## SCS ENGINEERS

September 29, 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

Probe Monitoring Results, September 29, 2016

Dear Ms. Buchanan:

Enclosed please find the results of the contingency gas monitoring performed at MP-10 on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on September 29, 2016.

Combustible gas concentrations above the compliance threshold were detected at MP-10. MP-10 had an initial concentration of 10.8 percent and a sustained concentration of 23.3 percent. The immediate verification sample at MP-10 had an initial concentration of 6.5 percent and a sustained concentration of 15.9 percent. Contingency Monitoring at MP-10 will therefore continue as described in the EGMP.

The concentration of methane at MP-10 appears to be decreasing. The absence of pressure at MP-10 indicated that there is no driving force that could cause gas migration over any significant distance. The methane detected at MP-10 is likely either a localized concentration or is present due to migration driven only by a concentration gradient/diffusion. At this time, no further remedial actions are proposed.

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

Candall C mills

Enclosures

## Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	e: 09/29/16					Randall Mills			
Instrument					Weather: overcast, calm				
Calibration Prior to Sampling: Yes					Ambient Air Ter	mperature (°F):		55	
Calibration Gas:		CH <sub>4</sub> 15%, CO	<sub>2</sub> 15%, O <sub>2</sub> 4%		Barometric Pressure (in Hg):			30.06	
Recalibration:		No		<del></del> :	Relative Humidi	e Humidity (%):		93	
		1					Depth to		
							/Top of		
			_			Depth to	Screen		
			Gas			Water Level	(feet	Open	
			Pressure		04	(feet below	below		
			(inches	Initial CH₄ (%	Sustained CH <sub>4</sub>	ground	ground	Screen#	
Probe ID	Start Time	Stop Time	water)	by Volume)	(% by Volume)	surface)	surface)	(feet)	
MP-1							not known	No. of Contrast	
MP-7E							3		
MP-7H							2		
MP-8F							2		
MP-9	0.00	0.07	0.04	40.0	22.2	4.04	2	2.8	
MP-10	8:26	8:27	0.01	10.8	23.3	4.84	2	2.0	
MP-16							2		
MP-17									
MP-10	8:31	8:32	-0.01	6.5	15.9	((e.(e.)			
1011 - 10	0.51	0.02	-0.01	0.0	10.0	117561			
		19							
Notes:									
				-					
P min									
Signature: Rendall C. Mills									

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