

## SCS ENGINEERS

September 15, 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  
Quarterly Probe Monitoring Results, and  
MP-10 & MP-7E Contingency Probe Monitoring Results, September 12, 2017  
MP-7E Contingency Probe Monitoring Results, September 14, 2017

Dear Ms. Buchanan:

Enclosed please find the results of the contingency gas monitoring at MP-10 and MP-7E performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on September 12, 2017 and the contingency gas monitoring performed at MP-7E on September 14, 2017.

MP-10 had a sustained reading of 23.2 percent combustible gas. The verification reading had a sustained reading of 6.6 percent. Contingency monitoring will therefore continue to be implemented for MP-10.

The sustained reading at MP-7E on September 12<sup>th</sup> was 1.9 percent. Because the reading was below 5 percent, a second reading was performed during this week to begin the process of collecting the 4 readings over a minimum 2-week period required to terminate contingency monitoring. On September 14<sup>th</sup>, the sustained reading at MP-7E was 0.9 percent.

Following the initial and verification sampling for this contingency monitoring event, MP-10 was pumped for 20 minutes, at a rate of approximately 550 cc/min., using the GEM 5000. Approximately 19 casing volumes were removed from MP-10 and the combustible gas concentration was 4.9 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. 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

Enclosures



