Submitted Electronically

SCS ENGINEERS

October 11, 2017 File No. 23212007.05

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

Subject: Village of St. Bernard Landfill

MP-10 Contingency Probe Monitoring Results, October 11, 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 11, 2017.

MP-10 had a sustained reading of 42.0 percent combustible gas. The verification reading had a sustained reading of 42.3 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 0.1 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.

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

Chuck DeJonckheere, Hamilton County Public Health

Nick Schapman, GHD

Kandall C. Mills

John Estep, Mayor, Village of St. Bernard

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:		10/11/				Randall Mills		
Instrument		GEM 500	00	_		overcast, moderate breeze		
Calibration Prior to S	.	Yes		Ambient Air Ter	nperature (°F):	65		
Calibration Gas:	CH ₄ 15%, CO ₂ 15%, O ₂ 4			02 4%	Barometric Pressure (in Hg):			30.06
Recalibration:	No				Relative Humidi	elative Humidity (%):		77
Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH₄ (% by Volume)	Sustained CH₄ (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen# (feet)
	Time	TITLE	water)	by volume)	(70 by Volume)	Juliace)	not known	(100t)
MP-1							3	
MP-7E							2	
MP-7H MP-8F							4	
MP-9							2	
MP-10 first reading	14:05	14:06	4.49	42.6	42.0	4.31	2	2.3
MP-16 MP-16	14.00	14.00	7.73	42.0	72.0	1.01	2	
MP-17							2	
MP-10 verification	14:08	14:09	1.96	43.0	42.3			; - :
MP-10 purge	14:12	14:42	-0.03	40.5	0.1	~ -	H -	
Notes:								
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Signature: Randell C. Mills								
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^{*} A zero or negative value indicates that the probe is watered in.