## SCS ENGINEERS

March 19, 2018 File No. 23212007.06

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** 

Dear Ms. Buchanan:

Enclosed please find the results of the quarterly gas monitoring performed on behalf of the Village of St. Bernard at the closed St. Bernard Landfill on March 14, 2018. Note that MP-10 has been removed from the monitoring network per the OEPA approval letter dated February 13, 2018. MP-10 will be abandoned as soon as feasible and notice of the scheduled date will be provided to Ohio EPA prior to the abandonment.

No combustible gas concentrations at or above the compliance threshold were detected at any of the probes in the compliance monitoring network. The monitoring results are attached.

It is anticipated that the next quarterly monitoring event will be performed during the first full week in June 2018.

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

Sincerely,

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

Randall C. Mills

SCS ENGINEERS

James J. Walsh, P.E.

Principal

SCS ENGINEERS

RCM/JJW

cc Nick Schapman, GHD
Tom Paul, Village of St. Bernard
John Estep, Village of St. Bernard

Chuck DeJonckheere, R.S., Hamilton County Public Health

Attachment

## **Compliance Probe Monitoring Form for St. Bernard Landfill**

| Date:  | 03/14/18   |       |                          |                   | Sampler: Randall Mills       |                                     |                    |         |
|--|------------|-------|--------------------------|-------------------|------------------------------|-------------------------------------|--------------------|---------|
| Instrument   | GEM 5000   |       |                          |                   | Weather:                     | mostly cloudy, mod. breeze to windy |                    |         |
| Calibration Prior to Sampling: Yes                         |            |       |                          |                   | Ambient Air Ter              | nperature (°F):                     |                    | 41      |
| Calibration Gas: CH <sub>4</sub> 15%, CO <sub>2</sub> 15%, |            |       | , CO <sub>2</sub> 15%, C | 0 <sub>2</sub> 4% | Barometric Pressure (in Hg): |                                     | 30.06              |         |
| Recalibration: No  |            |       |                          | Relative Humid    | lative Humidity (%):         |                                     | 40                 |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     | Depth to<br>Top of | 1       |
|  |            |       |                          |                   |                              | Depth to                            | Screen             | İ       |
|  |            |       | Gas                      |                   |                              | Water Level                         | (feet              | 1       |
|  |            |       | Pressure                 |                   |                              | (feet below                         | below              | Open    |
|  | Start      | Stop  | (inches                  | Initial CH₄ (%    | Sustained CH <sub>4</sub>    | ground                              | ground             | Screen# |
| Probe ID   | Time       | Time  | water)                   | by Volume)        | (% by Volume)                | surface)                            | surface)           | (feet)  |
| MP-1   | 15:21      | 15:22 | -0.01                    | 0                 | 0                            | 9.27                                | not known          |         |
| MP-7E  | 15:59      | 15:59 | -0.01                    | 0                 | 0                            | 4.85                                | 2                  | 2.9     |
| MP-7H  | 16:07      | 16:08 | -0.20                    | 0                 | 0                            | 2.25                                | 2                  | 0.3     |
| MP-8F  | 15:53      | 15:54 | -0.01                    | 0                 | 0                            | 6.66                                | 2                  | 4.7     |
| MP-9   | 15:48      | 15:49 | 0.29                     | 0                 | 0                            | 6.03                                | 2                  | 4.0     |
| MP-16  | 15:28      | 15:29 | -0.19                    | 0                 | 0                            | 5.20                                | 2                  | 3.2     |
| MP-17  | 15:33      | 15:34 | -0.06                    | 0                 | 0                            | 11.43                               | 2                  | 9.4     |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
| Notes:   |            |       |                          |                   |                              |                                     |                    |         |
| . 10100.   |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
|  |            |       |                          |                   |                              |                                     |                    |         |
| Signature: Ranka   | U C. Mille |       |                          |                   |                              |                                     |                    |         |

<sup>&</sup>lt;sup>#</sup> A zero or negative value indicates that the probe is watered in.