Results of the Residential Vapor-Intrusion Evaluation for SWMU 00-018(a)

Table 1
Residential Noncarcinogenic Screening of Vapor Intrusion for SWMU 00-018(a)

COPC	EPC[a] (mg/kg)	Vapor Intrusion Risk-Based Concentration[b] (mg/kg)	HQ
Acetone	0.222	1060000	0.00000021
Butanone[2-]	0.0041	1560000	0.0000000026
Dichloroethene[1,1-]	0.0016	145000	0.000000011
Isopropyltoluene[4-]	0.00874	26800[c]	0.00000033
Methylene chloride	0.00484	40200	0.00000012
Styrene	0.000484	227000	0.0000000021
Tetrachloroethene	0.000385	28900	0.000000013
Toluene	0.0133	335000	0.00000004
Trimethylbenzene[1,2,4-]	0.000245	4400	0.000000056
Xylene[1,2-]	0.00121	6690	0.00000018
Xylene[1,3-]+1,4-Xylene	0.00286	6690[d]	0.00000043
		HI	**0.000001**

[a] Maximum detected concentration.
[b] Vapor intrusion risk values generated by the Johnson and Ettinger advanced soil model.
[c] Isopropylbenzene used as a surrogate based on structural similarity.
[d] Xylene[1,4-] used as a surrogate based on structural similarity.

Table 2
Residential Carcinogenic Screening of Vapor Intrusion for SWMU 00-018(a)

COPC	EPC[a] (mg/kg)	Vapor Intrusion Risk-Based Concentration[b] (mg/kg)	Cancer Risk
Chloroform	0.000231	734	3.15E-12
Dichlorobenzene[1,4-]	0.000266	1330	2.00E-12
Ethylbenzene	0.00106	625	1.70E-11
Naphthalene	0.0305	1170	2.61E-10
		Total Excess Cancer Risk	**3E-10**

[a] Maximum detected concentration.
[b] Vapor intrusion risk values generated by the Johnson and Ettinger advanced soil model.