RISK-BASED CONCENTRATIONS (This table shows the lower of non-carcinogenic and carcinogenic RBCs and should be used for most screening purposes instead of the excel version.)

Contaminated Medium →		SOIL mg/Kg (ppm)										SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						GROUNDWATER (µg/L (ppb))					
Exposure Pathway →		Soil Ingestion, Dermal Contact, and Inhalation (RBC_{ss})										Volatilization to Outdoor Air (RBC_{so})						Vapor Intrusion into Buildings (RBC_{si})						Leaching to Groundwater (RBC_{sw})						Ingestion & Inhalation from Tapwater (RBC_{tw})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Construction Worker		Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		DC		DC		DC		DC		DC		IVS		IVS		IVS		IVS		IVS		IVS		IS		IS		IS		DS		DS		DS	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Acenaphthene	nc, v	4,700	>Csat	9,400	>Csat	61,000	>Csat	19,000	>Csat	520,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	2,200		-	>S	-	
Acrylonitrile	c, v	0.78		2.5		3.6		35		980		1.1		3.1		5.8		0.062		0.17		0.94		0.00029		0.0013		0.0017		0.043		0.19		0.24	
Aldrin	c, v	0.025		0.072		0.11		0.95		26	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.011		0.054		0.061		0.00077		0.0037		0.0041	
Anthracene	nc, v	23,000	>Csat	47,000	>Csat	310,000	>Csat	93,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Arsenic	c, nv	0.39		1.0		1.7		13		370		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		0.038		0.13		0.27	
Barium	nc, nv	15,000		31,000		190,000		60,000		-	>Max	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		7,300		15,000		29,000	
Benz[a]anthracene	c, nv	0.15		0.34		2.7		21	>Csat	590	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3.5		10		-	>Csat	0.029		0.088		0.56	
Benzene	c, v	7.3		24		34		340		9,500	>Csat	10.0		27		50		0.080		0.22		1.2		0.0093		0.042		0.053		0.39		1.7		2.2	
Benzidine	c, nv	0.00050		0.0011		0.0094		0.073		2.0		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.000077		0.00023		0.0015		0.000094		0.00028		0.0018	
Benzo[a]pyrene	c, nv	0.015		0.034		0.27		2.1		59	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.90		2.7		-	>Csat	0.0029		0.0088		0.056	
Benzo[b]fluoranthene	c, v	0.15		0.34		2.7		21	>Csat	590	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	4.0		-	>Csat	-	>Csat	0.011		0.039		0.16	
Benzo[k]fluoranthene	c, nv	1.5		3.4		27	>Csat	210	>Csat	5,900	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>Csat	-	>Csat	-	>Csat	0.29		-	>S	-	
Beryllium	c*, nv	160		310		2,000		610		17,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		73		150		290	
Bis(2-ethylhexyl)phthalate	c, nv	35		93		150	>Csat	1,200	>Csat	33,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	140		-	>Csat	-	>Csat	4.1		14		29	
Bromodichloromethane	c, v	3.0		12		15		210		5,800	>Csat	2.1		5.7		11		0.13		0.35		1.9		0.0025		0.012		0.013		0.12		0.59		0.60	
Bromoform	c, v	51		170		240		2,400	>Csat	66,000	>Csat	71		190		550		36		99		550		0.084		0.37		0.48		2.7		12		16	
Bromomethane	nc, v	46		92		710		330		9,200	>Csat	170		170		700		1.3		1.3		17		0.098		0.20		0.41		8.7		17		36	
Cadmium	c*, nv	39		78		510		150		4,300		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		18		37		73	
Carbon tetrachloride	c, v	6.7		20		31		280		7,900	>Csat	13		35		65		0.10		0.28		1.6		0.028		0.12		0.16		0.41		1.7		2.4	
Chlorobenzene	nc, v	530		1,100	>Csat	8,300	>Csat	4,300	>Csat	120,000	>Csat	-	>Csat	-	>Csat	-	>Csat	59		59		-	>Csat	6.5		13		27		91		180		380	
Chlorodibromomethane	c, v	3.3		12		16		190		5,300	>Csat	2.9		7.8		14		0.59		1.6		9.0		0.0033		0.016		0.018		0.14		0.69		0.77	
Chloroethane	c, v	160,000	>Csat	320,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-		-	>Csat	-	>Csat	-	>Csat	320		650		1,400		21,000		42,000		88,000	
Chloroform	c, v	5.1		22		25		380		11,000	>Csat	3.4		9.2		17		0.027		0.074		0.41		0.0033		0.017		0.017		0.19		0.98		0.99	
Chloromethane	nc, v	1,400	>Csat	2,900	>Csat	25,000	>Csat	25,000	>Csat	700,000	>Csat	-	>Csat	-	>Csat	-	>Csat	24		24		300		2.2		4.5		9.4		190		380		790	
Chlordane	c, v	1.6		4.2		7.0		55	>Csat	1,500	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	1.3		6.5		7.3		0.037		0.18		0.20	
Chromium (III)	nc, nv	120,000		230,000		-	>Max	460,000		-	>Max	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		55,000		110,000		220,000	
Chromium (VI)	c, nv	0.29		0.66		5.5		43		1,200		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		0.043		0.13		0.82	
Chrysene	c, v	14	>Csat	32	>Csat	250	>Csat	2,100	>Csat	57,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.16		0.66		-	
Copper	nc, nv	3,100		6,200		41,000		12,000		340,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		1,500		2,900		5,800	
Cyanide (hydrogen cyanide) *	nc, nv	47		94		610		190		5,100		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		22		44		88	
DDD (4,4'-Dichlorodiphenyldichloroethane)	c, nv	2.4		6.4		11		83		2,300	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	71		250		-	>Csat	0.24		0.82		1.7	
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, v	1.7		4.5		7.6		58		1,600		-	>Csat	-	>Max	-	>Max	-	>Csat	-	>Max	-	>Max	52		250		280		0.039		0.19		0.21	
DDT (4,4'-Dichlorodiphenyltrichloroethane)	c, nv	1.7		4.5		7.7		58		1,600	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	130		-	>Csat	-	>Csat	0.17		0.58		1.2	
Dibenz[a,h]anthracene	c, nv	0.015		0.034		0.27		2.1		59	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3.4		-	>Csat	-	>Csat	0.0029		0.0088		0.056	
Dichlorobenzene, 1,2-	nc, v	2,200	>Csat	4,400	>Csat	35,000	>Csat	19,000	>Csat	520,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	70		140		290		370		740		1,500	
Dichlorobenzene, 1,4-	c, v	13		62		63		1,200	>Csat	34,000	>Csat	7.1		19		36		1.1		3.0		17		0.081		0.43		0.41		0.42		2.3		2.2	
Dichlorobenzidine, 3,3-	c, nv	1.1		2.9		4.8		37	>Csat	1,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.028		0.097		0.20		0.13		0.44		0.91	
Dichloroethane, 1,1-	c, v	52		190		250		2,900	>Csat	81,000	>Csat	49		130		240		0.39		1.1		5.9		0.037		0.18		0.20		2.3		11		13	
Dichloroethene, 1,1-	nc, v	1,800	>Csat	3,500	>Csat	27,000	>Csat	12,000	>Csat	340,000	>Csat	-	>Csat	-	>Csat	-	>Csat	54		54		680		11		22		45		340		680		1,400	
Dichloroethene, cis-1,2-	nc, v	160		310		2,000	>Csat	620		17,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-		1.2		2.4		4.8		73		150		290	
Dichloroethene, trans-1,2-	nc, v	590		1,200		9,200	>Csat	4,500	>Csat	130,000	>Csat	2,000		2,000		-	>Csat	16		16		200		2.5		5.0		10		110		210		450	
Dichloroethylether	c, v	0.26		0.96		1.2		15		410		0.24		0.64		3.5		0.23		0.64		3.5		0.00010		0.00048		0.00054		0.011		0.055		0.062	
Dichloromethane	c, v	68		200		310		2,700	>Csat	75,000	>Csat	170		450		830		1.3		3.6		20		0.038		0.15		0.23		4.4		18		27	
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	nc, nv	610	>Csat	1,200	>Csat	7,700	>Csat	2,400	>Csat	66,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.8		9.5		19		370		730		1,500	
Dieldrin	c, v	0.029		0.080		0.13		1.0		29	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.0052		0.025		0.028		0.00081		0.0039		0.0044	
Dinitrotoluene, 2,6-	nc, nv	61		120		770	>Csat	240		6,600	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.2		8.4		17		37		73		150	
Di-n-propylnitrosamine	c, nv	0.069		0.19		0.31		2.4		66		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.0012		0.0042		0.0087		0.0081		0.028		0.058	
Dioxane, 1,4-	c, nv	5.8		15		26		200		5,500		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.0026		0.0089		0.019		0.57		2.0		4.1	
Diphenylnitrosamine	c, nv	99		270	>Csat	440	>Csat	3,400	>Csat	95,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.5		16		33		12		40		83	
EDB (1,2-dibromoethane)	c, v	0.14		0.53		0.68		8.1		230		0.13		0.35		0.65		0.0095		0.026		0.14		0.000081		0.00039		0.00044		0.0063		0.031		0.034	
EDC (1,2-dichloroethane)	c, v	3.2		12		15		180		5,000	>Csat	3.0		8.1		15		0.039		0.11		0.59		0.0014		0.0068		0.0077		0.14		0.69		0.78	
Endosulfan, (alpha-beta)	nc, v	370	>Csat	730	>Csat	4,600	>Csat	1,400	>Csat	40,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	220		440		-	
Endrin	nc, nv	18	>Csat	37	>Csat	230	>Csat	71	>Csat	2,000	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>Csat	-	>Csat	-	>Csat	11		22		44	
Ethylbenzene	c, v	30		110		140		1,600	>Csat	44,000	>Csat	31		85		160		0.82		2.2		12		0.16		0.77		0.90		1.4		6.7		7.8	
Fluoranthene	nc, v	2,300	>Csat	4,600	>Csat	29,000	>Csat	8,900	>Csat	250,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Fluorene	nc, v	3,100	>Csat	6,300	>Csat	41,000	>Csat	12,000	>Csat	340,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat	1,500		-	>S	-	
Formaldehyde	c*, nv	16,000		31,000	>Csat	200,000	>Csat	62,000	>Csat	-	>Max	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	33		66		130		7,300		15,000		29,000	

Contaminated Medium →		SOIL mg/Kg (ppm)										SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						SOIL mg/Kg (ppm)						GROUNDWATER (µg/L (ppb))					
Exposure Pathway →		Soil Ingestion, Dermal Contact, and Inhalation (RBC_{ss})										Volatilization to Outdoor Air (RBC_{so})						Vapor Intrusion into Buildings (RBC_{si})						Leaching to Groundwater (RBC_{sw})						Ingestion & Inhalation from Tapwater (RBC_{tw})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Construction Worker		Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		DC		DC		DC		DC		DC		IVS		IVS		IVS		IVS		IVS		IVS		IS		IS		IS		DS		DS		DS	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Heptachlor	c, v	0.10		0.28		0.46		3.7		100		280		760		-	>Csat	280		760		-	>Csat	1.2		5.9		6.6		0.0029		0.014		0.016	
Heptachlor Epoxide	c, nv	0.053		0.14		0.24		1.8		51		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.16		0.54		1.1		0.0062		0.022		0.045	
Hexachlorobenzene	c, v	0.26		0.84		1.2		12		330		5.3		14		79		5.3		14		79		0.13		0.65		0.73		0.0081		0.039		0.044	
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, v	0.070		0.20		0.31		2.6		71	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.0011		0.0053		0.0060		0.0021		0.010		0.011	
Hexachlorocyclohexane, gamma- (Lindane)	c, v	0.38		1.1		1.7		15		400	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.0039		0.019		0.021		0.012		0.058		0.065	
Hexachloroethane	c*, v	19		66		90		240		6,600	>Csat	150		400		-	>Csat	150		400		-	>Csat	0.51		2.4		2.7		0.94		4.5		5.1	
Indeno[1,2,3-cd]pyrene	c, nv	0.15		0.34		2.7	>Csat	21	>Csat	590	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Lead	NA, nv	400	L	400	L	800	L	800	L	800	L	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	30	L	30	L	30	L	15	L	15	L	15	
Manganese	nc, nv	1,800		3,600		23,000		7,200		200,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		880		1,800		3,500	
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	31		61		380	>Csat	120		3,300	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.24		0.48		0.95		18		37		73	
Mercury	nc, nv	23		47		310		93		2,600		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		11		22		44	
MTBE (methyl t-butyl ether)	c, v	220		720		1,000		10,000	>Csat	290,000	>Csat	300		810		1,500		4.9		13		74		0.092		0.41		0.52		12		53		67	
Naphthalene	c, v	4.6		25		23		580	>Csat	16,000	>Csat	6.5		18		99		6.5		18		99		0.087		0.47		0.44		0.14		0.78		0.72	
Nickel	c*, nv	1,500		3,100		20,000		6,100		170,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		730		1,500		2,900	
Pentachlorophenol	c, nv	0.89		2.4		3.9		31		860		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.14		0.50		1.0		0.14		0.49		1.0	
Polychlorinated biphenyls (PCBs)	c*, v	0.20		0.31		0.56		4.4	>Csat	120	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	0.11		0.55		0.62		0.005		0.024		0.027	
Propylbenzene, iso-	nc, v	3,500	>Csat	7,000	>Csat	53,000	>Csat	24,000	>Csat	670,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	680		1,400		2,800	
Pyrene	nc, v	1,700	>Csat	3,400	>Csat	21,000	>Csat	6,700	>Csat	190,000	>Csat	-		-		-		-		-		-		-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	
Silver	nc, nv	390		780		5,100		1,500		43,000		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	*		*		*		180		370		730	
Styrene	nc, v	7,900	>Csat	16,000	>Csat	120,000	>Csat	51,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	390		770		-	>Csat	1,600		3,200		6,700	
TCDD, 2,3,7,8- (Dioxin)	c, v	4.4E-06		0.000012		0.000015		0.00015		0.0042		0.017		0.046		-	>Csat	0.017		0.046		-	>Csat	3.3E-06		0.000016		0.000018		7.6E-08		3.7E-07		4.1E-07	
Tetrachloroethene (PCE)	c*, v	200	>Csat	540	>Csat	940	>Csat	1,600	>Csat	44,000	>Csat	-	>Csat	-	>Csat	-	>Csat	2.4		6.6		36		0.64		2.80		3.70		11		49		64	
Toluene	nc, v	5,800	>Csat	12,000	>Csat	77,000	>Csat	24,000	>Csat	680,000	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	140		280		-	>Csat	2,300		4,600		9,200	
Toxaphene	c, nv	0.44		1.2		2.0		15		420		-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	4.0		14		29		0.052		0.18		0.37	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	400,000	>Csat	800,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-		-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	59,000		120,000		-	
Trichloroethane, 1,1,1-	c, v	53,000	>Csat	110,000	>Csat	830,000	>Csat	430,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	-	>Csat	400		800		-	>Csat	9,100		18,000		38,000	
Trichloroethane, 1,1,2-	c *, v	3.2		6.3		25		53		1,500	>Csat	4.9		6.7		24		0.18		0.25		2.7		0.0046		0.016		0.025		0.23		0.83		1.3	
Trichloroethene	c *, v	6.4		17		46		120		3,400	>Csat	14		33		96		0.13		0.32		2.8		0.020		0.099		0.21		0.43		1.7		3.6	
Trichlorofluoromethane (Freon 11)	nc, v	7,600	>Csat	15,000	>Csat	120,000	>Csat	63,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat	190		190		-	>Csat	72		140		300		1,300		2,600		5,400	
Trichlorophenol, 2,4,6-	c*, nv	44		120		200		240		6,600	>Csat	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1.9		6.4		13		5.2		18		37	
Trimethylbenzene, 1,2,4-	nc, v	110		220		2,000	>Csat	2,000	>Csat	54,000	>Csat	230		230		1,000		82		82		1,000		16		33		68		15		29		61	
Trimethylbenzene, 1,3,5-	nc, v	780	>Csat	1,600	>Csat	10,000	>Csat	3,100	>Csat	86,000	>Csat	-		-		-		-		-		-		92		180		-	>Csat	360		730		1,500	
Vinyl chloride	c, v	0.34		0.76		3.9		30		830		5.3		6.5		89		0.043		0.053		2.2		0.00051		0.0012		0.010		0.025		0.059		0.52	
Xylenes	nc, v	1,400	>Csat	2,900	>Csat	25,000	>Csat	19,000	>Csat	540,000	>Csat	-	>Csat	-	>Csat	-	>Csat	100		100		-	>Csat	25		50		100		200		410		850	
Generic Gasoline	nc, v	1,200		2,500		20,000		9,700		>Max		5,900		5,900		69,000		94		94		>Max		31		31		130		110		110		450	
Generic Diesel/Heating Oil	nc, v	1,100		2,200		14,000		4,600		>Max		>Max		>Max		>Max		>Max		>Max		>Max		9,500		9,500		>Max		100		100		430	
Generic Mineral/Insulating Oil	nc, nv	2,800		5,700		36,000		11,000		>Max		>Max		>Max		>Max		>Max		>Max		>Max		>Max		>Max		>Max		300		300		1,300	

Contaminated Medium →		GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))		Soil Gas (µg/m³)						AIR (µg/m³)					
Exposure Pathway →		Volatilization to Outdoor Air (RBC_{wo})						Vapor Intrusion into Buildings (RBC_{wi})						GW in Excavation (RBC_{we})		Vapor Intrusion into Buildings (RBCsv)						INHALATION (RBC_{air})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Construction & Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		IVW		IVW		IVW		IVW		IVW		IVW		DS		ICA		ICA		ICA		DCA		DCA		DCA	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Acenaphthene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Acrylonitrile	c, v	1,800		4,900		9,000		560		1,500		8,500		240		7.2		20		180		0.036		0.098		0.18	
Aldrin	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	3.3		0.099		0.27		2.5		0.00050		0.0014		0.0025	
Anthracene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Arsenic	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	5,800		-	NV	-	NV	-	NV	0.00057		0.0015		0.0029	
Barium	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	2.5E+07		-	NV	-	NV	-	NV	0.52		0.52		2.2	
Benz[a]anthracene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	9.1		-	NV	-	NV	-	NV	0.0087		0.018		0.11	
Benzene	c, v	2,800		7,600		14,000		190		510		2,800		1,700		62		170		1,600		0.31		0.85		1.6	
Benzidine	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	16		-	NV	-	NV	-	NV	0.000014		0.000029		0.00018	
Benzo[a]pyrene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.53		-	NV	-	NV	-	NV	0.00087		0.0018		0.011	
Benzo[b]fluoranthene	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	1.7		3.6		-	>Pv	0.0087		0.018		0.11	
Benzo[k]fluoranthene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	0.0087		0.018		-	>Pv
Beryllium	c *, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	250,000		-	NV	-	NV	-	NV	0.0001		0.0028		0.0051	
Bis(2-ethylhexyl)phthalate	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	1.0		-	>Pv	-	>Pv
Bromodichloromethane	c, v	1,800		5,000		9,300		370		1,000		5,600		450		13		36		330		0.066		0.18		0.33	
Bromoform	c, nv	210,000		570,000		1,100,000		73,000		200,000		1,100,000		14,000		440		1,200		11,000		2.2		6.0		11	
Bromomethane	nc, v	40,000		40,000		170,000		2,800		2,800		36,000		1,200		1,000		1,000		22,000		5.2		5.2		22	
Cadmium	c*, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	57,000		-	NV	-	NV	-	NV	0.0014		0.0037		0.0068	
Carbon tetrachloride	c, v	1,100		2,900		5,400		53		140		790		1,700		81		220		2,000		0.41		1.1		2.0	
Chlorobenzene	nc, v	-	>S	-	>S	-	>S	55,000		55,000		-	>S	10,000		10,000		10,000		220,000		52		52		220	
Chlorodibromomethane	c, v	5,100		14,000		26,000		1,500		4,200		23,000		600		18		49		450		0.090		0.25		0.45	
Chloroethane	c, v	-	>S	-	>S	-	>S	2,800,000		2,800,000		-	>S	2,400,000		2,100,000		2,100,000		4.4E+07		10,000		10,000		44,000	
Chloroform	c, v	1,100		3,000		5,500		80		220		1,200		720		21		58		530		0.11		0.29		0.53	
Chloromethane	c, v	500,000		500,000		2,100,000		26,000		26,000		320,000		22,000		19,000		19,000		390,000		94		94		390	
Chordane	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	51		4.9		13		-	>Pv	0.024		0.066		0.12	
Chromium (III)	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	1.0E+15		1.0E+15		4.4E+15	
Chromium (VI)	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	8,700		-	NV	-	NV	-	NV	0.000011		0.000023		0.00015	
Chrysene	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	0.087		0.18		1.1	
Copper	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	5,000,000		-	NV	-	NV	-	NV	1.0E+15		1.0E+15		4.4E+15	
Cyanide (hydrogen cyanide) *	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	75,000		-	NV	-	NV	-	NV	0.83		0.83		3.5	
DDD (4,4'-Dichlorodiphenyltrichloroethene)	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	40		-	NV	-	NV	-	NV	0.035		0.096		0.18	
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	27		5.0		14		-	>Pv	0.025		0.068		0.13	
DDT (4,4'-Dichlorodiphenyldichloroethane)	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	15		-	NV	-	NV	-	NV	0.025		0.068		0.13	
Dibenz[a,h]anthracene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	0.21		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Dichlorobenzene, 1,2-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	37,000		42,000		42,000		880,000		210		210		880	
Dichlorobenzene, 1,4-	c, v	4,000		11,000		20,000		380		1,000		5,700		1,500		44		120		1,100		0.22		0.60		1.1	
Dichlorobenzidine, 3,3-	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	460		-	NV	-	NV	-	NV	0.0072		0.020		0.036	
Dichloroethane, 1,1-	c, v	15,000		40,000		73,000		1,100		2,900		16,000		10,000		300		830		7,700		1.5		4.1		7.7	
Dichloroethene, 1,1-	nc, v	550,000		550,000		-	>S	27,000		27,000		340,000		43,000		42,000		42,000		880,000		210		210		880	
Dichloroethene, cis-1,2-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	24,000		-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Dichloroethene, trans-1,2-	nc, v	430,000		430,000		1,800,000		28,000		28,000		350,000		14,000		13,000		13,000		260,000		63		63		260	
Dichloroethylether	c, v	4,000		11,000		25,000		1,600		4,400		25,000		51		1.5		4.0		37		0.0074		0.020		0.037	
Dichloromethane	c, v	66,000		180,000		330,000		6,500		18,000		99,000		32,000		1,000		2,800		26,000		5.2		14		26	
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	72,000		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Dieldrin	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	2.3		0.11		0.29		2.7		0.00053		0.0014		0.0027	
Dinitrotoluene, 2,6-	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	29,000		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Di-n-propylnitrosamine	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	340		-	NV	-	NV	-	NV	0.0012		0.0033		0.0061	
Dioxane, 1,4-	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	200,000		-	NV	-	NV	-	NV	0.32		0.86		1.6	
Diphenylnitrosamine	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	0.94		2.6		4.7	
EDB (1,2-dibromoethane)	c, v	190		520		960		46		130		690		28		0.81		2.2		20		0.0041		0.011		0.020	
EDC (1,2-dichloroethane)	c, v	1,900		5,100		9,500		250		690		3,800		630		19		51		470		0.094		0.26		0.47	
Endosulfan, (alpha-beta)	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Endrin	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Ethylbenzene	c, v	8,200		22,000		41,000		490		1,300		7,400		4,400		190		530		4,900		0.97		2.7		4.9	
Fluoranthene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Fluorene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Formaldehyde	c *, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1.2E+07		-	NV	-	NV	-	NV	0.19		0.51		0.94	

Contaminated Medium →		GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))		Soil Gas (µg/m³)						AIR (µg/m³)					
Exposure Pathway →		Volatilization to Outdoor Air (RBC_{wo})						Vapor Intrusion into Buildings (RBC_{wi})						GW in Excavation (RBC_{we})		Vapor Intrusion into Buildings (RBCsv)						INHALATION (RBC_{air})					
Receptor Scenario →		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Construction & Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		IVW		IVW		IVW		IVW		IVW		IVW		DS		ICA		ICA		ICA		DCA		DCA		DCA	
Contaminant of Concern	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Heptachlor	c, v	150		-	>S	-	>S	41		110		-	>S	9.3		0.37		1.0		9.4		0.0019		0.0051		0.0094	
Heptachlor Epoxide	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3.2		-	NV	-	NV	-	NV	0.00094		0.0026		0.0047	
Hexachlorobenzene	c, v	160		450		830		20		55		310		8.1		1.1		2.9		27		0.0053		0.014		0.027	
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	7.1		0.27		0.74		6.8		0.0014		0.0037		0.0068	
Hexachlorocyclohexane, gamma- (Lindane)	c, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	42		1.6		4.3		40		0.0078		0.021		0.040	
Hexachloroethane	c*, v	-	>S	-	>S	-	>S	16,000		45,000		-	>S	1,400		120		330		3,100		0.61		1.7		3.1	
Indeno[1,2,3-cd]pyrene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Lead	NA, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Manganese	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	3,000,000		-	NV	-	NV	-	NV	0.052		0.052		0.22	
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	6,600		-	NV	-	NV	-	NV	-	>Pv	-	>Pv	-	>Pv
Mercury	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	-	>S	-	NV	-	NV	-	NV	0.031		0.031		0.13	
MTBE (methyl t-butyl ether)	c, v	230,000		610,000		1,100,000		39,000		110,000		590,000		62,000		1,900		5,100		47,000		9.4		26		47	
Naphthalene	c, v	3,100		8,400		16,000		670		1,800		10,000		500		14		39		360		0.072		0.20		0.36	
Nickel	c*, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1.2E+07		-	NV	-	NV	-	NV	0.0094		0.026		0.047	
Pentachlorophenol	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	16		-	NV	-	NV	-	NV	0.48		1.3		2.4	
Polychlorinated biphenyls (PCBs)	c*, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	1.9		0.85		2.3		22		0.0033		0.009		0.017	
Propylbenzene, iso-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	83,000		83,000		1,800,000		420		420		1,800	
Pyrene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Silver	nc, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1,000,000		-	NV	-	NV	-	NV	1.0E+15		1.0E+15		4.4E+15	
Styrene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	160,000		210,000		210,000		4,400,000		1,000		1,000		4,400	
TCDD, 2,3,7,8- (Dioxin)	c, v	0.057		0.16		-	>S	0.023		0.063		-	>S	0.000016		0.000013		0.000035		0.00032		4.9E-08		1.3E-07		2.5E-07	
Tetrachloroethene (PCE)	c*, v	41,000		110,000		-	>S	2,100		5,900		32,000		5,400		1,900		5,100		47,000		9.4		26		47	
Toluene	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	210,000		1,000,000		1,000,000		2.2E+07		5,200		5,200		22,000	
Toxaphene	c, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	71		-	NV	-	NV	-	NV	0.0076		0.021		0.038	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	6,300,000		6,300,000		1.3E+08		31,000		31,000		130,000	
Trichloroethane, 1,1,1-	nc, v	-	>S	-	>S	-	>S	1,200,000		1,200,000		-	>S	1,100,000		1,000,000		1,000,000		2.2E+07		5,200		5,200		22,000	
Trichloroethane, 1,1,2-	c *, v	3,800		5,300		19,000		580		800		8,800		49		30		42		770		0.15		0.21		0.77	
Trichloroethene	c *, v	2,800		6,600		19,000		160		380		3,300		430		86		200		2,900		0.44		1.0		3.0	
Trichlorofluoromethane (Freon 11)	nc, v	590,000		590,000		-	>S	27,000		27,000		340,000		160,000		150,000		150,000		3,100,000		730		730		3,100	
Trichlorophenol, 2,4,6-	c *, nv	-	NV	-	NV	-	NV	-	NV	-	NV	-	NV	1,600		-	NV	-	NV	-	NV	0.78		2.1		4.0	
Trimethylbenzene, 1,2,4-	nc, v	-	>S	-	>S	-	>S	5,000		5,000		-	>S	1,700		1,500		1,500		31,000		7.3		7.3		31	
Trimethylbenzene, 1,3,5-	nc, v	-	>S	-	>S	-	>S	-	>S	-	>S	-	>S	23,000		-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv	-	>Pv
Vinyl chloride	c, v	400		500		6,800		18		22		910		1,200		33		41		2,800		0.17		0.20		2.8	
Xylenes	nc, v	-	>S	-	>S	-	>S	58,000		58,000		-	>S	23,000		21,000		21,000		440,000		100		100		440	
Generic Gasoline	nc, v	>S		>S		>S		22,000		22,000		>S		14,000		79,000		79,000		1,700,000		390		390		1,700	
Generic Diesel/Heating Oil	nc, v	>S		>S		>S		>S		>S		>S		>S		21,000		21,000		440,000		100		100		440	
Generic Mineral/Insulating Oil	nc, nv	>S		>S		>S		>S		>S		>S		>S		30,000		30,000		620,000		150		150		620	

NOTES:

Direct or Indirect Pathway Codes have the following meanings: DC means it is a direct contact pathway with a limiting value of Csat. IVS means it is an indirect pathway with a limiting value of Csat. DS means it is a direct contact pathway with a limiting value equal to the solubility, S. IVW means it is an indirect pathway with a limiting value equal to the solubility, S. DCA means it is a direct contact pathway with a limiting value equal to the vapor pressure, Pv.

The symbols in the "Note" columns are explained below. The references can be found in *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (DEQ, 2003)

c	This chemical is a known or suspected carcinogen. The RBCs in this row were calculated using equations for carcinogens.
c*	The RBCs in this row were calculated using equations for both carcinogens and noncarcinogens (where lower). For some scenarios the RBCs based on non-carcinogenic effects are lower than RBCs based on cancer effects for these chemicals. You should use the lower of the calculated RBCs for each exposure scenario, as shown in this table.
>Csat	This soil RBC exceeds the limit of three-phase equilibrium partitioning. Refer to "ChemData" page for the corresponding value of Csat. Soil concentrations in excess of Csat indicate that free product might be present. See Section B.2.1.4 for additional information.
L	The values for lead reported in this table are not calculated. See Section B.3.4 for the source of the lead numbers and information on applying them.
>Max	The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.
NA	Not Available.
nc	This chemical is a noncarcinogen. The RBCs in this row were calculated using equations for noncarcinogens. When carcinogenic RBCs can be calculated and the noncancer RBC is lower, (nc) is shown in the notes.
nv	This chemical is considered "nonvolatile" for purposes of the exposure calculations.
>Pv	The air concentration reported for the RBC exceeds the vapor pressure of the pure chemical. It can be assumed that this constituent cannot create an unacceptable risk by this pathway. See Section B.2.1.4 for additional information.
>S	This groundwater RBC exceeds the solubility limit. Refer to Appendix D for the corresponding value of S. Groundwater concentrations in excess of S indicate that free product may be present. See Section B.2.1.4 for additional information.
v	This chemical is classified as "volatile" for purposes of the exposure calculations in this document.
*	Leaching-to-Groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.
-	When "Show All Values" is not selected on the Main Menu, all RBC values for indirect pathways that exceed a limit (Csat, S, or Pv) are removed from the table and replaced with "-".