

September 3, 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 Monitoring, Monthly Monitoring Report 2

Dear Ms. Lammers:

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

- Wednesday September 2<sup>nd</sup> – a monthly round of post shutdown monitoring of the compliance probes was performed.
- Thursday September 3<sup>rd</sup> – verification monitoring was performed at MP-7E and MP-9.

The monitoring forms are attached. Combustible gas concentrations at or above 5 percent were recorded at MP-7E and MP-9 during the initial monitoring. Verification readings were performed and the combustible gas concentrations remained above 5 percent at both probes.

Per the work plan for the blower shutdown test, weekly monitoring and reporting will be performed until the exceedances are resolved. The next monthly monitoring of the compliance probes is tentatively scheduled to occur on Friday, October 2<sup>nd</sup>.

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>09/02/20</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>overcast, occ. light rain</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>76</u>
Calibration Gas: <u>CH<sub>4</sub> 15%, CO<sub>2</sub> 15%, O<sub>2</sub> 4%</u>	Barometric Pressure (in Hg): <u>29.85</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>89</u>

Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH <sub>4</sub> (%) by Volume)	Sustained CH <sub>4</sub> (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen <sup>#</sup> (feet)
MP-1	10:56	10:57	0.04	0	0	9.25	not known	
MP-7E	10:17	10:18	0	13.9	11.3	7.84	2	5.8
MP-7E	10:20	10:21	-0.01	8.4	7.2	--	--	--
MP-7H	10:11	10:12	0.03	0	0	5.59	2	3.6
MP-8F	10:29	10:30	0.01	0	0	8.45	2	6.4
MP-9	10:43	10:44	0.01	26.4	29.0	7.75	2	5.8
MP-9	10:37	10:38	0	28.8	28.9	--	--	--
MP-16	10:51	10:52	0.01	0	0	7.98	2	6.0
MP-17	10:45	10:46	0.03	0	0	>11.78	2	9.7

Notes:

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Signature: *Randall C. Mills*

<sup>#</sup> A zero or negative value indicates that the probe is watered in.

## Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>09/03/20</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>overcast, light breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>76</u>
Calibration Gas: <u>CH<sub>4</sub> 15%, CO<sub>2</sub> 15%, O<sub>2</sub> 4%</u>	Barometric Pressure (in Hg): <u>29.82</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>86</u>

Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH <sub>4</sub> (%) by Volume)	Sustained CH <sub>4</sub> (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen <sup>#</sup> (feet)
MP-1								
MP-7E	11:06	11:07	0.04	11.2	10.0	7.83	2	5.8
MP-7H								
MP-8F								
MP-9	11:14	11:15	0.01	29.9	30.2	7.72	2	5.7
MP-16								
MP-17								

Notes:

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Signature: *Randall C. Mills*

<sup>#</sup> A zero or negative value indicates that the probe is watered in.