

RSL Exercise: RSL-Based Site-Specific Standard VI Screening Values

Note: RSLs at a 10^{-5} cancer risk are acceptable only when VI is the sole potential exposure pathway

Regulated Substance	EPA Residential Indoor Air RSLs ($\mu\text{g}/\text{m}^3$)				PA DEP IA SVs ($\mu\text{g}/\text{m}^3$)	
	Carcinogenic 10^{-6} Risk	Carcinogenic 10^{-5} Risk	Noncarcinogenic HQ = 0.1	Minimum ($10^{-5} / 0.1$)	SHS (residential)	SSS (residential)
	Petroleum Short List					
Benzene	0.36	3.6	3.1	3.1	3.1	0.31
Toluene					5,200	
Ethylbenzene					9.7	
Xylenes (total)					100	
Methyl tert-Butyl Ether (MTBE)					94	
Cumene (isopropylbenzene)					420	
Naphthalene	0.083	0.83	0.31	0.31	0.72	0.072
Trimethylbenzene, 1,2,4- (1,3,4-TMB)			0.73	0.73	7.3	0.73
Trimethylbenzene, 1,3,5-					7.3	
Dibromoethane, 1,2- (ethylene dibromide) (EDB)					0.041	
Dichloroethane, 1,2- (EDC)					0.94	
Common Chlorinated VOCs						
Tetrachloroethylene (PCE)					42	
Trichloroethylene (TCE)	0.48	4.8	0.21	0.21	2.1	0.21
Dichloroethylene, cis-1,2-					—	
Vinyl Chloride					0.79	