SCS ENGINEERS

October 31, 2017 File No. 23212007.05

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

Submitted Electronically

Subject: Village of St. Bernard Landfill

MP-10 Contingency Probe Monitoring Results, October 31, 2017

Dear Ms. Buchanan:

Enclosed please find the results of the contingency gas monitoring at MP-10 performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on October 31, 2017.

MP-10 had a sustained reading of 14.4 percent combustible gas. The verification reading had a sustained reading of 14.0 percent. Contingency monitoring will therefore continue to be implemented for MP-10.

Following the initial and verification sampling for this contingency monitoring event, MP-10 was pumped for 30 minutes, at a rate of approximately 550 cc/min., using the GEM 5000. Approximately 25 casing volumes were removed from MP-10 and the combustible gas concentration was 0.5 percent. The falling methane concentration during the 30 minute purge indicates that the elevated concentration of methane is present in a small area, i.e. only a small volume of soil gas with an elevated concentration of methane is present.

Per our discussion on October 12, 2017, we agreed to perform a bar punch to demonstrate that the exceedance at MP-10 is localized, does not extend towards 437 Bank Avenue (the Kistner residence), and therefore does not present a risk to the occupied structure(s) in the vicinity of MP-10. A bar punch reading was performed at BP-1, located in the southwest corner of 437 Bank Avenue. No combustible gas was detected at BP-1.

Should you have any questions or comments, please contact the undersigned.

Sincerely,

Randall C. Mills, P.G.

Senior Project Professional

SCS ENGINEERS

Principal

SCS ENGINEERS

Chuck DeJonckheere, Hamilton County Public Health

Nick Schapman, GHD

andall C. mills

John Estep, Mayor, Village of St. Bernard

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	10/31/17				Sampler: Randall Mills			
Instrument	GEM 5000				Weather: partly cloudy, light breeze			
Calibration Prior to S	:	Yes	Ambient Air Ter	nperature (°F):		46		
Calibration Gas:	255 PASS (1945 PASS)			02 4%	Barometric Pressure (in Hg):			30.24
Recalibration: No				Relative Humidity (%):			54	
							Depth to	
							Top of	
						Depth to	Screen	
			Gas			Water Level	(feet	_
			Pressure			(feet below	below	Open
	Start	Stop	(inches	Initial CH₄ (%	Sustained CH₄	ground	ground	Screen#
Probe ID	Time	Time	water)	by Volume)	(% by Volume)	surface)	surface)	(feet)
MP-1							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10 first reading	13:43	13:44	0	14.2	14.4	4.50	2	2.5
MP-16							2	
MP-17						-	2	
MP-10 verification	13:46	13:47	-1.30	14.2	14.0			
MP-10 purge	13:49	14:19	-0.22	10.8	0.5			
BP-1	14:31	14:31		0	0			
DF-1	17.51	14.01						
Notes:								
Notes.								
						E		
Signature: Rendul	(mille							
Signature: Kondull	C. TIWELL							

^{*} A zero or negative value indicates that the probe is watered in.