



DEEP-REM-SEH-FS-500  
REFERENCE TABLE A

Volatile Organic Substances

**Significant Environmental Hazard Condition Notification Threshold Concentrations**

	Drinking Water Well  Groundwater Protection Criteria (µg/l)	Surface Soil Contamination Direct Exposure Criteria (mg/kg)		Volatile Organic Compounds Near a Building 10 x Volatilization Criteria <sup>3</sup>			
		Residential Land Use (15 x Res. DEC)	Industrial/Commercial Land Use (30 x I/C DEC)	Groundwater (µg/l)		Soil Vapor (ppm)	
				Residential Land Use	Industrial or Commercial Land Use	Residential Land Use	Industrial or Commercial Land Use
Acetone	700	7500	note 1	note 2	note 2	24000	82500
Acrylonitrile	0.5	16.5	330	NE	NE	NE	NE
Acrolein	SEE TABLE B						
Benzene	1	315	6000	2150	5300	10	1130
Bromoform	4	1170	21600	9200	38000	15	60
2-Butanone(MEK)	400	7500	note 1	note 2	note 2	24000	82500
Carbon tetrachloride	5	70.5	1320	160	400	10	27
Chlorobenzene	100	7500	note 1	18000	61500	310	1060
Chloroform	6	1500	28200	2870	7100	45	104
Dibromochloromethane	0.5	109.5	2040	NE	NE	NE	NE
1,2-Dichlorobenzene	600	7500	note 1	305000	note 2	2400	8180
1,3-Dichlorobenzene	600	7500	note 1	242000	note 2	2400	8180
1,4-Dichlorobenzene	75	390	7200	note 2	note 2	9500	32700
1,1-Dichloroethane	70	7500	note 1	346000	note 2	8500	30370
1,2-Dichloroethane	1	100.5	1890	210	900	10	10
1,1-Dichloroethylene	7	15	285	10	60	10	10
cis-1,2-Dichloroethylene	70	7500	note 1	NE	NE	NE	NE
trans-1,2-Dichloroethylene	100	7500	note 1	NE	NE	NE	NE
1,2-Dichloropropane	5	135	2520	140	600	10	10
1,3-Dichloropropene	0.5	51	960	60	250	10	10
Ethylbenzene	700	7500	note 1	note 2	note 2	16500	56720



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		Residential Land Use (15 x Res. DEC)	Industrial/Commercial Land Use (30 x I/C DEC)	Groundwater (µg/l)		Soil Vapor (ppm)	
				Residential Land Use	Industrial or Commercial Land Use	Residential Land Use	Industrial or Commercial Land Use
Ethylene dibromide (EDB)	0.05	0.105	2.01	40	160	10	10
Methyl-tert-butyl-ether	100	7500	note 1	note 2	note 2	10000	34150
Methyl isobutyl ketone	350	7500	note 1	note 2	note 2	1400	4800
Methylene chloride	5	1230	22800	note 2	note 2	12000	28070
Styrene	100	7500	note 1	5800	20650	80	280
1,1,1,2-Tetrachloroethane	1	360	6600	120	500	10	15
1,1,2,2-Tetrachloroethane	0.5	46.5	870	230	1000	10	10
Tetrachloroethylene	5	180	3300	15000	38200	110	270
Toluene	1000	7500	note 1	235000	note 2	7600	2615
1,1,1-Trichloroethane	200	7500	note 1	204000	note 2	13100	4520
1,1,2-Trichloroethane	5	165	3000	80000	196000	400	930
Trichloroethylene	5	840	15600	2190	5400	70	160
Vinyl chloride	2	4.8	90	20	20	10	10
Xylenes	530	7500	note 1	213000	note 2	5000	17020

Refer to the Remediation Standard Regulations for source of numbers reported or used in calculation for numbers in this table.

Information in this table is provided for convenience; it is the user's responsibility to verify that the tabulated concentrations are correct. In the case of errors in this table, the threshold concentrations, according to the provisions of CGS Section 22a-6u, govern.

Notes: There are no established acute aquatic toxicity criteria for volatile organic substances in the Water Quality Standards Regulations; thus there is no applicable threshold concentration to trigger notification for a threat to surface water.

In the event that free petroleum product is entering surface waters, contact DEEP's Emergency Response and Spill Prevention Division at 860-424-3338.

Note 1 Notification to owner by TEP not required by statutory exception.

Note 2 Notification to DEEP by owner not required when underlying Remediation Standard Regulation criterion equals 50000 ppb, as in this case.

Note 3 Adopted Remediation Standard Regulation values for volatilization criteria must be used to determine the hazard notification threshold concentration per the statutory requirement.

NE No established Remediation Standard Regulation criterion to use in determining the significant environmental hazard notification threshold concentration.