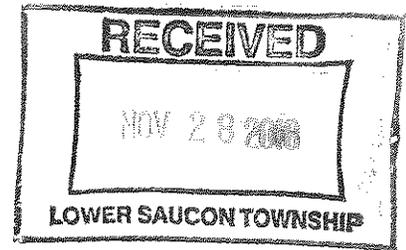




November 22, 2016

Mr. Don Hallock, District General 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. Hallock:

This Engineer's Status Report is for the month of October. The Engineer's meeting was held at the landfill on Thursday, November 10. 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.
2. A Form 37 construction certification for Cell 4E/F Remainder was received on November 8 and is under review.

B. Construction Schedule

1. Cell 4E, Stage 3, was being filled at the time of my visit. Average amount of waste accepted was approximately 1200 tons per day.
2. Hydroseeding of the top two benches on the south slope was done in late October. The daily cover/construction soil pile was also seeded for erosion control.

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 42 horizontal collectors in operation. Additional vertical wells are scheduled to be drilled in Cell 4, possibly 8 or more. Work began on November 4; drilling was scheduled to be completed by November 11. Piping and related work will take another two to three weeks.
2. The flare was operating at approximately 1000 scfm and 1645°F on the morning of my visit.

Northeast Regional Office

2 Public Square | Wilkes-Barre, PA 18701-1915 | 570.826.2511 | Fax 570.826.5448 | www.dep.pa.gov

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 - Solicitor
 - Planner
 - Landfill
 - EMC
 - Other *web*

only

Mr. Don Hallock

November 22, 2016

3. The BRE plant was fully operational at the time of my visit. Flow to BRE was approximately 2400 scfm at about 54% methane. Landfill personnel are working on getting electronic monitoring data from BRE regarding flow rates, vacuum, and kW to improve coordination between the landfill and the power plant.

E. Leachate Management

1. Average daily leachate flow for October was 21,990 gallons. Total leachate generated for the month was 681,675 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 October, 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

October 2016

Date: November 10, 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: **October**
 - a. Number of trucks that tripped the monitor 1
 - b. Number of trucks **on hold** or rejected 0

3. Truck Safety & Overweight: **October**
 - a. Number of Overweight Trucks 21
 - b. Number of Trucks Rejected Due To Overweight 0

4. Leachate Management:
 - a. Type of Discharge **Direct to WWTP**
 - b. Total Leachate Generated **October** gal. 681,675
 - c. Untreated Effluent Discharge to WWTP 100%
 - d. Average Daily Flow gal. 21,990
 - e. Leachate hauled Offsite 0%
 - f. Detection zone flow (Max/week in g/a/d) **October**
LMC-6 – (4.4) LMC-7 – (34.7) LMC-8– (29.3) PS-1 – (<1) 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 42

7. Groundwater
 - a. Number of monitoring wells 29
 - b. Abatement wells (TW-1 shut off per DEP approval) 10

8. Reports Submitted:

Groundwater	3Q16 Groundwater Report	11/15/16
Leachate	Discharge Flow Report to DEP	10/20/16
	City of Bethlehem Leachate Rpt.	10/30/16
Quarterly	Quarterly Facility Report	10/20/16
	Host Municipal Fees	10/20/16
Other	Form U Submittals	electronic submittal