

## Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, February 18, 2021, **Via Zoom**  
Time: 6:00 p.m.  
Location: Lower Saucon Township  
Attendance: **Hanover Engineering**: Scott Brown; **Bethlehem Landfill**: Astor Lawson, Phil Garcia & David Pannucci; **Members**: Hazem Hijaz & Neil Ortwein; **Staff Members**: Leslie Huhn & Diane Palik; **Council Liaison**: Tom Carocci. **Attendees**: Kristen Stauffer, Council Member; Donna Louder, Andrew Krasnansky, Joanne Haring.

Mr. Brown said there was no inspection today because of the snow. Mr. Pannucci reviewed the monthly tonnages for January:

	<u>November</u>	<u>December</u>	<u>January</u>
MSW	13,113.94	7,924.91	14,399.82
C&D	5,901.80	3,290.58	4,975.63
Residual (Total)	1,411.56	986.67	1,403.96
Asbestos	0.00	0.00	0.00
Alternate Daily cover	0.00	0.00	1,472.93
Sewage Sludge	744.20 (3.52%)	784.26 (6.04%)	499.15 (2.19%)
Out of State (Total)	8,693.70 (41%)	4,907.88 (38%)	10,618.77 (47%)
Recycle	11 (82%)	9 (89%)	9 (89%)

Mr. Pannucci said there were two Form U Submittals, Stuffed Puffs on January 26<sup>th</sup> and Gemini Arts Initiative on February 3, 2021. The first quarter sampling event is scheduled for February 22 – 25, 2021, weather-pending. Reports submitted to the Township were the Host Municipality Report (Q4 2020), Groundwater Report (Q4 2020), Facility Report (Q3 2020), NSPS SEM Report (Q4 2020), Title V Monitoring report (2<sup>nd</sup> half 2020), and Abatement Well Reports (January 2020).

Mr. Brown said last time we missed the Gas Royalty Report, is there a timeframe we should get that? Mr. Pannucci said they have been working on that behind the scenes on their end. With the lawsuit, the money is being sent to an escrow account at the County so they are not getting a check to confirm the quantity that they need to pay the Township. They actually just got some confirmation from their legal team on that, so it should be coming, but that was the latest.

Mr. Pannucci said there was one DEP inspection on January 28, 2021 with Matt Glogowski and one Host Municipal Inspection with Scott Brown on February 4, 2021. Mr. Pannucci said regarding Commercial Waste Vehicles, there were 2,137 total trucks, 42 overweight's, 35 warnings and 7 suspensions.

Mr. Pannucci said the LFG flare is the main GCCS. Bethlehem Landfill continues to communicate with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors. The January Average Flare Flow was 3,246 SCFM. There were no flare shutdowns or malfunctions in January. There is nothing new to report on the North Slope Road.

Mr. Pannucci said regarding the abatement system and the leachate collection system, there is nothing new to report since the last meeting. There were no radioactive loads for January. The SE Realignment Construction Activities, the waste operations are in SE-1B and SE-2AB Phase I.

Mr. Pannucci said the odor complaints received by Waste connections are attached. Mr. Carocci said do we know on this odor complaint log, are they the same residents on Johnston Avenue or are they different residents and the same for Applebutter. Mr. Pannucci said they can't say, as they don't put the house number, but even based on the distances from landfill they use, they aren't 100% sure. They had their odor list on the LST meeting notes at one meeting, and there was some confusion, so they are using DEP's list. Mr. Carocci said looking at the 2020 log for January there were 11 and for 2021 there were only 6. He said at least there is improvement. Mr. Pannucci said they are definitely making efforts and striving to improve things, and he's glad to see it's reflecting in the numbers year-to-year.

Ms. Donna Louder, resident, said on January 27<sup>th</sup>, that was her call, and it was pretty much horrific. She was wondering what happened up there that caused that. It looks like a lot of the dates are just a day or two apart. It was really, really bad and she only calls when it's really bad. When she talked to the girl at DEP, she said it's almost like there's a seepage going on up there as it was really potent and it wasn't gas, it was more leachate and trash. Mr. Pannucci said did anyone from the DEP come out? Ms. Louder said not that she's aware of. Mr. Pannucci said it looks like it was at 10:50 a.m. During working hours, and even after working hours, you can reach out to them and they'll come right over and try to identify it and trace it and correct it as opposed to the fact a day or two after they hear from DEP. Anyone that typically calls, please feel free to call the landfill. Ms. Louder said it has improved quite a bit as management has changed. Mr. Pannucci said they are headed in the right direction and are working on it every day. Mr. Carocci said keep working on it and let's try and work together to solve the problems. Mr. Pannucci said trust him, they don't want to have phone calls or any impact to the neighbors, the more information they have is helpful on their end.

Mr. Brown asked Mr. Pannucci if he could give an update on where the construction is over in 4D, the intermediate capping project. Mr. Pannucci said they are close to having that completed but the weather has really been killing them with all construction projects. They've been at a standstill. The bottom portion was completely done. They are waiting until they get a thaw and can get back into the lower portion.

Mr. Brown said at last night's DEP meeting, it was brought up about mud and debris on Applebutter Road and that was the first he heard it was a problem. He doesn't recall anything being an issue, is there something going on in the last couple of weeks. Mr. Lawson said the other day when they had the thaw, Priscilla brought it up that the truck wash still wasn't working, but they can't have it working as the pipes will freeze. With the snow thawing out, there was a lot of mud and they had the sweeper out. Mr. Brown said it was more of a one-time event, it came across as an ongoing problem. Mr. Lawson said he did buy some rumble strips to try to help with the mud. When the truck wash thaws, they'll have two things working with improving that. Ms. Louder said this has happened quite a bit as far as the road being really dirty.

Ms. Louder said regarding the secondary flows, can someone tell her what the numbers are for LMC-8. Mr. Pannucci said they still are up there, 688, 443, 356 were the last three numbers. That's been on average lately for the last year. Mr. Brown said you are thinking that some of the new cell construction gets filled, it might help with that situation. Mr. Pannucci said it could as they tie everything together with the existing landfill, and could have some impact. Mr. Brown said does DEP ever raise that as an issue? Mr. Pannucci said he's never had a conversation with them about it. Ms. Louder said Laouressa used to have the concerns with it. She used to bring it up all the time as it's the secondary. Mr. Pannucci said it's supposed to be 10 gallons/acre per day as the trigger. From their standpoint, for secondary flows in their sampling analysis plan, typically if your flows are less than 10 you don't have to sample for leachate parameters. When they are over the 10, the LMC-8 gets sampled as it were a primary source. They have their groundwater monitoring system around the property. There's a lot of other checks and balances in place so that they are not harming the environment anywhere.

Ms. Louder said regarding last night's presentation, on the backside of the NE expansion, what does it butt up to at the border. Mr. Pannucci said he's not sure he's going to answer this correctly, but basically the picture that was brought up, the parameter where they are going to be filling it is an MSE wall, so the waste mass will be butting up to the MSE wall. That picture showed an MSE wall surrounding the northern portion of the landfill and get up to their 7.5 grade. Ms. Louder said what is on the other side, go up the hill 725', then down the hill 725', what is in the border? Mr. Brown said it's going to go close to where the fence is on the northern side. Mr. Pannucci said correct, there will be a lower access road so they can continue to monitor any groundwater wells, parameter probes or anything on the back side, as they need to be. It's similar to the walls they have on site currently. Mr. Brown said to answer your question a little further, beyond that, it's going to be wooden natural area. Mr. Pannucci said they can't go any further than their property boundary of the current landfill. Ms. Louder said how close is a residential home to any of that expansion, anything behind there. Mr. Pannucci said it's no closer than it's ever been to those properties on Riverside Drive. Ms. Louder said those wells are still being inspected by the landfill? Mr. Pannucci said yes. Ms. Louder said have there been any issues with that? Do people live there yet? Mr. Pannucci said there's two residents there. They haven't had any issues with the well monitoring.

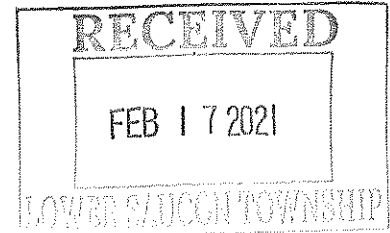
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Mr. Andrew Krasnansky, resident, said he lives up from the entrance and getting back to the dirt on the road, it's been an issue for a while and he doesn't think anyone ever said a word about it. He washed his car the other day and you couldn't tell. It's been a couple of years this has been going on and the last Manager gave him and Sue Severn tickets to go down to Hellertown to run their car through the car wash. If you go down there any time of the day, there's a yellow line on that road and you won't be able to see it.

Mr. Carocci asked Mr. Brown to take pictures of some of that for our next meeting. Mr. Brown said sure. Mr. Carocci said he'll try to drive by there also. Ms. Louder said when her husband is on duty, he also has run into that issue as he had to take the car to the car wash. They had a street sweeper before that used to go out every day and wash the road. Mr. Carocci said you can't use it when it's freezing cold out. Mr. Brown said they definitely have a street sweeper and he notes that in his report whether he sees it or not. Mr. Lawson said they do have it in the budget to upgrade the truck wash, as the one they have now is dilapidated so hopefully that will help.

Mrs. Palik said the next meeting is Thursday, March 18, 2021 at 1:00 p.m. The meeting ended at 6:30 p.m.

Bethlehem Landfill Company  
LST Committee Meeting January 2021  
February 18, 2021



**Agenda Items**

**I. Waste Activities**

Monthly Tonnages

	November	December	January
MSW	13,113.94	7,924.91	14,399.82
C&D	5,901.80	3,290.58	4,975.63
Residual (Total)	1,411.56	986.67	1,403.96
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Out of state (Total)	8,693.70 (41%)	4,907.88 (38%)	10,618.77(47%)
Recycle	8 (75%)	9 (89%)	9 (89%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
Stuffed Puffs, LLC	Food Waste (430)	1/26/21
Gemini Arts Initiative, Inc.	Contaminated Soil (507)	2/3/21

**II. Annual Groundwater Trend Analysis**

First quarter sampling event is scheduled for 2/22/21 – 2/25/21.

**III. Correspondence / Reports**

Host Municipality Report – Q4 2020	1/21/21
Groundwater Report – Q4 2020	1/21/21
Facility Report – Q3 2020	1/21/21
NSPS SEM Report – Q4 2020	1/21/21
Title V Monitoring Report – 2 <sup>nd</sup> Half 2020	1/29/21
Abatement Well Reports – January 2020	2/3/21

#### IV. Landfill Operations

##### Department of Environmental Protection Inspections

1/28/21 M. Glogowski (Solid Waste)

##### Host Municipal Inspection

2/4/21 S. Brown

2/18/21 S. Brown

<u>Commercial Waste Vehicles</u>	November	December	January
Total # Trucks	2,142	1,440	2,137
	November	December	January
Overweight	33	14	42
Warnings	31	13	35
Suspensions	2	1	7

November – TT=8, RL=16, RO=5, FL=1, DT=3 December – TT=2, RL=10, RO=2 January – TT=33, RL=7, RO=2

FL = front loader, RO = rolloff, TT=tractor trailer, RL = rear loader, SL = side loader, DT = triaxial dump

##### Flare Operations and Gas Collection

**The LFG flare is the main GCCS. Bethlehem Landfill continues to communicate with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors.**

**January Average Flare Flow = 3,246 SCFM**

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

None

Documentation is on file.

North Slope Road has not needed repairs. The swale has not needed repairs.

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 0 radioactive loads for January.

SE Realignment Construction Activities

Waste operations are in SE-1B and SE-2AB Phase I.

Complaints received by Waste Connections

See attached.

**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
973		2/7/2020	522343	262	37	1			60874300	35019	5003	192	18.1"
974		2/14/2020	522536	193	28	1			60910938	36638	5234	201	3.8"
975		2/19/2020	522547	11	2	0			60938943	28005	5601	215	3.9"
976		2/28/2020	522856	309	34	1			60977622	38679	4298	165	23.6"
977		3/2/2020	522916	60	20	1			60994698	17076	5692	219	16.4"
978		3/13/2020	523250	334	30	1			61049425	54727	4975	191	23.4"
979		3/18/2020	523352	102	20	1			61076976	27551	5510	212	21.5"
980		3/26/2020	523384	32	4	0			61206109	129133	16142	621	22.3"
981		3/31/2020	523567	183	37	1			61308672	102563	20513	789	15.9"
982		4/7/2020	523618	51	7	0			61359705	51033	7290	280	13.0"
983		4/17/2020	523671	53	5	0			61476748	117043	11704	450	16.4"
984		4/20/2020	523700	29	10	0			61504362	27614	9205	354	21.5"
985		4/29/2020	523720	20	2	0			61559365	55003	6111	235	18.9"
986		5/5/2020	523755	35	6	0			61595079	35714	5952	229	13.4"
987		5/13/2020	523844	89	11	0			61641720	46641	5830	224	12.1"
988		5/21/2020	523998	154	19	1			61661891	20171	2521	97	20.1"
989		5/26/2020	524039	41	8	0			61720812	58921	11784	453	18.9"
990		6/1/2020	524118	79	13	1			61751968	31156	5193	200	19.3"
991		6/10/2020	524195	77	9	0			61804170	52202	5800	223	22.1"
992		6/16/2020	524277	82	14	1			61833245	29075	4846	186	20.6"
993		6/26/2020	524301	24	2	0			61891777	58532	5853	225	13.6"
994		6/30/2020	524483	182	46	2			61910684	18907	4727	182	22.3"
995		7/10/2020	524566	83	8	0			61976383	65699	6570	253	14.7"
996		7/16/2020	524651	85	14	1			62012163	35780	5963	229	17.0"
997		7/22/2020	524729	78	13	1			62044621	32458	5410	208	25.3"
998		7/31/2020	524841	112	12	0			62076168	31547	3505	135	20.4"
999		8/7/2020	526409	1568	224	9			62159346	83178	11883	457	15.5"
1000		8/13/2020	526560	151	25	1			62193872	34526	5754	221	18.7"
1001		8/18/2020	526686	126	25	1			62222647	28775	5755	221	19.7"
1002		8/31/2020	526888	202	16	1			62292925	70278	5406	208	13.4"
1003		9/11/2020	526992	104	9	0			62382145	89220	8111	312	13.4"
1004		9/16/2020	527011	19	4	0			62401942	19797	3959	152	22.4"
1005		9/25/2020	527117	106	12	0			62451099	49157	5462	210	17.0"
1006		9/30/2020	527173	56	11	0			62482625	31526	6305	243	23.8"
1007		10/5/2020	527215	42	8	0			62513246	30621	6124	236	22.5"
1008		10/15/2020	527215	0	0	0			62568597	55351	5535	213	23.2"
1009		10/20/2020	527322	107	21	1			62594132	25535	5107	196	22.1"
1010		10/30/2020	527420	98	10	0			62654664	60532	6053	233	23.8"
1011		11/9/2020	527509	89	9	0			62746626	91962	9196	354	13.0"
1012		11/19/2020	527608	99	10	0			62815665	69039	6904	266	16.1"
1013		11/25/2020	527612	4	1	0			62884516	68851	11475	441	16.2"
1014		11/30/2020	527655	43	9	0			62953430	68914	13783	530	23.8"
1015		12/10/2020	527711	56	6	0			63012164	58734	5873	226	28.7"
1016		12/16/2020	527746	35	6	0			63064314	52150	8692	334	27.1"
1017		12/21/2020	527784	38	8	0			63107071	42757	8551	329	14.7"
1018		12/30/2020	528281	497	55	2			63180785	73714	8190	315	17.0"
1019		1/6/2021	528310	29	4	0			63215472	34687	4955	191	20.1"
1020		1/11/2021	528374	64	13	0			63272325	56853	11371	437	17.0"
1021		1/22/2021	528442	68	6	0			63362249	89924	8175	314	16.1"
1022		1/29/2021	528470	28	4	0			63392464	30215	4316	166	16.6"





**IESI BETHLEHEM LANDFILL**

	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
865	Phase IV PS-4 (Secondary)												
866	Date	days	totalizer	gallon	flow(gpd)	g/ac/day	Phase IV PS-4 (Primary)						sump
867								totalizer	gallons	flow(gpd)	g/ac/day	Inches	
973	2/7/2020	7	11209	476	68	6		6595381	16148	2307	556	30.7"	
974	2/14/2020	7	11233	24	3	0		6640266	44885	6412	1545	20.5"	
975	2/19/2020	5	11233	0	0	0		6648284	8018	1604	386	22.1"	
976	2/28/2020	9	11298	65	7	1		6683501	35217	3913	943	17.3"	
977	3/2/2020	3	11298	0	0	0		6688138	4637	1546	372	29.5"	
978	3/13/2020	11	11299	1	0	0		6711572	23434	2130	513	14.0"	
979	3/18/2020	5	11299	0	0	0		6718305	6733	1347	324	25.2"	
980	3/26/2020	8	11299	0	0	0		6739269	20964	2621	631	15.7"	
981	3/31/2020	5	11679	380	76	7		6753055	13786	2757	664	30.8"	
982	4/7/2020	7	11730	51	7	1		6769035	15980	2283	550	23.0"	
983	4/17/2020	10	11730	0	0	0		6790083	21048	2105	507	28.7"	
984	4/20/2020	3	11730	0	0	0		6803901	13818	4606	1110	13.2"	
985	4/29/2020	9	11730	0	0	0		6822395	18494	2055	495	27.0"	
986	5/5/2020	6	11730	0	0	0		6840574	18179	3030	730	30.8"	
987	5/13/2020	8	11730	0	0	0		6865709	25135	3142	757	25.8"	
988	5/21/2020	8	11730	0	0	0		6870318	4609	576	139	26.4"	
989	5/26/2020	5	11730	0	0	0		6879605	9287	1857	448	28.4"	
990	6/1/2020	6	11803	73	12	1		6888676	9071	1512	364	25.0"	
991	6/10/2020	9	11803	0	0	0		6900277	11601	1289	311	27.4"	
992	6/16/2020	6	11803	0	0	0		6909549	9272	1545	372	14.8"	
993	6/26/2020	10	12223	420	42	4		6920880	11331	1133	273	27.6"	
994	6/30/2020	4	12224	1	0	0		6927925	7045	1761	424	16.3"	
995	7/10/2020	10	12337	113	11	1		6939329	11404	1140	275	24.8"	
996	7/16/2020	6	12848	511	85	8		6960197	20868	3478	838	24.5"	
997	7/22/2020	6	12900	52	9	1		6971311	11114	1852	446	21.1"	
998	7/31/2020	9	12900	0	0	0		6982210	10899	1211	292	21.1"	
999	8/7/2020	7	13783	883	126	12		7041991	59781	8540	2058	21.8"	
1000	8/13/2020	6	14095	312	52	5		7057306	15315	2553	615	22.3"	
1001	8/18/2020	5	14225	130	26	2		7070070	12764	2553	615	29.7"	
1002	8/31/2020	13	14255	30	2	0		7097878	27808	2139	515	17.2"	
1003	9/1/2020	11	14255	0	0	0		7120913	23035	2094	505	17.2"	
1004	9/16/2020	5	14255	0	0	0		7128461	7548	1510	364	19.4"	
1005	9/25/2020	9	14675	420	47	4		7140453	11992	1332	321	24.7"	
1006	9/30/2020	5	14676	1	0	0		7157349	16896	3379	814	23.8"	
1007	10/5/2020	5	14676	0	0	0		7169841	12492	2498	602	24.8"	
1008	10/15/2020	10	14679	3	0	0		7179906	10065	1007	243	23.8"	
1009	10/20/2020	5	15151	472	94	9		7194892	14966	2997	722	22.7"	
1010	10/30/2020	10	15151	0	0	0		7219584	24692	2469	595	21.1"	
1011	11/9/2020	10	15652	501	50	5		7251905	32321	3232	779	30.4"	
1012	11/19/2020	10	15723	71	7	1		7281421	29516	2952	711	27.1"	
1013	11/25/2020	6	15723	0	0	0		7297743	16322	2720	656	21.3"	
1014	11/30/2020	5	15843	120	24	2		7314712	16969	3394	818	67.1"	
1015	12/10/2020	10	11758	0	0	0		6775667	0	0	0	30.2"	
1016	12/16/2020	6	11831	73	12	1		6782162	6495	1083	261	30.1"	
1017	12/21/2020	5	12174	343	69	6		6808163	26001	5200	1253	28.5"	
1018	12/30/2020	9	12597	423	47	4		6899386	91223	10136	2442	22.0"	
1019	1/6/2021	7	936	0	0	0		6713174	0	0	0	24.6"	
1020	1/11/2021	5	10815	9879	1976	186		4877820	0	0	0	24.4"	
1021	1/22/2021	11	0	0	0	0		10180	0	0	0	22.0"	
1022	1/29/2021	7	463	463	66	6		31358	21178	3025	729	25.3"	

	TIME (days)	LMC-6 (Primary Flows)				LMC-7 (Primary Flows)				LMC-8 (Primary Flows)			
		TOTALIZER	GALLONS	LOW (gpd)	S/A/I	TOTALIZER	GALLONS	LOW (gpd)	S/A/I	TOTALIZER	GALLONS	LOW (gpd)	S/A/I
2/7/2020	7.00	117498	3,637	520	33	4543848	2999	428	35	8,332,956	19265	2,752	475
2/14/2020	7.00	121469	3,971	567	36	4552157	8309	1,187	97	8,349,090	16134	2,305	397
2/19/2020	5.00	124541	3,072	614	39	4555094	2937	587	48	8,374,124	25034	5,007	863
2/28/2020	9.00	146708	22,167	2,463	157	4566735	11641	1,293	106	8,381,062	6938	771	133
3/2/2020	3.00	148953	2,245	748	48	4571049	4314	1,438	118	8,385,856	4794	1,598	276
3/13/2020	11.00	149853	900	82	5	4593751	22702	2,064	169	8,392,624	6768	615	106
3/18/2020	5.00	157742	7,889	1,578	100	4598740	4989	998	82	8,400,322	7698	1,540	265
3/26/2020	8.00	159833	2,091	261	17	4606185	7445	931	76	8,413,432	13110	1,639	283
3/31/2020	5.00	163103	3,270	654	42	4611095	4910	982	80	8,422,401	8969	1,794	309
4/7/2020	7.00	167821	4,718	674	43	4617547	6452	922	76	8,434,428	12027	1,718	296
4/17/2020	10.00	172123	4,302	430	27	4624643	7096	710	58	8,449,402	14974	1,497	258
4/20/2020	3.00	175212	3,089	1,030	66	4628910	4267	1,422	117	8,458,653	9251	3,084	532
4/29/2020	9.00	179941	4,729	525	33	4636320	7410	823	67	8,475,463	16810	1,868	322
5/5/2020	6.00	187025	7,084	1,181	75	4641637	5317	886	73	8,487,586	12123	2,021	348
5/13/2020	8.00	192131	5,106	638	41	4648300	6663	833	68	8,503,155	15569	1,946	336
5/21/2020	8.00	195481	3,350	419	27	4650021	1721	215	18	8,514,167	11012	1,377	237
5/26/2020	5.00	199803	4,322	864	55	4658236	8215	1,643	135	8,526,988	12821	2,564	442
6/1/2020	6.00	203314	3,511	585	37	4662646	4410	735	60	8,538,275	11287	1,881	324
6/10/2020	9.00	208623	5,309	590	38	4669228	6582	731	60	8,555,285	17010	1,890	326
6/16/2020	6.00	212240	3,617	603	38	4673648	4420	737	60	8,566,542	11257	1,876	323
6/26/2020	10.00	218279	6,039	604	38	4675709	2061	206	17	8,585,150	18608	1,861	321
6/30/2020	4.00	220787	2,508	627	40	4679046	3337	834	68	8,592,670	7520	1,880	324
7/10/2020	10.00	227475	6,688	669	43	13720	-4665326	#####	###	8,610,389	17719	1,772	306
7/16/2020	6.00	232249	4,774	796	51	18719	4999	833	68	8,621,690	11301	1,884	325
7/22/2020	6.00	238254	6,005	1,001	64	23823	5104	851	70	8,632,404	10714	1,786	308
7/31/2020	9.00	243236	4,982	554	35	28722	4899	544	45	8,643,618	11214	1,246	215
8/7/2020	7.00	251960	8,724	1,246	79	37490	8768	1,253	103	8,661,563	17945	2,564	442
8/13/2020	6.00	258928	6,968	1,161	74	63837	26347	4,391	360	8,674,376	12813	2,136	368
8/18/2020	5.00	264735	5,807	1,161	74	85793	21956	4,391	360	8,685,055	10679	2,136	368
8/31/2020	13.00	277404	12,669	975	62	131257	45464	3,497	287	8,708,098	23043	1,773	306
9/11/2020	11.00	284531	7,127	648	41	143812	12555	1,141	94	8,719,788	11690	1,063	183
9/16/2020	5.00	289276	4,745	949	60	161830	18018	3,604	295	8,733,483	13695	2,739	472
9/25/2020	9.00	295026	5,750	639	41	177725	15895	1,766	145	8,747,811	14328	1,592	274
9/30/2020	5.00	298590	3,564	713	45	188329	10604	2,121	174	8,757,540	9729	1,946	335
10/5/2020	5.00	301244	2,654	531	34	200556	12227	2,445	200	8,766,239	8699	1,740	300
10/15/2020	10.00	307119	5,875	588	37	212962	12406	1,241	102	8,779,385	13146	1,315	227
10/20/2020	5.00	312431	5,312	1,062	68	222764	9802	1,960	161	8,790,143	10758	2,152	371
10/30/2020	10.00	315866	3,435	344	22	237655	14891	1,489	122	8,801,652	11509	1,151	198
11/9/2020	10.00	322167	6,301	630	40	257053	19398	1,940	159	8,818,016	16364	1,636	282
11/19/2020	10.00	328799	6,632	663	42	278483	21430	2,143	176	8,833,996	15980	1,598	276
11/25/2020	6.00	335251	6,452	1,075	68	293052	14569	2,428	199	8,848,214	14218	2,370	409
11/30/2020	5.00	337198	1,947	389	25	305650	12598	2,520	207	8,854,271	6057	1,211	209
12/10/2020	10.00	343832	6,634	663	42	325487	19837	1,984	163	8,868,884	14613	1,461	252
12/16/2020	6.00	347443	3,611	602	38	348814	23327	3,888	319	8,889,148	20264	3,377	582
12/21/2020	5.00	352534	5,091	1,018	65	364113	15299	3,060	251	8,889,148	0	0	0
12/30/2020	9.00	359699	7,165	796	51	374477	10364	1,152	94	8,889,148	0	0	0
1/6/2021	7.00	363431	3,732	533	34	390420	15943	2,278	187	7,431	0	0	0
1/11/2021	5.00	369669	6,238	1,248	79	407758	17338	3,468	284	19,952	12521	2,504	432
1/22/2021	11.00	377770	8,101	736	47	436016	28258	2,569	211	40,966	21014	1,910	329
1/29/2021	7.00	382975	5,205	744	47	453468	17452	2,493	204	54,393	13427	1,918	331

IESI BETHLEHEM LANDFILL

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AO	
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		
973	2/7/2020	8	44842	0	0	0		12366988	13033	1629	393	18.1"		
974	2/14/2020	7	44842	0	0	0		12401058	14070	2010	484	27.4"		
975	2/19/2020	5	44842	0	0	0		12407059	6001	1200	289	27.1"		
976	2/28/2020	9	44842	0	0	0		12480224	73165	8129	1959	23.0"		
977	3/2/2020	3	44842	0	0	0		12500429	20205	6735	1623	23.0"		
978	3/13/2020	11	44842	0	0	0		12578488	78059	7096	1710	25.1"		
979	3/18/2020	5	44842	0	0	0		12613564	35076	7015	1690	27.4"		
980	3/26/2020	8	44863	21	3	0		12665856	52292	6537	1575	25.4"		
981	3/31/2020	5	44863	0	0	0		12700297	34441	6888	1660	23.2"		
982	4/7/2020	7	44863	0	0	0		12753137	52840	7549	1819	16.4"		
983	4/17/2020	10	44863	0	0	0		12817553	64416	6442	1552	24.2"		
984	4/20/2020	3	44863	0	0	0		12859101	41548	13849	3337	20.4"		
985	4/29/2020	9	44863	0	0	0		12920054	60953	6773	1632	25.9"		
986	5/5/2020	6	44863	0	0	0		12978826	58772	9795	2360	17.2"		
987	5/13/2020	8	44863	0	0	0		13061671	82845	10356	2495	23.8"		
988	5/21/2020	8	44863	0	0	0		13088892	27221	3403	820	21.3"		
989	5/26/2020	5	44863	0	0	0		13157932	69040	13808	3327	21.1"		
990	6/1/2020	6	44863	0	0	0		13188082	30150	5025	1211	20.4"		
991	6/10/2020	9	44863	0	0	0		13226025	37943	4216	1016	27.2"		
992	6/16/2020	6	44863	0	0	0		13249608	23583	3931	947	22.3"		
993	6/26/2020	10	44863	0	0	0		13274886	25278	2528	609	17.5"		
994	6/30/2020	4	44863	0	0	0		13284260	9374	2344	565	20.4"		
995	7/10/2020	10	44863	0	0	0		13307263	23003	2300	554	22.5"		
996	7/16/2020	6	44863	0	0	0		13330152	22889	3815	919	22.3"		
997	7/22/2020	6	44863	0	0	0		13352941	22789	3798	915	21.1"		
998	7/31/2020	9	44863	0	0	0		13364424	11483	1276	307	21.3"		
999	8/7/2020	7	44863	0	0	0		13418867	54443	7778	1874	18.5"		
1000	8/13/2020	6	44863	0	0	0		13474007	55140	9190	2214	19.2"		
1001	8/18/2020	5	44863	0	0	0		13519957	45950	9190	2214	19.9"		
1002	8/31/2020	13	44863	0	0	0		13577909	57952	4458	1074	22.1"		
1003	9/11/2020	11	44863	0	0	0		13603478	25569	2324	580	26.4"		
1004	9/16/2020	5	44863	0	0	0		13620826	17348	3470	836	27.0"		
1005	9/25/2020	9	44863	0	0	0		13655405	34579	3842	926	18.7"		
1006	9/30/2020	5	44863	0	0	0		13677409	22004	4401	1060	17.7"		
1007	10/5/2020	5	44863	0	0	0		13689319	11910	2382	574	21.7"		
1008	10/15/2020	10	44863	0	0	0		13694320	5001	500	121	21.7"		
1009	10/20/2020	5	44863	0	0	0		13694320	0	0	0	21.7"		
1010	10/30/2020	10	44863	0	0	0		13694320	0	0	0	21.7"		
1011	11/9/2020	10	45009	146	15	1		13730094	35774	3577	862	19.7"		
1012	11/19/2020	10	45009	0	0	0		13762230	32136	3214	774	27.6"		
1013	11/25/2020	6	45009	0	0	0		13773328	11098	1850	446	22.4"		
1014	11/30/2020	5	45009	0	0	0		13780021	6693	1339	323	23.4"		
1015	12/10/2020	10	45013	4	0	0		13803367	23346	2335	563	30.4"		
1016	12/16/2020	6	45015	2	0	0		13810357	6990	1165	281	31.1"		
1017	12/21/2020	5	45015	0	0	0		13825969	15612	3122	752	20.8"		
1018	12/30/2020	9	45015	0	0	0		13862880	36911	4101	988	19.8"		
1019	1/6/2021	7	45015	0	0	0		13874248	11368	1624	391	22.7"		
1020	1/11/2021	5	45278	263	53	5		13921450	47202	9440	2275	23.0"		
1021	1/22/2021	11	45278	0	0	0		13995360	73910	6719	1619	21.1"		
1022	1/29/2021	7	45278	0	0	0		14022430	27070	3867	932	36.1"		

**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**

January 2021

<u>Location</u>	<u>Total gallons</u>
LMC-6	24,451
LMC-7	78,991
LMC-8	109,672
PS-4	33,400
LMC-10	1,713,135
PS-1	211,868
PS-2	141,349
PS-3	159,813
Phase-IV	513,030

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 and LFG condensate.

**Total Discharge**

LMC-10	1,713,135
<u>Phase IV</u>	<u>513,030</u>
<b>TOTAL</b>	<b>2,226,165 gallons</b>

**Total Leachate**

Leachate	246,514
<u>Phase IV</u>	<u>513,030</u>
<b>TOTAL</b>	<b>759,544 gallons</b>

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 1,466,621 gallons (Neptune Flow meters)

**IESI BETHLEHEM LANDFILL**

	O	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 )							
867	(days)	TOTALIZE	GALLONS	FLOW (gpd)	g/ac/day				Totalizer	gallons	flow(gpd)	g/ac/day	inches
973	2/7/2020	7	7263	0	0	0.0			22189631	30416	4345	410	4.5"
974	2/14/2020	7	7263	0	0	0.0			22223467	33836	4834	456	5.6"
975	2/19/2020	5	7263	0	0	0.0			22227486	4019	804	76	5.3"
976	2/28/2020	9	7263	0	0	0.0			22318120	90634	10070	950	5.3"
977	3/2/2020	3	7263	0	0	0.0			22355010	36890	12297	1160	5.2"
978	3/13/2020	11	7263	0	0	0.0			22383929	28919	2629	248	4.7"
979	3/18/2020	5	7263	0	0	0.0			22403059	19130	3826	361	4.4"
980	3/26/2020	8	7263	0	0	0.0			22431833	28774	3597	339	4.8"
981	3/31/2020	5	7263	0	0	0.0			22451677	19844	3969	374	5.1"
982	4/7/2020	7	7263	0	0	0.0			22480883	29206	4172	394	5.1"
983	4/17/2020	10	7263	0	0	0.0			22511958	31075	3108	293	5.1"
984	4/20/2020	3	7263	0	0	0.0			22532039	20081	6694	631	5.3"
985	4/29/2020	9	7263	0	0	0.0			22565254	33215	3691	348	5.4"
986	5/5/2020	6	7263	0	0	0.0			22590101	24847	4141	391	5.5"
987	5/13/2020	8	7263	0	0	0.0			22623030	32929	4116	388	5.4"
988	5/21/2020	8	7263	0	0	0.0			22643012	19982	2498	236	5.0"
989	5/26/2020	5	7263	0	0	0.0			22670532	27520	5504	519	5.1"
990	6/1/2020	6	7263	0	0	0.0			22689706	19174	3196	301	5.0"
991	6/10/2020	9	7335	72	8	0.8			22716901	27195	3022	285	4.9"
992	6/16/2020	6	7335	0	0	0.0			22734209	17308	2885	272	5.0"
993	6/26/2020	10	7335	0	0	0.0			22762029	27820	2782	262	5.0"
994	6/30/2020	4	7335	0	0	0.0			22773024	10995	2749	259	5.0"
995	7/10/2020	10	7335	0	0	0.0			22799449	26425	2643	249	5.0"
996	7/16/2020	6	7335	0	0	0.0			22816852	17403	2901	274	5.4"
997	7/22/2020	6	7335	0	0	0.0			22837900	21048	3508	331	5.5"
998	7/31/2020	9	7335	0	0	0.0			22855368	17468	1941	183	5.0"
999	8/7/2020	7	7335	0	0	0.0			22886450	31082	4440	419	6.4"
1000	8/13/2020	6	7335	0	0	0.0			22912298	25848	4308	406	7.1"
1001	8/18/2020	5	7335	0	0	0.0			22933839	21541	4308	406	8.2"
1002	8/31/2020	13	7386	51	4	0.4			22984118	50279	3868	365	8.9"
1003	9/11/2020	11	7386	0	0	0.0			23014426	30308	2755	260	8.1"
1004	9/16/2020	5	7386	0	0	0.0			23034417	19991	3998	377	8.3"
1005	9/25/2020	9	7386	0	0	0.0			23060504	26087	2899	273	6.9"
1006	9/30/2020	5	7386	0	0	0.0			23077340	16836	3367	318	7.7"
1007	10/5/2020	5	7386	0	0	0.0			23094274	16934	3387	320	6.9"
1008	10/15/2020	10	7386	0	0	0.0			23115439	21165	2117	200	11.8"
1009	10/20/2020	5	7386	0	0	0.0			23136871	21432	4286	404	15.7"
1010	10/30/2020	10	7386	0	0	0.0			23157400	20529	2053	194	25.3"
1011	11/9/2020	10	7389	3	0	0.0			23199765	42365	4237	400	19.0"
1012	11/19/2020	10	7389	0	0	0.0			23241963	42198	4220	398	21.7"
1013	11/25/2020	6	7389	0	0	0.0			23294285	52322	8720	823	19.3"
1014	11/30/2020	5	7439	50	10	0.9			23315295	21010	4202	396	31.7"
1015	12/10/2020	10	7439	0	0	0.0			23315295	0	0	0	30.0"
1016	12/16/2020	6	7442	3	1	0.0			23344318	29023	4837	456	20.1"
1017	12/21/2020	5	7442	0	0	0.0			23404459	60141	12028	1135	32.7"
1018	12/30/2020	9	7442	0	0	0.0			23447940	43481	4831	456	25.0"
1019	1/6/2021	7	7442	0	0	0.0			23487743	39803	5686	536	25.0"
1020	1/11/2021	5	7442	0	0	0.0			23517125	29382	5876	554	29.2"
1021	1/22/2021	11	7442	0	0	0.0			23564495	47370	4306	406	25.5"
1022	1/29/2021	7	7442	0	0	0.0			23589289	24794	3542	334	31.2"