Appendix C

Tier 1 RBCA

MASTER TABLE OF POTENTIAL TIER 1 VALUES

MASTER TABLE
ALL POTENTIAL TIER 1 RBSLs FOR SOIL (mg/kg)
Distance to water is from the sample depth to the water table.

Chemical	Leaching 0-10 feet	Leaching 10-20 feet	Leaching >20 feet	Direct Contact Residential	Direct Contact Commercial	Direct Contact Excavation
For Gasoline and Light Hydrocarbons measured using the Massachusetts Method for Volatile Petroleum Hydrocarbons (VPH)						
C5-C8 Aliphatics	223	757	1,170	57	301	534
C9-C12 Aliphatics	11,500	38,900	60,100	144	713	1,274
C9-C10 Aromatics	136	459	710	122	891	1,171
MTBE	0.0784	0.164	0.252	42	208	8,199
Benzene	0.0379	0.101	0.156	1.2	6	243
Toluene	13.9	40.7	62.8	628	5,801	5,073
Ethylbenzene	13.3	40.1	62	6	30	1,226
Xylenes	217	679	1,050	74	319	625
Naphthalene	9.32	30.6	47.4	4	21	156
Lead Scavengers						
1,2-Dibromoethane (EDB)	0.00002	0.00004	0.0001	0.04	0.2	7
1,2-Dichloroethane (DCA)	0.01	0.03	0.04	0.5	2.0	104
For Diesel and Heavy Hydrocarbons measured using the Massachusetts Method for Extractable Petroleum Hydrocarbons (EPH)						
C9-C18 Aliphatics	51,700	174,000	269,000	216	1,169	1,947
C19-C36 Aliphatics	Considered Immobile			15,276	153,916	130,081
C11-C22 Aromatics	380	1,280	1,980	458	3,757	4,181
Acenaphthene	249	840	1300	430	4,125	3,717
Anthracene	3,740	12,600	19,500	2,150	20,627	18,583
Benz(a)anthracene	13.6	45.7	70.6	0.16	2	51
Benzo(a)pyrene	3.67	12.4	19.1	0.02	0.2	5
Benzo(b)fluoranthene	46.6	157	243	0.16	2	51
Benzo(k)fluoranthene	466	1,570	2,430	1.6	23	509
Chrysene	1,510	5,080	7,850	16	226	5,091
Dibenzo(a,h)anthracene	6.78	22.8	35.3	0.02	0.2	5
Fluoranthene	484	1,630	2,520	287	2,750	2,478
Fluorene	643	2,170	3,350	287	2,750	2,478
Indeno(1,2,3-cd)pyrene	132	443	685	0.16	2	51
Naphthalene	9.32	30.6	47.4	4	21	156
Pyrene	4,280	14,400	22,300	215	2,063	1,858