SCS ENGINEERS

Environmental Consultants & Contractors

October 25, 2021 File No. 23212007.09

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

Submitted Electronically

Subject:

Village of St. Bernard Landfill

MP-9 Weekly Contingency Monitoring Report

Dear Ms. Lammers:

Attached please find the results of the weekly contingency gas monitoring at MP-9, performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on October 20, 2021.

MP-9 had an initial sustained reading of 48.7 percent combustible gas. The verification reading had a sustained reading of 45.0 percent. Contingency monitoring will therefore continue to be performed at MP-9 until sufficient data has been collected to meet the cessation criteria.

Following the initial and verification sampling for this contingency monitoring event, MP-9 was pumped for 20 minutes, at a rate of approximately 550 cc/min., using the GEM 5000. Approximately 10 casing volumes were removed from MP-9. Following the purge, the sustained combustible gas concentration was 19.1 percent. The falling methane concentration during the 20 minute purge indicates that the elevated concentration of methane is present in a small area, i.e. there is only a small volume of soil gas with an elevated concentration of methane present.

In addition to the monitoring of MP-9, a temporary bar punch test, BP-1, was performed 5 feet from the property fence in between MP-9 and the residence at 437 Bank Avenue. The bar punch did not detect any combustible gas.

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

Sincerely,

Randall C. Mills, P.G. Senior Project Scientist

Kandall C. Mills

SCS Engineers

James J. Walsh, P.E.

Principal SCS Engineers

RCM/JJW

cc: Nick Schapman, GHD
Tom Paul, Village of St. Bernard
Jonathan Stuchell, Village of St. Bernard
Chuck DeJonckheere, R.S., Hamilton County Public Health

Encl.

Compliance Probe Monitoring Form for St. Bernard Landfill

Date:	10/20/21				Sampler: Randall Mills			
Instrument		GEM 500	00		Weather:	clear, calm		
Calibration Prior to Sampling: Yes					Ambient Air Temperature (°F): 71			
Calibration Gas: CH ₄ 15%, CO ₂ 15%, O ₂ 4			0 ₂ 4%	Barometric Pressure (in Hg):		29.55		
Recalibration: No					Relative Humidity (%):		52.00	
	•							
							Depth to	
							Top of	
						Depth to	Screen	
			Gas			Water Level	(feet	_
			Pressure			(feet below	below	Open
	Start	Stop	(inches	Initial CH ₄ (%	Sustained CH ₄	ground	ground	Screen [#]
Probe ID	Time	Time	water)	by Volume)	(% by Volume)	surface)	surface)	(feet)
MP-9	11:17	11:18	-0.24	47.1	48.7	7.82	2	5.8
			_					
MP-9 validation	11:21	11:22	0	47.0	45			
MP-9 post purge	11:46	11:47	-0.05	14.6	19.1			
Wii -5 post purge	11.40	11.77	-0.00	14.0	13.1			
BP-1	11:58	11:59	0	0	0			
Notes:				et from the prop I37 Bank Avenu	erty fence in bet e.	ween MP-9 and	the	
Signature: Rankd	l Cmills							

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