Charles Russell Elementary School
Ashland, KY

Other Monitored Toxic Air Pollutants

Monitoring Results

Key Pollutant	Sample Screening Level	7/30/2009	8/5/2009	8/8/2009	8/11/2009	8/17/2009	8/23/2009	8/29/2009	9/4/2009	9/10/2009	9/16/2009	9/22/2009	9/28/2009	1/20/2010	1/26/2010	2/1/2010	2/7/2010	2/13/2010	2/19/2010	2/25/2010	3/3/2010	3/9/2010	3/15/2010	3/21/2010	3/27/2010	4/2/2010
1,1,2,2-Tetrachloroethane (Micrograms/cubic meter)	120	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (Micrograms/cubic meter)	440	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (Micrograms/cubic meter)	4400	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (Micrograms/cubic meter)	80	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene (Micrograms/cubic meter)	2000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane (Micrograms/cubic meter)	200	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene (Micrograms/cubic meter)	20	--	--	--	--	--	--	--	--	--	--	--	--	0.089	ND	0.243	0.022	0.022	ND	0.031	0.024	0.13	0.024	0.11	0.082	0.18
1,4-Dichlorobenzene (Micrograms/cubic meter)	10000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	0.066	ND	0.13	0.04	0.096
Acetonitrile (Micrograms/cubic meter)	600	--	--	--	--	--	--	--	--	--	--	--	--	0.168	0.13	0.168	0.12	0.067	0.13	0.099	0.15	0.247	0.12	0.383	0.15	0.438
Acrylonitrile (Micrograms/cubic meter)	200	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony (Nanograms/cubic meter)	2000	0.5	0.42	6.38	0.48	1.72	1.28	0.95	2.33	0.6	1.34	0.78	0.29													
Benzo[a]anthracene (Micrograms/cubic meter)	64	0.00028	0.00024	0.00011	0.00018	0.00011	0.00027	ND	0.0057	0.00117	0.00074	0.0001	ND													
Benzo[b]fluoranthene (Micrograms/cubic meter)	64	0.0004	0.00034	0.00023	0.0003	0.00036	0.00058	0.00006	0.0102	0.00156	0.00106	0.00015	0.00004													
Benzo[k]fluoranthene (Micrograms/cubic meter)	64	0.00012	0.00009	0.00006	0.0001	0.00009	0.00016	ND	0.00311	0.00061	0.00039	0.00004	0.00004													
Benzyl chloride (Micrograms/cubic meter)	140	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium (Nanograms/cubic meter)	20	ND	ND	ND	ND	0.03	ND	0.003	0.005	ND	0.008	0.01	ND													

Bromoform (Micrograms/cubic meter)	6400	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Micrograms/cubic meter)	200	--	--	--	--	--	--	--	--	--	--	--	--	0.039	0.039	ND	0.039	0.039	ND	0.047	0.039	0.047	0.043	0.043	0.039	0.047
Cadmium (Nanograms/cubic meter)	30	0.09	0.05	0.45	0.07	0.1	0.15	0.09	0.25	0.12	0.17	0.06	0.04													
Carbon disulfide (Micrograms/cubic meter)	7000	--	--	--	--	--	--	--	--	--	--	--	--	0.062	ND	0.031	0.031	0.031	0.02	0.041	0.02	0.081	0.053	0.19	0.044	0.13
Carbon tetrachloride (Micrograms/cubic meter)	200	--	--	--	--	--	--	--	--	--	--	--	--	0.755	0.57	0.692	0.881	0.692	0.655	0.818	0.781	0.856	0.85	0.793	0.705	0.724
Chlorobenzene (Micrograms/cubic meter)	10000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane (Micrograms/cubic meter)	40000	--	--	--	--	--	--	--	--	--	--	--	--	0.026	ND	ND	ND	ND	ND	0.02	ND	0.034	ND	0.032	ND	0.029
Chloroform (Micrograms/cubic meter)	500	--	--	--	--	--	--	--	--	--	--	--	--	0.098	0.098	0.098	0.098	0.049	0.083	0.078	ND	0.11	0.1	ND	0.11	ND
Chloromethane (Micrograms/cubic meter)	1000	--	--	--	--	--	--	--	--	--	--	--	--	1.18	1.14	1.05	1.2	1.05	1.07	1.25	1.14	1.25	1.47	1.27	1.29	1.21
Chloroprene (Micrograms/cubic meter)	200	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene (Micrograms/cubic meter)	640	0.00054	0.00032	0.00011	0.00019	0.00021	0.00056	0.00014	0.00864	0.00173	0.00137	0.00037	0.00008													
Cobalt (Nanograms/cubic meter)	100	0.01	0.006	0.2	0.007	0.12	ND	0.08	0.11	0.07	0.06	0.05	0.04													
Dichloromethane (Micrograms/cubic meter)	2000	--	--	--	--	--	--	--	--	--	--	--	--	0.31	0.31	0.417	0.556	0.31	0.466	0.3	0.487	0.417	0.31	0.57	0.29	0.41
Ethyl acrylate (Micrograms/cubic meter)	7000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene (Micrograms/cubic meter)	40000	--	--	--	--	--	--	--	--	--	--	--	--	0.17	0.13	0.39	0.13	0.087	0.15	0.096	0.061	0.36	0.11	0.29	0.13	0.556
Ethylene dibromide (Micrograms/cubic meter)	12	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene dichloride (Micrograms/cubic meter)	270	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	0.085	ND	ND	0.081	0.093	0.077	ND
Hexachlorobutadiene (Micrograms/cubic meter)	320	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese (Nanograms/cubic meter)	500	2.72	1.7	6.46	2.57	6.81	1.39	5.87	22.7	5.31	11.9	3.76	11.8													
Mercury (Nanograms/cubic meter)	3000	0.03	0.04	0.01	0.01	0.03	0.002	ND	0.003	ND	0.01	0.03	0.04													

Methyl chloroform (Micrograms/cubic meter)	10000	--	--	--	--	--	--	--	--	--	--	--	--	0.055	ND	0.055	0.055	0.055	0.06	0.071	0.066	0.082	0.066	0.076	0.066	0.071
Methyl isobutyl ketone (Micrograms/cubic meter)	30000	--	--	--	--	--	--	--	--	--	--	--	--	0.533	ND	0.12	0.12	ND	0.18	0.2	0.066	0.32	0.25	0.27	0.14	0.32
Methyl methacrylate (Micrograms/cubic meter)	7000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (Micrograms/cubic meter)	7000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene (Micrograms/cubic meter)	30	0.132	0.152	0.186	0.101	0.0432	0.249	0.0397	0.258	0.179	0.193	0.196	0.0144													
Nickel (Nanograms/cubic meter)	200	0.27	0.36	1.72	0.4	1.45	ND	0.42	0.99	1.59	1	0.51	0.22													
Selenium (Nanograms/cubic meter)	20000	0.9	1.1	1.38	0.99	1.24	0.51	1.03	1.67	0.86	2.48	1.58	0.86													
Styrene (Micrograms/cubic meter)	9000	--	--	--	--	--	--	--	--	--	--	--	--	0.13	ND	0.085	ND	ND	ND	0.072	ND	0.12	0.098	0.17	0.072	0.14
Tetrachloroethylene (Micrograms/cubic meter)	1400	--	--	--	--	--	--	--	--	--	--	--	--	0.14	ND	0.2	ND	ND	ND	0.06	0.095	0.29	0.12	0.14	0.068	0.24
Toluene (Micrograms/cubic meter)	4000	--	--	--	--	--	--	--	--	--	--	--	--	1.13	0.603	2.07	0.49	0.34	0.762	0.34	0.32	1.78	0.452	1.9	0.728	2.79
Trichloroethylene (Micrograms/cubic meter)	10000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (Micrograms/cubic meter)	1000	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	ND	ND
o-Xylene (Micrograms/cubic meter)	9000	--	--	--	--	--	--	--	--	--	--	--	--	0.22	0.087	0.434	0.087	0.043	0.13	0.074	0.048	0.36	0.1	0.32	0.13	0.652

ND = Pollutant Not Detected
— = Sample not taken or invalid

The sample screening level is a level of pollution in the air that is below what we expect to cause health problems from short-term exposures

(Results are for metals in air samples of particulate matter 10 micrograms in diameter and smaller (PM10) collected over a 24-hour period to obtain an average concentration during that day.)

NOTE: Additional volatile organic compound samples are being collected at this site. Previous samples have been invalidated due to a sampler contamination issue. Please click here for more information.