

## IESI Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, September 20, 2018  
Time: 1:08 p.m.  
Location: Lower Saucon Township Council Meeting Room  
Attendance: **Hanover Engineering:** Chris Taylor; **Exelon:** Ken Minton (1:13 p.m.); **IESI:** Donald Hallock & Nick Rogers; **Staff:** Cathy Gorman; **Council Liaison:** Priscilla deLeon (speaker phone).  
**Members:** Hazem Hijazi; **Absent:** Leslie Huhn, Diane Palik, Staff and Neil Ortwein, Member.

Mr. Rogers reviewed the monthly tonnages for August:

	<u>June</u>	<u>July</u>	<u>August</u>
MSW	30,293.20	30,169.05	31,776.46
C&D	3,120.66	2,368.60	1,809.98
Residual (Total)	1,397.69	2,001.00	6,003.03
Asbestos	111.82	212.27	156.17
Sewage Sludge-New Category as of 02-15-18	80.15	43.73	57.89
Out of State (Total)	18,947.6 (54%)	18,268.85 (52%)	22,961.84 (58%)
Recycle	13 (62%)	15 (11%)	20 (80%)
No. Trucks	3,216	3,140	3,203

Mr. Taylor asked what drove the residual numbers up. Mr. Roger said contaminated soil material. There were six Form U submittals between August 2, 2018 and September 12, 2018.

Mr. Rogers said the annual groundwater trend analysis, the third quarter sampling event was conducted on August 27<sup>th</sup> to the 29<sup>th</sup> by Earth Res Group. Mrs. deLeon said she'd like to follow up on something. She received a disk, it's from Earth Res and there's a letter dated August 9<sup>th</sup> to Roger Bellas of DEP, and it goes on to say enclosed are the reports. In the second paragraph it says the dry monitoring wells are frequently being discussed in the section immediately below and discussed in more detail in the quarterly summary letter submitted to DEP on August 4, 2017. She asked Nick Rogers to find that August 4, 2017 letter talking about the wells and send it to the Township. Mr. Rogers said okay. Mrs. deLeon said to reiterate, the Flowers who live there, were sampled the second time by a lab and they were okay then. Mr. Rogers said yes. Mr. Taylor said there were no issues with the sampling wells.

Mr. Rogers said for correspondence/reports, there were the abatement system reports and Q2 facility report extended version. Mr. Rogers said there were two DEP inspections. On August 21<sup>st</sup> Susan French was present at an engineer meeting and on September 18<sup>th</sup>, Susan French and Matthew Glogowski were present for an engineering meeting. Mr. Taylor asked if he was new. Mr. Rogers said yes. Mr. Rogers said there were three host municipal inspections by Chris Taylor on August 2<sup>nd</sup>, August 16<sup>th</sup> and September 16<sup>th</sup>.

Mr. Rogers said there were 3,203 commercial waste vehicles for August. There were 77 overweight, 54 warnings and 23 suspensions. Mr. Taylor asked why the overweight's shot up in August. Mr. Hallock said they are relating that to the heavy rain we had in August. They had the State Police on site last Thursday, September 13<sup>th</sup> and they reviewed the paperwork and procedures and showed them a copy of a report of the overweight's. Mr. Hallock told the State Trooper the operating times the trucks come in and the State Police Officer is working with Chief Barndt and they will be setting something up. Mr. Taylor asked what are they doing going forward? Mr. Hallock said the State Trooper will coordinate with the Chief and they will come up with a plan for weight enforcement. They are welcome on site and Mr. Hallock asked him if he wanted any contacts and gave him information on how IESI does it, how they try to control it and the State Trooper agreed about the rain and all the other fuel. The biggest question the State Trooper had was the under 3%. Mr. Hallock said there's not really a lot he can do out on the road but he'll follow up with his superior and coordinate with Chief Barndt. Mrs. deLeon asked how the State Trooper knew to stop by. Mr. Hallock said Chief Barndt contacted the State Trooper. They are in the process of working together.

Mr. Taylor said he looked at the tickets in the scale house and there were 12 vehicles total from IESI's two transfer stations and out of those 12, all left the transfer stations underweight and only one weighed in overweight at 80,800 lbs.

Mr. Rogers said BRE has been running at full capacity, with intermittent shutdowns, in conjunction with the flare as the main GCCS. IESI and BRE continue to communicate with BRE along with SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odor between plant and flare. AEG Environmental completed the installation of four new vertical wells and 8 re-drilled wells along with the installation of replacement header and new header to increase flows and vacuum.

Mr. Minton said last month they were on-line for 83.2% of the time, total export was 1.5 million kw hours. Mr. Taylor said in a broad sense, it seems there have been some down times and outages at BRE. Mr. Minton said that's absolutely the case from everything he looked at recently and the on-line time of 83.2% is not acceptable, and they will be improving that. Mr. Taylor asked if there was a DEP inspection not too long ago? Mr. Minton said if there was, he's not familiar with it or the results of it. Mr. Taylor said he thinks it was an annual inspection. Mr. Minton said there was a township waste water permit inspection that occurred a week ago, with no findings. A gas compressor had failed and has been replaced and was put back on-line Monday. Mr. Taylor asked if there was something on the 12<sup>th</sup>? Mr. Minton said he's not sure. Mr. Minton said they are running two compressors since Monday. Mr. Taylor asked what the gas flow was? Mr. Minton said about 1500. Mr. Taylor said today the flare was doing 2275 and Mr. Minton said they are at 1500. He did shut down for a bit to change oil filters and that sounds like it was right in the ballpark when he was changing the oil filters, so you are probably looking at something a little lower. At the worst case, we are at 3075, which tailed off a little from the 3800 two weeks ago. Mr. Taylor said his concern is the IESI flare can do 4000, but if BRE is down, they have to take everything. In the near term, are you good to go full scale. Mr. Minton said yes. Their full capacity is right around 2000 scfm in the winter time. He thinks they should be able to do a little bit more now, but they are taking things slow. Mr. Taylor asked if they have any more scheduled planned outages. Mr. Minton said they do not. Mr. Hallock asked about the end of 2018? Mr. Minton said they will take a two-day outage later in October to do semi-annual maintenance. They will coordinate with IESI.

Mr. Taylor asked if they had the quarterly surface emission monitoring last week. Mr. Rogers said yes. He emailed the report today at 11:30 a.m. It indicated no exceedances. Mr. Taylor said congratulations and thanks for your efforts. Mr. Taylor asked if there were any odor complaints in the last month. Mr. Rogers said no. The last one was July 10<sup>th</sup>. Mr. Taylor asked if DEP has been out? Mr. Rogers said no inspections. Mr. Taylor said June was the last time they were out for an inspection.

Mrs. deLeon asked Cathy Gorman to write a note for Leslie that when she gets back to call DEP and find out when the next inspection is going to be. Ms. Gorman said okay. Mr. Taylor said Priscilla do you want me to just do that by email or do you want to have a little bit more weight behind it. He's not trying to step on anyone's toes but... Mrs. deLeon said she just thought Mrs. Huhn could do it, but do you want to send an email first and see what happens. Mr. Taylor said sure, he can do that; she's going to be busy when she gets back. If he sends an email, it will come to the Township having to prod them to do it, but if he throws it out there, or we can give them some time to think about it or get something scheduled, then Mrs. Huhn doesn't have to deal with it when she gets back. Ultimately, the Township will have to deal with it as it looks like DEP has moved on for now. He was hoping they would fall under this regular monthly routine, but it looks like they aren't going to.

Mr. Taylor said there were eight shutdowns for BRE between August 1<sup>st</sup> and 5<sup>th</sup>, was there something going on during that timeframe? Mr. Rogers said August 1<sup>st</sup> they had Earth Res Group out doing testing for the louvers. They had to shut the flare down to do that. Mr. Taylor asked if that was the same for the other four times? Mr. Rogers said yes. Mr. Taylor said that was the work we talked about at the office that Earth Res group did. It's very technical and involved, but if you could just explain what was done, it's important to get it on the record so everyone understands. Mr. Rogers said when they put the new blower in, they brought a different company in to program the blower and have the louvers work. There are basically two controllers that control the temperatures on the louvers so Earth Res came in, looked at the program, and how they re-programmed the ledger controller and everything is running off of one system now instead of two, so they are not fighting each other. Mr. Taylor said previously two of them were controlled by one controller and two were controlled by another controller and they weren't syncing up and they weren't working in concert and that was causing outages. Mr. Rogers said it would cause outages as if there was an air leak or the shift in flow. Mr. Taylor asked if that was also the cause for visible

emissions. Mr. Rogers said yes. Since then, we've had instances where there are air leaks and they start back up and the temperature is a lot better. Mr. Hallock said it's doing what it's supposed to be doing.

Mr. Taylor said we observed something on the paper chart today that actually provided a good field test with the new automated system, where the temperature on the paper chart that was jumping around like an EKG whereas it's usually a pretty steady line. You said it was an oxygen leak where oxygen was going through a wellhead and got dislodged and that was causing temperature swings which was causing the louvers to react to the temperature to control and there was no outage because of it and no visible emissions because of it. All thanks to this new automation that was able to handle that better than what it would have been handled under the old system, which is great. He just wanted to get this out there as there have been questions in-house on how the flare is doing, how is it holding up and working. This demonstrates it's working better than it ever has. You have everything right there on the computer screen, not only can you monitor it, but you can control it, which is great. Does BRE have the same capability yet? Mr. Rogers said not yet. Mr. Minton said he knows that they would like their system to tie into IESI's system, but he does not have really any other information. Mr. Taylor said you were starting the permit process for the new flare and is it still moving in that direction. Mr. Rogers said yes.

Mr. Rogers said the North Slope road and swale have been repaired from heavy rain. Sedimentation traps and ponds need to be cleaned out. Mr. Taylor said he observed there was next to no erosion on that road, maybe just a little 1" gully near the bottom from the latest rains. Where they built rock check dams before the water exits the site, you can see the sediment had dropped out right at the bottom of the rock before it left the site, which is exactly what we are shooting for to get the sediment to stay on-site. There's a lower leg that maybe needs to be paved like the upper leg and you are going to do that down to the second concentration point. When he went down to Riverside Drive, there was no evidence of a washout or sediment on the road.

Mr. Taylor said the sedimentation ponds need to be cleaned out. Basin No. 6 is sitting with a fair amount of water in it. He doesn't think you can do anything with it in these conditions. Basin No. 2 you are pumping out in anticipation of trying to get it seeded. He thinks the storm water system is holding up, but if you know of something, please let him know. The benches seem to be carrying water to the down channels; the basins seem to be handling the flow they get easily. When he drove by yesterday, it looked like there was discharge coming out through the grass to the west of BRE and running out on the road. Mr. Hallock said there was a water company there. Mr. Minton said the first week he was back, he saw a spring coming out of the ground at BRE, so he called the LSA and they checked it and a pipe underground had sprung a leak. So what you are seeing on the road is the water coming from that leak.

Mr. Taylor said Applebutter Road had some sediment on it. Mr. Hallock said the sweeper is there Thursday and Friday. Mr. Taylor said the truck wash was open and trucks were going through. Mr. Hallock said there are still some sloppy conditions with the rain we had. Mr. Taylor said it all looks good and if you get the street sweeper out there, that is good.

Mr. Rogers said 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. Mr. Rogers said leachate collection, the flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. There were 4 radioactive loads for August, which were all iodine. The waste streams met level 1 requirement and were disposed of on-site. Phase IV construction activities, currently the active disposal area is 4-A. Mr. Rogers said for the SE Realignment Construction Activities, composite has been placed in the cell. Protective cover and leachate piping has been installed.

Mr. Rogers said they had one complaint on August 16, 2018, which pertained to the operation working outside of permitted hours. Mr. Hallock said they reduced accepting long haul trailers from 4 p.m. to 3 p.m.

Mr. Taylor said looking at the secondary flows, LMC-6 was over 100 gallons per day for about five weeks. LMC-7, which is usually higher, the numbers dropped several digits and some are zeros. Mr. Rogers said they cleaned the piping out as it was clogged in LMC-7 in the middle of August. Mr. Taylor said maybe the numbers will come

IESI Bethlehem Landfill Committee Minutes  
September 20, 2018

up now that it's cleaned out and get reflected in the September numbers. Mr. Rogers said they should. Mr. Taylor said LMC-8 is spiked up a little bit over 1,000. It's always reacted to rain. Mr. Rogers said since they took the grass off the new cell, that's why you are seeing higher numbers with LMC-6. Mr. Taylor said if we are creating impervious cover over the parts of the landfill that flow to these, shouldn't we be getting less flow to these. Mr. Hallock said yes, but this just happened less than two weeks ago. Mr. Taylor said so you think all your meters are registering accurately. Pump Stations 1, 2 and 3 are all zeros.

Mrs. deLeon said we followed up on some of the issues from the Council meeting and you heard the concerns of Council. She thinks we covered everything. Mr. Hallock said thank you for allowing the time at the Council meeting.

Mr. Taylor said when he sat at the entrance of the Hill Climb, he could hear loud machinery working, but he thinks it was at the Hill Climb, and asked if anyone was doing anything up there? Mr. Hallock said about a week or so ago there was a bulldozer up there. Mrs. deLeon said in the past the Hill Climb was usually the second Sunday of June and September, and she believes they changed it to the end of September. They might have been preparing for that or they may have had issues with storm water. Mr. Taylor said if you hear any noise complaints, it could be they are hearing something at the Hill Climb.

Mr. Taylor said there was a new Operations Manager hired at IESI, his name is Jamie Steigerwalt. Mr. Hallock said he's an external hire. He's got a trash background and will be working on-site all the time. He'll probably attend the next meeting in October. He's a full-time employee and they are excited about having him there. Mr. Taylor said he's glad you were able to fill that position, that's an important part of the team.

October 4, 2018 will be the mid-meeting inspection. The meeting adjourned at 1:47 p.m. The next Landfill Committee meeting will be on October 18th at 1:00 p.m.

**Bethlehem Landfill Co.  
LST Committee Meeting Notes August 2018  
September 19, 2018**

**Agenda Items**

**I. Waste Activities**

Monthly Tonnages

	June	July	August
MSW	30,293.20	30,169.05	31,776.46
C&D	3,120.66	2,368.60	1,809.98
Residual (total)	1,397.69	2,001.00	6,003.03
Asbestos	111.82	212.27	156.17
Sewage Sludge(90/10)	80.15	43.73	57.89
Out of state (total)	18,947.6(54%)	18,268.85(52%)	22,961.84(58%)
Recycle	13(62%)	15(11%)	20(80%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
USEPA	Contaminated Debris	8/2/18
Evergreen Recycling	Off-Spec material	8/23/18
Triple Crown	ACM	8/29/18
Triple Crown	Contaminated Soil	9/6/18
MHC Green Acres	Petro Contaminated Soil	9/6/18
Valley Builders LLC	Contaminated Soil	9/12/18

**II. Annual Groundwater Trend Analysis**

Third quarter sampling event was conducted on August 27<sup>th</sup> to the 29<sup>th</sup> by Earth Res Group.

**III. Correspondence / Reports**

Abatement System Report  
Q2 Facility Report Extended Version

**IV. Landfill Operations**

Department of Environmental Protection Inspections

8/21/18 S. French- Engineers Meeting  
8/21/18 <sup>9/18</sup> S. French, Matthew Glogowski- Engineers Meeting,

Host Municipal Inspection

8/2/18 C. Taylor  
8/16/18 C. Taylor  
9/6/18 C. Taylor

<u>Commercial Waste Vehicles</u>	June	July	August
Total # Trucks	3216	3140	3203

	June	July	August
Overweight	59	53	77
Warnings	31	29	54
Suspensions	28	24	23

58-TT, 1-RL DT-4, 1-RO, 39-TT DT-4, 1-RO, 1-RL, 1-FL, 70TT

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

Bethlehem Renewable Energy and Flare Operations and Gas Collection

**BRE has been running at full capacity, with intermittent shutdown, in conjunction with the flare as the main GCCS. 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 8 redrilled wells along with the installation of replacement header and new header to increase flows and vacuum.**

See times for flare shutdowns. Do not have Plant SSM forms yet

Beginning of event shutdown Flare	Date: 8/1/18	Time: 10:33	
End of event startup	Date: 8/1/18	Time: 10:46	Duration: :13min
Beginning of event shutdown Flare	Date: 8/1/18	Time: 10:48	
End of event startup	Date: 8/1/18	Time: 11:47	Duration: :59min
Beginning of event shutdown Flare	Date: 8/1/18	Time: 11:47	
End of event startup	Date: 8/1/18	Time: 11:56	Duration: :9min
Beginning of event shutdown Flare	Date: 8/1/18	Time: 12:04	
End of event startup	Date: 8/1/18	Time: 12:10	Duration: :10min
Beginning of event shutdown Flare	Date: 8/1/18	Time: 19:30	
End of event startup	Date: 8/1/18	Time: 19:35	Duration: :05min
Beginning of event shutdown Flare	Date: 8/1/18	Time: 22:23	
End of event startup	Date: 8/1/18	Time: 22:29	Duration: :06min
Beginning of event shutdown Flare	Date: 8/2/18	Time: 13:56	
End of event startup	Date: 8/2/18	Time: 14:09	Duration: :13min
Beginning of event shutdown Flare	Date: 8/5/18	Time: 8:48	
End of event startup	Date: 8/5/18	Time: 11:47	Duration: 2:59min

Documentation is on file.

## North Slope

Road and swale have been repaired from heavy rain. Sedimentation traps and ponds need cleaned out.

### 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 4 radioactive loads for August, which were all Iodine. The waste streams met level 1 requirement and were disposed of onsite.

### Phase IV Construction Activities

Currently the active disposal area is 4-A.

### SE Realignment Construction Activities

Composite has been placed in cell. Protective cover and leachate piping being installed.

### Complaints received by Waste Connections

One complaint received on 8/16/2018 which pertained to operation working outside permitted hours.



**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**  
**August 2018**

<u>Location</u>	<u>Total gallons</u>
LMC-6	38,676
LMC-7	19,736
LMC-8	36,686
LMC-10	1,832,000
PS-1	163,558
PS-2	72,008
PS-3	136,823
Phase-IV	372,389

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	1,832,000
<u>Phase IV</u>	<u>372,389</u>
<b>TOTAL</b>	<b>2,204,389 gallons</b>

**Total Leachate**

Leachate	368,339
<u>Phase IV</u>	<u>372,389</u>
<b>TOTAL</b>	<b>740,728 gallons</b>

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 1,463,661 gallons (Neptune Flow meters)

# BETHLEHEM LANDFILL

## GROUNDWATER DEMAND REPORT

August 2018

<b>Well No.</b>	<b>Water Level (avg. ft SWL*)</b>	<b>Flow (avg. GPM)</b>	<b>(Total gal)</b>
AB-1	75.8	6.9	299907
AB-2R	46.8	3.8	1635568
AB-3	25.9	0.2	9770
AB-4	28.8	2.8	123060
AB-5	40.5	0.9	38974
AB-6	40.3	2.0	87169
AB-7	41.5	3.3	143280
AB-8	44.1	2.4	102865
AB-9	55.8	1.1	45500
AB-10	42.9	10.4	449568
TW-1	42.8	<0.1	0
<b>Total Flow</b>			<b>1,463,661 gallons</b>

\*SWL above transducer set point

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

ID	A	B	C	D	E	F	J	K	L	M	Secondary Flows		Secondary Flows		Secondary Flows			
											LMC-6 (GALLONS)	LMC-7 (GALLONS)	LMC-8 (GALLONS)	LOW	LOW	LOW		
TIME (days)	TOTALIZER	TOTALIZER	TOTALIZER	TOTALIZER	TOTALIZER	GA/D	TOTALIZER	GA/D	TOTALIZER	GA/D	TOTALIZER	GA/D	TOTALIZER	GA/D	TOTALIZER	GA/D	TOTALIZER	GA/D
1024																		
1025	1/3/2018	5.00	1600721	333	2112210	4	2112210	6549	1310	107	5,605,846	7030	2,430	1,410	2,430	547	64	
1026	1/8/2018	5.00	1601441	720	144	9	2116004	4394	879	72	5,608,396	2737	1,966	1,966	389	389	389	
1028	1/19/2018	11.00	1602712	1,271	116	7	2121605	5001	455	37	5,630,015	21,629	2,136	2,136	368	368	368	
1029	1/23/2018	4.00	1603209	487	124	8	2123942	1737	434	36	5,638,957	8542	2,942	2,942	507	507	507	
1030	1/30/2018	7.00	1605516	2,307	330	21	2137278	386	55	5	5,659,151	20,594	2,844	2,844	490	490	490	
1031	2/9/2018	10.00	1612457	6,941	694	44	2124776	1048	105	9	5,675,587	28,436	2,844	2,844	488	488	488	
1032	2/14/2018	5.00	1617774	5,317	1,063	66	2130919	6143	1,229	101	5,707,541	19,954	3,991	3,991	688	688	688	
1033	2/19/2018	5.00	1623885	6,111	1,222	78	2138372	7453	1,491	122	5,726,804	19,363	3,873	3,873	668	668	668	
1034	2/26/2018	7.00	1630647	12,762	1,823	116	2153435	15063	2,152	176	5,758,377	31,473	4,496	4,496	775	775	775	
1035	3/5/2018	7.00	1649130	12,483	1,763	114	2164612	11177	1,597	131	5,788,748	30,371	4,339	4,339	748	748	748	
1036	3/12/2018	7.00	1658357	9,227	1,318	84	2173900	9268	1,327	109	5,814,027	25,279	3,611	3,611	623	623	623	
1037	3/19/2018	7.00	1667576	9,219	1,317	84	2180451	6551	936	77	5,832,265	18,238	2,605	2,605	449	449	449	
1038	3/26/2018	7.00	1671149	9,573	1,368	87	2185567	5116	731	60	5,848,961	17,296	2,471	2,471	426	426	426	
1039	4/2/2018	7.00	1687692	10,453	1,493	95	2192454	6887	984	81	5,865,543	15,982	2,283	2,283	394	394	394	
1040	4/12/2018	10.00	1702142	14,540	1,454	93	2198402	5948	595	49	5,891,237	25,694	2,569	2,569	443	443	443	
1041	4/17/2018	5.00	1709144	4,002	800	51	2201562	3160	632	52	5,900,344	9107	1,821	1,821	314	314	314	
1042	4/25/2018	8.00	1714931	8,787	1,098	78	2205366	3604	476	39	5,921,485	21,151	2,644	2,644	456	456	456	
1043	5/1/2018	6.00	1722278	7,347	1,225	78	2207780	2424	404	33	5,928,129	6,634	1,106	1,106	191	191	191	
1044	5/7/2018	6.00	1726866	3,608	601	36	2209485	1695	283	23	5,928,578	14,50	242	242	42	42	42	
1045	5/14/2018	7.00	1728630	2,744	392	25	2212646	3160	451	37	5,931,093	1514	216	216	37	37	37	
1046	5/22/2018	8.00	1736010	7,360	923	59	2233681	11036	1,360	113	5,940,569	9476	1,185	1,185	204	204	204	
1047	5/30/2018	8.00	1744630	8,620	1,078	69	2228853	5172	647	63	5,959,846	19,377	2,422	2,422	418	418	418	
1048	6/7/2018	8.00	1748135	3,505	438	28	2231675	3022	378	31	5,961,248	1302	163	163	28	28	28	
1049	6/11/2018	4.00	1749261	1,126	282	18	2232209	334	84	7	5,961,635	387	97	97	17	17	17	
1050	6/20/2018	9.00	1751966	2,705	301	19	2232365	96	11	11	5,962,208	573	64	64	11	11	11	
1051	6/29/2018	9.00	1754088	2,102	234	15	2232575	270	30	2	5,962,908	600	67	67	11	11	11	
1052	7/5/2018	6.00	1755473	1,405	234	15	2232654	79	13	1	5,963,266	458	76	76	13	13	13	
1053	7/9/2018	4.00	1756345	872	218	14	2232654	0	0	0	5,963,808	340	85	85	15	15	15	
1054	7/16/2018	7.00	1759035	2,690	384	24	2232707	53	8	1	5,964,387	761	109	109	19	19	19	
1055	7/23/2018	7.00	1768949	6,814	973	62	2232819	112	16	1	5,970,318	5949	850	850	147	147	147	
1056	8/1/2018	9.00	1781923	25,174	2,797	178	2232883	64	7	1	6,008,724	38,408	4,268	4,268	796	796	796	
1057	8/6/2018	5.00	1814255	23,232	4,646	296	2232978	95	19	2	6,031,285	22,561	4,512	4,512	778	778	778	
1058	8/20/2018	7.00	1828115	13,860	1,960	126	2232978	0	0	0	6,051,372	20,087	2,870	2,870	495	495	495	
1059	8/26/2018	7.00	1841525	13,410	1,916	122	2233031	53	8	1	6,094,876	43,603	6,229	6,229	1,074	1,074	1,074	
1060	8/31/2018	11.00	1853573	12,048	1,036	70	2234334	1303	118	10	6,128,175	33,200	3,018	3,018	520	520	520	

	TIME (days)	LMC-6 (Primary Flows)				LMC-7 (Primary Flows)				LMC-8 (Primary Flows)			
		TOTALIZER	GALLONS	LOW (gp)	G/A/D	TOTALIZER	GALLONS	LOW (gp)	G/A/D	TOTALIZER	GALLONS	LOW (gp)	G/A/D
1/3/2018	5.00	1869825	1,485	297	19	4048541	1956	391	32	7,186,462	4177	835	144
1/8/2018	5.00	1871124	1,299	260	17	4050267	1726	345	28	7,190,792	4330	866	149
1/19/2018	11.00	1874259	3,135	285	18	4054038	3771	343	28	7,199,823	9031	821	142
1/23/2018	4.00	1875502	1,243	311	20	4055580	1542	386	32	7,203,167	3344	836	144
1/30/2018	7.00	1877933	2,431	347	22	4058577	2997	428	35	7,209,026	5859	837	144
2/8/2018	9.00	1880966	3,033	337	21	4062106	3529	392	32	7,216,708	7682	854	147
2/14/2018	6.00	1883308	2,342	390	25	4064578	2472	412	34	7,221,791	5083	847	146
2/19/2018	5.00	1885424	2,116	423	27	4067006	2428	486	40	7,226,192	4401	880	152
2/26/2018	7.00	1888948	3,524	503	32	4071862	4856	694	57	7,237,088	10896	1,557	268
3/5/2018	7.00	1892750	3,802	543	35	4076300	4438	634	52	7,251,146	14058	2,008	346
3/12/2018	7.00	1896675	3,925	561	36	4093937	17637	2,520	207	7,263,202	12056	1,722	297
3/19/2018	7.00	1900129	3,454	493	31	4113947	20010	2,859	234	7,269,797	6595	942	162
3/26/2018	7.00	1903092	2,963	423	27	4121738	7791	1,113	91	7,275,931	6134	876	151
4/2/2018	7.00	1905763	2,671	382	24	4127863	6125	875	72	7,282,438	6507	930	160
4/12/2018	10.00	1908965	3,202	320	20	4135735	7872	787	65	7,291,172	8734	873	151
4/17/2018	5.00	1913740	4,775	955	61	4139567	3832	766	63	7,295,629	4457	891	154
4/25/2018	8.00	1923985	10,245	1,281	82	4145883	6316	790	65	7,302,357	6728	841	145
5/1/2018	6.00	1927224	3,239	540	34	4150402	4519	753	62	7,307,719	5362	894	154
5/7/2018	6.00	1929415	2,191	365	23	4153984	3582	597	49	7,312,372	4653	776	134
5/14/2018	7.00	1931714	2,299	328	21	4157899	3915	559	46	7,317,861	5489	784	135
5/22/2018	8.00	1941451	9,737	1,217	78	4162642	4743	593	49	7,324,158	6297	787	136
5/30/2018	8.00	1957150	15,899	1,962	125	4168640	5998	750	61	7,330,876	6718	840	145
6/7/2018	8.00	1962087	4,937	617	39	4173975	5335	667	55	7,337,432	6556	820	141
6/11/2018	4.00	1963994	1,907	477	30	4176297	2322	581	48	7,340,758	3326	832	143
6/20/2018	9.00	1968645	4,851	517	33	4181070	4773	530	43	7,347,903	7145	794	137
6/29/2018	9.00	1972093	3,448	383	24	4185888	4818	535	44	7,354,995	7092	788	136
7/5/2018	6.00	1975571	3,478	580	37	4188922	3034	506	41	7,359,559	4564	761	131
7/9/2018	4.00	1977247	1,676	419	27	4190621	1699	425	35	7,362,407	2848	712	123
7/16/2018	7.00	1980957	3,710	530	34	4193793	3172	453	37	7,367,648	5241	749	129
7/23/2018	7.00	1987902	6,945	992	63	4197413	3620	517	42	7,373,190	5542	792	137
8/1/2018	9.00	2002364	14,462	1,607	102	4203043	5630	626	51	7,380,786	7596	844	146
8/6/2018	5.00	2009784	7,420	1,484	95	4206558	3515	703	58	7,387,834	7048	1,410	243
8/13/2018	7.00	2016356	6,572	939	60	4211550	4992	713	58	7,397,325	9491	1,356	234
8/20/2018	7.00	2031303	14,947	2,135	136	4216001	4451	636	52	7,406,036	8711	1,244	215
8/31/2018	11.00	2041040	9,737	885	56	4222779	6778	616	51	7,417,472	11436	1,040	179

IESI BETHLEHEM LANDFILL

	A	B	C	D	E	F	H	I	J	K	M	N	O
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			48316623	620	56	2	18.4"
871	1/23/2018	4	303551	1509	377	15			48316672	49	12	0	16.1"
872	1/30/2018	7	304748	1197	171	7			48317544	872	125	5	15.3"
873	2/9/2018	10	305235	487	49	2			48321272	3728	373	14	18.1"
874	2/14/2018	5	306423	1188	238	9			48322929	1657	331	13	16.1"
875	2/19/2018	5	306927	504	101	4			48335358	12429	2486	96	20.2"
876	2/26/2018	7	308297	1370	196	8			48365809	30451	4350	167	17.8"
877	3/5/2018	7	309239	942	135	5			48394293	28484	4069	157	14.9"
878	3/12/2018	7	310109	870	124	5			48421021	26728	3818	147	21.2"
879	3/19/2018	7	310874	765	109	4			48450104	29083	4155	160	11.3"
880	3/26/2018	7	310907	33	5	0			48481784	31680	4526	174	14.7"
881	4/2/2018	7	310926	19	3	0			48515391	33607	4801	185	17.7"
882	4/12/2018	10	312355	1429	143	5			48563817	48426	4843	186	15.9"
883	4/17/2018	5	312358	3	1	0			48589965	26148	5230	201	14.4"
884	4/25/2018	8	313666	1308	164	6			48632494	42529	5316	204	22.9"
885	5/1/2018	6	313670	4	1	0			48668382	35888	5981	230	21.9"
886	5/7/2018	6	314364	694	116	4			48699782	31400	5233	201	20.4"
887	5/14/2018	7	314639	275	39	2			48737142	37360	5337	205	18.7"
888	5/22/2018	8	315273	634	79	3			48785701	48559	6070	233	18.9"
889	5/30/2018	8	316171	898	112	4			48840699	54998	6875	264	19.8"
890	6/7/2018	8	316474	303	38	1			48890927	50228	6279	241	18.1"
891	6/11/2018	4	316480	6	2	0			48915631	24704	6176	238	22.9"
892	6/20/2018	13	316484	10	1	0			48971353	80426	6187	238	16.1"
893	6/29/2018	9	316495	11	1	0			49025903	54550	6061	233	13.8"
894	7/5/2018	6	316498	3	1	0			49059729	33826	5638	217	20.2"
895	7/9/2018	4	316502	4	1	0			49082662	22933	5733	221	14.0"
896	7/16/2018	7	316504	2	0	0			49120934	38272	5467	210	18.4"
897	7/23/2018	7	316507	3	0	0			49161305	40371	5767	222	15.4"
898	8/1/2018	9	316545	38	4	0			49205956	44651	4961	191	23.6"
899	8/6/2018	5	316633	88	18	1			49231931	25975	5195	200	18.9"
900	8/13/2018	7	316776	143	20	1			49268430	36499	5214	201	21.5"
901	8/20/2018	7	316944	168	24	1			49305805	37375	5339	205	18.9"
902	8/31/2018	11	317122	178	16	1			49369414	63609	5783	222	23.4"

IESI BETHLEHEM LANDFILL

	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
866	TIME	Phase IV PS-2 (Secondary Flows)					Phase IV PS-2 (Primary)						sump
867	(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches	
868	1/3/2018	5	7138	0	0	0.0		18866480	23228	4646	438	28.6"	
869	1/8/2018	5	7138	0	0	0.0		18890370	23890	4778	451	28.2"	
870	1/19/2018	11	7138	0	0	0.0		18944684	54314	4938	465	18"	
871	1/23/2018	4	7138	0	0	0.0		18964100	19416	4854	458	32.2"	
872	1/30/2018	7	7138	0	0	0.0		19002400	38300	5471	516	32.2"	
873	2/9/2018	10	7138	0	0	0.0		19056884	54484	5448	514	27.8"	
874	2/14/2018	5	7138	0	0	0.0		19082812	25928	5186	489	29.5"	
875	2/19/2018	5	7138	0	0	0.0		19110348	27536	5507	520	29.5"	
876	2/26/2018	7	7138	0	0	0.0		19152625	42277	6040	570	28.4"	
877	3/5/2018	7	7138	0	0	0.0		19199875	47250	6750	637	32.9"	
878	3/12/2018	7	7138	0	0	0.0		19243472	43597	6228	588	28.6"	
879	3/19/2018	7	7138	0	0	0.0		19282813	39341	5620	530	32.2"	
880	3/26/2018	7	7138	0	0	0.0		19317905	35092	5013	473	31.4"	
881	4/2/2018	7	7138	0	0	0.0		19354133	36228	5175	488	33.9"	
882	4/12/2018	10	7138	0	0	0.0		19408065	53932	5393	509	32.9"	
883	4/17/2018	5	7138	0	0	0.0		19433177	25112	5022	474	29.9"	
884	4/25/2018	8	7138	0	0	0.0		19475666	42489	5311	501	31.4"	
885	5/1/2018	6	7138	0	0	0.0		19505950	30284	5047	476	30.7"	
886	5/7/2018	6	7138	0	0	0.0		19532651	26701	4450	420	30.2"	
887	5/14/2018	7	7138	0	0	0.0		19563115	30464	4352	411	31.6"	
888	5/22/2018	8	7138	0	0	0.0		19600835	37720	4715	445	29.7"	
889	5/30/2018	8	7138	0	0	0.0		19642231	41396	5175	488	28.8"	
890	6/7/2018	8	7138	0	0	0.0		19678291	36060	4508	425	33.7"	
891	6/11/2018	4	7138	0	0	0.0		19695505	17214	4304	406	30.5"	
892	6/20/2018	13	7138	0	0	0.0		19733233	54942	4226	399	33.9"	
893	6/29/2018	9	7138	0	0	0.0		19770463	37230	4137	390	31.4"	
894	7/5/2018	6	7138	0	0	0.0		19794854	24391	4065	384	33.1"	
895	7/9/2018	4	7138	0	0	0.0		19810534	15680	3920	370	34.6"	
896	7/16/2018	7	7138	0	0	0.0		19829442	18908	2701	255	32.0"	
897	7/23/2018	7	7138	0	0	0.0		19849101	19659	2808	265	33.1"	
898	8/1/2018	9	7138	0	0	0.0		19867442	18341	2038	192	29.3"	
899	8/6/2018	5	7138	0	0	0.0		19871321	3879	776	73	28.0"	
900	8/13/2018	7	7138	0	0	0.0		19878945	7624	1089	103	32.9"	
901	8/20/2018	7	7138	0	0	0.0		19880023	1078	154	15	32.2"	
902	8/31/2018	11	7138	0	0	0.0		19891899	11876	1080	102	33.5"	

IESI BETHLEHEM LANDFILL

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
866	Phase IV PS-3 (Secondary)						Phase IV PS-3 (Primary)						sump
867	Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	Inches
868	1/3/2018	5	42581	0	0	0			8447408	13122	2624	632	7.2"
869	1/8/2018	5	42581	0	0	0			8460116	12708	2542	612	25.3"
870	1/19/2018	11	42581	0	0	0			8502963	42847	3895	939	25.9"
871	1/23/2018	4	42581	0	0	0			8514485	11522	2881	694	17"
872	1/30/2018	7	42582	1	0	0			8544625	30140	4306	1038	23"
873	2/9/2018	10	42582	0	0	0			8579847	35222	3522	849	16.0"
874	2/14/2018	5	42582	0	0	0			8610530	30683	6137	1479	26.8"
875	2/19/2018	5	42582	0	0	0			8640256	29726	5945	1433	26.6"
876	2/26/2018	7	42582	0	0	0			8687943	47687	6812	1642	25.3"
877	3/5/2018	7	42582	0	0	0			8743191	55248	7893	1902	23.8"
878	3/12/2018	7	42583	1	0	0			8789495	46304	6615	1594	22.3"
879	3/19/2018	7	42583	0	0	0			8823534	34039	4863	1172	23.6"
880	3/26/2018	7	42629	46	7	1			8850029	26495	3785	912	27.4"
881	4/2/2018	7	42631	2	0	0			8877792	27763	3966	956	26.8"
882	4/12/2018	10	42631	0	0	0			8918259	40467	4047	975	24.7"
883	4/17/2018	5	42631	0	0	0			8935021	16762	3352	808	25.7"
884	4/25/2018	8	42632	1	0	0			8967304	32283	4035	972	25.7"
885	5/1/2018	6	42632	0	0	0			8986273	18969	3162	762	25.5"
886	5/7/2018	6	42632	0	0	0			9002559	16286	2714	654	26.8"
887	5/14/2018	7	42632	0	0	0			9020498	17939	2563	618	24.9"
888	5/22/2018	8	42632	0	0	0			9047728	27230	3404	820	25.9"
889	5/30/2018	8	42665	33	4	0			9086032	38304	4788	1154	27.4"
890	6/7/2018	8	42665	0	0	0			9110208	24176	3022	728	25.5"
891	6/11/2018	4	42665	0	0	0			9120377	10169	2542	613	26.2"
892	6/20/2018	13	42665	0	0	0			9142393	32185	2476	597	26.8"
893	6/29/2018	9	42665	0	0	0			9162659	20286	2252	543	23.6"
894	7/5/2018	6	42665	0	0	0			9176312	13653	2276	548	23.6"
895	7/9/2018	4	42665	0	0	0			9185141	8829	2207	532	27.9"
896	7/16/2018	7	42665	0	0	0			9198913	14772	2110	509	26.8"
897	7/23/2018	7	42666	1	0	0			9216822	16909	2416	582	25.1"
898	8/1/2018	9	42666	0	0	0			9259666	42844	4760	1147	21.1"
899	8/6/2018	5	42666	0	0	0			9284508	24842	4968	1197	24.9"
900	8/13/2018	7	42666	0	0	0			9322417	37909	5416	1305	24.9"
901	8/20/2018	7	42666	0	0	0			9354156	31739	4534	1093	25.7"
902	8/31/2018	11	42689	23	2	0			9396489	42333	3848	927	25.3"