

NDRBCA Table 6-1(a)
Tier 1 Risk Based Screening Levels for Resident

Chemical	CAS #	Air	Surface Soil	Soil*	Soil Vapor	Groundwater	
		Indoor	Ingestion, dermal contact, and outdoor inhalation of vapors and particulates	Protective of Groundwater	(Sub-slab) Indoor Inhalation of Vapors	Domestic Use (Ingestion, dermal contact)	Inhalation of Vapors
		[µg/m ³]	[mg/kg]	[mg/kg]	[µg/m ³]	[µg/L]	
VOCs							
Benzene	71-43-2	3.6	11.6	0.00256	120 p	5	15.9 s
Ethylbenzene	100-41-4	11.2	57.8	0.785	374	700	34.9
Isopropylbenzene (Cumene)	98-82-8	417	1950 c	0.738	13900	451	887
Methyl tert-Butyl Ether (MTBE)	1634-04-4	108	465	0.0322	3600	143	4500
Naphthalene	91-20-3	0.826	20.1	0.00385	27.5	1.17	45.9
1,2,4-Trimethylbenzene	95-63-6	62.6	303 c	0.0808	2090	55.7	248
1,3,5-Trimethylbenzene	108-67-8	62.6	271 c	0.0866	2090	60.3	175
Toluene	108-88-3	5210	4890 c	0.692	174000	1000	19200
Xylene, Total	1330-20-7	104	576 c	9.9	3480	10000	385
PAHs							
Acenaphthene	83-32-9	NA	3590	5.49	NA	535	NA
Anthracene	120-12-7	NA	17900	58.1	NA	1770 s	NA
Benzo(a)anthracene	56-55-3	0.169	11.3	0.105	5.63	0.298	344
Benzo (a) Pyrene	50-32-8	0.00209	1.15	0.235	NA	0.2	NA
Benzo(b)fluoranthene	205-99-2	0.169	11.5	3	NA	2.51 s	NA
Benzo(k)fluoranthene	207-08-9	1.69	115	29.4	NA	25.1 s	NA
Chrysene	218-01-9	16.9	1150	90.5	NA	251 s	NA
Ethylene dibromide	106-93-4	0.0468	0.362	0.000014	1.56	0.05	1.76
Fluoranthene	206-44-0	NA	2390	89.1	NA	802 s	NA
Fluorene	86-73-7	NA	2390	5.45	NA	294	NA
Indeno (1,2,3-cd) Pyrene	193-39-5	0.169	11.5	9.78	NA	2.51 s	NA
1-Methylnaphthalene	90-12-0	0.00313	0.183	0.0000329	0.0104	0.00626	0.149
2-Methylnaphthalene	91-57-6	NA	239	0.185	NA	35.9	NA
Naphthalene	91-20-3	0.826	20.1	0.00385	27.5	1.17	45.9
Pyrene	129-00-0	NA	1790	13.2	NA	121	NA
Metals							
Arsenic	7440-38-2	0.0065	6.77	0.292	NA	10	NA
Barium	7440-39-3	0.52	15300	82.4	NA	2000	NA
Beryllium	7440-41-7	0.0117	156	3.16	NA	4	NA
Cadmium (diet)	7440-43-9	0.0104	7.14	NA	NA	NA	NA
Cadmium (water)		0.0104	NA	0.376	NA	5	NA
Chromium (III)	16065-83-1	0.0626	85100	40400000	NA	22500	NA
Chromium (VI)	18540-29-9	0.000121	3.01	0.00672	NA	0.35	NA
Chromium (total)	7440-47-3	NA	NA	180000	NA	100	NA
Lead	7439-92-1	NA	NA	13.5	NA	15	NA
Manganese (non-diet)	7439-96-5	0.052	1830	28.3	NA	434	NA
Mercury (elemental)	7439-97-6	0.313	10.9 c	0.104	10.4	2	0.889
Selenium	7782-49-2	20.9	391	0.26	NA	50	NA
Silver	7440-22-4	NA	391	0.799	NA	94.1	NA
Chlorinated Solvents							
Hexachloroethane	67-72-1	2.55	18.3	0.002	85.1	3.28	16
Pentachloroethane	76-01-7	NA	77.2	0.0031	NA	6.46	NA
1,1,1,2-Tetrachloroethane	630-20-6	3.79	19.9	0.00219	126	5.74	37.1
1,1,2,2-Tetrachloroethane	79-34-5	0.484	6.04	0.000296	16.1	0.757	32.3
1,1,2-Trichloroethane	79-00-5	0.209	1.5	0.00162	6.95	5	6.19
1,1,1-Trichloroethane	71-55-6	5210	8150 c	0.0701	174000	200	7420
1,2-Dichloroethane	107-06-2	1.08	4.64	0.00142	36	5	22.4
1,1-Dichloroethane	75-34-3	17.5	35.5	0.00782	585	27.5	76.4
Chloroethane	75-00-3	4170	5400 c	2.37	139000	8340	9190
Perchloroethene (PCE)	127-18-4	41.7	81 c	0.00227	1390	5	57.6

Trichloroethene (TCE)	79-01-6	2.09	4.12	0.00179	69.5	5	5.18	
1,1-Dichloroethene	75-35-4	209	227	0.00251	6950	7	195	
cis-1,2-Dichloroethene	156-59-2	41.7	62.6	0.0206	1390	70	250	
trans-1,2-Dichloroethene	156-60-5	41.7	69.6	0.0313	1390	100	109	
Vinyl chloride (VC)	75-01-4	1.68	0.592	0.00069	55.9	2	NA	
Per- and Polyfluorinated Substances							[ng/L]	
PFOA	335-67	NA	NA	NA	NA	4	NA	
PFOS	1763-23-1	NA	NA	NA	NA	4	NA	
PFHxS	355-46-4	NA	NA	NA	NA	10	NA	
PFNA	375-95-1	NA	NA	NA	NA	10	NA	
HFPO-DA	13252-13-6	NA	NA	NA	NA	10	NA	
Mixtures containing two or more of PFHxS, PFNA, HFPO-DA, or PFBS	NA	NA	NA	NA	NA	1 (Unitless) Hazard Index	NA	
NDDEQ Specific		[µg/m3]	[mg/kg]	[mg/kg]	[µg/m3]	[mg/L]	[mg/L]	
Ammonia	7664-41-7	521	NA	NA	17400	5	792	
Bromide	7726-95-6	NA	NA	NA	NA	NA	NA	
Chloride	16887-00-6	NA	NA	NA	NA	250 s	NA	
Nitrate as total nitrogen	14797-55-8	NA	125000	500	NA	10 s	NA	
Strontium	7440-24-6	NA	46900	420	NA	12	NA	
Total Kjeldahl Nitrogen (TKN)	NA	NA	NA	500	NA	10	NA	
Total Petroleum Hydrocarbons (TPH)	NA	NA	NA	100	NA	0.5	NA	
Notes: *: Surface and subsurface soil NA: Not available Domestic water use RBSL in bold font represents maximum contaminant level (MCL) c: calculated RBSL shown in the table exceeded the saturated soil concentration p: calculated soil vapor RBTL shown in the table exceeded the chemical vapor pressure s: calculated RBSL shown in the table exceeded the chemical solubility The above values were obtained from Regional Screening Level (RSL) Summary Tables (USEPA, May 2024)								