

Danversport Explosion Site

USEPA Air Quality Assessment Results for the Perimeter Northwest Summa Air Sample Location

Station Name	Comparison Value (ppb/V)*	Source***	Avg. Conc. detected for all samples collected (ppb/V)	Perimeter Northwest											
				8 Hour Summa											
Date Collected				12/3/2006	12/5/2006	12/9/2006	12/12/2006	12/15/2006	12/19/2006	12/21/2006	12/28/2006	12/30/2006	01/11/07	01/19/07	01/23/07
Analyte	Comparison Value (ppb/V)*	Source***	Avg. Conc. detected for all samples collected (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)	Conc. (ppb/V)
1,1,1-Trichloroethane	700	Int. MRL	0.051	ND	ND	0.050	ND	ND	0.38	ND	ND	ND		0.13	ND
1,2,4-Trimethylbenzene	25	ATSDR	0.134	0.16	ND	0.13	ND	0.50	0.13	ND	0.12	0.34		0.052	0.047
1,2-Dibromoethane	1.2	RfC	0.000	ND		ND	ND								
1,2-Dichloroethane	600	Chr MRL	0.000	ND		ND	ND								
1,3,5-Trimethylbenzene	25	ATSDR	0.051	0.085	ND	ND	ND	0.22	0.055	ND	0.050	0.15		ND	ND
4-Ethyltoluene	97	ATSDR	0.166	0.20	ND	0.15	ND	0.62	0.17	0.060	0.15	0.41		0.065	ND
Acetone	13,000	Int. MRL	8.345	ND	ND	ND	71	6.2	4.9	4.7	1.5	1.9		0.78	0.82
Benzene	6	Int. MRL	0.271	0.19	0.22	0.26	ND	0.33	0.32	0.27	0.25	0.37		0.44	0.33
Carbon Tetrachloride	30	Int. MRL	0.074	0.090	0.062	0.087	ND	0.083	0.10	0.071	0.061	0.072		0.089	0.098
Chlorobenzene	75	ATSDR	0.000	ND		ND	ND								
Chloroform	50	Int. MRL	0.005	0.053	ND		ND	ND							
Cyclohexane	1744	RfC	0.011	ND	0.12		ND	ND							
Dichlorodifluoromethane	10,100	RfC	0.486	0.46	0.48	0.53	ND	0.44	0.92	0.49	0.50	0.52		0.52	0.49
Ethylbenzene	1,000	Int. MRL	1.275	1.2	0.11	1.7	6.0	2.6	0.40	0.24	0.22	1.3		0.16	0.091
Heptane	1,000	ATSDR	0.468	ND	ND	ND	ND	1.1	ND	0.75	1.5	1.8		ND	ND
Hexane	600	Chr MRL	0.620	0.945	0.48	0.62	ND	0.77	0.85	0.40	0.40	0.5		1.1	0.81
Isopropyl Alcohol	200	ATSDR	3.515	ND	ND	ND	ND	9.8	3.56	2.3	13	7.8		1.4	0.8
Methyl Chloride	200	Int. MRL	0.000	ND		ND	ND								
Methyl Ethyl Ketone	1,700	RfC	7.634	1.3	ND	0.88	74	2.9	1.4	0.62	0.73	1.6		0.28	0.26
Methyl Isobutyl Ketone	731**	RfC	0.333	0.40	ND	0.38	ND	1.4	0.26	ND	0.12	1.1		ND	ND
Methylene Chloride	300	Int. MRL	0.113	0.11	ND	0.080	ND	0.21	0.088	0.40	0.076	0.11		0.11	0.061
Methyl Bromide	50	Int. MRL	0.000	ND		ND	ND								
Methyl-t-Butyl Ether	700	Int. MRL	0.000	ND		ND	ND								
Styrene	60	Chr MRL	0.030	0.073	ND	0.046	ND	0.21	ND	ND	ND	ND		ND	ND
Tetrachloroethylene	40	Chr MRL	0.032	ND	ND	ND	ND	0.22	ND	0.067	ND	0.061		ND	ND
Tetrahydrofuran	100	ATSDR	0.052	ND	ND	0.21	ND	0.36	ND	ND	ND	ND		ND	ND
Toluene	80	Chr MRL	16.527	1.8	1.1	1.5	146	8.9	5.2	2.6	3.6	9.7		0.96	0.44
Trichloroethylene	100	Int. MRL	0.000	ND		ND	ND								
Trichlorofluoromethane	8,897	RfC	0.651	0.24	0.22	0.32	ND	0.39	4.6	0.28	0.29	0.32		0.26	0.24
Trichlorotrifluoroethane	6,510	RfC	0.068	0.077	0.064	0.084	ND	0.065	0.090	0.065	0.070	0.076		0.081	0.077
Vinyl Chloride	30	Int. MRL	0.000	ND		ND	ND								
m/p-Xylene	600	Int. MRL	1.859	2.1	0.23	1.9	8.0	3.9	0.81	0.42	0.50	2.1		0.29	0.20
o-Xylene	600	Int. MRL	0.500	0.51	0.075	0.47	2.0	1.1	0.26	0.16	0.16	0.60		0.10	0.07

* All Results are reported in parts per billion/volume.

**Some individuals may detect an odor at 100 ppb. Its odor has been described as "pleasant, camphor-like". However, not all compounds are detectable by odor. The health-based comparison values used in this table have been selected to ensure that individuals (whether they detect an odor or not) will not experience adverse health effects.

*** See ATSDR Record of Activity (ROA) document.

ND - Not Detected (Not detected above its reporting limit).
 Each sampling event includes the analysis of a wide range of volatile organic compounds (VOCs). Only compounds detected above their respective reporting limits are shown in this table.
 The compounds included on this table are those which were detected by laboratory analysis.

Shaded columns indicate dates on which analytical data was not collected.