

October 7, 2020
File No. 23212007.08

Ms. Maria Lammers
Ohio EPA Southwest District Office
401 East Fifth Street
Dayton, OH 45402-2911

Submitted Electronically

Subject: St. Bernard Landfill, Blower Shutdown Test Monthly & Weekly Monitoring

Dear Ms. Lammers:

This letter presents the results of September monthly monitoring for the blower shutdown test. The following activities were performed this month:

- Tuesday October 6th – a monthly round of post shutdown monitoring of the compliance probes was performed for those wells not being monitored at a minimum frequency of weekly.
- Tuesday October 6th – bi weekly readings were performed at MP-7E and MP-9.

The monitoring form is attached. No combustible gas concentrations at or above 5 percent were recorded at any of the probes.

Per the work plan for the blower shutdown test, monitoring at MP-7E and MP-9 will be performed no less frequently than weekly until four sequential monitoring events, over a minimum period of two weeks, are below 5 percent. The next monthly monitoring of all the compliance probes is tentatively scheduled to occur during the first week in November. The next monitoring at MP-7E and MP-9 is scheduled for Friday, October 9th.

Please contact the undersigned if you have any questions.

Sincerely,



Randall C. Mills, P.G.
Senior Project Scientist
SCS Engineers



James J. Walsh, P.E.
Project Director
SCS Engineers

RCM/JJW

cc Jonathan Stuchell, Mayor, Village of St. Bernard
Tom Paul, Service Director, Village of St. Bernard
Nick Schapman, GHD
Chuck DeJonckheere, Hamilton County Health Dept.



Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>10/06/20</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>clear, calm</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>46</u>
Calibration Gas: <u>CH₄ 15%, CO₂ 15%, O₂ 4%</u>	Barometric Pressure (in Hg): <u>29.59</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>81</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	9:00	9:01	-0.01	0	0	9.27	not known	
MP-7E	8:33	8:34	-0.01	0	0	8.72	2	6.7
MP-7H	8:27	8:28	-0.03	0	0	6.24	2	4.2
MP-8F	8:38	8:39	-0.01	0	0	9.10	2	7.1
MP-9	8:44	8:45	0.01	0	0	8.47	2	6.5
MP-16	8:55	8:56	-0.03	0	0	8.97	2	7.0
MP-17	8:49	8:50	0.02	0	0	>11.77	2	9.8

Notes:

Signature: *Randall C. Mills*

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