

**Bethlehem Landfill Company
LST Committee Report
2022 Q3**

Agenda Items

I. Waste Activities

Monthly Tonnages

	July	August	September
MSW	20,841.38	23,788.14	18,775.41
C&D	6,125.92	7,444.67	8,735.55
Residual (Total)	3,461.89	1,824.34	4,476.05
Asbestos	0.00	0.00	0.00
Alternate Daily Cover	3,491.14	3,590.01	2,716.95
Sewage Sludge	653.67 (1.8%)	785.83 (2.1%)	663.62 (1.8%)
Out of State (Total)	21,212.95 (61.4%)	24,943.88 (66.5%)	23,158.35 (65.5%)
Recycle	3 (33.33%)	10 (90%)	6 (83.33)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
L&M Fabrication	Ferrous Baghouse Dust	7/19/22
SVC Tire Truck CTR	Blasting Abrasive	7/26/22
NJ American Water	Water Treatment Plant Sludge	8/02/22
Victaulic Co.	Contaminated Soil	8/24/22
NJ American Water	Water Treatment Plant Sludge	8/29/22
Semmel Excavation LLC	Contaminated Soil	9/13/22
Semmel Excavation LLC	Contaminated Soil	9/20/22
S Fallsburg WWTP	Sewage Sludge	9/28/22
Assai Energy	Filter Media	9/28/22

II. Annual Groundwater Trend Analysis

Third quarter sampling event was scheduled for 8/29-8/31/2022

EXHIBIT

BLC 116

III. Correspondence / Reports

5/15/2022 Bethlehem Landfill Odor Complaint Log update May 2022

IV. Landfill Operations

Department of Environmental Protection Inspections

7/25/2022	M. Vipond (Enforcement)
7/21/2022	M. Glogowski (Engineering)
8/23/2022	M. Vipond (Enforcement)
8/24/2022	M. Glogowski (Engineering)
8/29/2022	R. Malizia (Groundwater)
9/16/2022	M. Vipond (Enforcement)
9/27/2022	M. Vipond (Enforcement)
9/28/2022	M. Glogowski (Engineering)

Host Municipal Inspection

7/07/2022	S. Brown
7/21/2022	S. Brown
8/04/2022	S. Brown
8/18/2022	S. Brown
9/01/2022	S. Brown
9/15/2022	S. Brown

<u>Commercial Waste Vehicles</u>	July	August	September
Total # Trucks	2,898	3,083	2,814
	July	August	September
Overweight	39	39	55
Warnings	28	30	37
Suspensions	11	9	18

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.

July Average Flare Flow = 3,630 SCFM

August Average Flare Flow = 3,685 SCFM

September Average Flare Flow = 2,797 SCFM

See times for flare shutdowns and SSM forms.

Down time for July was 47 minutes and 23 seconds out of a total runtime of 744 hours.

Down time for August was 2 hours and 25 minutes out of a total runtime of 744 hours.

Down time for September was 15 hours and 40 minutes out of a total runtime of 720 hours. Out of the time down, 13 hours were schedule for maintenance to flare components.

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

Radiation Loads were as follows:

July: 1 radioactive Load, Tc-99m (Technecium-99m) disposed on site and reported.

August: 3 radioactive loads, 1 Tc-99m (Technecium-99m), 1 Tl-201 (Thallium-201), 1 Ga-67 (Gallium-67), disposed on site and reported.

September: 1 radioactive load, 1 I-125 (Iodine-125) disposed on site and reported.

SE Realignment Construction Activities

Waste operations were in SE-2AB Phase II

Complaints received by Waste Connections

See attached.

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT

July 2022

<u>Location</u>	<u>Total gallons</u>
LMC-6	30,036
LMC-7	68,689
LMC-8	58,050
PS-4	60,770
PS-5	131,762
LMC-10	1,550,248
PS-1	137,991
PS-2	42,714
PS-3	35,547
Phase-IV	216,252

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, SE Realignment (PS-4 and PS-5), and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3 and LFG condensate.

Total Discharge

LMC-10	1,550,248
<u>Phase IV</u>	<u>216,252</u>
TOTAL	1,766,500 gallons

Total Leachate

Leachate	349,307
Phase IV	<u>216,252</u>
TOTAL	565,559 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
 Abatement System Flow = 1,200,941 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT

July 2022

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM)	(Total gal)
AB-1R	66.4	8.4	350,669
AB-2	48.5	1.8	73,816
AB-3	27.3	0.0	996
AB-4	27.2	1.2	49,824
AB-5	40.1	0.4	17,158
AB-6	43.1	1.4	58,555
AB-7	40.9	2.2	92,829
AB-8	7.2	0.1	6,006
AB-9	42.7	3.9	161,398
AB-10	42.3	9.3	389,690
TW-1	N/A	<0.1	0.0
Total Flow			1,200,941 gallons

*SWL above transducer set point

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

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT

August 2022

<u>Location</u>	<u>Total gallons</u>
LMC-6	37,652
LMC-7	70,422
LMC-8	73,290
PS-4	61,877
PS-5	186,088
LMC-10	1,039,540
PS-1	150,160
PS-2	73,974
PS-3	38,496
Phase-IV	262,630

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, SE Realignment (PS-4 and PS-5), and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3 and LFG condensate.

Total Discharge

LMC-10	1,468,869
<u>Phase IV</u>	<u>262,630</u>
TOTAL	1,731,499 gallons

Total Leachate

Leachate	429,329
<u>Phase IV</u>	<u>262,630</u>

TOTAL 691,959 gallons

**LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
Abatement System Flow = 1,039,540 gallons (Neptune Flow meters)**

**BETHLEHEM LANDFILL
GROUNDWATER DEMAND REPORT**

August 2022

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM) (Total gal)	
AB-1R	64.5	2.8	133,262
AB-2	47.7	2.2	105,907
AB-3	30.3	0.0	384
AB-4	29.6	1.1	53,641
AB-5	40.8	0.4	17,417
AB-6	42.9	0.3	15,268
AB-7	41.2	2.1	99,955
AB-8	13.3	0.1	4,594
AB-9	42.7	3.7	176,727
AB-10	42.1	9.1	432,385
TW-1	N/A	<0.1	0.0
Total Flow		1,039,540 gallons	

***SWL above transducer set point**

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

**BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT**

September 2022

<u>Location</u>	<u>Total gallons</u>
LMC-6	31,746
LMC-7	57,907
LMC-8	47,126
PS-4	61,797
PS-5	215,741
 LMC-10	 1,355,482
 PS-1	 110,886
PS-2	64,903
PS-3	42,654
 Phase-IV	 218,443

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, SE Realignment (PS-4 and PS-5), and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3 and LFG condensate.

Total Discharge

LMC-10	1,355,482
<u>Phase IV</u>	<u>218,443</u>
TOTAL	1,573,925 gallons

Total Leachate

Leachate	414,317
<u>Phase IV</u>	<u>218,443</u>

TOTAL 632,760 gallons

**LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
Abatement System Flow = 941,165 gallons (Neptune Flow meters)**

**BETHLEHEM LANDFILL
GROUNDWATER DEMAND REPORT**

September 2022

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM) (Total gal)	
AB-1R	62.9	2.3	97,540
AB-2	47.0	2.2	95,275
AB-3	27.2	0.0	704
AB-4	30.4	1.5	65,495
AB-5	46.0	0.5	22,507
AB-6	42.3	0.3	10,868
AB-7	42.0	2.2	95,418
AB-8	15.5	0.0	0
AB-9	42.8	3.8	164,266
AB-10	42.1	9.0	389,092
TW-1	N/A	<0.1	0.0
Total Flow		941,116 gallons	

***SWL above transducer set point**

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

	TIME	Phase IV PS-1 (Secondary Flows)				Phase IV PS-1 (Primary flow)				sump	TIME	Phase IV PS-2 (Secondary Flows)			
	(days)	TOTALZER	GALLONS	FLOW (gpd)	g/ac/day	Totalzer	gallons	flow(gpd)	g/ac/day		(days)	TOTALZER	GALLONS	FLOW (gpd)	g/ac/day
1/8/2022	8	579881	878	110	4	65568284	40222	5028	193	20.4"	1/8/2022	8	7743	0	0
1/13/2022	7	580277	296	42	2	65601779	32495	4642	179	21.0"	1/13/2022	7	7743	0	0
1/18/2022	5	580647	370	74	3	65634929	33150	6630	255	20.3"	1/18/2022	5	7743	0	0
1/27/2022	9	580880	233	26	1	65658628	23699	2633	101	20.0"	1/27/2022	9	8385	642	71
1/31/2022	4	581128	10248	2562	99	65674655	16027	4007	154	20.8"	1/31/2022	4	8385	0	0
2/10/2022	10	583766	2638	264	10	65725561	50906	5091	196	16.1"	2/10/2022	10	8385	0	0
2/17/2022	7	593953	187	27	1	65744562	19001	2714	104	20.7"	2/17/2022	7	8385	0	0
2/23/2022	6	593990	37	6	0	65779153	34591	5765	222	21.2"	2/23/2022	6	8385	0	0
2/28/2022	5	594005	15	3	0	65798753	19600	3920	151	17.6"	2/28/2022	5	8385	0	0
3/10/2022	10	594320	315	32	1	65822543	23790	2379	92	20.7"	3/10/2022	10	8385	0	0
3/15/2022	5	594821	501	100	4	65857642	35099	7020	270	20.4"	3/15/2022	5	8385	0	0
3/22/2022	7	594985	164	23	1	65893252	35610	5087	196	20.4"	3/22/2022	7	8385	0	0
3/30/2022	8	595800	815	102	4	65931766	38514	4814	185	21.0"	3/30/2022	8	8385	0	0
4/8/2022	9	598728	2928	325	13	66000848	69082	7676	295	17.2"	4/8/2022	9	8385	0	0
4/12/2022	4	598902	174	44	2	66001489	641	160	6	18.4"	4/12/2022	4	8385	0	0
4/20/2022	8	599540	638	80	3	66125845	124356	15545	598	13.6"	4/20/2022	8	8385	0	0
4/29/2022	9	599746	206	23	1	66178778	52933	5881	226	20.8"	4/29/2022	9	8385	0	0
5/4/2022	5	599954	208	42	2	66195774	16996	3399	131	20.9"	5/4/2022	5	8385	0	0
5/10/2022	6	599969	15	3	0	66245806	50032	8339	321	19.5"	5/10/2022	6	8385	0	0
5/18/2022	8	602255	2286	286	11	66284111	48305	6038	232	26.0"	5/18/2022	8	8385	0	0
5/26/2022	8	602368	113	14	1	66313218	19107	2388	92	19.7"	5/26/2022	8	8385	0	0
5/31/2022	5	602768	400	80	3	66356278	43060	8612	331	20.0"	5/31/2022	5	8385	0	0
6/8/2022	8	602874	106	13	1	66395841	39563	4945	190	19.8"	6/8/2022	8	8385	0	0
6/15/2022	7	603415	541	77	3	66425874	30033	4290	165	20.3"	6/15/2022	7	8385	0	0
6/24/2022	9	604108	693	77	3	66458723	32849	3650	140	25.1"	6/24/2022	9	8385	0	0
6/30/2022	6	604778	670	112	4	66508356	49633	8272	318	19.8"	6/30/2022	6	8497	112	19
7/6/2022	6	604790	12	2	0	66528794	20438	3406	131	20.1"	7/6/2022	6	8497	0	0
7/15/2022	9	604804	14	2	0	66578941	50147	5572	214	19.8"	7/15/2022	9	8497	0	0
7/19/2022	4	604812	8	2	0	66617840	38899	9725	374	22.8"	7/19/2022	4	8497	0	0
7/29/2022	10	604970	158	16	1	66646155	28315	2832	109	21.7"	7/29/2022	10	8527	30	3
8/5/2022	7	604990	20	3	0	66680417	34262	4895	188	22.9"	8/5/2022	7	8527	0	0
8/9/2022	4	604999	9	2	0	66705145	24728	6182	238	21.5"	8/9/2022	4	8527	0	0
8/17/2022	8	605010	11	1	0	66748791	43646	5456	210	22.2"	8/17/2022	8	8527	0	0
8/26/2022	9	605010	0	0	0	66769847	21056	2340	90	22.9"	8/26/2022	9	8527	0	0
8/31/2022	5	605104	94	19	1	66796181	26334	5267	203	23.8"	8/31/2022	5	8527	0	0

Phase IV PS-2 (Primary)					Phase IV PS-3 (Secondary)					Phase IV PS-3 (Primary)				
Totalizer	gallons	flow(gpd)	g/ac/day	sump inches	Date	days	totalizer	gallon	flow(gpd)	g/ac/day	totalizer	gallons	flow(gpd)	sump inches
24893342	35760	4470	422	21.2"	1/6/2022	8	45828	0	0	0	14960710	9133	1142	170 28.9"
24933092	39750	5679	536	34.1"	1/13/2022	7	45828	0	0	0	14971942	11232	1605	239 34.9"
24958701	25609	5122	483	21.7"	1/18/2022	5	45828	0	0	0	14989430	17488	3498	522 34.2"
24998664	39963	4440	419	26.4"	1/27/2022	9	45828	0	0	0	14996022	6592	732	109 34.9"
25016782	18118	4530	427	32.9"	1/31/2022	4	45828	0	0	0	15006972	9950	2488	371 34.9"
25060937	44155	4416	417	24.8"	2/10/2022	10	45828	0	0	0	15037393	31421	3142	469 26.6"
25075684	14747	2107	199	26.7"	2/17/2022	7	45828	0	0	0	15054329	16936	2419	361 27.8"
25098542	22658	3810	359	31.2"	2/23/2022	6	45828	0	0	0	15079382	25053	4176	623 28.6"
25137725	39183	7837	739	27.7"	2/28/2022	5	45828	0	0	0	15097092	17710	3542	529 26.8"
25178852	41127	4113	388	28.7"	3/10/2022	10	45828	0	0	0	15110327	13235	1324	198 29.2"
25197840	18988	3798	358	32.5"	3/15/2022	5	45828	0	0	0	15119220	8893	1779	265 27.4"
25226771	28931	4133	390	27.7"	3/22/2022	7	45828	0	0	0	15132332	13112	1873	280 29.1"
25258676	31905	3988	376	28.3"	3/30/2022	8	45828	0	0	0	15144234	11902	1488	222 35.7"
25292313	33637	3737	353	28.9"	4/8/2022	9	45828	0	0	0	15160114	15880	1764	263 32.5"
25294431	2118	530	50	27.9"	4/12/2022	4	45830	2	1	0	15164038	3924	981	146 33.1"
25335344	40913	5114	482	24.7"	4/20/2022	8	45830	0	0	0	15177995	13957	1745	260 32.1"
25362720	27376	3042	287	34.0"	4/29/2022	9	46038	208	23	3	15190355	12360	1373	205 29.8"
25378893	16173	3235	305	25.4"	5/4/2022	5	46038	0	0	0	15196542	6187	1237	185 32.1"
25397660	18767	3128	295	28.8"	5/10/2022	6	46038	0	0	0	15208389	11847	1975	295 34.2"
25428596	30936	3867	365	26.0"	5/18/2022	8	46038	0	0	0	15220649	12260	1533	229 35.9"
25445732	17136	2142	202	30.0"	5/26/2022	8	46038	0	0	0	15230065	9416	1177	176 31.2"
25462830	17198	3440	324	23.0"	5/31/2022	5	46038	0	0	0	15244042	13977	2795	417 35.7"
25498745	35815	4477	422	12.9"	6/8/2022	8	46038	0	0	0	15259557	15515	1939	289 31.2"
25504051	5306	758	72	15.7"	6/15/2022	7	46038	0	0	0	15270879	11322	1617	241 32.6"
25515789	11738	1304	123	19.8"	6/24/2022	9	46038	0	0	0	15284175	13296	1477	220 30.4"
25519424	3635	606	57	21.3"	6/30/2022	6	46038	0	0	0	15291292	7117	1186	177 31.7"
25521487	2063	344	32	27.1"	7/6/2022	6	46038	0	0	0	15298847	7555	1259	188 30.9"
25538749	17262	1918	181	30.1"	7/15/2022	9	46038	0	0	0	15302148	3301	367	55 30.5"
25542784	4035	1009	95	25.4"	7/19/2022	4	46038	0	0	0	15309875	7727	1932	288 29.8"
25562108	19324	1932	182	26.9"	7/29/2022	10	46038	0	0	0	15326839	16964	1696	253 35.7"
25584792	22684	3241	306	25.3"	8/5/2022	7	46038	0	0	0	15334355	7516	1074	160 35.3"
25598475	13683	3421	323	30.2"	8/9/2022	4	46038	0	0	0	15339874	5519	1380	206 34.2"
25605012	6537	817	77	29.6"	8/17/2022	8	46038	0	0	0	15348751	8877	1110	166 34.9"
25615484	10472	1164	110	26.9"	8/26/2022	9	46038	0	0	0	15352549	3798	422	63 31.8"
25636082	20598	4120	389	29.0"	8/31/2022	5	46038	0	0	0	15365335	12786	2557	382 32.9"

Phase IV PS-4 (Secondary)						Phase IV PS-4 (Primary)						sump
Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	inches
1/6/2022	8	9743	11	1	0			2412541	25014	3127	227	15.7"
1/13/2022	7	9743	0	0	0			2435385	22844	3263	236	28.5"
1/18/2022	5	9743	0	0	0			2464315	28930	5786	419	26.4"
1/27/2022	9	9743	0	0	0			2482321	18006	2001	145	30.2"
1/31/2022	4	9743	0	0	0			2496003	13682	3421	248	30.7"
2/10/2022	10	10172	429	43	3			2542415	46412	4641	336	31.0"
2/17/2022	7	10172	0	0	0			2569361	26946	3849	279	31.2"
2/23/2022	6	10172	0	0	0			2595736	26375	4396	319	28.4"
2/28/2022	5	10172	0	0	0			2609879	14143	2829	205	27.8"
3/10/2022	10	10172	0	0	0			2648631	38752	3875	281	31.0"
3/15/2022	5	10172	0	0	0			2662545	13914	2783	202	27.1"
3/22/2022	7	10172	0	0	0			2686071	23526	3361	244	31.0"
3/30/2022	8	10172	0	0	0			2714234	28163	3520	255	30.1"
4/8/2022	9	10172	0	0	0			2751713	37479	4164	302	28.4"
4/12/2022	4	10172	0	0	0			2752489	776	194	14	29.1"
4/20/2022	8	10606	434	54	4			2799775	47286	5911	428	29.1"
4/29/2022	9	10609	3	0	0			2828627	28852	3206	232	25.1"
5/4/2022	5	10609	0	0	0			2842853	14226	2845	206	27.8"
5/10/2022	6	10609	0	0	0			2866195	23342	3890	282	27.9"
5/18/2022	8	11051	442	55	4			2891270	25075	3134	227	19.8"
5/26/2022	8	11051	0	0	0			2906782	15512	1939	141	27.4"
5/31/2022	5	11051	0	0	0			2926545	19763	3953	286	28.3"
6/8/2022	8	11052	1	0	0			2945587	19042	2380	172	27.5"
6/15/2022	7	11053	1	0	0			2965879	20292	2899	210	28.5"
6/24/2022	9	11054	1	0	0			2985478	19599	2178	158	27.6"
6/30/2022	6	11492	438	73	5			2996639	11161	1860	135	27.4"
7/6/2022	6	11492	0	0	0			3009571	12932	2155	156	20.9"
7/15/2022	9	11492	0	0	0			3019587	10016	1113	81	21.1"
7/19/2022	4	11492	0	0	0			3035418	15831	3958	287	23.4"
7/29/2022	10	11933	441	44	3			3056468	21050	2105	153	21.3"
8/5/2022	7	11933	0	0	0			3069340	12872	1839	133	30.0"
8/9/2022	4	11933	0	0	0			3078548	9208	2302	167	22.3"
8/17/2022	8	11933	0	0	0			3089462	10914	1364	99	24.5"
8/26/2022	9	11933	0	0	0			3102546	13084	1454	105	21.9"
8/31/2022	5	11933	0	0	0			3118845	16299	3260	236	30.0"

Phase IV PS-5 (Secondary)						Phase IV PS-5 (Primary)						sump
Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	inches
1/6/2022	8	24383	0	0	0			2825723	14894	1862	286	24.3"
1/13/2022	7	28277	3894	556	86			2862204	36481	5212	802	24.7"
1/18/2022	5	41709	13432	2686	413			2913994	51790	10358	1594	31.6"
1/27/2022	9	88371	46662	5185	798			3037793	123799	13755	2116	20.1"
1/31/2022	4	89075	704	176	27			3091601	53808	13452	2070	27.2"
2/10/2022	10	91891	2816	282	43			3114548	22947	2295	353	28.0"
2/17/2022	7	92823	932	133	20			3135793	21245	3035	467	28.4"
2/23/2022	6	93152	329	55	8			3154233	18440	3073	473	25.9"
2/28/2022	5	95017	1865	373	57			3177520	23287	4657	717	20.8"
3/10/2022	10	95893	876	88	13			3296447	118927	11893	1830	21.9"
3/15/2022	5	96450	557	111	17			3359010	62563	12513	1925	30.0"
3/22/2022	7	96450	0	0	0			3359010	0	0	0	30.5"
3/30/2022	8	97886	1436	180	28			3652230	293220	36653	5639	29.7"
4/8/2022	9	98952	1066	118	9			4521455	869225	96581	7050	26.5"
4/12/2022	4	98988	36	9	1			4581239	59784	14946	1091	25.4"
4/20/2022	8	100420	1432	179	13			4962377	381138	47642	3478	30.2"
4/29/2022	9	101530	1110	123	9			5009138	46761	5196	379	28.7"
5/4/2022	5	101678	148	30	2			5124518	115380	23076	1684	30.1"
5/10/2022	6	102606	928	155	11			5460588	336070	56012	4088	32.4"
5/18/2022	8	102956	350	44	3			5475827	15239	1905	139	22.2"
5/26/2022	8	102956	0	0	0			5481124	5297	662	48	29.6"
5/31/2022	5	102956	0	0	0			5485827	4703	941	69	28.7"
6/8/2022	8	104587	1631	204	15			5648792	162965	20371	1487	30.6"
6/15/2022	7	105498	911	130	9			5787485	138693	19813	1446	29.7"
6/24/2022	9	106059	561	62	5			5898742	111257	12362	902	26.5"
6/30/2022	6	107226	1167	195	14			5965126	66384	11064	808	30.2"
7/6/2022	6	107885	659	110	8			5987748	22622	3770	275	29.8"
7/15/2022	9	107885	0	0	0			5999874	12126	1347	98	31.4"
7/19/2022	4	108473	588	147	11			6024587	24713	6178	451	34.2"
7/29/2022	10	109350	877	88	6			6094764	70177	7018	512	23.3"
8/5/2022	7	113248	3898	557	41			6132548	37784	5398	394	31.5"
8/9/2022	4	113248	0	0	0			6159874	27326	6832	499	30.8"
8/17/2022	8	110547	-2701	-338	-25			6195428	35554	4444	324	29.9"
8/26/2022	9	112165	1618	180	13			6253470	58042	6449	471	31.5"
8/31/2022	5	112165	0	0	0			6278037	24567	4913	359	32.3"

	TIME (days)	LMC-6 (Primary Flows)				LMC-7 (Primary Flows)				LMC-8 (Primary Flows)			
		TOTALIZER	GALLONS	LOW (gpd)	G/A/D	TOTALIZER	GALLONS	LOW (gpd)	G/A/D	TOTALIZER	GALLONS	LOW (gpd)	G/A/D
1/6/2022	8.00	587056	4,342	543	35	1092009	5112	639	52	835,225	11924	1,491	257
1/13/2022	7.00	591403	4,347	621	40	1106972	14963	2,138	175	846,178	10953	1,565	270
1/18/2022	5.00	594325	2,922	584	37	1120921	13949	2,790	229	855,321	9143	1,829	315
1/27/2022	9.00	599036	4,711	523	33	1141831	20910	2,323	190	865,413	10092	1,121	193
1/31/2022	4.00	601370	2,334	584	37	1149281	7450	1,863	153	871,014	5601	1,400	241
2/10/2022	10.00	608305	6,935	694	44	1167636	18355	1,836	150	885,927	14913	1,491	257
2/17/2022	7.00	609782	1,477	211	13	1178493	10857	1,551	127	896,655	10728	1,533	264
2/23/2022	6.00	619435	9,653	1,609	102	1185763	7270	1,212	99	900,033	3378	563	97
2/28/2022	5.00	621942	2,507	501	32	1202461	16698	3,340	274	913,827	13794	2,759	476
3/10/2022	10.00	630384	8,442	844	54	1215637	13176	1,318	108	924,472	10645	1,065	184
3/15/2022	5.00	634247	3,863	773	49	1237005	21368	4,274	350	939,240	14768	2,954	509
3/22/2022	7.00	640247	6,000	857	55	1255693	18688	2,670	219	951,917	12677	1,811	312
3/30/2022	8.00	647228	6,981	873	56	1277863	22170	2,771	227	967,666	15749	1,969	339
4/8/2022	9.00	656827	9,599	1,067	68	1303834	25971	2,886	237	989,026	21360	2,373	409
4/12/2022	4.00	658931	2,104	526	34	1304931	1097	274	22	990,047	1021	255	44
4/20/2022	8.00	672312	13,381	1,673	107	1342040	37109	4,639	380	1,034,884	44837	5,605	966
4/29/2022	9.00	680547	8,235	915	58	1367610	25570	2,841	233	1,060,283	25399	2,822	487
5/4/2022	5.00	684325	3,778	756	48	1383320	15710	3,142	258	1,071,263	10980	2,196	379
5/10/2022	6.00	691716	7,391	1,232	78	1398953	15633	2,606	214	1,090,036	18773	3,129	539
5/18/2022	8.00	699086	7,370	921	59	1421901	22948	2,869	235	1,109,147	19111	2,389	412
5/26/2022	8.00	700435	1,349	169	11	1448832	26931	3,366	276	1,124,239	15092	1,887	325
5/31/2022	5.00	710074	9,639	1,928	123	1460460	11628	2,326	191	1,141,412	17173	3,435	592
6/8/2022	8.00	717957	7,883	985	63	1495871	35411	4,426	363	1,158,647	17235	2,154	371
6/15/2022	7.00	720479	2,522	360	23	1503487	7616	1,088	89	1,178,459	19812	2,830	488
6/24/2022	9.00	726871	6,392	710	45	1515482	11995	1,333	109	1,192,154	13695	1,522	262
6/30/2022	6.00	732603	5,732	955	61	1545629	30147	5,025	412	1,208,091	15937	2,656	458
7/6/2022	6.00	739045	6,442	1,074	68	1565471	19842	3,307	271	1,211,547	3456	576	99
7/15/2022	9.00	741577	2,532	281	18	1578573	13102	1,456	119	1,232,691	21144	2,349	405
7/19/2022	4.00	750895	9,318	2,330	148	1595478	16905	4,226	346	1,241,127	8436	2,109	364
7/29/2022	10.00	762589	11,694	1,169	74	1614790	19312	1,931	158	1,265,031	23904	2,390	412
8/5/2022	7.00	770532	7,943	1,135	72	1630009	15219	2,174	178	1,278,427	13396	1,914	330
8/9/2022	4.00	774489	3,957	989	63	1648962	18953	4,738	388	1,280,365	1938	485	84
8/17/2022	8.00	780548	6,059	757	48	1665471	16509	2,064	169	1,290,547	10182	1,273	219
8/26/2022	9.00	788985	8,437	937	60	1670548	5077	564	46	1,304,785	14238	1,582	273
8/31/2022	5.00	800119	11,134	2,227	142	1684712	14164	2,833	232	1,324,082	19297	3,859	665

	TIME (days)	LMC-6 (Secondary Flows)				LMC-7 (Secondary Flows)				LMC-8 (Secondary Flows)			
		TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D
1/6/2022	8.00	160579	342	43	3	2626	28	4	0	737,374	0	0	0
1/13/2022	7.00	160873	294	42	3	2626	0	0	0	795,336	57962	8,280	1,428
1/18/2022	5.00	161033	160	32	2	2626	0	0	0	804,883	9547	1,909	329
1/27/2022	9.00	161104	71	8	1	2626	0	0	0	814,664	9781	1,087	187
1/31/2022	4.00	161108	4	1	0	2626	0	0	0	819,670	5006	1,252	216
2/10/2022	10.00	161432	324	32	2	2654	28	3	0	819,680	10	1	0
2/17/2022	7.00	161843	411	59	4	2654	0	0	0	860,407	40727	5,818	1,003
2/23/2022	6.00	162032	189	32	2	2654	0	0	0	895,672	35265	5,878	1,013
2/28/2022	5.00	162305	273	55	3	2654	0	0	0	902,685	7013	1,403	242
3/10/2022	10.00	162585	280	28	2	2654	0	0	0	902,750	65	7	1
3/15/2022	5.00	162640	55	11	1	2654	0	0	0	951,917	49167	9,833	1,695
3/22/2022	7.00	162640	0	0	0	2654	0	0	0	958,453	6536	934	161
3/30/2022	8.00	162640	0	0	0	2683	29	4	0	978,028	19575	2,447	422
4/8/2022	9.00	126622	0	0	0	2683	0	0	0	978,031	3	0	0
4/12/2022	4.00	126934	312	78	5	2683	0	0	0	980,023	1992	498	86
4/20/2022	8.00	126934	0	0	0	2711	28	4	0	1,070,360	90337	11,292	1,947
4/29/2022	9.00	126934	0	0	0	2711	0	0	0	1,089,838	19478	2,164	373
5/4/2022	5.00	126934	0	0	0	2741	30	6	0	1,095,334	5496	1,099	190
5/10/2022	6.00	126934	0	0	0	2741	0	0	0	1,138,847	43513	7,252	1,250
5/18/2022	8.00	126934	0	0	0	2741	0	0	0	1,175,716	36869	4,609	795
5/26/2022	8.00	126934	0	0	0	2741	0	0	0	1,189,324	13608	1,701	293
5/31/2022	5.00	126934	0	0	0	2741	0	0	0	1,192,731	3407	681	117
6/8/2022	8.00	126934	0	0	0	2742	1	0	0	1,192,895	164	21	4
6/15/2022	7.00	126934	0	0	0	2743	1	0	0	1,192,995	100	14	2
6/24/2022	9.00	126934	0	0	0	2744	1	0	0	1,193,478	483	54	9
6/30/2022	6.00	127450	516	86	5	2882	138	23	2	1,194,997	1519	253	44
7/6/2022	6.00	127451	1	0	0	2882	0	0	0	1,194,998	1	0	0
7/15/2022	9.00	127460	9	1	0	2882	0	0	0	1,194,999	1	0	0
7/19/2022	4.00	127489	29	7	0	2882	0	0	0	1,195,117	118	30	5
7/29/2022	10.00	127500	11	1	0	2910	28	3	0	1,196,107	990	99	17
8/5/2022	7.00	127504	4	1	0	2910	0	0	0	1,197,438	1331	190	33
8/9/2022	4.00	127504	0	0	0	2910	0	0	0	1,199,752	2314	579	100
8/17/2022	8.00	127504	0	0	0	2910	0	0	0	1,203,454	3702	463	80
8/26/2022	9.00	127600	96	11	1	2910	0	0	0	1,208,347	4893	544	94
8/31/2022	5.00	127622	22	4	0	2910	0	0	0	1,210,346	1999	400	69

Bethlehem Landfill ODOR COMPLAINT LOG (2335 Applebutter Rd, Bethlehem, PA 18015)

Date	Time	Address	Distance from Landfill (miles)	Weather Data (Allentown KABE)			Residence / Drive-by	Description / Notes	Gas Management Data			Date of Initial Response	Addressed in Insp Report Dated
				Skies	Temperature	Wind (out of)			Flare (scfm)	BRE (scfm)	Total (scfm)		
01/07/22	8:38	Johnston Ave., Steel City	0.980	Mostly Cloudy	26.0	W @ 6mph	Residence	Landfill odor on their property to the point where it's nauseating to be outside today.	2959	0	2959	1/10/2022	1/5/2022
01/13/22	8:30	Jefferson Ave, Steel City	0.939	Cloudy	27.0	ENE @ 3mph	Residence	Odor complaint	3048	0	3048	1/18/2022	1/5/2022
01/27/22	5:33	Riverside Drive, Bethlehem	1.270	Fair	7.0	Calm	Residence	I've smelled leachate coming from the landfill. It's putrid.	2916	0	2916	1/31/2022	2/17/2022
02/13/22	21:20	Saucon Ave, Steel City	0.883	Fair	23.0	N @ 12mph	Residence	Odor complaint- light methane gas odor coming from Bethlehem Landfill	3025	0	3025	2/14/2022	2/17/2022
03/05/22	23:44	Saucon Ave, Steel City	0.883	Fair	37.0	E @ 3 mph	Residence	Landfill gas odor, very strong as always	3056	0	3056	3/7/2022	3/22/2022
03/31/22	9:13	Johnston Ave., Steel City	0.980	Cloudy	46.0	ENE @ 6mph	Residence	Manure type odor on property that is coming from the Bethlehem Landfill. Odor present at time of call.	3060	0	3060	3/31/2022	3/22/2022
04/13/22	8:00	Johnston Ave., Steel City	1.170	Cloudy	53.0	E @ 5mph	Residence	Reporting a manure-type pdpr. Has noticed this a few times. Thinks it might be sludge coming into the landfill. Complainant's daughter called them & said that it was bad last night & it was much worse this morning.	3112	0	3112	4/13/2022	4/18/2022
04/29/22	13:48	Easton Ave., Bethlehem	NA	Fair	59.0	NNW @ 15mph	non-Residence	While walking on the D&L trail they could smell a terrible odor coming from the Bethlehem Landfill. By Nagy's landing & Freemansburg Ave.	3321	0	3321	5/4/2022	5/25/2022
05/14/22	16:00	Johnston Ave., Steel City	1.170	Mostly Cloudy	71.0	SE @ 7mph	Residence	Odor complaint from Bethlehem Landfill. Been smelling a faint odor off & on from 1600-1900. It's been intermittent since 1600, & it is landfill gas.	3402	0	3402	5/16/2022	6/28/2022