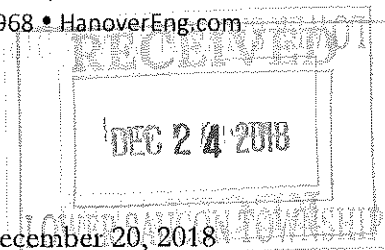


HanoverEngineering

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December 21, 2018



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

RE: Inspection Conducted on December 20, 2018
IESI Bethlehem Landfill
Hanover Project LS90-7

Dear Ms. Huhn:

The purpose of this letter is to report the results of the above-referenced "pre-meeting" inspection. The inspection was conducted by me along with David Pannucci, Regional Engineer. The following items were noted during the inspection:

1. The BRE plant was running at full capacity (both compressors online) at 1950 scfm.
 2. We entered the scale house to inspect trucking slips from Waste Connections' transfer stations. For both transfer stations combined, one (1) out of eleven (11) trucks were overweight.
 3. The landfill flare was running at a flow rate of 1,875 scfm and a temperature of 1,650 degrees Fahrenheit and appeared to be operating normally. There were no visible emissions from the flare at the time of the inspection. Mr. Pannucci stated that there have been no visible emissions since the incident on November 28, 2018 (see report of December 6, 2018 inspection). The bar graph on the instrument panel indicated that the flare was running at fifty-three percent (53%) of the Variable Frequency Drive (VFD) capacity. The largest blower was in operation. The paper chart went back to December 17 and showed consistent gas flow.
 4. The truck wash was not open due to below freezing conditions.
 5. A large amount of sediment was observed on Applebutter Road west of the landfill driveway. No blowing litter or odors were observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or the office parking lot. A street sweeper was observed cleaning the westbound lane of Applebutter Road earlier. Wind during the inspection was calm. Weather conditions were partly sunny to cloudy, cold, and dry.
- Garbage was being disposed of at one (1) working face in the northwest corner of Cell SE-1A. From here garbage is being pushed eastward to fill the cell all the way to the east side. The approach to the working face is stable. The first eight foot (8') "fluff lift" is still being installed. Only Municipal Solid Waste (MSW) is allowed in the fluff lift. One (1) truck was unloading on the tipper and one (1) was unloading conventionally. One (1) dozer was pushing garbage from the working face to the east end of the cell, one (1) dozer was spreading garbage at the east end of the cell, and one (1) dozer was spreading daily cover

ROUTING

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- Planner
- Landfill
- EMC
- Other

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- near the working face. Mr. Pannucci stated that the compactor was not in use because it was broken down. Soil for daily cover was also staged at the working face and at the east end of the cell. One (1) wind screen was in place at the east end of the cell. One (1) spotter was positioned at the working face to check for and remove any items that might damage the liner (since they are placing fluff lift).
8. The east end slope of the landfill contains garbage on the surface and needs to be dressed up or picked to cover the litter showing on the surface.
 9. One (2) picker was working on site to remove blown litter south of SE-1A.
 10. The north slope road was driven. No additional erosion since the last inspection was observed. The rock-lined drainage swale and rock check dams in front of the runoff points are still in good shape.
 11. No disposal is taking place at top of the landfill. Mr. Pannucci stated previously that they are at maximum elevation at the top.
 12. Mr. Pannucci stated that seeps on the south face have been remediated, but that more have occurred and will be remediated. Grass cover has established itself on the south face.
 13. The temporary cap on the south face was observed. No ballooning of the cap was occurring.
 14. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
 15. No odors were observed on the site.
 16. A street sweeper was observed cleaning internal roads during the inspection.
 17. It was observed that a vacuum truck was removing liquid from Leachate Management Chamber 6. Mr. Pannucci stated that the leachate pump had failed and would be replaced today.
 18. I cautioned Mr. Pannucci that a large rain event was forecast to take place beginning later today, and that he should be make ready for it.
 19. I observed that construction work was taking place at the base of the main gabion down channel on the south face. Mr. Pannucci stated that the channel had partially washed out. Upon removal of the gabion baskets on the lower portion of the channel, it was observed that multiple holes existed in the underlying liner. He stated that a capping crew was scheduled to come out next week and begin repairing/replacing the damaged liner sections as needed. This work will progress up the south face and encompass the entire length of the channel. This may be an area where stormwater is entering the waste pack and ultimately the leachate collection system.
 20. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road before the inspection, starting at 9:50 a.m. No landfill-related odors were observed. The sight and sound of trucks dumping garbage and equipment (dozers) on the landfill was observed. The sight of the tipper was observed. The sight and sound of a vacuum truck operating was observed. I conducted a driving patrol along Skyline Drive after the inspection, starting at 11:20 a.m. No landfill-related odors were observed. The sight and sound of trucks on the landfill (south face haul road) were observed from the end of Skyline Drive. I conducted a driving patrol through Steel City after the inspection, starting at 11:32 a.m. No landfill-related odors or sounds were observed from the entrance to the Hill Climb. On the driving patrol through the Narrows it was observed that the road downslope of the runoff point from the landfill was clean. No water was running at the time of the inspection (dry weather conditions).

Ms. Leslie Huhn
Township Manager

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December 21, 2018

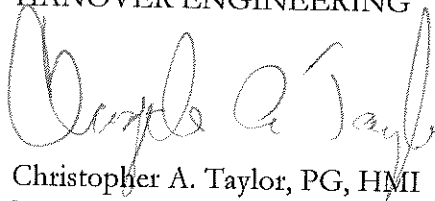
Activity Related to the Southeast Realignment Expansion

21. Newly constructed Cell SE-1A has received PA DEP certification and is now actively receiving garbage.

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

cat: llb

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