

IESI Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, May 17, 2018
Time: 1:00 p.m.
Location: Lower Saucon Township Council Meeting Room
Attendance: Hanover Engineering: Chris Taylor; Exelon: Lane Bradley; IESI: Don Hallock, Nick Rogers, Dave Pannucci; Council Liaison: Priscilla deLeon (speaker phone); Member: Hazem Hijazi; Staff: Leslie Huhn & Diane Palik. Absent: Member, Neil Ortwein.

Mr. Rogers reviewed the monthly tonnages for April.

	<u>February</u>	<u>March</u>	<u>April</u>
MSW	25,611.34	28,224.52	33,015.82
C&D	3,921.65	3,102.75	2,447.50
Residual (Total)	1,632.12	2,100.62	1,192.35
Asbestos	230.40	0.0	0.0
Sewage Sludge-New Category as of 02-15-18	91.06	78.40	64.13
Out of State (Total)	21,948.69 (67%)	20,24.18 (62%)	18,936.46 (52%)
Recycle	8 (75%)	7 (70%)	9 (78%)
No. Trucks	2,532	2,753	3,104

Mr. Taylor asked what the daily acceptance rates were. Mr. Hallock said about 1,400 per day. Mr. Taylor said your daily limit is 1,375. Mr. Hallock said their daily limit is 1,800, their average is 1,375. Mr. Taylor said the recycling is pretty consistent and it's great you are getting that recycling.

Mr. Rogers had seven Form U Submittals from April 11 through May 7, 2018. The annual groundwater sampling is to be completed by Earth Res Group by the week of June 2, 2018. Mr. Taylor asked how the North Slope road was. Mr. Hallock said they clean it every day and they have re-stoned and regraded it. Mr. Taylor said on Riverside Drive he didn't see any signs of water coming down the slope and going across the road like in past years.

Mr. Rogers said for Correspondence Reports, they had the abatement system report, Q1 Quarterly Fees Report and Q1 Groundwater report.

Mr. Rogers said for Landfill Operations and Inspections, on April 5th, there was a DEP SW inspection for solid waste. On April 18th, there was a DEP AQ and SW Inspection for air. April 26th there was an engineer's meeting and inspection follow-up. May 10th was an inspection follow-up. Mr. Taylor said the inspection on April 18th is where the violations were cited. They came back on April 26th and just issued a report in which they say the six solid waste inspections noted on April 18th are still outstanding. They acknowledge you've made progress on all the issues raised, but you are not 100% there yet. They note that IESI is making a good faith effort to address these items. It's just a matter of continuing what you are doing.

Mr. Taylor asked about the Trash Net. Mr. Hallock said it was a PA Trash Net. They were one of the landfills between five counties. There were five inspectors on site and they checked for leaky loads, the Act 90 cards, municipal waste residual, lettering on the trucks and they make sure everybody has the proper paperwork. He has not seen a report on this yet. There were two overweight's and one didn't have a copy of an Act 90, so another truck brought it there in order for them to dump. He and Amy Faulch drove around the site and she was very happy with the progress. They didn't see a report on that either. Mr. Taylor said the Trash Net is separate from IESI's operation, they cite the hauler. Mr. Hallock said correct.

Mrs. deLeon said last night at the Council meeting, we spoke about the truck traffic and noise on Flint Hill Road and Route 412. PennDOT refuses to lower the speed limit and the residents are not happy about that. PennDOT is also doing paving there, so they are hoping paving in the potholes will help. Every time a truck goes by, the one resident's house shakes. Mrs. deLeon had asked Mr. Hallock to speak to the truck drivers and ask them to be mindful in that area. Mr. Taylor said are we talking about local garbage trucks? Mrs. deLeon said this is coming down Flint Hill Road and turning left. Mrs. Huhn said they said they were local garbage trucks.

Mr. Rogers said there were three Host Municipal Inspections from April 5 through May 1, 2018.

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Mr. Rogers said Commercial Waste Vehicles for April there was 3,104; overweight's were 48 with 38 warnings and 10 suspensions. There was no Lower Saucon Township police report for April. Mr. Taylor said as the number of trucks increase substantially from February, the overweight's decrease, which is good. Mr. Hallock said they are working on this daily.

Mr. Rogers said BRE was running at full capacity, but they are currently off. They should be back up today. They continue to communicate with BRE along with SCSFS with any routine or non-route maintenance to maximize LFG production and minimize odor between plant and flare. AEG Environmental completed the install of four new vertical wells and 8 re-drills. The replacement header under the haul road has been completed. AES is working on replacement of old header and installation a new header along with constructing air and drain lines to each well to install de-watering pumps.

Mr. Taylor said when he was out the other day; there was a landfill gas odor by one of these re-drilled wells. By the time you got 50 ft. away from it, you couldn't smell it anymore. Gas will be leaking out of it a little bit until they are all hooked up.

Mr. Bradley said they were online 84.2%. They had a spring outage and were down for a full week for turbine work. They were also down for a maintenance outage and two alarms they had. Both compressors/motors were sent out and they expect to have the compressor back in 3 or 4 weeks and the motor back in 2 weeks. Mr. Taylor said the flare was doing about 2800 today which was about 78% of the variable frequency drive. There were no visible emissions.

Mrs. deLeon said she asked Cathy Gorman about the host fee payments and our last payment was received on February 5, 2018 in the amount of \$1,575.53 and it was for 3Q17. Mr. Bradley said he spoke to their person who takes care of this, and she is going to make it happen.

Mr. Taylor said the one pipe under the south haul road had been sagging and watered in and got replaced with a replacement header. He observed that today as it's above the ground now. Your gas collection in the western part of the landfill is not going to be impeded by that anymore and that probably played a role in some of the surface emissions exceedances. Mr. Rogers said correct. Mr. Taylor said a couple of the things that caused the exceedances noted by DEP had been fixed or are being fixed.

Mr. Taylor asked for an update on the 19 exceedances that were noted during the April 18th DEP inspection. Mr. Rogers said they did a 10-day recheck and had 4 exceedances. They did another 10-day recheck and they had one exceedance. With that last exceedance, the gas expansion they are doing covers the timeframe to expand the system, which is the corrective action. The 30-day recheck is tomorrow.

Mr. Rogers said the North Slope sedimentation traps are functional and the perimeter road is in good condition. The abatement system continues to operate and discharge to the Bethlehem WWTP. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. Upgrading of controls and motors is taking place for preventative maintenance.

Mr. Rogers said the flow rates for the leachate collection continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed.

Mr. Rogers said there were three radioactive loads for April, which was Iodine 131. The waste stream met Level 1 requirements and was disposed of onsite. Currently for Phase IV construction, the active disposal area is cell 3D.

Mr. Rogers said the SE Realignment construction of the MSE wall is complete. The drop off center is being worked on with the warmer weather. New high voltage electric is being installed. There were no complaints for April or to date. Mrs. deLeon said the only complaint she knows of was an additional one from Donna Louder that was mentioned at the Council meeting. The January 25th one was the one she called in, but then there was another one which she didn't call in.

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Mr. Hijazi said wouldn't you expect with the exceedances and the emissions you would have more odor complaints? Mr. Hallock said during the April 18th DEP inspection when they received the 8 NOV's, there was no conversation of off-site odors of the 19 exceedances. He thinks Chris Taylor alluded to a slight gas odor by the new wells drilled, and then you go 50 feet away and there's nothing. They do odor patrols all the time and there have been no odors on Applebutter Road, Steel City, Skyline or Ringhoffer. You would think you would have some odor from the exceedances but having only four exceedances in that general area and the cover they put back on it, it makes a big difference.

Mr. Taylor said IESI has distributed, by email to DEP and the Township, the response to the NOV letters. The first response says you are implementing a new inspection daily. Do you feel that will keep a better handle on what's going on at the facility? Mr. Rogers said yes. Mr. Taylor said today he was shown the area of the leachate seeps documented before and he saw no evidence of any seeps. It appears your repairs are holding. Those areas will eventually get seeded. If you get a seep there, you'll see it. He said most of the areas that had exposed garbage have been covered. There was a small area where there were drilling activities, so you couldn't get in there while the driller was there. You have piles staged there ready to cover it and they are waiting for drier site conditions. Probably by the next inspection, that will be done.

Mr. Taylor said regarding the flare, you were going to have ERG look at the louver operations and see if they could troubleshoot that. Mr. Rogers said they are in the process of reprogramming the louver system. They went into LFG's program and are manipulating it so it works properly. Mr. Taylor said when you went to automation, he thought that was great but it wasn't sufficient, so this will help. Mr. Rogers said correct.

Mr. Taylor reviewed all the primary and secondary flows at the pump stations. He said you are still doing maintenance on these once a year. Mr. Rogers said yes, it's scheduled for July. Mr. Taylor said Applebutter Road was cleaned today in spite of how rainy it was. Because of where the working face is, you see more of the landfill operations than you ever have before and that will continue for a while.

Mr. Taylor said there was discussion at the TCC meeting about noise. They will be looking into that in the coming weeks and evaluating what the Township ordinances require regarding noise and what may or may not need to be done.

Mr. Taylor said from the TCC meeting, there were document requests he sent out last evening and Mr. Rogers already got back on one request. Mr. Rogers said he submitted the rest to the Township today.

Regarding the stockpile material, Mr. Hallock advised Mr. Taylor that they have the eastern stockpile, which can also be used for structural fill and they can use it as cover material, as needed. Mr. Taylor probed some cover depths today and they were 12" or better in the intermediate coverage areas. The probing will be an ongoing thing that he will do.

The mid-month inspection will be June 7th at 10:30 a.m. The next regular inspection will be June 21st at 10:00 a.m. and the Landfill Committee meeting at 1:00 p.m. Mr. Hallock said he will be unavailable. The meeting adjourned at 1:45 p.m.

**IESI Bethlehem Landfill
LST Committee Meeting Notes
May 17, 2018**

Agenda Items

I. Waste Activities

Monthly Tonnages

	February	March	April
MSW	25,611.34	28,224.52	33,015.82
C&D	3,921.65	3,102.75	2,447.50
Residual (total)	1,632.12	2,100.62	1,192.35
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Recycle	8(75%)	7(70%)	9(78%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
WeCare Organics LLC	Pb Contaminated Soil	4/11/2018
Nestle Purina Pet Care Co.	Petro. Contaminated Soil	4/16/2018
Norfolk Southern RR	Treated Wood	4/19/2018
Triple Crown Disposal	ACM	4/19/2018
GEO Specialty Chemicals Inc.	Resin	5/1/2018
EZ 2 Dump LLC	Contaminated Soil	5/2/2018
PALGC UST LLC	Petro. Contaminated Soil	5/7/2018

II. Annual Groundwater Trend Analysis

Groundwater sampling to be completed by Earth Res Group the week of June 2nd.

III. Correspondence / Reports

Abatement System Report
Q1 Quarterly Fees Report
Q1 Groundwater Report

IV. Landfill Operations

Department of Environmental Protection Inspections

4/5/18 A. Faulch, T. Sirnic- DEP SW Inspection
4/18/18 J. Wagoner, A. Faulch, T. Sirnic- DEP AQ and SW Inspection
4/26/18 S. French, A. Faulch, R. Malizia- Engineers meeting- Inspection follow up
5/10/18 A. Faulch, J. Cimera, T. Sirnic, M. Lucshy, R. Laczi- Trash net-
Inspection follow up.

Host Municipal Inspection

4/5/18 C. Taylor
4/19/18 C. Taylor
5/1/18 C. Taylor

<u>Commercial Waste Vehicles</u>	February	March	April
Total #Trucks	2532	2753	3104
	February	March	April
Overweight	75	50	48
Warnings	59	39	38
Suspensions	16	11	10
	66-TT 4-DT, 1-FL, 45- TT		48-TT

FL = front loader, RO = roll off, TT=tractor trailer RL = rear loader, DT = Triaxel Dump Truck

Lower Saucon Township Police Report:

None for the month of April

Bethlehem Renewable Energy and Flare Operations and Gas Collection

BRE has been running at half capacity in conjunction with the flare as the main GCCS. Currently the BRE plant is down for the week for annual maintenance. IESI and BRE continue to communicate along with SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flare. AEG Environmental completed the install of 4 new vertical wells and 10 re-drills. The replacement header under the haul road has been completed. AEG is working on replacement of old header and installation of new header along with constructing air and drain lines to each well to install de-watering pumps.

See times for flare and plant shutdowns

Beginning of event shutdown Flare	Date: 4/3/18	Time: 11:34	
End of event startup	Date: 4/3/18	Time: 19:53	Duration: 8:19min
Beginning of event shutdown Flare	Date: 4/4/18	Time: 12:33	
End of event startup	Date: 4/4/18	Time: 12:47	Duration: :14min
Beginning of event shutdown Flare	Date: 4/4/18	Time: 13:12	
End of event startup	Date: 4/5/18	Time: 11:18	Duration: 22:06min
Beginning of event shutdown Flare	Date: 4/5/18	Time: 19:29	
End of event startup	Date: 4/6/18	Time: 10:57	Duration: 13:28min
Beginning of event shutdown Flare	Date: 4/12/18	Time: 09:49	
End of event startup	Date: 4/12/18	Time: 10:05	Duration: :16min
Beginning of event shutdown Flare	Date: 4/12/18	Time: 11:11	
End of event startup	Date: 4/12/18	Time: 11:26	Duration: :15min
Beginning of event shutdown Flare	Date: 4/12/18	Time: 11:44	
End of event startup	Date: 4/12/18	Time: 13:12	Duration: 1:32min
Beginning of event shutdown Flare	Date: 4/18/18	Time: 19:09	
End of event startup	Date: 4/18/18	Time: 19:22	Duration: :13min

Beginning of event shutdown Flare	Date: 4/19/18	Time: 20:09	
End of event startup	Date: 4/19/18	Time: 20:20	Duration: :11min
Beginning of event shutdown Plant	Date: 4/2/18	Time: 07:14	
End of event startup	Date: 4/2/18	Time: 17:11	Duration: 9:53min
Beginning of event shutdown Plant	Date: 4/5/18	Time: 01:47	
End of event startup	Date: 4/5/18	Time: 02:54	Duration: 1:47min
Beginning of event shutdown Plant	Date: 4/16/18	Time: 06:19	
End of event startup	Date: 4/20/18	Time: 11:12	Duration: 95:57min
Beginning of event shutdown Plant	Date: 4/23/18	Time: 23:43	
End of event startup	Date: 4/24/18	Time: 00:25	Duration: :47min

Documentation is on file.

North Slope

Sedimentation Traps functional, perimeter road is in good condition.

Abatement System

Abatement system continues to operate and discharge to the Bethlehem WWTP. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. Upgrading of controls and motors is taking place for preventive maintenance.

Leachate collection

Flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed.

Radiation Monitoring

There were 3 radioactive loads for April which was Iodine 131. The waste streams met level 1 requirement and were disposed of onsite.

Phase IV Construction Activities

Currently the active disposal area is cell 3D.

SE Realignment Construction Activities

Construction of the MSE wall is complete. The drop off center is still being worked on with the warmer weather. New high voltage electric is being installed.

Complaints received by IESI

No known odor complaints for April or to date.

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT
April 2018

<u>Location</u>	<u>Total gallons</u>
LMC-6	23,258
LMC-7	26,784
LMC-8	29,990
 LMC-10	 2,218,000
 PS-1	 176,619
PS-2	177,909
PS-3	127,592
 Phase-IV	 482,120

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3.

Total Discharge

LMC-10	2,218,000
<u>Phase IV</u>	<u>482,120</u>
TOTAL	2,700,120 gallons

Total Leachate

Leachate	106,771
<u>Phase IV</u>	<u>482,120</u>
TOTAL	588,891 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
 Abatement System Flow = 2,111,229 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT

April 2018

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM)	(Total gal)
AB-1	72.0	7.4	363109
AB-2R	67.1	3.8	188417
AB-3	39.5	0.2	11180
AB-4	38.6	3.0	148363
AB-5	55.5	1.0	51183
AB-6	45.0	7.5	365347
AB-7	54.0	3.5	171772
AB-8	29.1	0.7	36298
AB-9	27.5	4.0	195217
AB-10	50.5	11.9	580343
TW-1	42.8	<0.1	0
Total Flow			2,111,229 gallons

*SWL above transducer set point

* Per DEP approval well TW-1 was shut down September 14, 2009.