

SCS ENGINEERS

December 9, 2016
File No. 23212007.04

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

Subject: Village of St. Bernard Landfill
Quarterly, Monthly, and Contingency Probe Monitoring Results, December 8, 2016

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 December 8, 2016.

Combustible gas concentrations above the compliance threshold were still detected at MP-10, which is under contingency monitoring. MP-10 had an initial concentration of 5.7 percent and a sustained concentration of 6.4 percent. The immediate verification sample at MP-10 had an initial concentration of 6.7 percent and a sustained concentration of 6.3 percent. Contingency Monitoring will continue at MP-10 as described in the EGMP. Combustible gas concentrations above the compliance threshold were also detected at MP-9. MP-9 had an initial concentration of 5.8 percent and a sustained concentration of 6.4 percent. The immediate verification sample at MP-9 had an initial concentration of 7.0 percent and a sustained concentration of 7.5 percent. Contingency Monitoring will be implemented at MP-9 as described in the EGMP.

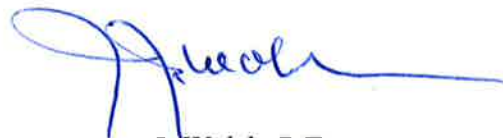
No combustible gas concentrations at or above the compliance threshold were detected at any of the other probes in the compliance monitoring network. It is anticipated that the next quarterly monitoring event will be performed during the first full week in December. It is anticipated that the next monthly monitoring event for MP-8F will be performed during the first full week in January. MP-10 and MP-9 will be monitored weekly until the criteria for ending the contingency monitoring are met.

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>12/08/16</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>partly cloudy, breezy</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>27</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>30.37</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>64</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	13:50	13:51	-0.01	0	0	9.30	not known	
MP-7E	14:38	14:39	0.04	0.1	0.1	8.62	3	5.6
MP-7H	14:45	14:46	-0.22	0.1	0.1	5.43	2	3.4
MP-8F	14:30	14:31	-0.01	0.1	0.1	9.06	4	5.1
MP-9	14:19	14:20	1.66	5.8	6.4	7.77	2	5.8
MP-10	14:09	14:10	0.04	5.7	6.4	5.11	2	3.1
MP-16	13:56	13:57	-0.42	0	0	5.01	2	3.0
MP-17	14:01	14:02	-0.15	0	0	dry to 11.75	2	9.8
verification resampling								
MP-10	14:12	14:13	-0.01	6.7	6.3	--	--	--
MP-9	14:25	14:26	2.27	7.0	7.5	--	--	--

Notes:

Signature: *Randall C. Mills*

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