

Screening Levels and Uncertainty Factors for Further Action

Chemical	No Action Level (mg/kg)	Further Action Level (mg/kg)	Expedited Action Level (mg/kg)	Source	Uncertainty factor notes
Target Hazard/Risk	<10 ⁻⁶ /1.0	10 ⁻⁶ /1.0 to 10 ⁻⁴ /100	>10 ⁻⁴ /100	-	
TPH					
TPH (C11-C60)	1800	1800 - 180000	180000	Utah DEQ 2005*	UF= 3000 (oral RfD,)pyrene
DRO	1800	1800 - 180000	180000	Utah DEQ 2005*	UF= 3000 (oral RfD,)pyrene
ORO	1800	1800 - 180000	180000	Utah DEQ 2005*	UF= 3000 (oral RfD,)pyrene
PAHs					
<i>BaP TEQ</i>	<i>0.015</i>	<i>1.5</i>	<i>1.5</i>	<i>USEPA RSL</i>	
1-Methylnaphthalene	22	22 - 2200	2200	USEPA RSL (c)	
2-Methylnaphthlene	310	310 - 31000	31000	USEPA RSL (nc)	UF=1000
Acenaphthene	3400	3400 - 340000	340000	USEPA RSL (nc)	UF=3000
Acenaphthylene	1720	1720 - 172000	172000	CA ESL (nc)	<i>UF=3000 (fluorene)</i>
Anthracene	17000	17000 - 1700000	1700000	USEPA RSL (nc)	UF=3000
Benzo(a)anthracene	0.15	0.15 - 15	15	USEPA RSL (c)	
Benzo(a)pyrene	0.015	0.015 - 1.5	1.5	USEPA RSL (c)	
Benzo(b)fluoranthene	0.15	0.15 - 15	15	USEPA RSL (c)	
Benzo(g,h,i)perylene	1720	1720 - 172000	172000	CA ESL (nc)	<i>UF=3000 (fluoranthene)</i>
Benzo(k)fluoranthene	1.5	1.5 - 150	150	USEPA RSL (c)	
Chrysene	15	15 - 1500	1500	USEPA RSL (c)	
Dibenz(a,h)anthracene	0.015	0.015 - 1.5	1.5	USEPA RSL (c)	
Fluoranthene	2300	2300 - 230000	230000	USEPA RSL (nc)	UF=3000
Fluorene	2300	2300 - 230000	230000	USEPA RSL (nc)	UF=3000
<i>Indene</i>	<i>3.6</i>	<i>3.6 - 360</i>	<i>360</i>	<i>USEPA RSL (c)</i>	<i>naph</i>
Ideno(1,2,3-cd)pyrene	0.15	0.15 - 15	15	USEPA RSL (c)	
Naphthalene	3.6	3.6 - 360	360	USEPA RSL (c)	
Phenanthrene	1720	1720 - 172000	172000	CA ESL (nc)	<i>UF=3000 (fluorene)</i>
Pyrene	1700	1700 - 170000	170000	USEPA RSL (nc)	UF=3000
VOCs					
Acetone*	61000	61000 - 6100000	6100000	USEPA RSL (nc)	UF=1000

Benzene	1.1	1.1 - 110	110	USEPA RSL (c)	
Chloroform*	0.29	0.29 - 29	29	USEPA RSL (c)	
Methylene chloride*	11	11 - 1100	1100	USEPA RSL (c)	
Toluene	5000	5000 - 500000	500000	USEPA RSL (nc)	UF=3000
<i>m,p-Xylene</i>	590	590 - 59000	59000	USEPA RSL (nc)	UF=1000
<i>o-Xylene</i>	690	690 - 69000	69000	USEPA RSL (nc)	UF=1000
Xylenes (total)	630	630 - 63000	63000	USEPA RSL (nc)	UF=1000
<i>Tetrachloroethane</i> *	0.56	0.56 - 56	56	USEPA RSL (nc)	UF=300
SVOCs					
Benzoic acid*	240000	240000 - 24000000	24000000	USEPA RSL (nc)	UF=1
bis(2-Ethylhexyl)phthalate*	0.35	0.35 - 35	35	USEPA RSL (c)	
bis(2-Ethylhexyl)adipate*	410	410 - 41000	41000	USEPA RSL (c)	
Di-n-octylphthalate	NC	-	-	-	
4-Isopropyltoluene	NC	-	-	-	
Phenol*	18000	1800000	1800000	USEPA RSL (nc)	UF=300
*TPH Screening Level was developed assuming 100% aromatic and most conservative toxicity criteria using standard USEPA risk assessment methodology (USEPA 1991) and Utah DEQ toxicity criteria for TPH carbon ranges (Utah DEQ 2005).					
<i>Italics indicate surrogate was used for screening level (See Section 1.1 for surrogate list)</i>					
USEPA RSL = USEPA Regional Screening Level, Residential Summary Table (2011)					
CA ESL = California Environmental Screening Level, Residential Land Use (2008)					
c= carcinogenic endpoint					
nc = noncarcinogenic endpoint					