12:11	0.0	0.0	0.0	1.1	19.8	(2)
GP-22 ⁸⁵⁻¹⁰⁰	12:35	0.0	0.0	0.0	1.2	19.8	(2)
GP-22 ⁵⁰⁻⁷⁰	12:37	0.0	0.0	0.0	0.6	20.2	(2)
GP-22 ²⁵⁻⁴⁰	12:39	0.0	0.0	0.0	1.7	19.4	(2)
GP-22 ²⁻¹⁵	12:41	0.0	0.0	0.0	1.3	19.9	(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	12:46	0.0	0.0	0.0	0.3	20.4	(2)
GP-23 ⁵⁰⁻⁷⁰	12:48	0.0	0.0	0.0	0.1	20.7	(2)
GP-23 ²⁵⁻⁴⁰	12:50	0.0	0.0	0.0	0.0	20.8	(2)
GP-23 ²⁻¹⁵	12:52	0.0	0.0	0.0	2.6	16.3	(2) Stable readings at 2 minutes.
GP-24 ⁸⁵⁻¹⁰⁰	12:56	0.0	0.0	0.0	10.1	8.7	(2)
GP-24 ⁵⁰⁻⁷⁰	12:58	0.0	0.0	0.0	0.4	19.9	(2)
GP-24 ²⁵⁻⁴⁰	13:00	0.0	0.0	0.0	0.2	20.6	(2)
GP-24 ²⁻¹⁵	13:02	0.0	0.0	0.0	0.7	20.2	(2)
GPW-1D	13:47	0.42	0.0	0.0	1.5	19.2	(1)
GPW-1M	13:49	0.44	0.0	0.0	1.4	18.8	(1)
GPW-1S	13:51	0.0	0.0	0.0	1.0	19.8	(1)
G-1D	9:34	0.0	0.0	0.0	0.0	20.8	(1)
G-1S	9:36	0.0	0.0	0.0	0.0	20.7	(1)
G-2D	11:09	0.0	0.0	0.0	0.1	20.7	(1)
G-2S	11:11	0.0	0.0	0.0	0.1	20.6	(1)
G-5	10:26	0.0	0.0	0.0	3.5	16.9	(1)
G-6	9:26	0.0	0.0	0.0	0.0	20.8	(1)
G-8	12:00	0.0	0.0	0.0	0.0	20.8	(1)
G-9	11:44	0.0	0.0	0.0	1.5	16.2	(1)
G-10	13:07	0.0	0.0	0.0	0.0	20.8	(1)
Speedway Office	9:41	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 1/3/2022
Checked by: K. Vater 1/12/2022