

December 14, 2019
File No. 02219702.00

Mr. Tom Farrell, Manager
Division of Solid Waste Enforcement
New Jersey Department of Environmental Protection
9 Ewing Street
Trenton, New Jersey 08625-0420

Mr. Jeffrey Meyer, Manager
Division of Air Enforcement
Bureau of Air Compliance and Enforcement
New Jersey Department of Environmental Protection
7 Ridgedale Avenue
Cedar Knolls, New Jersey 07927

Subject: December 12 and 13, 2019 Monitoring Station Data
Keegan Landfill
New Jersey Sports and Exposition Authority
Permit Activity Number: EIP190001
EA ID#: NEA 190001-13317

Dear Mr. Farrell and Mr. Meyer:

On December 12 and 13, 2019, NEXA, on behalf of the New Jersey Sports and Exposition Authority (NJSEA), notified the NJDEP hotline (1-877-WARNDEP) via phone that hydrogen sulfide (H₂S) gas measurements in excess of 30 ppb over a 30-minute period (rolling averages) were recorded at monitoring stations MS-1, MS-2, and MS-3 at the Keegan Landfill (see Attachment 1). NJSEA made these notifications, as required under the NJDEP-approved Monitoring Action Plan and Reference #11 of the subject Permit, for raw data collected from MS-1, MS-2, and MS-3 on December 12 and 13, 2019 (see Attachment 2). We provide discussion and analysis of the data recorded at MS-1, MS-2, and MS-3 below.

MONITORING STATION MS-1

The 30-minute rolling average H₂S concentration at Monitoring Station MS-1 was in excess of 30 ppb for intermittent periods between 5:06 pm on December 12 and 12:39 am on December 13 (see NEXA notifications in Attachment 1 and raw data in Attachment 2). The hydrogen sulfide concentration, wind speed and wind direction measured at the period of the exceedance are provided in Attachment 3. The wind speed and wind direction was 1.6 mph and 206 degrees (i.e., from the south-southwest). The wind direction and MS-1 are shown on a map of the site. The nearest potential receptor is approximately 2,500 feet from the monitoring station (see Attachment 4).

MONITORING STATION MS-2

The 30-minute rolling average H₂S concentration at Monitoring Station MS-2 was in excess of 30 ppb between 11:54 pm on December 12 and 12:51 am on December 13 (see NEXA notifications in Attachment 1 and raw data in Attachment 2). The hydrogen sulfide concentration, average wind



speed and wind direction measured during the period of the exceedances are provided in Attachment 3. The average wind speed and wind direction was 0.9 mph and 273 degrees (i.e., from the west). The wind direction and MS-2 are shown on a map of the site. The nearest potential receptor is approximately 3,500 feet from the monitoring station (see Attachment 4).

MONITORING STATION MS-3

The 30-minute rolling average H₂S concentration at Monitoring Station MS-3 was in excess of 30 ppb between 12:48 and 12:51 on December 13 (see NEXA notifications in Attachment 1 and raw data in Attachment 2). The hydrogen sulfide concentration, average wind speed and wind direction measured during the period of the exceedances are provided in Attachment 3. The average wind speed and wind direction was 1.4 mph and 6 degrees (i.e., from the north). The wind direction and MS-3 are shown on a map of the site. The nearest potential receptor is approximately 500 feet from the monitoring station (see Attachment 4).

The cause of the emissions from Monitoring Stations MS-1, MS-2, and MS-3 appears to be uncontrolled emissions from the Landfill. There was no corrective action implemented in accordance with the Odor Control Plan as the exceedances returned to less than 30 ppb by early morning on December 13.

The landfill gas collection and control system (GCCS) installation is complete and commenced operation on September 5, 2019. The GCCS is being continuously monitored and adjusted to ensure efficient collection of landfill gas and to address specific exceedances at the monitoring stations. Additionally, permit application documents including a second interim flare and an expansion of the GCCS on the eastern side of the Landfill were submitted to the DEP on December 2, 2019.

Please call either of the undersigned with any questions or comments.

Sincerely,



Christine H. Stokes
Project Manager
SCS Engineers



Lisa K. Wilkinson, PE
Project Director
SCS Engineers

cc: A. Fontana, NJDEP (electronic copy)
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Due to large size of this file, attachments are not posted but are available upon request by emailing info@njsea.com

