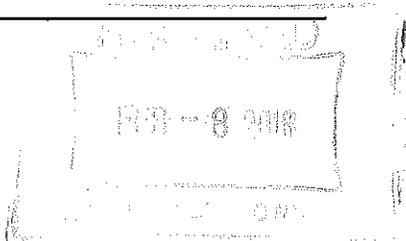


# Hanover

Engineering Associates Inc

February 4, 2016



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

RE: Inspection Conducted on February 4, 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. 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 3,185 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. Mr. Schleyer reconfirmed that the smaller blowers are being "exercised" on a regular basis to keep them ready in case they are needed.
3. The truck wash was in use, due to muddy conditions.
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. The internal access road has been swept to remove mud.
5. A moderate, intermittent working face (garbage) odor was observed between the end of the MSE wall and the LSA water tower, directly above the working face. No other odors were observed anywhere on the property during the inspection.
6. Neither the northern or southern mister lines were observed to be running during the inspection. These were previously winterized.
7. Wind direction during the inspection was predominantly from the west/northwest (blowing from), with an estimated speed of five to fifteen miles per hour (5 - 15 mph).
8. Garbage was being disposed of in newly-completed Cell 4E Stage 3. One (1) truck was observed dumping, and zero (0) were observed waiting. No windscreens were in place, since the working face is in the bottom of a large depression. This portion of cell filling is above the fluff layer at the southern end of the working face, and within the fluff layer on the northern end. Special precautions were being employed in the fluff layer section of the working face, including accepting only municipal waste loads and stationing a spotter to look for items that may damage the liner. Mr. Schleyer stated that a portion of Cell 4E-3 adjoining the existing cell to the east is being left unfilled for now to maintain gas odor control measures present in this area. The plan is to fill this area next week. Mr. Schleyer stated that they are

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- EMC

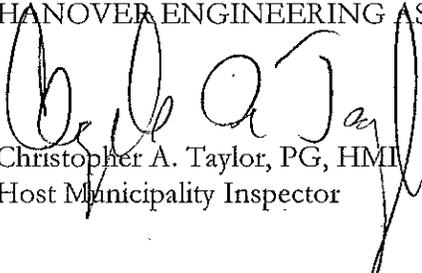
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- removing soil from the western face as disposal progresses to maintain garbage-to-garbage contact between waste in the old, adjoining cell and the new cell.
9. Cover soil is still being imported. No Alternative Daily Cover material is being used. Cover soil was being stockpiled at the working face so that garbage can be covered as soon as possible after placement.
  10. There were some erosion rills in the western face, but no garbage was exposed.
  11. The face of the MSE wall still has some litter stuck in the vegetation, but pickers were observed to be actively working to remove it.
  12. The northern perimeter silt fence is still breached in one (1) location. Mr. Schleyer is working with his staff presently to have this repaired.
  13. The west high wall was observed. No major changes since the last inspection were evident. No slope failure and no major movement of soil or rock along the wall were observed.
  14. The final capping project in the area of Cell 4F has progressed since the last inspection. The cap is now fully sealed to the adjacent capping to the east. Work to install a stormwater "downchannel" in the final capping area is progressing. This will carry water to benches which flow to the large stormwater channel which drains to Basin 2 on the south side, effectively taking runoff that would flow down the north slope and diverting it to the southern portion of the site.
  15. The temporary capping project on the south face has progressed. The placement of a geotextile drainage system and "wind defender" material has begun at the bottom of the slope. Soil has been placed on the lowest bench to create proper grading for drainage. The installation of the synthetic cap material over the soil subbase was previously completed and sealed to the adjacent permanent cap to the east. The gas collection lines have been placed under the synthetic cap. However, Mr. Schleyer advised that these are not permanently connected to the gas collection system. He stated that temporary connections can be made to draw gas from them, if necessary. Further work is awaiting suitable weather and site conditions.
  16. The work to clean the sediment out of Basin 6 is suspended, pending suitable weather and site conditions.
  17. Following the inspection, I conducted a driving patrol along Skyline Drive, beginning at 12:55 PM. No landfill-related odors were observed during this inspection.
  18. I conducted a driving patrol through Steel City starting at 1:05 PM. 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