Table 4b

Calculated Tier 2** Soil RBSLs* for Direct Contact Commercial Receptor 0 - 2 feet bgs

Effects	Tier 1 Soil RBSLs, r	Calculated Tier 2 RBSLs for Surface Soil Exceedances of Tier 1 RBSLs, mg/kg												
Direct Contact			Tier 2 RBSL = Tier 1 RBSL X 10 / (number of Non-Carcinogenic Analytes >Tier 1 RBSLs)						Tier 2 F	RBSL = Tier	1 RBSL X	10 / (numbe	r of Carcin	oge
enic noge	Commercial Receptor								Analytes >Tier 1 RBSLs)					
: carcinogenic : non-carcinogenic	Chemical / Analyte /	0 - 2 feet	Number of Non-Carcinogenic Analytes >Tier 1 RBSLs						Number of Carcinogenic Analytes >Tier 1 RB					
c: caro n: nor	Compound	bgs	1	2	3	4	5	6	1	2	3	4	5	
	For Gasoline & Light Hydrocar	bons measur	ed using the M	lontana Metho	d for Volatile P	etroleum Hyd	rocarbons (V	/PH)						
С	MTBE	310							3,100	1,550	1,033	775	620	
С	Benzene	7.6							76	38	25	19	15.2	
n	Toluene	6,300	63,000	31,500	21,000	15,750	12,600	10,500						
С	Ethylbenzene	38							380	190	127	95	76	
n	Xylenes	330	3,300	1,650	1,100	825	660	550						
С	Naphthalene	13							130	65	43	33	26	
n	C9-C10 Aromatics	300	3,000	1,500	1,000	750	600	500						
n	C5-C8 Aliphatics	450	4,500	2,250	1,500	1,125	900	750						
n	C9-C12 Aliphatics	800	8,000	4,000	2,667	2,000	1,600	1,333						
	Lead Scavengers													
С	1,2-Dichloroethane (DCA)	3							30	15	10	7.5	6	
С	1,2-Dibromoethane (EDB)	0.24							2.4	1.2	0.80	0.60	0.48	
	For Diesel & Heavy Hydrocarbo	ons measured	l using Montar	na Method for	Extractable Pe	troleum Hydro	ocarbons (EP	PH)						
n	C9-C18 Aliphatics	1,600	16,000	8,000	5,333	4,000	3,200	2,667						
n	C19-C36 Aliphatics	330,000	3,300,000	1,650,000	1,100,000	825,000	660,000	550,000						
n	C11-C22 Aromatics	6,200	62,000	31,000	20,667	15,500	12,400	10,333						
n	Acenaphthene	6,000	60,000	30,000	20,000	15,000	12,000	10,000						
n	Anthracene	30,000	300,000	150,000	100,000	75,000	60,000	50,000						
С	Benz(a)anthracene	31							310	155	103	78	62	
С	Benzo(a)pyrene	3.1							31	15.5	10.3	7.8	6.2	
С	Benzo(b)fluoranthene	31							310	155	103	78	62	
С	Benzo(k)fluoranthene	310							3,100	1,550	1,033	775	620	
С	Chrysene	3,100							31,000	15,500	10,333	7,750	6,200	
С	Dibenzo(a,h)anthracene	3.1							31	15.5	10.3	7.8	6.2	
n	Fluoranthene	4,000	40,000	20,000	13,333	10,000	8,000	6,667						
n	Fluorene	4,000	40,000	20,000	13,333	10,000	8,000	6,667						
С	Indeno(1,2,3-cd)pyrene	31							310	155	103	78	62	
С	Naphthalene	13							130	65.0	43	33	26	
n	Pyrene	3,000	30,000	15,000	10,000	7,500	6,000	5,000						
С	1-Methylnaphthalene	110							1,100	550.0	367	275	220	
n	2-Methylnaphthalene	400	4,000	2,000	1,333	1,000	800	667						

*Refer to RBCA Guidance Appendix B for derivation of Risk-Based Screening Levels (RBSLs)

**Refer to RBCA Guidance Section 4.0 for details of Tier 2 Evaluation Process and calculation of Tier 2 RBSLs

mg/kg = milligrams per kilogram

bgs = below ground surface

20-Feb-2024

genic				
BSLs				
6				
0				
517				
517 12.7				
12.1				
63				
22				
5				
0.40				
52				
5.2				
52				
517				
5,167 5.2				
5.2				
52 22				
22				
 183				
183				