

# Hanover

Engineering Associates Inc

December 3, 2015

Mr. Jack Cahalan, Manager  
Lower Saucon Township  
3700 Old Philadelphia Pike  
Bethlehem, PA 18015

RE: Inspection Conducted on December 3, 2015  
IESI Bethlehem Landfill  
Hanover Project LS90-7

Dear Mr. Cahalan:

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, and Ms. Priscilla deLeon, Township Council Liaison. 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 3,028 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,660 degrees Fahrenheit. The largest blower was observed to be in operation today. Mr. Schleyer stated that the flare has been able to keep up with the increased gas flow since the BRE plant has been down. He previously stated that he has been "exercising" the two (2) smaller blowers to make sure they are in working order. He attributed the gradual drop-off in gas flow to the flare to the onset of colder weather.
3. The truck wash was in use, due to muddy conditions from rain the previous two (2) days.
4. No mud, odor, or blowing litter was observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or at the landfill office parking lot. Sediment previously observed on the parking lot has been cleaned off.
5. A moderate, one time landfill gas odor was observed near the water tower during the inspection.
6. Neither the northern and southern mister lines were observed to be running during the inspection. Mr. Schleyer stated that they are in the process of winterizing this equipment.
7. Wind direction during the inspection was predominantly from the north to northwest (blowing from), with an estimated speed of fifteen to twenty-five miles per hour (15-25 mph).
8. Garbage was being disposed of in Cell 4B, at the top back of the landfill. Wind screens were in place at the working face. No trucks were dumping, and none were waiting, at the time.
9. Cover soil is still being imported. No Alternative Daily Cover material is being used.
10. Work to construct new Cell 4E Stage 3 is complete. Crushed stone has been installed over the liner. The construction certification documents are being submitted to the Department of Environmental Protection (DEP).

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  - P/C
  - P & R
  - EAC
  - Engineer
  - Solicitor
  - Planner
  - Landfill
  - EMC
  - Other

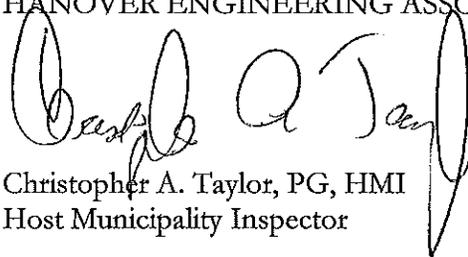
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11. The western face remains dressed, with no erosion rills.
12. Pickers were observed working to remove garbage along the top of the MSE wall.
13. The north slope road was driven and is fully passable. The perimeter fence in this area is fully intact.
14. The results of the recent DEP Air Quality inspection were discussed, and the locations of several of the methane exceedances were observed. All exceedance locations have been mitigated and subjected to a ten (10) day retest. Those results have not yet been received.
15. The west high wall was observed. No major changes since the last inspection were evident. No slope failures and no major movement of soil or rock along the wall were observed. Sediment previously observed in the stormwater channel at the base of the wall has been cleaned out.
16. Final capping in the area of Cell 4F is progressing. The synthetic cap has been welded to the adjacent permanent cap to the east. Boots and welds have been provided at all riser locations. Soil will be installed on top of the synthetic cap when conditions are conducive.
17. The temporary capping project is progressing. The placement, grading, and compaction of soil in the areas to receive temporary capping is complete. The installation of the synthetic cap material over this soil subbase will proceed next when site conditions are conducive.
18. The work to clean the sediment out of Basin 6 is suspended, pending suitable weather and site conditions.
19. Following the inspection, I conducted a driving patrol along Skyline Drive, beginning at 11:25AM. No landfill-related odors were observed during this inspection.
20. I conducted a driving patrol through Steel City starting at 11:35AM. No landfill-related odors or sounds were observed. This patrol did not extend through the Narrows, where Riverside Drive is still closed for road repairs.

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

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