

Willowbrook, IL Ethylene Oxide Concentrations in Outdoor Air [ug/m³] - 24 Hour Samples

Sample Start Date	Willowbrook Village Hall	Willowbrook Village Hall 2	EPA Willowbrook Warehouse	EPA Willowbrook Warehouse 2	Gower Middle School	West Neighborhood	Water Tower	Willow Pond Park	Hinsdale South High School	Gower Elementary School
11/13/2018	Invalid	-	2.37	-	-	-	-	-	-	-
11/16/2018	0.824	-	1.81	1.81	-	-	-	-	-	-
11/19/2018	6.11	6.31	6.62	-	0.155	0.125	0.246	0.105	0.253	0.164
11/23/2018	0.284	-	0.180	Invalid	0.197	0.205	0.893	0.286	Invalid	0.202
11/25/2018	4.10	-	Invalid	Invalid	0.360	0.261	Invalid	0.345	0.665	0.411
11/28/2018	1.83	-	0.248	1.14	0.656	ND	0.699	0.455	0.376	0.474
12/1/2018	1.68	1.90	0.456	-	0.140	0.804	ND	0.211	0.629	0.464
12/6/2018	5.39	-	11.7	10.5	0.605	0.254	0.389	ND	0.486	ND
12/7/2018	0.737	0.822	2.26	-	0.112	ND	0.273	0.403	ND	0.164
12/10/2018	0.300	-	0.269	0.403	ND	0.213	0.248	ND	0.213	0.138
12/13/2018	2.04	2.13	0.436	-	0.255	1.06	0.211	0.365	0.244	0.401
12/16/2018	0.871	-	2.11	2.19	0.593	0.604	0.535	0.334	0.511	0.732
12/19/2018	0.521	0.338	0.345	-	0.360	0.197	1.67	0.546	0.267	0.311
12/22/2018	0.981	-	3.09	2.57	0.522	0.235	0.441	0.116	0.376	0.360
12/26/2018	10.8	10.5	Invalid	-	ND	1.17	0.151	0.166	0.566	0.497
12/28/2018	0.672	-	1.42	1.19	0.175	ND	Invalid	ND	0.264	0.133
1/2/2019	0.251	-	0.237	0.396	ND	ND	ND	0.217	ND	0.210
1/3/2019	0.372	0.257	ND	-	ND	ND	ND	ND	0.428	0.633
1/6/2019	7.59	6.62	ND	-	ND	1.56	ND	ND	0.249	0.249
1/9/2019	3.81	-	Invalid	0.685	0.354	0.115	ND	0.219	0.295	Invalid
1/12/2019	1.57	1.65	ND	-	ND	0.727	0.307	ND	0.264	0.237
1/15/2019	0.672	-	14.2	14.3	0.918	0.119	ND	0.107	0.239	ND
1/17/2019	0.517	0.591	13.1	-	1.66	0.151	0.316	0.144	0.134	ND
1/22/2019	1.51	-	4.10	4.05	0.349	1.07	10.8	2.21	0.349	0.598
1/24/2019	0.262	0.158	0.280	-	0.077	0.060	0.082	0.114	ND	0.095
1/27/2019	19.3	-	1.11	1.26	0.155	1.65	1.75	0.813	3.29	0.293
2/1/2019	0.954	0.882	0.133	-	0.101	0.129	9.49	3.71	0.322	0.157
2/2/2019	0.383	-	0.228	0.251	0.371	0.160	7.48	1.40	0.131	0.215
2/5/2019	17.3	15.6	26.4	-	3.29	5.35	0.208	0.174	0.237	1.38
2/8/2019	0.725	-	5.04	4.30	0.439	0.275	0.233	0.213	0.347	0.202
2/11/2019	3.98	4.72	ND	-	0.114	1.32	ND	0.089	0.309	0.398
2/14/2019	0.178	-	0.745	0.609	0.286	ND	0.495	0.244	0.258	ND
2/19/2019	0.239	0.197	0.150	-	0.202	0.298	0.222	ND	0.162	ND
2/20/2019	0.260	-	0.159	0.197	ND	ND	ND	0.111	ND	0.148
2/21/2019	0.144	-	ND	ND	-	-	-	-	-	-
2/22/2019	0.123	0.217	0.121	-	-	-	-	-	-	-
2/23/2019	0.128	-	0.132	ND	0.164	0.165	0.179	0.171	0.282	Invalid
2/26/2019	0.166	ND	0.119	-	ND	0.114	0.084	ND	0.188	ND
3/1/2019	ND	-	0.103	0.144	ND	ND	0.142	0.148	0.125	0.145
3/4/2019	0.161	0.068	ND	-	ND	0.113	ND	0.108	0.122	0.124
3/7/2019	0.099	-	0.096	0.085	0.093	0.112	0.165	0.122	ND	ND
3/10/2019	Invalid	0.204	0.075	-	0.171	0.201	0.081	0.244	0.102	0.097
3/13/2019	0.204	-	0.122	0.240	0.246	0.195	0.219	0.147	0.139	0.394
3/16/2019	0.461	0.058	0.171	-	0.267	0.109	ND	0.322	0.102	0.056
3/19/2019	0.136	0.091	0.056	-	0.082	0.037	0.079	0.206	0.082	0.215
3/22/2019	0.060	-	0.117	0.206	0.068	0.197	0.075	0.177	0.224	0.181
3/25/2019	0.078	0.183	0.134	-	0.084	0.102	0.093	0.130	0.133	0.106
3/28/2019	0.114	-	0.181	0.224	0.233	0.120	0.092	0.151	0.175	0.174
3/31/2019	0.057	0.112	ND	-	0.099	0.242	0.087	0.136	0.072	0.138

Note: For quality assurance, EPA's monitoring plan calls for collocated samples to be collected for each sampling day at the Willowbrook Village Hall or the EPA Willowbrook Warehouse – the expected locations of maximum concentrations. Those data are reported in the table as Willowbrook Village Hall 2 and EPA Willowbrook Warehouse 2.

ND – non detect. Ethylene Oxide was either not present in the sample or was at a level below the level the method could detect.

Invalid -- the sample did not meet EPA's field, shipping, laboratory or other quality assurance criteria.

Trans -2- butene detected although concentration is too low to quantify.

Unscheduled samples at maximum concentration sites only.