



am

February 27, 2012

FEB 29 2012

Mr. Sam Donato, Landfill Manager
IESI PA Bethlehem Landfill
2335 Applebutter Road
Bethlehem, PA 18015

Re: Engineer's Monthly Status Report
IESI PA Bethlehem Landfill
Lower Saucon Township, Northampton County
I.D. No. 100020

Dear Mr. Donato:

This Engineer's Status Report is for the month of January. The Engineer's meeting was held at the landfill on Thursday, February 9, 2012. This Report is informational only, without deadlines, and a response is required only if objections are taken to the items mentioned.

A. Pending Permit Applications

1. No major permit modifications pending at the present time.
2. The minor modification submitted on December 19, 2011 for the change to the grade of the boundary of Cell 4E (Westerly Anchor Trench), Phase IV, is under review. Lower Saucon Township's Engineer sent comments on the application to IESI on January 12, and IESI's consultants responded on February 9.
3. A construction certification Form 37 and associated documentation for Cell 4F, Stage 1 (which includes the MSE wall) was received on January 30, and is under review.

B. Construction Schedule

1. Currently disposing of waste at the interface of Cell 4D, stages 2 and 3, and moving into Cell 4D, stage 3.

C. Groundwater

1. Monitoring Wells: Total number of wells = 28
2. Abatement Wells: Total number of active wells = 10

ROUTING

- Council Manager
- Asst. Mgr.
- Zoning
- Finance
- Police
- P. Works
- P/C
- P & R
- EAC
- Engineer
- Solicitor
- Planner
- Landfill

EMC
Other

D. Gas Management

1. Average flow rate is around 1000 scfm from the flare and generally around 2200 to 2600 scfm from the turbine.
2. Up to three horizontal collectors in the Phase IV area were constructed earlier this month. These are intended to be a proactive response to minimize gas and odors from the Phase IV A/B area.

E. Leachate Management

1. Leachate management statistics for January are provided on the attached report from IESI.
2. Average daily leachate flow for January was 38,520 gallons. Total leachate generated for the month was 1,194,116 gallons, all of which went directly to the Bethlehem wastewater treatment plant.
3. A leachate cleanout pipe on the south side of Phase IV that had experienced excessive pressure and popped its endcap discharged into storm water basin #4 on January 12. The cause was reportedly a heavy rainfall that drained from the newly constructed, open Cell 4F. Subsequently, an estimated 285,000 gallons of leachate-contaminated storm water was pumped from the basin and discharged to the Bethlehem WWTP. All of the cleanout caps in that area were replaced with gasketed, bolted flanges fused to the piping. In addition, landfill personnel are working on connecting a gas collection vacuum line to those cleanouts which will essentially be a relief outlet in the event of another incident. Once Cell 4F is approved for disposal, they will then place the initial select waste lift, thereby providing waste mass to absorb storm water and have a slow release versus the immediate drain of the open cell.

F. Site Observations

1. Litter: No issues observed.
2. Odor: No offsite odors were detected at the time of this visit.
3. Daily Cover: No issues observed.
4. Intermediate Cover: No issues observed.
5. Two loads of C&D waste from the Allentown Arena demolition project set off radiation alarms on January 7 and were found to contain Radium 226. One load was sorted, reduced in size and consolidated with the second container. Its ultimate disposal was still being arranged as of the date of this meeting.

If you have any questions concerning this report, please contact me.

Sincerely,



Susan E. French
Environmental Engineer
Waste Management Program

Enclosure

cc: A. Schleyer/IESI PA Bethlehem Landfill (w/enc.)
Lower Saucon Township (w/enc)
Mr. Scott J. Brown/Hanover Engineering (w/enc.)
Mr. Kevin N. Bodner/Martin and Martin, Inc. (w/enc.)

PADEP ENGINEER'S REPORT

January 2012

Date: February 9, 2012

1. Site Operations:
 - a. Average Daily Volume 1375
 - b. Maximum Daily Volume 1800
 - c. Permitted Area 201
 - d. Permitted Disposal area 95
 - e. Capped acres 70
 - f. Constructed acres 68.7

2. Radiation Monitoring: **January**
 - a. Number of trucks that tripped the monitor 3
 - b. Number of trucks on hold or rejected 2 - Ra-226

3. Truck Safety & Overweight:
 - a. Number of Overweight Trucks 59
 - b. Number of Trucks Rejected Due To Overweight 0

4. Leachate Management:
 - a. Type of Discharge **Direct to WWTP**
 - b. Total Leachate Generated **January** gal. **** 1,194,116**
 - c. Untreated Effluent Discharge to WWTP 100%
 - d. Average Daily Flow gal. 38,520
 - e. Leachate hauled Offsite 0%
 - f. Detection zone flow (Max/week in g/a/d) **January**
LMC-6 - (23) LMC-7 - (17) LMC-8 - (334) PS-1 - (<1) PS-2 - (2)

**** An additional est 285,000 gallons of leachate contaminated stormwater from Basin #4 was also discharged to Bethlehem WWTP in January.**

5. Leachate Storage:
 - a. Total Influent Storage Capacity 1,490,000
 - b. 25% Influent Storage Capacity 372,500
 - c. Current Volume Stored **est. 20% Stormwater for Dust Control**

6. Gas Management
 - a. Number of vertical wells (LFG extraction wells and cleanouts) 108
 - b. Number of horizontal wells 28

7. Groundwater
 - a. Number of monitoring wells 28
 - b. Abatement wells (TW-1 shut off per DEP approval) 10

8. Reports Submitted:
 - a. Groundwater **Abatement report 1-17-12**
 - b. Air Monitoring **SSM notices electronic submittal**
 - c. Gas Reports **included in quarterly report**
 - d. Quarterly **4Q11 Facility Report 1-18-12**
 - e. Other **Form U App. To P. Jarecki electronic submittal**
Form U to LST electronic submittal
3Q11 LST Facility Report 1-9-12
2011 Annual recycling report to LST 1-6-12