

SCS ENGINEERS

June 8, 2017
File No. 23212007.05

Ms. Tracy Buchanan
Ohio EPA Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Subject: Village of St. Bernard Landfill
Quarterly Probe Monitoring Results, June 8, 2017

Dear Ms. Buchanan:

Enclosed please find the results of the gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on June 8, 2017.

No combustible gas concentrations at or above the compliance threshold were detected at any of the probes in the compliance monitoring network, except for MP-10. MP-10 had a sustained reading of 30.5 percent combustible gas. The verification reading had a sustained reading of 22.0 percent. Contingency monitoring will therefore be implemented for MP-10.

One probe, MP-7E was watered in at the time of the previous monitoring event. The water level has fallen below the top of the screen in MP-7E.

It is anticipated that the next quarterly monitoring event will be performed during the first full week in September.

Should you have any questions or comments, please contact the undersigned.

Sincerely,



Randall C. Mills, P.G.
Senior Project Professional
SCS ENGINEERS



James J. Walsh, P.E.
Principal
SCS ENGINEERS

cc: Chuck DeJonckheere, Hamilton County Public Health
Nick Schapman, GHD
John Estep, Mayor, Village of St. Bernard

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>06/08/17</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>Clear, some high clouds, light breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>67</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>30.01</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>63</u>

Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH ₄ (% by Volume)	Sustained CH ₄ (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen [#] (feet)
MP-1	9:16	9:17	0.01	0	0	9.28	not known	
MP-7E	9:59	10:00	0	0	0	6.16	3	3.2
MP-7H	10:54	10:55	-0.26	0	0	3.17	2	1.2
MP-8F	9:53	9:54	0	0	0	7.19	4	3.2
MP-9	9:48	9:49	-0.08	0	0	4.46	2	2.5
MP-10	9:36	9:37	-0.21	0.2	30.5	4.52	2	2.5
MP-16	9:22	9:23	-0.27	0	0	4.90	2	2.9
MP-17	9:27	9:28	-0.03	0	0	11.66	2	9.7
MP-10	9:40	9:41	0.26	30.0	29.1	--	--	--

Notes:

Signature: *Randall C. Mills*

[#] A zero or negative value indicates that the probe is watered in.