

IESI Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, February 15, 2018
Time: 1:10 p.m.
Location: Lower Saucon Township Council Meeting Room
Attendance: Hanover Engineering: Chris Taylor; Exelon: Lane Bradley; IESI: Nick Rogers, Dave Pannucci, Regional Engineer; Council Liaison: Priscilla deLeon (speaker phone); Members: Hazem Hijazi & Neil Ortwein; Staff: Leslie Huhn & Diane Palik.

Mr. Rogers reviewed the monthly tonnages for January.

	<u>November</u>	<u>December</u>	<u>January</u>
MSW	29,701.69	31,017.83	27,874.92
C&D	3,505.73	3,107.24	4,223.81
Residual (Total)	1,302.23	1,311.66	1,149.42
Asbestos	111.11	57.90	113.91
Sewage Sludge	New Category as of 02-15-18		59.53
Out of State (Total)	22,094.82 (64%)	23,644.47 (66%)	21,661.86 (65%)
Recycle	0 (0%)	24 (79%)	8 (57%)
No. Trucks	3,083	3,103	2,875

Mr. Rogers said there were four Form U Submittals from January 22nd through February 12th. Mr. Taylor asked if they take tires? Mr. Rogers said as long as they are cut up.

Mr. Rogers said the Groundwater Trend Analysis sampling is to be completed by EarthRes Group the week of March 19, 2018. Mr. Rogers said for Correspondence/Reports there were abatement system reports, Q4 groundwater report, Q3 operations report-extended version and Q4 facility report and host fees.

Mr. Rogers said there was an inspection on February 13th by Jessica Wagoner, A. Faulch and Teresa Sirnic. There were three Host Municipal inspections. The working phase was observed and the condition of the daily cover, which they said needs better cover. They did do 30 surface scans and there were no surface emissions in Phases I, II, III and IV.

Mr. Rogers said there were 3,083 total trucks with 62 overweight's, 47 warnings and 15 suspensions. The overweight's are internal and Mr. Hallock has been talking to them about it. Mr. Rogers said for the Lower Saucon Police Report, there were none for the month of January.

Mr. Rogers said BRE has been running at full capacity in conjunction with the flare as the main GCCS. BRE and IESI continue to communicate along the SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flares. Mr. Lane said they are down to one compressor and the flare is taking the rest. There was a mechanical seal leak and a new compressor is coming in by the end of next week and that will be installed. They had a planned maintenance outage last week and all compressors were shut down. He doesn't know when they will be back to 100% as he has to bring manpower up from MD and they have to install the new compressor. Mr. Hijazi asked what percentage of gas are you taking out with one compressor. Mr. Lane was it's under half.

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. 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 two radioactive loads for January, which were Iodine 131. The waste stream met Level 1 requirements and was disposed of onsite.

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Mr. Taylor asked about the work taking place at the flare instrumentation panel being conducted by your outside consultant to provide supervisory control over the flare function. Mr. Rogers said they had Earth Res who does programming as well as the groundwater work; they installed a data package for them so they could remotely tie into their flare system from their phones or laptops wherever they are. If the flare shuts down in the middle of the night, or they need to control vacuum, they are able to do that now, and then they don't need people coming in all the time.

Mr. Taylor asked how far along they were with stripping off the excess cover in the piggyback cap area. It was mentioned it was at 80% before. Mr. Rogers said that's where they stopped. Mr. Taylor asked when they get good site conditions, if they will finish the MSE wall and the customer convenience/recycling area then start to install a liner behind the MSE wall and at what point does the piggyback area start? Mr. Rogers said they will have to put the stone and leachate piping in first, so that's a little while yet. Mr. Taylor asked if until then will all the garbage disposal be up on top. Mr. Rogers said yes.

Mr. Taylor said that same system is going to be installed for BRE. For IESI, as a side benefit of that, the flare will automatically adjust to changes in gas flows where it has to be done manually right now.

Mr. Rogers said the Phase IV construction activities, currently the active disposal area is cell 4B/4D. Installation of five new horizontal collectors have been installed in cell 4-D for odor control and are being monitored.

Mr. Rogers said for the SE Realignment construction activities, topsoil and soil continues to be removed and stockpiled from Phase II. Construction of the MSE wall and drop off center has stopped due to inclement weather. LMC-1 has been decommissioned and LMC-1R is now in place and functioning with a new EPG pump system.

Mr. Rogers said IESI followed up on January 26th for an odor complaint called in to DEP on January 25th at 7:09 p.m. from Steel City. DEP found no odors the next day. Mrs. deLeon asked if they described the complaint. Mr. Rogers said no they didn't. At the time of the complaint, the plant and flare were both operating.

Mr. Taylor reviewed all the primary and secondary flows at the pump stations. He said for our abatement wells, there is one replacement, AB-2R. Mr. Rogers said AB-1 will also be replaced.

Mrs. deLeon mentioned the odor complaint on January 25th, and asked when was the date she drove past and saw a little bit of ballooning on the temporary cover? Mr. Rogers said that was on January 23rd and it was taken care of. Mr. Rogers said they were doing air compressor maintenance. Mrs. deLeon said this should be part of the minutes. Mr. Rogers said a report was issued on this incident. Mr. Taylor said he did mention this in his January inspection report. There was a whole paragraph referencing it and an explanation from Mr. Rogers. It was very well covered.

Mr. Taylor went over his inspection report from today, which will be forwarded to the Township. He said there was a lot of mud on Applebutter Road and the street sweeper was out cleaning up the road. The truck wash is being fixed. He asked Mr. Pannucci where he will be spending most of his time. Mr. Pannucci said he will split his time between IESI and Blue Ridge. Mr. Hijazi asked about the misters. Mr. Rogers said it depends on the weather. If they are on when it's very cold, they will freeze. They did put up a portable spraying system on the working face. If it stays warm, they can use that one.

The next mid-inspection will be March 1st and then March 15th. The committee meeting will be March 15th at 1:00 p.m. The meeting adjourned at 1:43 p.m.

**IESI Bethlehem Landfill
LST Committee Meeting Notes
February 15, 2018**

Agenda Items

I. Waste Activities

Monthly Tonnages

	November	December	January
MSW	29,701.69	31,017.83	27,874.92
C&D	3,505.73	3,107.24	4,223.81
Residual (total)	1,302.23	1,311.66	1,149.42
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<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
GAC Abatement	ACM (501)	1/22/2018
Linde North America LLC	Contaminated Soil(506)	1/29/2018
Brandenburg	ACM(501)	2/12/2018
Recycling Logistics & Transport	Waste Tires(510)	2/12/2018

II. Annual Groundwater Trend Analysis

Groundwater sampling to be completed by Earth Res Group the week of March 19th.

III. Correspondence / Reports

- Abatement System Report
- Q4 Groundwater Report
- Q3 Operations Report-extended version
- Q4 Facility Report and Host Fees

IV. Landfill Operations

Department of Environmental Protection Inspections

2/13/18 J. Wagoner, A. Faulch, Teresa Sirnic (New SW Inspector)

Host Municipal Inspection

1/5/18 C. Taylor

1/18/18 C. Taylor

2/1/18 C. Taylor

Commercial Waste Vehicles

Total #Trucks

November	December	January
3083	3103	2875

	November	December	January
Overweight	51	67	62
Warnings	35	57	47
Suspensions	16	10	15

15DT, 8-TT 26-TT 65-TT, 1-RL, 1-RO 1-DT 61-61TT

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

Lower Saucon Township Police Report:

Below is the overweight vehicle enforcement the PD conducted at IESI during the month of January 2017:

None for the month of December

Bethlehem Renewable Energy and Flare Operations and Gas Collection

BRE has been running at full capacity in conjunction with the flare as the main GCCS. BRE and IESI continue to communicate along with SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flare.

See times for flare and plant shutdowns

Beginning of event shutdown Flare	Date: 1/1/18	Time: 8:31	
End of event startup	Date: 1/1/18	Time: 14:24	Duration: 7:07min
Beginning of event shutdown Flare	Date: 1/2/18	Time: 8:47	
End of event startup	Date: 1/2/18	Time: 8:57	Duration: 0:10min
Beginning of event shutdown Flare	Date: 1/5/18	Time: 8:56	
End of event startup	Date: 1/5/18	Time: 12:27	Duration: 3:31min
Beginning of event shutdown Flare	Date: 1/5/18	Time: 14:43	
End of event startup	Date: 1/5/18	Time: 14:49	Duration: :06min
Beginning of event shutdown Flare	Date: 1/9/18	Time: 12:47	
End of event startup	Date: 1/9/18	Time: 14:10	Duration: 1:27min
Beginning of event shutdown Flare	Date: 1/10/18	Time: 9:56	
End of event startup	Date: 1/10/18	Time: 13:43	Duration: 3:13min
Beginning of event shutdown Flare	Date: 1/29/18	Time: 9:13	
End of event startup	Date: 1/29/18	Time: 9:19	Duration: :06min
Beginning of event shutdown Plant	Date: 1/6/18	Time: 19:03	
End of event startup	Date: 1/9/18	Time: 12:46	Duration: 54:43min
Beginning of event shutdown Plant	Date: 1/14/18	Time: 1:49	
End of event startup	Date: 1/14/18	Time: 4:50	Duration: 3:01min
Beginning of event shutdown Plant	Date: 1/18/18	Time: 10:51	

End of event startup	Date: 1/18/18	Time: 16:37	Duration: 5:16min
Beginning of event shutdown Plant	Date: 1/29/18	Time: 7:06	
End of event startup	Date: 1/29/18	Time: 18:23	Duration: 11:17min

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.

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 two radioactive loads for January which were Iodine 131. The waste stream met level 1 requirement and was disposed of onsite.

Phase IV Construction Activities

Currently the active disposal area is cell 4B/4D. Installation of 5 new horizontal collectors have been installed in cell 4-D for odor control and are being monitored.

SE Realignment Construction Activities

Topsoil and soil continues to be removed and stock piled from Phase II. Construction of the MSE wall and drop off center has stopped due to in-climate weather. LMC-1 has been decommissioned and LMC-1R is now in place and functioning with a new EPG pump system.

Complaints received by IESI

One odor complaint on January 25, 2018 at 7:07PM from Steel City. At the time of the complaint the plant and flare were both operating.

IESI BETHLEHEM LANDFILL

	A	B	C	D	E	F	H	I	J	K	M	N	O
818		TIME	Phase IV PS-1 (Secondary Flows)				Phase IV PS-1 (Primary flow)						sump
819		(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches
820													
821	1/7/2017	42742	289252	289252	7	0			44702260	44702260	1046	40	18"
822	1/16/2017	9	289267	15	2	0			44801519	99259	11029	424	20"
823	1/25/2017	9	289278	11	1	0			44957309	155790	17310	666	21"
824	1/31/2017	6	289279	1	0	0			45046100	88791	14799	569	16"
825	2/7/2017	7	289387	108	15	1			45143008	96908	13844	532	30"18"
826	2/17/2017	10	291442	2055	206	8			45275449	132441	13244	509	14"
827	2/21/2017	4	291565	123	31	1			45326586	51137	12784	492	36"
828	3/1/2017	8	291951	386	48	2			45424633	98047	12256	471	22"
829	3/8/2017	7	292243	292	42	2			45512202	87569	12510	481	14.5"
830	3/13/2017	5	292429	186	37	1			45569317	57115	11423	439	21.5"
831	3/24/2017	11	292755	326	30	1			45703669	134352	12214	470	23.4"
832	4/1/2017	8	292881	126	16	1			45741972	38303	4788	184	33"
833	4/10/2017	9	293182	301	33	1			45921912	179940	19993	769	33"
834	4/21/2017	11	293583	401	36	1			46039244	117332	10667	410	32"
835	5/5/2017	14	294355	772	55	2			46228523	189279	13520	520	36"
836	5/16/2017	11	294429	74	7	0			46314948	86425	7857	302	32"
837	5/29/2017	13	294672	243	19	1			46451109	136161	10474	403	23"
838	6/6/2017	8	295616	944	118	5			46544796	93687	11711	450	25"
839	6/14/2017	8	295819	203	25	1			46598825	54029	6754	260	24"
840	6/26/2017	12	296223	404	34	1			46715770	116945	9745	375	22"
841	7/12/2017	16	296795	572	36	1			46859351	143581	8974	345	26"
842	7/25/2017	13	297257	462	36	1			46980076	120725	9287	357	27"
843	8/1/2017	7	297504	247	35	1			47042709	62633	8948	344	26"
844	8/7/2017	6	297709	205	34	1			47097535	54826	9138	351	36"
845	8/15/2017	8	298039	330	41	2			47176059	78524	9816	378	32"
846	8/24/2017	9	298381	342	38	1			47259558	83499	9278	357	23"
847	9/5/2017	12	298758	377	31	1			47366076	106518	8877	341	15"
848	9/11/2017	6	299012	254	42	2			47425755	59679	9947	383	22"
849	9/22/2017	11	299386	374	34	1			47525121	99366	9033	347	17"
850	10/1/2017	9	299717	331	37	1			47611077	85956	9551	367	23"
851	10/10/2017	9	299932	215	24	1			47667570	56493	6277	241	25"
852	10/18/2017	8	300121	189	24	1			47718430	50860	6358	245	24"
853	10/30/2017	12	300460	339	28	1			47813623	95193	7933	305	22"
854	11/9/2017	10	300762	302	30	1			47891007	77384	7738	298	22"
855	11/16/2017	7	300952	190	27	1			47943070	52063	7438	286	26"
856	11/21/2017	5	301075	123	25	1			47980793	37723	7545	290	27"
857	11/30/2017	9	301262	187	21	1			48038300	57507	6390	246	26"
858	12/5/2017	5	301488	226	45	2			48093082	54782	10956	421	17"
859	12/14/2017	9	301731	243	27	1			48172709	79627	8847	340	19.1"
860	12/18/2017	4	301805	74	19	1			48192775	20066	5017	193	22.3"
861	12/29/2017	11	302000	195	18	1			48268709	75934	6903	266	13.4"
862													
863													
864													
865													
866		TIME	Phase IV PS-1 (Secondary Flows)				Phase IV PS-1 (Primary flow)						sump
867		(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches
868	1/3/2018	5	302042	42	8	0			48301870	33161	6632	255	14.2"
869	1/8/2018	5	302042	0	0	0			48316003	14133	2827	109	14.4"
870	1/19/2018	11	302042	0	0	0			48335254	19251	1750	67	18.4"
871	1/23/2018	4	303551	1509	377	15	*		48350517	15263	3816	147	16.1"
872	1/30/2018	7	304748	1197	171	7	*		48371156	20639	2948	113	15.3"
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* Flow Meter Malfunction

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT
January 2018

<u>Location</u>	<u>Total gallons</u>
LMC-6	9,593
LMC-7	11,992
LMC-8	26,741
LMC-10	1,252,000
PS-1	230,568
PS-2	159,148
PS-3	110,339
Phase-IV	500,055

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	1,252,000
<u>Phase IV</u>	<u>500,055</u>
TOTAL	1,752,055 gallons

Total Leachate

Leachate	276,227
<u>Phase IV</u>	<u>500,055</u>
TOTAL	776,282 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
 Abatement System Flow = 975,733 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT January 2018

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM) (Total gal)	
AB-1	73.1	2.2	98935
AB-2	69.4	0.7	32463
AB-3	39.5	0.1	854
AB-4	38.4	1.7	78112
AB-5	54.2	1.2	52790
AB-6	49.9	0.2	7154
AB-7	54.3	3.2	140857
AB-8	27.9	2.2	98082
AB-9	26.7	1.7	74018
AB-10	49.9	8.8	392508
TW-1	42.8	<0.1	0
Total Flow			975,773 gallons

*SWL above transducer set point

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