



June 29, 2016

IESI PA Bethlehem Landfill  
c/o Mr. Don Hallock, District General Manager  
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. Hallock:

This Engineer's Status Report is for the month of May. The Engineer's meeting was held at the landfill on Wednesday, June 22. 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. A major modification for the southeastern realignment was received on January 21, 2015.

**B. Construction Schedule:**

1. Cell 4E, Stage 3, was being filled at the time of my visit. Average amount of waste accepted was approximately 900 to 950 tons per day.

**C. Groundwater:**

1. Monitoring Wells: Total number of wells = 29
2. Abatement Wells: Total number of active wells = 10

**D. Gas Management:**

1. There are 140 vertical gas wells currently installed. There are 41 horizontal collectors in operation.
2. The flare was operating at approximately 3151 scfm and 1652°F on the morning of my visit. The large blower is back after undergoing some maintenance. BRE was still down at the time of my visit. Their turbine is being repaired/rebuilt off site and was due back by the end of June. Operations may resume by July.

**E. Leachate Management:**

ROUTING

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

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1. Average daily leachate flow for May was 28,594 gallons. Total leachate generated for the month was 886,419 gallons, all of which went directly to the Bethlehem wastewater treatment plant.

**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.

**G. Miscellaneous:**

Enclosed as part of this report is the monthly Engineer's Reports from IESI Landfill for May, which includes site operations, radiation monitoring, truck safety, leachate management, and report submittals.

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

Sincerely,



Susan E. French  
Waste Management Program

Enclosure

cc: Nicholas Rogers, IESI PA Landfill (w/enc.)  
Lower Saucon Township (w/enc.) ✓  
James B. Birdsall, P.E., Hanover Engineering (w/enc.)  
Chris Taylor, Hanover Engineering (w/enc.)  
Kevin N. Bodner, Martin and Martin, Inc. (w/enc.)

# PADEP ENGINEER'S REPORT

May 2016

Date: June 22, 2016

1. Site Operations:
  - a. Average Daily Volume 1375
  - b. Maximum Daily Volume 1800
  - c. Permitted Area 201
  - d. Permitted Disposal area 127.5
  - e. Capped acres 71.8
  - f. Constructed acres 82.7
  
2. Radiation Monitoring: **May**
  - a. Number of trucks that tripped the monitor 0
  - b. Number of trucks **on hold** or rejected 0
  
3. Truck Safety & Overweight: **May**
  - a. Number of Overweight Trucks 5
  - b. Number of Trucks Rejected Due To Overweight 0
  
4. Leachate Management:
  - a. Type of Discharge Direct to WWTP
  - b. Total Leachate Generated gal. 886,419
  - c. Untreated Effluent Discharge to WWTP 100%
  - d. Average Daily Flow gal. 28,594
  - e. Leachate hauled Offsite 0%
  - f. Detection zone flow (Max/week in g/a/d) **May**  
LMC-6 – (38) LMC-7 – (36) LMC-8 – (37) PS-1 – (2) PS-2 – (<1) PS-3 – (<1)
  
5. Leachate Storage:
  - a. Total Influent Storage Capacity 1,490,000
  - b. 25% Influent Storage Capacity 372,500
  - c. Current Volume Stored **est. 20% Storm water for Dust Control**
  
6. Gas Management - Decommission 3 vertical 1 horizontal add 2 horizontal collectors
  - a. Number of vertical wells (LFG extraction wells and cleanouts) 140
  - b. Number of horizontal wells 41
  
7. Groundwater
  - a. Number of monitoring wells 29
  - b. Abatement wells (TW-1 shut off per DEP approval) 10
  
8. Reports Submitted:

Groundwater	<b>Abatement report</b>	5/20/16
Leachate	<b>Bethlehem WWTP Disposal Rt</b>	5/20/16
Quarterly	<b>1Q16 DEP Facility Report</b>	4/20/16
Other	<b>Form U Submittals</b>	electronic submittal