## SCS ENGINEERS

December 2, 2015 File No. 23212007.03

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, December 2, 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 December 2, 2015.

Combustible gas concentrations above the compliance threshold were detected at MP-8F. MP-8F had an initial concentration of 9.1 percent and a sustained concentration of 9.7 percent. The immediate verification sample at MP-8F had an initial concentration of 10.0 percent and a sustained concentration of 9.8 percent. None of the other compliance probes had combustible gas concentrations above the threshold limit. This threshold exceedance will trigger the implementation of Contingency Monitoring as described in the EGMP. It is anticipated that the next monitoring event will be performed during the week of December 7<sup>th</sup>.

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

Randall ( miles

Bill Burkhardt, Mayor, Village of St. Bernard

Enclosures

## Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	12/2/2015				Sampler: Randall Mills				
Instrument						clear to partly cloudy, calm			
	bration Prior to Sampling: Yes				Ambient Air Ter	nperature (°F):	41		
		CH₄ 15%, CO	<sub>2</sub> 15%, O <sub>2</sub> 4%		Barometric Pres	rometric Pressure (in Hg):		29.81	
		No			Relative Humidi	ty (%):	100		
				: 	· · · · · · · · · · · · · · · · · · ·				
							Depth to		
							Top of		
						Depth to	Screen		
			Gas			Water Level	(feet	0	
			Pressure			(feet below	below	Open #	
			(inches	Initial CH₄ (%	Sustained CH₄	ground	ground	Screen#	
Probe ID	Start Time	Stop Time	water)	by Volume)	(% by Volume)	surface)	surface)	(feet)	
MP-1	8:37	8:38	0	0.1	0	9.30	not known		
MP-7E	9:18	9:19	0	0	0	5.59	3	2.6	
MP-7H	9:25	9:26	-0.32	0	0	4.40	2	2.4	
MP-8F	9:08	9:09	0.01	9.1	9.7	8.17	4	4.2	
MP-9	9:03	9:04	-1.26	0	0	4.83	2	2.8	
MP-10	8:57	8:58	3.52	0	0	4.24	2	2.2	
MP-16	8:42	8:43	0	0	0	4.82	2	2.8	
MP-17	8:49	8:50	-0.16	0	0	>11.74	2	9.7	
MP-8F	9:11	9:12	0	10.0	9.8				
MP-8F	10:31	10:32	-0.02	9.2	9.4				
Notes:									
	1								
Signature:	Signature: Randall C. mills								

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