

Table 2 - Summary of Example Alternative Remediation Standards for Soil Based on Site-Specific Exposure Variables

Chemical	CAS	Default Values		Active Recreation			Passive Recreation			Restricted Access Area		Infrequent Access Area				
		Residential	Footnote	Nonresidential	Footnote	Sports Playing Field	Footnote	Playground	Footnote	Jogger	Hiker-Biker	Footnote	Utility Worker	Footnote	Birder	Footnote
Soil Remediation Standards for the Ingestion-Dermal Exposure Pathway (mg/kg)																
Arsenic	7440-38-2	19	Bkg ¹¹	19	Bkg ¹¹	19	Bkg ¹¹	19	Bkg ¹¹	19	Bkg ¹¹	40	ING-C	36	ING-C	
Benzene	71-43-2	3.0	ING-C	16	ING-C	6.2	ING-C	6.2	ING-C	17	ING-C	300	ING-C	260	ING-C	
Benzo(a)pyrene ¹²	50-32-8	0.51	ING-C	2.3	ING-C	1.1	ING-C	1.1	ING-C	2.5	ING-C	44	ING-C	39	ING-C	
Cadmium	7440-43-9	71	ING-N	1,100	ING-N	380	ING-N	130	ING-N	1,200	ING-N	8,300	ING-N	19,000	ING-N	
4,4'-DDT	50-29-3	1.9	ING-C	9.5	ING-C	9.7	ING-C	3.9	ING-C	10	ING-C	180	ING-C	160	ING-C	
Manganese	7439-96-5	1,900	ING-N	31,000	ING-N	10,000	ING-N	3,300	ING-N	35,000	ING-N	230,000	ING-N	540,000	ING-N	
Mercury	7439-97-6	23	ING-N	390	ING-N	130	ING-N	41	ING-N	440	ING-N	2,900	ING-N	6,700	ING-N	
Naphthalene	91-20-3	2,500	ING-N	34,000	ING-N	13,000	ING-N	4,300	ING-N	39,000	ING-N	260,000	ING-N	590,000	ING-N	
Vinyl Chloride	75-01-4	0.97	ING-C	5.0	ING-C	5.0	ING-C	2.0	ING-C	5.5	ING-C	95	ING-C	84	ING-C	
Xylenes	1330-20-7	12,000	ING-N	190,000	ING-N	63,000	ING-N	21,000	ING-N	220,000	ING-N	NA	ING-C	NA	ING-C	
Soil Remediation Standards for the Inhalation Exposure Pathway (mg/kg)																
Arsenic	7440-38-2	1,100	INH-C	5,200	INH-C	61,000	INH-C	45,000	INH-C	46,000	INH-C	99,000	INH-C	88,000	INH-C	
Benzene	71-43-2	2.2	INH-C	11	INH-C	120	INH-C	92	INH-C	93	INH-C	200	INH-C	180	INH-C	
Benzo(a)pyrene ¹²	50-32-8	3,500	INH-C	16,000	INH-C	110,000	INH-C	73,000	INH-C	150,000	INH-C	120,000	INH-C	280,000	INH-C	
Cadmium	7440-43-9	2,600	INH-C	12,000	INH-C	150,000	INH-C	110,000	INH-C	110,000	INH-C	240,000	INH-C	210,000	INH-C	
4,4'-DDT	50-29-3	NA	b	NA	b	NA	b	NA	b	NA	b	NA	b	NA	b	
Manganese	7439-96-5	87,000	INH-N	400,000	INH-N	NA	a	NA	a	NA	a	NA	a	NA	a	
Mercury	7439-97-6	520,000	INH-N	NA	a,c	NA	a,c	NA	a,c	NA	a,c	NA	a,c	NA	a,c	
Naphthalene	91-20-3	5.7	INH-C	27	INH-C	NA	a,c	NA	a,c	NA	a,c	NA	a,c	NA	a,c	
Vinyl Chloride	75-01-4	1.4	INH-C	6.4	INH-C	76	INH-C	56	INH-C	57	INH-C	120	INH-C	110	INH-C	
Xylenes	1330-20-7	NA	a,c	NA	a,c	NA	a,c	NA	a,c	NA	a,c	NA	a,c	NA	a,c	
More Restrictive Soil Remediation Standards for the Ingestion-Dermal and Inhalation Exposure Pathways (mg/kg)^d																
Arsenic	7440-38-2	19	Bkg ¹¹	19	Bkg ¹¹	19	Bkg ¹¹	19	Bkg ¹¹	19	Bkg ¹¹	40	ING-C	36	ING-C	
Benzene	71-43-2	2.2	INH-C	11	INH-C	16	ING-C	6.2	ING-C	17	ING-C	200	INH-C	180	INH-C	
Benzo(a)pyrene ¹²	50-32-8	0.51	ING-C	2.3	ING-C	2.6	ING-C	1.1	ING-C	2.5	ING-C	44	ING-C	39	ING-C	
Cadmium	7440-43-9	71	ING-N	1,100	ING-N	380	ING-N	130	ING-N	1,200	ING-N	8,300	ING-N	19,000	ING-N	
4,4'-DDT	50-29-3	1.9	ING-C	9.5	ING-C	9.7	ING-C	3.9	ING-C	10	ING-C	180	ING-C	160	ING-C	
Manganese	7439-96-5	1,900	ING-N	31,000	ING-N	10,000	ING-N	3,300	ING-N	35,000	ING-N	230,000	ING-N	540,000	ING-N	
Mercury	7439-97-6	23	ING-N	390	ING-N	130	ING-N	41	ING-N	440	ING-N	2,900	ING-N	6,700	ING-N	
Naphthalene	91-20-3	5.7	INH-C	27	INH-C	13,000	ING-N	4,300	ING-N	39,000	ING-N	260,000	ING-N	590,000	ING-N	
Vinyl Chloride	75-01-4	0.97	ING-C	5.0	ING-C	5.0	ING-C	2.0	ING-C	5.5	ING-C	95	ING-C	84	ING-C	
Xylenes	1330-20-7	12,000	ING-N	190,000	ING-N	63,000	ING-N	21,000	ING-N	220,000	ING-N	NA	ING-C	NA	ING-C	

¹¹ Calculated ARS for soil value is below the State determined background. Therefore, by policy, the value is changed to the State background value.
¹² By policy, the SRWMP does not consider mutagenic mode of action when calculating carcinogenic soil remediation standards for the ingestion-dermal and inhalation exposure pathways.