

Sterigenics provided this file in response to EPA’s request for data on ethylene oxide usage at the Willowbrook facility. EPA has not verified the ethylene oxide monitoring results or the meteorological data listed here.

EO Ambient Samples - EPA Results

#	Location	Objective	13-Nov	16-Nov	19-Nov	23-Nov	25-Nov	28-Nov	1-Dec	6-Dec	7-Dec	10-Dec	13-Dec	16-Dec	19-Dec	22-Dec	26-Dec	28-Dec	2-Jan	3-Jan
										NEW									NEW	
1a	Willowbrook City Hall	MAX Commercial #1	Invalid	0.824	6.11	0.284	4.1	1.83	1.68	5.39	0.737	0.3	2.04	0.871	0.521	0.981	10.8	0.672	0.251	0.372
1b	Willowbrook City Hall	MAX Commercial #1			6.31				1.9		0.822		2.13		0.338		10.5			0.257
2a	EPA Willowbrook Warehouse	MAX Commercial #2	2.37	1.81	6.62	0.18	Invalid	0.248	0.456	11.7	2.26	0.269	0.436	2.11	0.345	3.09	Invalid	1.42	0.237	ND
2b	EPA Willowbrook Warehouse	MAX Commercial #2		1.81		Invalid	Invalid	1.14		10.5		0.403		2.19		2.57		1.19	0.396	
3	Gower Middle School	Residential			0.155	0.197	0.36	0.656	0.14	0.605	0.112	ND	0.255	0.593	0.36	0.522	ND	0.175	ND	ND
4	West Neighborhood	Residential			0.125	0.205	0.261	ND	0.804	0.254	ND	0.213	1.06	0.604	0.197	0.235	1.17	ND	ND	ND
5	Water Tower	Residential			0.246	0.893	Invalid	0.699	ND	0.389	0.273	0.248	0.211	0.535	1.67	0.441	0.151	Invalid	ND	ND
6	Willow Pond Park	Residential			0.105	0.286	0.345	0.455	0.211	ND	0.403	ND	0.365	0.334	0.546	0.116	0.166	ND	0.217	ND
7	Hinsdale South High School	Residential			0.253	Invalid	0.665	0.376	0.629	0.486	ND	0.213	0.244	0.511	0.267	0.376	0.566	0.264	ND	0.428
8	Gower Elementary School	Upwind - Background			0.164	0.202	0.411	0.474	0.464	ND	0.164	0.138	0.401	0.732	0.311	0.36	0.497	0.133	0.21	0.633
	Day of the Week		Tues	Fri	Mon	Fri	Sun	Wed	Sat	Thurs	Frid	Mon	Thurs	Sun	Wed	Sat	Wed	Fri	Wed	Thurs
	Wind Direction -12 hr before	8pm (2am GMT)	NNW	SSW	SW	SSE	NNW	NW	E	SSW	WNW	WNW	S	NW	SSW	WNW	CALM	SSW	SSW	SW
	Wind Speed - 12 hr before		13	13	3	8	5	7	12	9	5	3	3	8	8	7	0	20	3	8
	Wind Direction - first 12 hr	8am (1400 GMT)	W	W	WSW	S	NE	SSW	E	WNW	W	WSW	E	W	SSW	SSW	S	WSW	WSW	SW
	Wind Speed - first 12 hr		10	15	8	16	20	8	14	13	17	12	6	12	15	9	8	15	14	12
	Wind Direction - second 12 hr	6pm (0am GMT)	W	WNW	NNW	S	NNE	SSE	Calm	NW	W	SSW	NE	WNW	SSW	NW	ESE	WSW	W	SW
	Wind Speed - second 12 hr		6	6	12	16	25	6	0	8	5	8	6	7	9	10	14	14	14	12
	Precipitation in 24 hours		No	No	No	No	Slight	No	Slight	No	No	No	Light	No	No	No	No	No	No	No
	WB - Daily EO Usage (lbs)	WB1(8am-8am)	755	864	880	827	665	851	793	1054	697	852	1064	626	826	685	631	593	598	732
		WB2(8am-8am)	482	611	517	690	131	0	11	347	262	412	476	293	402	0	471	295	0	0
		TOTAL	1237	1475	1397	1517	796	851	804	1401	959	1264	1540	919	1228	685	1102	888	598	732
	WB - EO to Controls (lbs)	WB1(8am-8am)	820	935	981	1036	729	864	908	1105	839	892	852	786	988	953	796	684	491	718
	(conservative estimate)	WB2(8am-8am)	477	385	529	593	487	0	11	317	480	494	441	222	312	283	471	293	0	0
		TOTAL	1297	1320	1510	1629	1216	864	919	1422	1319	1386	1293	1008	1300	1236	1267	977	491	718
	Truck Traffic																			
	TOTAL		35	51	37	15	6	33	0	30	40	33	32	6	25	0	27	33	30	30
	Trucks Received		16	18	18	8	3	11	0	11	22	15	14	0	16	0	16	17	16	12
	Trucks Shipped		19	33	19	7	3	22	0	19	18	18	18	6	9	0	11	16	14	18

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6-Jan	9-Jan	12-Jan	15-Jan	17-Jan	22-Jan	24-Jan	27-Jan
				NEW			
7.59	3.81	1.57	0.672	0.517			
6.62		1.65		0.591			
ND	Invalid	ND	14.2	13.1			
	0.685		14.3				
ND	0.354	ND	0.918	1.66			
1.56	0.115	0.727	0.119	0.151			
ND	ND	0.307	ND	0.316			
ND	0.219	ND	0.107	0.144			
0.249	0.295	0.264	0.239	0.134			
0.249	Invalid	0.237	ND	ND			
Sun	Wed	Sat	Tues	Thurs	Tues	Thurs	Sun
NNE	WNW	ESE	W	WNW	SSE	W	WNW
8	15	5	12	8	15	9	10
E	NW	ESE	WSW	W	SSE	W	WSW
10	17	13	18	15	8	17	3
SE	NNW	ESE	WSW	WSW	SSE	WNW	ESE
15	15	13	10	21	5	15	13
No	No	No	No	No	No	No	No
110	0	940	764	813	787	653	888
279	370	315	318	344	298	340	286
389	370	1255	1082	1157	1085	993	1174
517	0	895	805	760	1003	859	875
487	338	468	336	128	417	426	313
1004	338	1363	1141	888	1420	1285	1188
5	32	0	31	36	30	29	2
0	15	0	17	18	19	13	0
5	17	0	14	18	11	16	2