SCS ENGINEERS

August 23, 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, August 23, 2017

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 August 23, 2017.

MP-10 had a sustained reading of 33.7 percent combustible gas. The verification reading had a sustained reading of 33.6 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 4.5 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.

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

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Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	08/23/17				Sampler:	Randall Mills			
Instrument	GEM 5000				Weather:	her: clear, light breeze			
Calibration Prior to Sampling: Yes					Ambient Air Temperature (°F): 74				
Calibration Gas:	CH ₄ 15%, CO ₂ 15%, O ₂ 4%			Barometric Pressure (in Hg): 30.03		30.03			
Recalibration:	No				Relative Humidity (%): 5		52		
							Depth to		
							Top of		
						Depth to	Screen		
			Gas			Water Level	(feet	0	
(5			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					20.7	4.00	2	2.9	
MP-10 first reading	10:45	10:46	0.00	33.1	33.7	4.92	2 2	2.9	
MP-16							2	-	
MP-17	10:48	10.10	0.01	33.3	33.6		2		
MP-10 verification MP-10 purge	10:46	10:49 11:21	0.01	31.9	4.5				
MP-10 purge	10.51	11.21	0.01	31.9	4.5	, ਜ	1523	9.00	
Notes:									
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Signature: Rankell C. Milli									

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