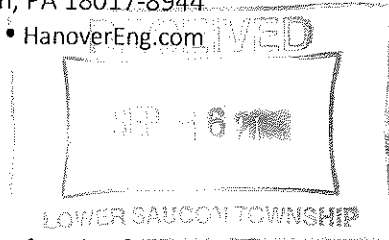


# Hanover Engineering

252 Brodhead Road • Suite 100 • Bethlehem, PA 18017-8944  
Phone: 610.691.5644 • Fax: 610.691.6968 • HanoverEng.com



September 2, 2016

Ms. Leslie Huhn, Township Manager  
Lower Saucon Township  
3700 Old Philadelphia Pike  
Bethlehem, PA 18015

RE: Inspection Conducted on September 1, 2016  
IESI Bethlehem Landfill  
Hanover Project LS90-7

Dear Ms. Huhn:

The purpose of this letter is to report the results of the above-referenced "Mid-meeting" inspection, which was conducted by me along with Mr. Mike Shelden, Operations Manager. The following items were noted during the inspection:

1. The Bethlehem Renewable Energy (BRE) plant was running.
2. The landfill flare was running at a flow rate of 1,625 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,656 degrees Fahrenheit. The instrument readout indicated that this flow rate was about forty-seven percent (47%) of the flare capacity. The paper chart record went back to August 31 and did not show any shutdowns in the last day. Mr. Shelden stated that the flare has not gone off-line since the last inspection. The largest blower was in operation.
3. The truck wash was in use due to muddy conditions.
4. No mud, odor, or blowing litter were observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or at the office parking lot. Sediment was present on the internal access road. Mr. Shelden stated that this would be swept following a pass by the water truck, which was observed spraying this road.
5. The northern mister line was observed to be running during the inspection. The southern mister line was also observed running. Wind during the inspection was from the west at an estimated zero to five miles per hour (0 - 5 mph). Garbage was being disposed of in Cell 4E Stage 3. One (1) truck was observed dumping, with zero (0) waiting. Trucks are still approaching and departing the working face from the top of the landfill. Windscreens were in place at the working face. The box wire "catch" fence is still in place. Cover soil is still being imported. No Alternative Daily Cover material is being used. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident. The temporary cap on the southern face was observed, and no inflation was observed. Mr. Shelden stated that there have been no recent problems with inflation of the cap.

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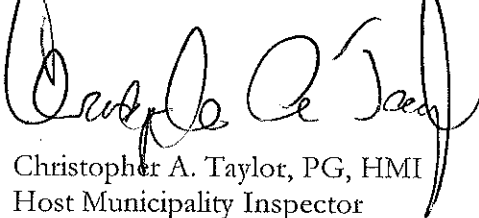
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11. The construction of the remainder of the MSE wall has progressed since the last inspection, but was not active today. The wall has now been extended to the point where it turns south near the water tower. The wall has stopped where the existing grade drops too steeply along its course. Mr. Sheldon stated that the filling that will create new Cell 4E Stage 4 must be advanced before the wall can be completed. This will create the base upon which the wall will be built.
12. Construction on new Cell 4E Stage 4 at the western end of the landfill has progressed since the last inspection, though it was not active today due to wet site conditions.
13. The cleanout of accumulated soil in Basin 4 is suspended awaiting drier conditions.
14. Mr. Sheldon stated that the PA DEP and SCS (landfill Air Quality consultant) conducted a joint air quality site inspection on August 22 and 23, as planned. He stated that this inspection revealed nine (9) areas where methane exceeded five hundred parts per million (500 ppm). Of these, seven (7) occurred in capped areas, and two (2) in uncapped areas. He stated that IESI is working to remediate these locations, and that the ten (10) day recheck has not yet taken place.
15. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road, starting at 11:37 AM. No sounds from the flare, truck traffic, or equipment were observed, and no landfill-related odors were observed. I conducted a driving patrol along Skyline Drive starting at 11:43 AM. No landfill-related odors were observed. No trucks or equipment were operating on the nearest part of the landfill at that time, so no sounds were observed. I conducted a driving patrol through Steel City starting at 11:54 AM. No landfill-related odors or sounds were observed.

If you have any comments or questions regarding any of the above, or find that you need additional information, please do not hesitate to call me immediately.

Respectfully,

HANOVER ENGINEERING



Christopher A. Taylor, PG, HMI  
Host Municipality Inspector

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