

## SCS ENGINEERS

January 12, 2015  
File No. 23212007.02

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

Subject: Village of St. Bernard Landfill  
Probe Monitoring Results, January 9, 2015

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 January 9, 2015.

The extreme cold weather caused conditions that prevented 9 of the 14 compliance probes that are monitored monthly from being monitored. These conditions ranged from having the entire inside of the flush mount protective casing filled with ice to having the interior of the quick connect coupling frozen. No combustible gas concentrations at or above the compliance threshold were detected at the 5 probes in the compliance monitoring network that could be monitored.

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 Health Dept.  
Nick Schapman, CRA  
Bill Burkhardt, Mayor, Village of St. Bernard

Enclosures

## Compliance Probe Monitoring Form for St. Bernard Landfill

Date: <u>1/9/2015</u>	Sampler: <u>Randall Mills</u>
Instrument: <u>GEM 5000</u>	Weather: <u>mostly sunny, moderate breeze</u>
Calibration Prior to Sampling: <u>Yes</u>	Ambient Air Temperature (°F): <u>19</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>30.36</u>
Recalibration: <u>No</u>	Relative Humidity (%): <u>46</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* (feet)
MP-1	11:21	11:22	0	0	0	9.32	not known	
MP-7E	12:23	12:24	0.03	0	0	7.73	3	4.7
MP-7F	quick connect frozen							
MP-7G	frozen solid							
MP-7H	frozen to middle of quick connect							
MP-8D	11:51	11:52	0.02	0	0	8.59	4	4.6
MP-8E	12:03	12:04	0.00	0	0	8.76	4	4.8
MP-8F	12:11	12:12	-0.03	0	0	quick connect frozen to cap .		
MP-8G	quick connect frozen							
MP-9	quick connect frozen							
MP-10	frozen solid							
MP-15	quick connect frozen							
MP-16	quick connect frozen							
MP-17	quick connect frozen							

Notes: Next complete round of probe monitoring with water level measurements is scheduled for first full week in February.

Signature: *Randall C. Mills*

\* A zero or negative value indicates that the probe is watered in.