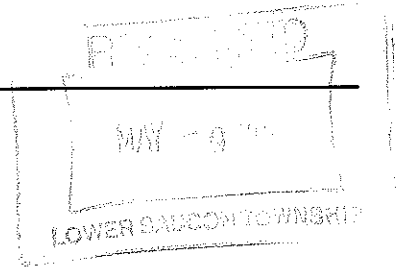


# Hanover

Engineering Associates Inc



May 6, 2016

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

RE: Inspection Conducted on May 5, 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. Allen Schleyer, District Manager for IESI, Mr. Nick Rogers, and Compliance Manager for IESI, Ms. Priscilla deLeon, Township Council liaison, and Ms. Donna Louder, Citizen Representative. The following items were noted during the inspection:

1. The Bethlehem Renewable Energy (BRE) plant was not running.
2. The landfill flare was running at a flow rate of 3,200 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,665 degrees Fahrenheit. The largest blower was observed to be in operation. The instrument readout indicated that the flare was running at approximately eighty-six percent (86%) capacity.
3. The truck wash was in use due to muddy conditions.
4. A lot of sediment was observed on the westbound lane of Applebutter Road, starting at the landfill entrance. No sediment was observed in the eastbound lane. No odor or blowing litter were observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or at the landfill office parking lot. Mr. Schleyer stated that he has had the street sweeper working to clean Applebutter Road, and would continue to do so. The internal access road also contains a lot of sediment. Mr. Schleyer will have this cleaned also.
5. Moderate landfill gas odors were observed near the west end of the MSE wall, directly above the working face.
6. The northern mister lines was observed to be running during the inspection. However, the eastern end of the line wasn't spraying strongly due to a missing nozzle that caused a pressure drop in this area. Mr. Schleyer will have this fixed.
7. Wind during the inspection was estimated at ten to twenty (10 - 20) miles per hour, blowing from the east/northeast.
8. Garbage was being disposed of in Cell 4E Stage 3, in the fluff layer along the northern slope of the cell. A spotter was stationed at the working face to check loads for objects that might damage the liner. Three (3) trucks were observed dumping, and three (3) were observed waiting. Windscreens were in place. A box wire fence meant to catch blowing litter was also previously installed at the top of the North Slope and is still in place. Daily cover soil material was observed staged at the working face during the inspection. A gas collection line was observed installed on the liner, just inside the limit of garbage on the North Slope. An intercool berm has been constructed along the western end of Cell 4E-3.

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 EAC  
 Engineer  
 Solicitor  
 Planner  
 Landfill  
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 Other

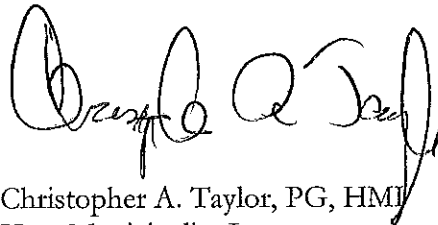
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9. Cover soil is still being imported. No Alternative Daily Cover material is being used. Soil for use as cover and in construction was previously stockpiled on site.
10. The face of the MSE wall has been cleaned by pickers, but some litter remains. Mr. Schleyer will have schedule workers to continue litter removal.
11. The wells on the top of the landfill that had methane exceedances during the last inspection were observed. Mr. Schleyer stated that these had been remediated. He stated that remediation was now taking place on the wells on the south face that had exceedances. A track hoe was observed staged in this area.
12. The west high wall was observed. A small sloughed area was observed near the middle of the wall. This did not erode the top rim of the wall, or foul the stormwater channel at the base of the wall.
13. The work to clean the sediment out of Basin 6 has resumed and is progressing.
14. The temporary capping project on the southern face is completed. Several large areas of the cap were observed to be "ballooned up" by landfill gas collecting underneath. Mr. Schleyer stated that the permanent gas collection system under the cap is not yet connected and drawing gas. However, in response to the accumulation of gas under portions of the cap, he has had temporary suction lines installed to draw out the gas and send it into the collection system. He stated that the work to install these temporary lines will completed tomorrow. A moderate landfill gas odor was observed to the west of the temporary cap area.
15. Following the inspection, I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road, starting at 11:58 AM. The sound of trucks on the landfill access road was observed. No sounds from the flare, and no landfill-related odors, were observed. I conducted a driving patrol along Skyline Drive starting at 12:05 PM. The sound of equipment travel alarms was observed. No landfill-related odors or were observed. I began a driving inspection through Steel City at 12:22 PM. 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 ASSOCIATES, INC.



Christopher A. Taylor, PG, HMI  
Host Municipality Inspector