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Contact

Brian Aberback

Public Information Officer

Phone: 201-460-4619

Cell: 201-615-8570

baberback@njsea.com

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NJSEA Gas Collection and Control System Shows Significant Reductions in Hydrogen Sulfide Emissions at Keegan Landfill

LYNDHURST, N.J. – The New Jersey Sports and Exposition Authority (NJSEA), working under the oversight of the New Jersey Department of Environmental Protection (DEP), began operating its state-of-the-art Gas Collection and Control System for the Keegan Landfill in Kearny last Thursday, September 5, 2019, well ahead of the scheduled start date.

The system was designed for the purpose of collecting, containing and destroying landfill gas, particularly hydrogen sulfide, which can migrate off-site and cause an unpleasant rotten-egg or sulfur-like odor in the surrounding community. The NJSEA has been working expeditiously to combat this odor problem in order to provide relief and a solution for affected area residents.

The data collected by the perimeter monitoring stations located on the landfill have already shown significantly reduced hydrogen sulfide emissions emanating from the landfill. These lowered emissions have reduced the incidences of exceedances registered and reported to the NJDEP. The gas collection system must be adjusted carefully to ensure efficient collection of landfill gas, taking up to a few weeks to be fully balanced. Although the operations are at an early stage, the system is working as anticipated. Additionally, the NJSEA has been taking other measures to maintain compliance with NJDEP's regulations, including placement of additional cover material on the landfill surface.

Increased odors have been an issue at landfills across the region and the State, and the installation or expansion of gas collection and control systems has proven to be a successful engineering solution.

A properly designed, implemented and maintained landfill gas collection and control system, such as the NJSEA system at the Keegan Landfill, is considered the best engineering practice to address the situation

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