

Table 6-1(b)
Tier 1 Risk Based Screening Levels for Commercial/Industrial Worker

Chemical	CAS #	Air	Surface Soil	Subsurface Soil	Soil Vapor	Groundwater	
		Indoor	Ingestion, dermal contact, and outdoor inhalation of vapors and particulates	Indoor Inhalation of Vapors	Indoor Inhalation of Vapors	Domestic Use (Ingestion, dermal contact, and inhalation of vapors)	Indoor Inhalation of Vapors
		[µg/m ³]	[mg/kg]	[mg/kg]	[µg/m ³]	[µg/L]	
VOCs							
Benzene	71-43-2	16	51	NA	NA	5	NA
Ethylbenzene	100-41-4	49	250	NA	NA	700	NA
Isopropylbenzene (Cumene)	98-82-8	1800	9900	c	NA	450	NA
Methyl tert-Butyl Ether (MTBE)	1634-04-4	470	2100		NA	140	NA
Naphthalene	91-20-3	3.6	86		NA	1.2	NA
1,2,4-Trimethylbenzene	95-63-6	260	1800	c	NA	56	NA
1,3,5-Trimethylbenzene	108-67-8	260	1500	c	NA	60	NA
Toluene	108-88-3	22000	47000	c	NA	1000	NA
Xylene, Total	1330-20-7	440	2500	c	NA	10000	NA
PAHs							
Acenaphthene	83-32-9	NA	45000		NA	530	NA
Anthracene	120-12-7	NA	230000		NA	1800	NA
Benzo(a)anthracene	56-55-3	2	210		NA	0.3	NA
Benzo (a) Pyrene	50-32-8	0.0088	21		NA	0.2	NA
Benzo(b)fluoranthene	205-99-2	2	210		NA	2.5	NA
Benzo(k)fluoranthene	207-08-9	20	2100		NA	25	NA
Chrysene	218-01-9	200	21000		NA	250	NA
Ethylene dibromide	106-93-4	0.2	1.6		NA	0.05	NA
Fluoranthene	206-44-0	NA	30000		NA	800	NA
Fluorene	86-73-7	NA	30000		NA	290	NA
Indeno (1,2,3-cd) Pyrene	193-39-5	2	210		NA	2.5	NA
1-Methylnaphthalene	90-12-0	NA	730	c	NA	11	NA
2-Methylnaphthalene	91-57-6	NA	3000		NA	36	NA
Naphthalene	91-20-3	3.6	86		NA	1.2	NA
Pyrene	129-00-0	NA	23000		NA	120	NA
Metals							
Arsenic	7440-38-2	0.029	30		NA	10	NA
Barium	7440-39-3	2.2	220000		NA	2000	NA
Beryllium	7440-41-7	0.051	2300		NA	4	NA

Cadmium (diet)	7440-43-9	0.068	100	NA	NA	NA	NA
Cadmium (water)		0.068	NA	NA	NA	5	NA
Chromium (III)	16065-83-1	NA	1800000	NA	NA	22000	NA
Chromium (VI)	18540-29-9	0.0015	63	NA	NA	0.35	NA
Chromium (total)	7440-47-3	NA	NA	NA	NA	100	NA
Lead	7439-92-1	NA	800	NA	NA	15	NA
Manganese (non-diet)	7439-96-5	0.22	26000	NA	NA	430	NA
Mercury (elemental)	7439-97-6	1.3	46	c	NA	NA	2
Selenium	7782-49-2	88	5800	NA	NA	50	NA
Silver	7440-22-4	NA	5800	NA	NA	94	NA
Chlorinated Solvents							
Hexachloroethane	67-72-1	11	80	NA	NA	3.3	NA
Pentachloroethane	76-01-7	NA	360	NA	NA	6.5	NA
1,1,1,2-Tetrachloroethane	630-20-6	17	88	NA	NA	5.7	NA
1,1,2,2-Tetrachloroethane	79-34-5	2.1	27	NA	NA	0.76	NA
1,1,2-Trichloroethane	79-00-5	7.7	50	NA	NA	5	NA
1,1,1-Trichloroethane	71-55-6	22000	36000	c	NA	NA	200
1,2-Dichloroethane	107-06-2	4.7	20	NA	NA	5	NA
1,1-Dichloroethane	75-34-3	77	160	NA	NA	28	NA
Chloroethane	75-00-3	18000	23000	c	NA	NA	8300
Perchloroethene (PCE)	127-18-4	470	1000	c	NA	NA	5
Trichloroethene (TCE)	79-01-6	30	60	NA	NA	5	NA
1,1-Dichloroethene	75-35-4	880	1000	NA	NA	7	NA
cis-1,2-Dichloroethene	156-59-2	NA	2300	NA	NA	70	NA
trans-1,2-Dichloroethene	156-60-5	180	300	NA	NA	100	NA
Vinyl chloride (VC)	75-01-4	28	17	NA	NA	2	NA
NDDEQ Specific						[mg/L]	
Ammonia	7664-41-7	NA	NA	NA	NA	5	NA
Bromide	7726-95-6	NA	NA	NA	NA	NA	NA
Chloride	16887-00-6	NA	NA	NA	NA	250	NA
Nitrate as total nitrogen	14797-55-8	NA	1900000	NA	NA	10	NA
Strontium	7440-24-6	NA	700000	NA	NA	12	NA
Total Kjeldahl Nitrogen (TKN)		NA	NA	NA	NA	10000	NA
Total Petroleum Hydrocarbons (TPH)		NA	NA	NA	NA	500	NA

Notes: NA: Not available

c: calculated RBSL shown in the table exceeded the saturated soil concentration

p: calculated soil vapor RBTL exceeded the chemical vapor pressure

Domestic water use RBSL in bold font represents maximum contaminant level (MCL)

s: calculated RBSL shown in the table exceeded the chemical solubility

Values obtained from Regional Screening Level (RSL) Summary Tables (USEPA, May 2022)