Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, February 21, 2019

Time: 1:00 p.m.

Location: Lower Saucon Township Council Meeting Room

Attendance: Hanover Engineering: Chris Taylor; Bethlehem Landfill: Cody White & Bob McReynolds;

Exelon: Ken Minton; Staff: Leslie Huhn & Diane Palik; Members: Neil Ortwein & Hazem

Hijazi. Absent: Priscilla deLeon

Mr. White reviewed the monthly tonnages for January:

	<u>November</u>	December	<u>January</u>
MSW	29,821.85	25,046.21	25,878.48
C&D	3,074.18	1,727.78	1,844.80
Residual (Total)	2,068.11	3,022.87	2,084.66
Asbestos	0.00	145.01	375.23
Sewage Sludge	71.27	99.00	90.92
Out of State (Total)	19,827.23 (60%)	16,232.76 (65%)	19,777.74 (65%)
Recycle	12 (83%)	12 (75%)	11 (82%)

Mr. White said there were two Form U Submittals on February 5th and February 13th, both for contaminated soil. The first quarter annual groundwater trend analysis sampling event is scheduled for February 25th through the 27th by Earth Res. There was no correspondence or reports. Mr. Taylor asked Mr. White to make sure the North Slope Road is clear to get to the wells.

Mr. White said for Landfill Operations, DEP inspections; Susan French was there on February 14th with Matt Glogowski. Mr. Taylor said he hopes they get more regular with their inspections. Mr. White said Mr. Glogowski is replacing Susan French. DEP had no concerns. There were two Host Municipal Inspections on February 7th and February 21, 2019.

Mr. White said for Commercial Waste Vehicles in January, there were 2,788 trucks with 86 overweight's, 11 warnings and 75 suspensions. Mr. Taylor said he was at the transfer station today and they were all underweight. He asked if there was any staging. Mr. McReynolds said he's sure there is, but he's not aware of any. Mr. Taylor said the PD had reported a driver driving erratically and there was garbage on Applebutter Road. Mr. Pannucci told Mr. Taylor he checked the driver's records and reported it to the PD when they called to follow up with it. Mr. McReynolds said he has no problem with the police getting involved. If they are doing something illegal, then they should get cited.

Mr. White said BRE has been running at full to half capacity with intermittent shutdown, in conjunction with the flare as the main GCCS. Bethlehem Landfill and BRE continue to communicate along with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors between the plant and flare. The January average flare flow was 1,458 scfm.

Mr. Minton said they were online 96.4% of time in January. They had three shutdowns; one was a maintenance shutdown early in the month. They had an air compressor failure on the 29th and then another air compressor failure on the 31st, but when they went to restart it, they had an expansion joint rupture in the turbine, which has kept the turbine out since then. They are looking at the economics of replacing the expansion joint to determine if it's economically viable because of the plant closure on June 1, 2019. They have quotes and he's waiting on approval. Mr. Hijazi questioned June 1st, and Mr. Minton said the date could be moved out more, he's not sure at this time. PJM has given them approval for the retirement of the Bethlehem plant. It's just a matter of contractual obligations they have with Bethlehem Landfill. If a decision is not made to replace the expansion joint, they will not come back online at all. The cost of the expansion joint is about \$25,000 plus you have to bring a small crane in to lift it out. They have to take down and remove the equipment when they close up, down to the pads.

Mr. White said the North Slope Road and swale have been replaced from heavy rain. Sedimentation traps and ponds need to be cleaned out. They regraded the area and set up temp berm areas because of the rain/snow we are

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getting. The abatement system continues to operate and discharge to the Bethlehem WTP. Intermitted malfunctions of the well pumps and controls are repaired or replaced as needed. Since the last meeting, AB-3 has undergone pumps, heater and flow meter maintenance.

Mr. White said the leachate collection flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. Since the last meeting, all flow meters have been calibrated. Troubleshooting for LMC-7 has been moved back to March. There will be maintenance checks on all the wells. Mr. Taylor said the flows for LMC-7 it's all zeroes for secondary flows. Mr. White said most of that flow is primarily going through the actual primary, which means the primary is working harder than the secondary. Mr. Taylor said they all have their own meters and sumps. The detection zone is to make you aware that the primary doesn't have too much flow; just enough that it's spilling over into the chambers and it's being collected.

Mr. White said there were two radioactive loads for January. The waste streams met level 1 requirement and were disposed of onsite. Phase IV Construction activities for waste operations have moved off of this area. The SE Realignment Construction activities for waste operations continue in Cell SE-1-A.

Mr. White said there were four complaints received on November 24th (odor complaint), December 28th (water on Applebutter Road), January 8th (odor complaint), and February 1st (odor complaint). Mr. McReynolds said the water on Applebutter Road was fixed by PennDOT as it was their road. They removed a lot of sediment and it's been flowing ever since. Mr. Taylor said there's a covenant area in the permit where you are not supposed to have any garbage disposal and you have had it delineated by a site surveyor and no garbage has been placed in the covenant area. The two odor complaints in 2019, IESI and DEP checked on both of them, and found no odors. Mr. McReynolds said they got there real early in the morning on February 1st and they did not smell anything. Maybe there's something early in the morning that he's not aware of, that's why he went out so early. Mr. Ortwein said it's the Bethlehem Waste Water Treatment Plant also. If you have your windows closed in the winter, you don't smell it, but in the summer you can smell it in Steel City.

Mr. Taylor reviewed the leachate demand report with all the primary and secondary flows for January 2019. He asked about Pump House 1. Mr. White said Pump House 1 seems to receive more flow. As far as single digits, for secondary flows, they just performed some work on PS-1. Mr. Taylor said you are starting to get flow now on PS-4. Mr. White said yes, and to note, Martin & Martin will be changing the flow programming for PS-4 as there's a programming issue. The flow totals are good, they are going to have to change the meter out, so the next readings may be slightly off.

Mr. Taylor asked about the Form 50's that was submitted with no date, and Mr. McReynolds said he will check on that. Mr. Taylor said they didn't receive any royalty payments for 3Q18 and 4Q18. Mr. Minton said he received confirmation from Fed Ex that the landfill received them.

Mr. Taylor said the last SEM tests, there were six exceedance locations. Mr. White said two of them, gophers were digging at the wells and then the gas escapes from their holes. Another one was a soil issue and one was a collection knockout. Mr. Taylor said at the TCC meeting, there was a concern on the gas probe wells had a hit over SW-3 at 2200 and it seems like there's a lot of gas there. Mr. White said they've been working with SCS about the issue and the gas itself is low, and there's a lot of higher oxygen in that area, so they would keep them at a balancing point. They had opened them to mediate any methane in the soil probe. It's an area they've been covering and adjusting. When SCS gets a hit, he doesn't' know when the rechecks are but they do get paperwork saying there was a hit and when there was a correction. It's since been tested and it is zero.

Mr. Ortwein was concerned about recycling in the Township. Mr. Hijazi said the EAC used to have events, but it go too expensive. Mr. Ortwein said people cut it up and throw it in the landfill.

Mr. Taylor said the next meeting is on March 21, 2019 starting at 1:00 p.m. The meeting adjourned at 1:40 p.m.

FEB 2 1 2019 LOWER SAUCON TOWNSHIP

Bethlehem Landfill Company LST Committee Meeting Notes February 2019 February 21, 2019

Agenda Items

I. Waste Activities

Monthly Tonnages

MSW C&D Residual (Total) Asbestos Sewage Sludge (90/10) Out of state (Total)	November 29,821.85 3,074.18 2,068.11 0.00 71.27 19,827.23 (57	7%)	December 25,046.21 1,727.78 3,027.87 145.01 99.00 16,232.76 (54%)	January 25,878.48 1,844.80 2,084.66 375.23 90.92 19,777.74 (65%)
Recycle	12 (83%)		12 (75%)	11 (82%)
Form U Submittals		Waste		Approval Date
1490 Southern Owner, L. Sterling Oaks Contractor			minated Soil (506) minated Soil (507)	2/5/19 2/13/19

II. Annual Groundwater Trend Analysis

First quarter sampling event is scheduled for February 25th through the 27th by Earth Res Group.

III. Correspondence / Reports

None

IV. Landfill Operations

Department of Environmental Protection Inspections

2/14/19

S. French (Solid Waste), M. Glogowski (Solid Waste)

Host Municipal Inspection

2/7/19 C. Taylor 2/21/19 C. Taylor

November	December	January
2846	2469	2788
November	December	January
89	53	86
70	41	11
19	12	75
	2846 November 89 70	2846 2469 November December 89 53 70 41

November – TT=73, RO=3, RL=10, FL=1, DT=2 December – TT=49, RL=1, FL=1, DT=2 January – TT=49, RL=5, DT=32

FL = front loader, RO = roll-off, TT=tractor trailer, RL = rear loader, DT = triaxial dump truck

Bethlehem Renewable Energy and Flare Operations and Gas Collection

BRE has been running at full to half capacity, with intermittent shutdown, in conjunction with the flare as the main GCCS. Bethlehem Landfill and BRE continue to communicate along with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flare.

January Average Flare Flow = 1,458 SCFM

See times for flare shutdowns.

None

Documentation is on file.

North Slope Road and swale have been repaired from heavy rain. Sedimentation traps and ponds need to be 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. Since the last meeting, AB-3 has under gone had pumps, heater, and flow meter 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. Since the last meeting, all flow meters have been calibrated. Troubleshooting for LMC-7 has been moved to March.

Radiation Monitoring

There were 2 radioactive loads for January (Tc-99m(2)). The waste streams met level 1 requirement and were disposed of onsite.

Phase IV Construction Activities

Waste operations have moved off of this area.

SE Realignment Construction Activities

Waste operations continue in Cell SE-1A.

Complaints received by Waste Connections

4 complaints received on 11/24/18 (Odor Complaint), 12/28/18 (Water on Applebutter Road), 1/8/19 (Odor Complaint), and 2/1/19 (Odor Complaint)

BETHLEHEM LANDFILL

LEACHATE DEMAND REPORT January 2019

Location	Total gallons
LMC-6	81,421
LMC-7	22,594
LMC-8	109,219
PS-4	1,112,384
LMC-10	1,325,618
PS-1	141,646
PS-2	181,992
PS-3	201,720
Phase-IV	525,358

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, SE Realignment (PS-4), and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3.

Total Discharge

LMC-10	1,325,618
Phase IV	<u>525,358</u>
TOTAL	1,850,976 gallons

Total Leachate

Leachate	541,819
Phase IV	525,358
TOTAL	1,067,177 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons). Abatement System Flow = 1,309,157 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT January 2019

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPN	(Total gal)
AB-1	70.1	7.2	289,217
AB-2	45.1	4.0	161,657
AB-3	44.1	0.3	11,550
AB-4	39.7	3.4	139,051
AB-5	46.1	1.1	46,253
AB-6	39.1	0.1	2,380
AB-7	41.3	4.2	170,209
AB-8	42.1	2.9	116,841
AB-9	41.8	<0.1	780
AB-10	40.1	9.2	371,219
TW-1	54.4	<0.1	0
Total Flow		1,309,157	gallons

^{*}SWL above transducer set point
* Per DEP approval well TW-1 was shut down September 14, 2009.

	TIME (days)	LMC TOTALIZER	-6 (Primar GALLONS		G/A/D	LMC-7					:-8 (Prima		
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		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	15,699	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	4,651	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
9/7/2018	7.00	2048903	7,863	1,123	72	4226212	3433	490	40	7,423,929	6457	922	159
9/12/2018	5.00	2062345	13,442	2,688	171	4229341	3129	626	51	7,429,272	5343	1,069	184
9/18/2018	6.00	2075788	13,443	2,241	143	4232471	3130	522	43	7,434,616	5344	891	154
10/1/2018	13.00	2126610	50,822	3,909	249	4240280	7809	601	49	7,448,700	14084	1,083	187
10/11/2018	10.00	2144225	17,615	1,762	112	4248664	8384	838	69	7,459,592	10892	1,089	188
10/19/2018	8.00	2162440	18,215	2,277	145	4254418	5754	719	59	7,468,523	8931	1,116	192
10/26/2018	7.00	2168193	5,753	822	52	4259031	4613	659	54	7,476,178	7655	1,094	189
11/8/2018	13.00	2218469	50,276	3,867	246	4267917	8886	684	56	7,494,605	18427	1,417	244
11/12/2018	4.00	2235017	16,548	4,137	264	4270862	2945	736	60	7,503,285	8680	2,170	374
11/20/2018	8.00	2281915	46,898	5,862	373	4277348	6486	811	66	7,519,184	15899	1,987	343
11/26/2018	6.00	2323727	41,812	6,969	444	4282847	5499	917	75	7,536,060	16876	2,813	485
12/3/2018	7.00	2362413	38,686	5,527	352	4288737	5890	841	69.	7,549,897	13837	1,977	341
12/12/2018	9.00	2378987	16,574	1,842	117	4295542	6805	756	62	7,562,467	12570	1,397	241
12/17/2018	5.00	2385229	6,242	1,248	80	4298911	3369	674	55	7,569,124	6657	1,331	230
12/27/2018	10.00	2410111	24,882	2,488	158	4308355	9444	944	77	7,588,337	19213	1,921	331
1/3/2019	7.00	2421998	11,887	1,698	108	4313118	4763	680	56	7,596,652	8315	1,188	205
1/8/2019	5.00	2432734	10,736	2,147	137	4318265	5147	1,029	84	7,604,683	8031	1,606	277
1/14/2019	6.00	2440995	8,261	1,377	88	4323231	4966	828	68		8085	1,348	232
1/21/2019	7.00	2448933	7,938	1,134	72	4328080	4849	693	57	7,622,157	9389	1,341	231
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s			547	1,966	2,136	2,942	2,844	3,991	3,873	4,496	4,339	3.611	2,605	2,471	2,283	2,569	1,821	2,644	1,106	242	216	1,185	2,422	23	. 26	. 64	67	76	82	109	820	4.268	4,512	2,870	6.229	3.018	1.21	682	292	2,582	192	4.837	755	2,545	3,820	4.262	4,160	3,651	2.221	2,052	2,888	2,641	3,364	2,055	1,919
E G	At LONS L	7050	2737	21629	8542	20594	28436	19954	19363	31473	30371	25279	18238	17296	15982	25694	9107	21151	6634	1450	1514	9476	19377	1302	387	573	009	458	340	761	5949	38408	22561	20087	43603	33200	8476	3408	3388	33571	1916	38695	5286	33090	15278	34097	24960	25558	19992	10261	28877	18485	16818	12331	13433
- <u>і</u>	TOTALIZEH GALLONS LOW (and	5.605.649	5,608,386	5,630,015	5,638,557	5,659,151	5,687,587	5,707,541	5,726,904	5,758,377	5,788,748	5,814,027	5,832,265	5,849,561	5,865,543	5,891,237	5,900,344	5,921,495	5,928,129	5,929,579	5,931,093	5,940,569	5,959,946	5,961,248	5,961,635	5,962,208	5,962,808	5,963,266	5,963,606	5,964,367	5,970,316	6,008,724	6,031,285	6,051,372	6,094,975	6,128,175	6,136,651	6,140,059	6.143.45B	6,177,029	6,178,945	6,217,640	6.222,926	6,256,016	6,271,294	6,305,391	6,330,351	6,355,909	6,375,901	6,386,162	6,415,039	6,433,524	6,450,342	6,462,673	6,476,106
Σ	G/A/D	15	72	37	36	5	6	101	122	176	131	109	12	09	81	49	52	39	33	23	37	113	53	31	7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		0	1	-	-	2	0	1000	10	0	0	0	0	0	0	8	o	0	0	0	0	0	0	0	0	0	0	=
	FI OW (and)	1310	879	455	434	25	105	1,229	1,491	2,152	1,597	1,327	936	731	984	595	632	476	404	283	451	1,380	647	378	84	11	30	13	0	8	16	7	19	0	80	118	0	0	0	o	0	2	0	-	0	0	0	0	0	0	0	0	0		8
¥	GALLONS ELOW (and)		4394	5001	1737	386	1048	6143	7453	15063	11177	9288	6551	5116	2889	5948	3160	3804	2424	1695	3160	11036	5172	3022	334	96	270	79	0	53	112	64	36	0	53	1303	0	0	0	0	0	19	0	+	0	0	0	0	0	0	0	0	0	0	55
-	LW FOTALIZEE G		2116604	2121605	2123342	2123728	2124776	2130919	2138372	2153435	2164612	2173900	2180451	2185567	2192454	2198402	2201562	2205366	2207790	2209485	2212645	2223681	2228853	2231875	2232209	2232305	2232576	2232654	2232654	2232707	2232819	2232883	2232978	2232978	2233031	2234334	2234334	2234334	2234334	2234334	2234334	2234353	2234353	2234364	2234364	2234364	2234364	2234364	2234364	2234364	2234364	2234364	2234364	2234364	2234419
L.	G/4/D	4	o	7	8	21	44	89	78	116	114	84	84	87	95	93	51	70	82	38	25	69	69	28	18	19	15	15	41	24	62	178	296	126	122	70	40	58	48	14	0	0	0	0	0	0	0	F 44.4 F	0	lo	55	29	79	69	47
	DW (and	89	141	116	124	330	694	1,063	1,222	1,823	1,783	1,318	1,317	1,368	1.493	1,454	800	1,098	1,225	601	392	923	1.078	438	282	301	234	234	218	384	973	2,797	4,646	1,980	1,916	1,095	629	910	758	226	0	0	0	0	0	0	0	6	Ŧ	0	861	894	1,237	928	743
۵	Second	338	720	1.271	497	2,307	6,941	5,317	6,111	12,762	12,483	9,227	9,219	9.573	10,453	14,540	4,002	8,787	7,347	3.608	2.744	7,380	8,620	3.505	1,126	2,705	2,102	1,405	872	2,690	6.814	25,174	23,232	13,860	13,410	12.048	4,400	4,549	4,549	2,933	٥	0	0	0	0	jo	0	99	5	0	8.606	6,259	6.184	5,568	5,201
O	TOTAL IZEB GALLONSH OW (and	1500721	1601441	1602712	1603209	1605516	1612457	1617774	1623885	1636647	1649130	1658357	1667576	1677149	1687602	1702142	1706144	1714931	1722278	1725886	1728630	1736010	1744630	1748135	1749261	1751966	1754068	1755473	1756345	1759035	1765849	1791023	1814255	1828115	1841525	1853573	1857973	1862522	1867071	1870004	1870004	1870004	1870004	1870004	1870004	1870004	1870004	1870070	1870075	1870075	1878681	1884940	1891124	1896692	1901893
\vdash	- IME	12	5.00	11.00	4.00	7.00	10.00	5.00	5.00	7.00	7.00	7.00	7,00	2,00	7.00	10.00	5.00	8.00	6.00	6.00	7.00	8.00	8.00	8.00	4.00	9.00	9.00	90.9	4.00	7.00	2,00	9.00	2,00	7.00	7.00	11.00	7.00	2.00	6.00	13.00	10.00	8.00	7.00	13.00	4 00	8.00	6.00	7.00	9.00	5.00	10.00	7.00	5.00	90.9	7.00
A	***************************************	17,0018	1/8/2018	1/19/2018	1/23/2018	1/30/2018	2/9/2018	2/14/2018	2/19/2018	2/26/2018	3/5/2018	3/12/2018	3/19/2018	3/26/2018	4/2/2018	4/12/2018	4/17/2018	4/25/2018	5/1/2018	5/7/2018	5/14/2018	5/22/2018	5/30/2018	6/7/2018	6/11/2018	6/20/2018	6/29/2018	7/5/2018	7/9/2018	7/16/2018	7/23/2018	8/1/2018	8/6/2018	8/13/2018	8/20/2018	8/31/2018	9/7/2018	9/12/2018	9/18/2018	10/1/2018	10/11/2018	10/19/2018	10/26/2018	11/8/2018	11/12/2018	11/20/2018	11/26/2018	12/3/2018	12/12/2018	12/17/2018	12/27/2018	1/3/2019	1/8/2019	1/14/2019	1/21/2019
	1024	2001	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079

IESI BETHLEHEM LANDFILL

	A	В	С	D	E	F	Н	I	J	К	М	N	0
866		TIME	Phase	e IV PS-1 (S	Secondary Flo	ws)	F	hase I	V PS-1 (Prlma	ry flow)			sump
867		(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	galions	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		15.3"
873	2/9/2018	10	305235	487	49	2			48321272	3728	373		18.1"
874	2/14/2018	5	306423	1188	238	9			48322929	1657	331		
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		17.8"
877	3/5/2018	7	309239	942	135	5	<u> </u>		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		14.7"
881	4/2/2018	7	310926	19	3	0			48515391	33607	4801		
882	4/12/2018	10	312355	1429	143	5			48563817	48426	4843		15.9"
883	4/17/2018	5	312358	3	1	0			48589965	26148	5230		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		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	13.6"
894	7/5/2018	6	316498	3	1	0			49059729	33826	5638		
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		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"
903	9/7/2018	7	317301	179	26	1			49415154	45740	6534	251	18.7"
904	9/12/2018	5	317403	102	20	1			49455655	40501	8100	312	22.1"
905	9/18/2018	6	317557	154	26	1			49496755	41100	6850	263	21.2"
906	10/1/2018	13	317871	314	24	1			49565289	68534	5272		22.1"
907	10/11/2018	10	318122	251	25	1			49623186	57897	5790	223	21.2"
908	10/19/2018	8	318345	223	28	1			49664658	41472	5184		23.4"
909	10/26/2018	7	318500	155	22	1			49706343	41685	5955		17.4"
910	11/8/2018	13	318736	236	18	1			49784960	78617	6047	233	14.0"
911	11/12/2018	4	318746	10	3	0			49805391	20431	5108		_
912	11/20/2018	8	319503	757	95	4	L		49860144	54753	6844		
913	11/26/2018	6	319996	493	82	3			51031479	1171335	195223	7509	
914	12/3/2018	7	325089	5093	728	28			51105543	74064	10581		20.6"
915	12/12/2018	9	329426	4337	482	19			51747262	641719	71302		
916	12/17/2018	5	331435	2009	402	15			51802463	55201	11040	425	21.9"
917	12/27/2018	10	339877	8442	844	32			54197652	2395189	239519		
918	1/3/2019	7	343848	3971	567	22			54208523	10871	1553		14.9"
919	1/8/2019	5	347137	3289	658	25			54208523	0	0		18.9"
920	1/14/2019	6	349233	. 2096	349	13			54233557	25034	4172		
921	1/21/2019	7	352210	2977	425	16			54270683	37126	5304	204	20.8*
922	1/31/2019	10	357979	5769	577	22			54324279	53596	5360	206	15.3"

IESI BETHLEHEM LANDFILL

	AE	AF	AG	AH	Al	AJ	AK	AL	AM	AN	AO	AP	AQ
866		Phase IV	PS-3 (Se						PS-3 (Prim				sump
867	Date	days	totalizer	gallon	flow(gpd)	g/ac/day		1	totalizer	gallons	flow(apd)	g/ac/dagy	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		25.9"
B71	1/23/2018	4	42581	0	0	0			8514485	11522	2881	694	
872	1/30/2018	7	42582	1	0	0		İ	8544625	30140	4306	1038	
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	
875	2/19/2018	5	42582	. 0	0	0			8640256	29726	5945	1433	
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	20266	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			9199913	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	
902	8/31/2018	11	42689	23	2	0			9396489	42333	3848		25.3"
903	9/7/2018	7	42689	0	0	0			9416454	19965	2852		26.8"
904	9/12/2018	5	42689	0	0	0			9434353	17899	3580		24,8"
905	9/18/2018	6	42689	0	0	0			9452352	17999	3000		25.7*
906	10/1/2018	13	42689	0	0	0			9488864	36512	2809		66.9"
907	10/11/2018	10	42689	0	0	0			9490856	1992	199		67.8*
908	10/19/2018	8	42781	92	12	1			9494868	4012	502		63.1"
909	10/26/2018	7	42817	36	5	0			9500655	5787	827		60.5"
910	11/8/2018	13	42817	0	0	0			9596127	95472	7344	1770	
911	11/12/2018	4	43246	429	107	10			9627326	31199	7800	1879	
912	11/20/2018	8	43246	0	0	0			9692363	65037	8130	1959	
913	11/26/2018	6	43246	0	0	0			9747387	55024	9171	2210	
914	12/3/2018	7	43266	20	3	0			9811123	63736	9105	2194	
915	12/12/2018	9	43266	0	0	0			9869983	58860	6540	1576	
916	12/17/2018	5	43266	0	0	0			9893769	23786	4757	1146	
917	12/27/2018	10	43266	0	0	0			9968493	74724	7472	1801	
918	1/3/2019	7 5	43266	0	0	0			10015193	46700	6671	1608	
919	1/8/2019		43266	0	0	0			10063124	47931	9586	2310	
920	1/14/2019	6 7	43266	0	0	0			10105956	42832	7139	1720	
921	1/21/2019		43266	0	0	0			10142879	36923	5275	1271	
922	1/31/2019	10	43266	Uj	U	U			10216913	74034	7403	1784	20.0"

IESI BETHLEHEM LANDFILL

$\overline{}$	AR	AS	AT	UA	AV	AW	AX	AY	AZ	BA	88	BC	BD
865			PS-4 (Se			AVV	^^		AZ.	DA .	1 08	1 50	60
866	Date	days	totalizer	gallon	flow(gpd)	g/ac/day		Phase IV	PS-4 (Pri	marv)			sump
867				3-11-1-1	131				totalizer		flow(god)	g/ac/daqy	
868											131		
869												***************************************	
870													
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910	11/40/0010		147	147	0	0		ļ	0 007020	0		#DIV/01	0"
911	11/12/2018	0		147 0	0	0			207023 575433	207023 368410	#DIV/0! 46051	#DIV/0! 11097	28.3"
912	11/20/2018 11/26/2018	8 6		0	0	0			880527	305094		12253	
914	12/3/2018			0		0			1158031	277504		9553	
915		9		0		0			1158032	1	0		18.5"
	12/17/2018	5		0	ō	. 0			1158033	1	0		18.5"
917	12/27/2018	10		257	26	2			1560142	402109	40211	9689	
918	1/3/2019	7	404	0	0	0			1560143	1	0		19.3"
919	1/8/2019	5		79	16	1			1856842	296699	59340	14299	
920	1/14/2019	6	586	103	17	2			1875514	18672	3112	750	15"
921	1/21/2019	7		0	0	0			2019879	144365	20624		14.1*
922	1/31/2019	10	941	355	36	3			2269621	249742	24974	6018	22.5"

Bethlehem Renewable Energy

Monthly Operat		eunenem K	enewable En	leigy	Jai	nuary 2019
Turbine Start Hours	End Hours	On Line Hours	On Line %	T1 Avg °F	T5 Min °F	T5 Max °F
18569.9	19287.1	717.3	96.4%	34.8	0	0
Generator On Line Hours	Gross Total kWH	Gross Avg kWH/Hr				
717.3	2,328,560	3,246				
Station Intertie R		Average	Average Plant Parasitic			
Total Import kWH	Total Export (Net) kWH	Export (Net) kWH/Hr	Load kWH/Hr			
2966.064	1,741,422	2,341	910			
Land Fill Gas						
Total kSCF	Total MMBtu's	Average SCFM	Average Field Vac in. H2O	,		
68,960	37,609	1,545	-60.3			
Average	Average CO2 %	Average	Average	Average H2S npm		

N2 %

4.9%

H2S ppm

0.0

02%

1.3%

Average CO2 %

40.4%

CH4 %

53.5%

COMBINED SSM REPORTING FORM

Landfill Gas Collection and Control System

system. If any of the steps taken are not consistent with this procedure, document the variations on a "SSM Plan Departure Report Form" and follow the reporting requirements in the SSM Plan.						
1. Event Type (Check all that apply Shutdown⊠ /Startup⊠ /Malfunction⊡:						
2.a. Beginning of Shutdown Event	Date: 01/07/19 Tir	ne: 07:40				
End of Shutdown Event	Date: 01/07/19 Tir	ne: 07:40				
2.b. Beginning of Startup Event	Date: 01/07/19 Tir	ne: 16:34				
End of Startup Event						
2.c. Beginning of Malfunction Event	Date: Tir	ne:				
End of Malfunction Event	Date: Tit	ne:				
3. Duration of GCCS System Downtime (hours): <u>0 min</u> (the flare was running during the turbine outage)						
4. Duration of SSM Event (hours): Shutdown <u>0</u>	4. Duration of SSM Event (hours): Shutdown <u>0 min</u> Startup 1 mins Malfunction					
5. Description of Affected Equipment: Turbine						
6. Cause/Reason for SSM event: To perform pla	6. Cause/Reason for SSM event: To perform plant maintenance.					
7. Name of person completing this form (please	print): Ken Minton					
8. Date form completed: 2/21/19						
Follow the procedure listed below for each SSM event. This form is to be used to document the actions taken during each SSM event. Check off the steps completed.						
document the actions taken during e	each SSM event. Check off the steps complete	ed.				
document the actions taken during e 11. MALFUNCTION PROCEDURE CHECKL		Check if procedure was followed				
	IST	Check if procedure was				
11. MALFUNCTION PROCEDURE CHECKL	IST on 5.2 of the SSMP	Check if procedure was				
11. MALFUNCTION PROCEDURE CHECKL For all malfunctions, follow procedures in Section For loss of electrical power, follow procedures in For low temperature conditions in the enclosed in S.5 of the SSMP	on 5.2 of the SSMP in Section 5.4 of the SSMP flare, PCD-03, follow procedures in section	Check if procedure was				
11. MALFUNCTION PROCEDURE CHECKL For all malfunctions, follow procedures in Section For loss of electrical power, follow procedures in	on 5.2 of the SSMP in Section 5.4 of the SSMP flare, PCD-03, follow procedures in section	Check if procedure was				
11. MALFUNCTION PROCEDURE CHECKL For all malfunctions, follow procedures in Section For loss of electrical power, follow procedures in Section For low temperature conditions in the enclosed in Section 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03,	on 5.2 of the SSMP in Section 5.4 of the SSMP flare, PCD-03, follow procedures in section follow procedures in Section 5.6 of the	Check if procedure was followed				
For all malfunctions, follow procedures in Section For loss of electrical power, follow procedures in For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device may be section 5.8 of the SSMP For collection well and pipe failures, follow procedures in Section 5.8 of the SSMP	on 5.2 of the SSMP In Section 5.4 of the SSMP In Section 5.4 of the SSMP In Section 5.4 of the SSMP In Section 5.6 of the SSMP In Section 5.6 of the Institute on the Institute of the Institute	Check if procedure was followed				
11. MALFUNCTION PROCEDURE CHECKL For all malfunctions, follow procedures in Section For loss of electrical power, follow procedures in Section 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device may section 5.8 of the SSMP	on 5.2 of the SSMP In Section 5.4 of the SSMP In Section 5.4 of the SSMP In Section 5.4 of the SSMP In Section 5.6 of the SSMP In Section 5.6 of the Institute on the Institute of the Institute	Check if procedure was followed				
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For all malfunctions, follow procedures in Section For loss of electrical power, follow procedures in For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device may be section 5.8 of the SSMP For collection well and pipe failures, follow procedures in Section 5.8 of the SSMP	on 5.2 of the SSMP In Section 5.4 of the SSMP In Section 5.4 of the SSMP In Section 5.4 of the SSMP In Section 5.6 of the SSMP In Section 5.6 of the SSMP In Section 5.9 of the SSMP In Section 5.9 of the SSMP In Section 5.11 of the SSMP In Section 5.11 of the SSMP	Check if procedure was followed				

COMBINED SSM REPORTING FORM

Landfill Gas Collection and Control System

system. If any of the steps taken are not consistent with this procedure, document the variations on a "SSM Plan Departure Report Form" and follow the reporting requirements in the SSM Plan.						
1. Event Type (Check all that apply Shutdown⊠ /Startup⊠ /Malfunction□:						
2.a. Beginning of Shutdown Event	Date: 01/29/19	Time: 09:52				
End of Shutdown Event	Date: 01/29/19	Time: 09:52				
2.b. Beginning of Startup Event	Date: 01/29/19	Time: 10:12				
End of Startup Event	Date: 01/07/19	Time: 10:55				
2.c. Beginning of Malfunction Event	Date:	Time:				
End of Malfunction Event	Date:	Time:				
3. Duration of GCCS System Downtime (hours	3. Duration of GCCS System Downtime (hours): <u>0 min</u> (the flare was running during the turbine outage)					
4. Duration of SSM Event (hours): Shutdown 0	min Startup 43mins Malfunction					
5. Description of Affected Equipment: Turbine						
6. Cause/Reason for SSM event: Loss of service air						
7. Name of person completing this form (please	7. Name of person completing this form (please print): Ken Minton					
8. Date form completed: 2/21/19						
Follow the procedure listed below for each SSM event. This form is to be used to document the actions taken during each SSM event. Check off the steps completed.						
11. MALFUNCTION PROCEDURE CHECKL	IST	Check if procedure was followed				
For all malfunctions, follow procedures in Section 5.2 of the SSMP						
For loss of electrical power, follow procedures in Section 5.4 of the SSMP						
For loss of electrical power, follow procedures i	in Section 5.4 of the SSMP					
For low temperature conditions in the enclosed		on				
	flare, PCD-03, follow procedures in secti	on				
For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03,	flare, PCD-03, follow procedures in section follow procedures in Section 5.6 of the					
For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device m Section 5.8 of the SSMP For collection well and pipe failures, follow pro-	flare, PCD-03, follow procedures in section follow procedures in Section 5.6 of the conitoring malfunctions, follow procedures occurred to the section 5.9 of the SSMP	es in				
For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device m Section 5.8 of the SSMP	flare, PCD-03, follow procedures in section follow procedures in Section 5.6 of the conitoring malfunctions, follow procedures occurred to the section 5.9 of the SSMP	es in				
For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device m Section 5.8 of the SSMP For collection well and pipe failures, follow pro-	flare, PCD-03, follow procedures in section follow procedures in Section 5.6 of the conitoring malfunctions, follow procedures occurred to the section 5.9 of the SSMP	es in				
For low temperature conditions in the enclosed 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, SSMP For temperature monitoring/recording device m Section 5.8 of the SSMP For collection well and pipe failures, follow pro-	flare, PCD-03, follow procedures in section follow procedures in Section 5.6 of the sonitoring malfunctions, follow procedures occurred to the section 5.9 of the SSMP follow procedures in Section 5.11 of the S	es in				

COMBINED SSM REPORTING FORM

Landfill Gas Collection and Control System

This form is used to document actions taken during a SS system. If any of the steps taken are not consistent wit Departure Report Form" and follow the reporting requir	h this procedure, document the variations	tion and control s on a "SSM Plan				
1. Event Type (Check all that apply Shutdown /						
	ate: 01/31/19	Time: 07:02				
End of Shutdown Event D	ate: 01/31/19	Time: 07:02				
2.b. Beginning of Startup Event D	ate:	Time:				
End of Startup Event D	ate:	Time:				
2.c. Beginning of Malfunction Event D	ate:	Time:				
End of Malfunction Event D	ate:	Time:				
3. Duration of GCCS System Downtime (hours): <u>0 min</u> (the flare was running during the turbine outage)						
4. Duration of SSM Event (hours): Shutdown 0 m	n Startup Malfunction					
5. Description of Affected Equipment: Turbine						
6. Cause/Reason for SSM event: Loss of service ai	6. Cause/Reason for SSM event: Loss of service air					
7. Name of person completing this form (please pr	7. Name of person completing this form (please print): Ken Minton					
8. Date form completed: 2/21/19						
Follow the procedure listed below for document the actions taken during each	each SSM event. This form is to be una SSM event. Check off the steps com	sed to pleted.				
11. MALFUNCTION PROCEDURE CHECKLIST		Check if procedure was followed				
For all malfunctions, follow procedures in Section 5.2 of the SSMP						
For loss of electrical power, follow procedures in Section 5.4 of the SSMP						
For loss of electrical power, follow procedures in S	Section 5.4 of the SSMP					
For low temperature conditions in the enclosed fla						
	re, PCD-03, follow procedures in secti					
For low temperature conditions in the enclosed fla 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, fo	re, PCD-03, follow procedures in section low procedures in Section 5.6 of the	ion				
For low temperature conditions in the enclosed flat 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, fo SSMP For temperature monitoring/recording device mon Section 5.8 of the SSMP For collection well and pipe failures, follow process.	re, PCD-03, follow procedures in section between the section 5.6 of the section from the se	on				
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For low temperature conditions in the enclosed flat 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, fo SSMP For temperature monitoring/recording device mon Section 5.8 of the SSMP For collection well and pipe failures, follow process.	re, PCD-03, follow procedures in section between the section 5.6 of the section from the se	es in				
For low temperature conditions in the enclosed flat 5.5 of the SSMP For loss of flame at the enclosed flare, PCD-03, fo SSMP For temperature monitoring/recording device mon Section 5.8 of the SSMP For collection well and pipe failures, follow process.	Te, PCD-03, follow procedures in section low procedures in Section 5.6 of the storing malfunctions, follow procedures dures in Section 5.9 of the SSMP ow procedures in Section 5.11 of the S	on				