Environmental Consultants
and Contractors

2060 Reading Road
Suite 200
Cincinnati, OH 45202-1497

513 421-5353
www.scsengineers.com

SCS ENGINEERS

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File No. 23212007.05

Submitted Electronically

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 3, 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 3, 2017.

MP-10 had a sustained reading of 21.7 percent combustible gas. The verification reading had a sustained reading of 21.0 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 2.9 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

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

Enclosures

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	10/03/17	Sampler:	Randall Mills
Instrument	GEM 5000	Weather:	some clouds, calm
Calibration Prior to Sampling:	Yes	Ambient Air Temperature (°F):	57
Calibration Gas:	CH_4 15%, CO_2 15%, O_2 4%	Barometric Pressure (in Hg):	30.45
Recalibration:	No	Relative Humidity (%):	96

Probe ID	Start Time	Stop Time	Gas Pressure (inches water)	Initial CH_4 (% by Volume)	Sustained CH_4 (% by Volume)	Depth to Water Level (feet below ground surface)	Depth to Top of Screen (feet below ground surface)	Open Screen[#] (feet)
MP-1							not known	
MP-7E							3	
MP-7H							2	
MP-8F							4	
MP-9							2	
MP-10 first reading	8:37	8:38	0.01	21.0	21.7	5.21	2	3.2
MP-16							2	
MP-17							2	
MP-10 verification	8:40	8:41	0.01	21.6	21.0	--	--	--
MP-10 purge	8:44	9:14	-0.01	19.0	2.9	--	--	--

Notes:

Signature: Randall C. Mills

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