Missouri
Department of
Natural Resources

Table 3-1 Default Target Levels				
Chemicals of Concern	**Soil (mg/kg)**		**Groundwater (mg/L)**	
Benzene	5.61E-02	Gwp	5.00E-03	Ing
Toluene	2.98E+01	Gwp	1.00E+00	Ing
Ethyl benzene	3.99E+01	Gwp	7.00E-01	Ing
Xylenes (mixed)	1.70E+02	Inh	1.00E+01	Ing
Ethylene Dibromide (EDB)	4.73E-04	Gwp	5.00E-05	Ing
Ethylene Dichloride (EDC)	6.31E-03	Gwp	1.56E-03	Ing
Methyl-tert-butyl-ether (MTBE)	4.53E-01	Gwp	1.46E-01	Ing
Acenaphthene	2.09E+02	Gwp	1.98E-01	Ing
Anthracene	3.14E+03	DC	9.89E-01	Ing
Benzo(a)anthracene	1.84E+00	DC	9.21E-04	Ing
Benzo(a)pyrene	1.90E-01	DC	2.00E-04	Ing
Benzo(b)fluoranthene	1.84E+00	DC	9.21E-04	Ing
Benzo(k)fluoranthene	1.84E+01	DC	9.21E-03	Ing
Chrysene	1.83E+02	DC	9.21E-02	Ing
Dibenzo(a,h)anthracene	1.84E-01	DC	9.21E-05	Ing
Fluoranthene	1.19E+03	DC	6.26E-01	Ing
Fluorene	2.71E+02	Gwp	1.32E-01	Ing
Naphthalene	1.06E+00	Gwp	3.55E-03	Ing
Pyrene	7.51E+02	DC	4.69E-01	Ing
TPH-GRO	3.83E+02	Inh	1.80E+01	Ing
TPH-DRO	4.14E+03	Inh	3.43E+01	Ing
TPH-ORO	5.08E+04	DC	3.18E+01	Ing
>C6-C8 (Aliphatics)	2.51E+02	Inh	9.86E+00	Inh
>C8-C10 (Aliphatics)	5.16E+01	Inh	3.35E-01	Inh
>C10-C12 (Aliphatics)	2.56E+02	Inh	2.24E-01	Inh
>C12-C16 (Aliphatics)	1.17E+03	Inh	5.16E-02	Inh
>C16-C21 (Aliphatics)	5.02E+04	DC	3.13E+01	Ing
>C21-C35 (Aliphatics)	5.02E+04	DC	3.13E+01	Ing
>C8-C10 (Aromatics)	4.13E+01	Gwp	1.73E-01	Ing
>C10-C12 (Aromatics)	6.49E+01	Gwp	1.73E-01	Ing
>C12-C16 (Aromatics)	1.29E+02	Gwp	1.73E-01	Ing
>C16-C21 (Aromatics)	6.25E+02	DC	4.69E-01	Ing
>C21-C35 (Aromatics)	6.25E+02	DC	4.69E-01	Ing
Tertiary-amy-methyl-ether (TAME)	5.11E+00	Gwp	6.26E-01	Ing
Tertiary-butyl-alcohol (TBA)	5.63E-01	Gwp	2.86E-01	Ing
Ethyl-tert-butyl-ether (ETBE)	1.10E-01	Gwp	1.50E-02	Ing
Diisopropyl ether (DIPE)	7.96E+00	Gwp	6.77E-01	Ing
Ethanol	3.39E+00	Gwp	2.26E+00	Ing
Methanol	7.92E-01	Gwp	2.97E-01	Ing
Arsenic	4.35E+00	DC	1.00E-02	Ing
Barium	5.47E+02	Gwp	2.00E+00	Ing
Cadmium	1.88E+00	Gwp	5.00E-03	Ing
Chromium III	6.65E+04	DC	2.35E+01	Ing
Chromium VI	2.22E+01	Gwp	4.69E-02	Ing
Lead	2.60E+02	DC	1.50E-02	Ing
Selenium	4.37E+00	Gwp	7.82E-02	Ing

Notes: 3-Mar-05

DC: Direct contact pathway
Gwp: Protection of domestic groundwater use pathway (leaching)
Inh: Vapors from soil or groundwater to indoor air pathway
Derm: Dermal contact pathway
Ing: Groundwater ingestion pathway (i.e., domestic use)

Table 4-1
Soil Concentration Levels to Determine the Need for Groundwater Evaluation During Tank Closure

Chemicals	Domestic Consumption of Groundwater Pathway			
	Complete		Incomplete	
Benzene	5.61E-02		6.97E+00	
Toluene	2.98E+01		1.23E+03	*
Ethylbenzene	3.99E+01	*	5.81E+03	*
Xylenes (mixed)	6.34E+02	*	5.16E+03	*
Ethylene Dibromide (EDB)	4.73E-04		5.95E+00	
Ethylene Dichloride (EDC)	6.31E-03		3.63E+00	
Methyl-tert-butyl-ether(MTBE)	4.53E-01		1.46E+03	
Acenaphthene	2.09E+02	*	1.70E+06	*
Anthracene	4.35E+03	*	1.00E+07	*
Benzo(a)anthracene	5.46E+01	*	8.23E+06	*
Benzo(a)pyrene	3.04E+01	*	3.63E+06	*
Benzo(b)fluoranthene	1.69E+02	*	1.76E+06	*
Benzo(k)fluoranthene	1.69E+03	*	2.16E+09	*
Chrysene	5.46E+03	*	6.09E+07	*
Dibenzo(a,h)anthracene	5.21E+01		7.37E+08	*
Fluoranthene	9.97E+03	*	2.27E+08	*
Fluorene	2.71E+02	*	6.19E+06	*
Napthalene	1.06E+00	*	1.61E+03	*
Pyrene	7.34E+03	*	2.70E+08	*
TPH-GRO	1.25E+04		1.25E+04	
TPH-DRO	1.22E+05		1.22E+05	
TPH-ORO	2.94E+09		NA	
>C6 - C8 (Aliphatics)	8.30E+03	*	8.30E+03	*
>C8 - C10 (Aliphatics)	1.71E+03	*	1.71E+03	*
>C10 - C12 (Aliphatics)	8.49E+03	*	8.49E+03	*
>C12 - C16 (Aliphatics)	3.86E+04	*	3.86E+04	*
>C16 - C21 (Aliphatics)	2.94E+09	*	NA	
>C21 - C35 (Aliphatics)	2.94E+09	*	NA	
>C8 - C10 (Aromatics)	4.13E+01		2.51E+03	*
>C10 - C12 (Aromatics)	6.49E+01		1.26E+04	*
>C12 - C16 (Aromatics)	1.29E+02		6.21E+04	*
>C16 - C21 (Aromatics)	1.11E+03	*	NA	
>C21 - C35 (Aromatics)	8.79E+03	*	NA	
Tertiary-amyl-methyl-ether (TAME)	5.11E+00		NA	
Tertiary-butyl- alcohol (TBA)	5.63E-01		4.73E+03	
Ethyl-tert-butyl-ether (ETBE)	1.10E-01	*	7.28E+02	
Diisopropyl ether (DIPE)	7.96E+00	*	2.50E+03	*
Ethanol	3.39E+00	*	1.82E+05	*
Methanol	7.92E-01	*	4.97E+04	
Arsenic	6.25E+00	*	NA	
Barium	5.47E+02		NA	
Cadmium	1.88E+00		NA	
Chromium III	7.00E+05		NA	
Chromium VI	2.22E+01		NA	
Lead	NA		NA	
Selenium	4.37E+00		NA	

Notes:
All concentrations are in mg/kg.
NA: Not Available
*: Concentrations greater then effective soil saturation concentration.

Table 7-1(a)
Tier 1 Risk-Based Target Levels for Residential Land Use for Soil Type 1 (Sandy Soil)

Chemicals of Concern	Air	Surficial Soil	Subsurface Soil	Groundwater		
	Indoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	Indoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Dermal Contact	Domestic Use
	[mg/m^3-air]	[mg/kg]	[mg/kg]	[mg/L]	[mg/L]	[mg/L]
Benzene	3.09E-03	8.55E+00	2.34E-01	6.21E-01	4.61E-01	5.00E-03 m
Toluene	2.39E-01	1.04E+03 *	4.07E+01	4.15E+01	2.22E+01	1.00E+00 m
Ethylbenzene	5.97E-01	8.48E+02 *	1.90E+02 *	1.02E+02 #	6.06E+00 #	7.00E-01 m
Xylenes (mixed)	4.18E-01	2.76E+03 *	1.70E+02 *	8.14E+01 #	1.11E+02 #	1.00E+01 m
Ethylene Dibromide (EDB)	1.17E-04	1.92E-02	2.35E-01	6.29E-01	1.23E-04	5.00E-05 m
Ethylene Dichloride (EDC)	9.86E-04	7.47E+00	1.35E-01	8.97E-01	2.54E-01	1.56E-03
Methyl-tert-butyl-ether(MTBE)	2.56E-01	1.88E+02	5.61E+01	4.70E+02	7.46E+00	1.46E-01
Acenaphthene	1.25E-01	6.27E+02 *	6.70E+04 *	1.61E+03 #	1.15E+00	1.98E-01
Anthracene	6.27E-01	3.14E+03 *	3.90E+05 *	2.29E+03 #	5.83E+00 #	9.89E-01 #
Benzo(a)anthracene	2.89E-04	1.84E+00	3.27E+05 *	1.39E+02 #	4.70E-04	9.21E-04
Benzo(a)pyrene	1.47E-05	1.90E-01	1.44E+05 *	2.39E+01 #	2.52E-05	2.00E-04 m
Benzo(b)fluoranthene	2.89E-04	1.84E+00	6.98E+04 *	9.62E+00 #	2.52E-04	9.21E-04
Benzo(k)fluoranthene	2.89E-03	1.84E+01 *	8.59E+07 *	1.18E+04 #	2.52E-03 #	9.21E-03 #
Chrysene	2.89E-02	1.83E+02 *	2.41E+06 *	1.03E+03 #	4.70E-02 #	9.21E-02 #
Dibenzo(a,h)anthracene	2.89E-05	1.84E-01	2.93E+07 *	1.30E+03 #	1.39E-05	9.21E-05
Fluoranthene	8.36E-02	1.19E+03 *	9.02E+06 *	1.42E+04 #	4.17E-01 #	6.26E-01 #
Fluorene	8.36E-02	4.22E+02 *	2.46E+05 *	3.01E+03 #	1.13E+00	1.32E-01
Naphthalene	1.80E-03	7.90E+01 *	6.23E+01 *	5.40E+00 #	1.32E+00 #	3.55E-03
Pyrene	6.27E-02	7.51E+02 *	1.07E+07 *	1.73E+04 #	3.13E-01 #	4.69E-01 #
TPH-GRO	1.17E+01	2.90E+04 *	3.83E+02	2.07E+01	1.35E+02 #	1.80E+01
TPH-DRO	1.43E+00	5.60E+04 *	4.14E+03 *	1.17E+02 #	5.45E+00	3.43E+01 #
TPH-ORO	NA	5.08E+04 *	NA	NA	6.64E-01 #	3.18E+01 #
>C6 - C8 (Aliphatics)	1.10E+01	2.65E+04 *	2.51E+02 *	9.86E+00 #	1.31E+02 #	1.72E+01 #
>C8 - C10 (Aliphatics)	5.97E-01	1.65E+03 *	5.16E+01	3.35E-01	9.84E-01 #	6.77E-01 #
>C10 - C12 (Aliphatics)	5.97E-01	1.63E+03 *	2.56E+02 *	2.24E-01 #	3.69E-01 #	6.77E-01 #
>C12 - C16 (Aliphatics)	5.97E-01	2.00E+03 *	1.17E+03 *	5.16E-02 #	8.57E-02 #	1.56E+00 #
>C16 - C21 (Aliphatics)	NA	5.02E+04 *	NA	NA	1.74E-01 #	3.13E+01 #
>C21 - C35 (Aliphatics)	NA	5.02E+04 *	NA	NA	1.74E-01 #	3.13E+01 #
>C8 - C10 (Aromatics)	1.19E-01	8.48E+02 *	8.05E+01	1.05E+01	2.49E+00	1.73E-01
>C10 - C12 (Aromatics)	1.19E-01	7.32E+02 *	4.34E+02 *	3.35E+01 #	2.09E+00	1.73E-01
>C12 - C16 (Aromatics)	1.19E-01	8.64E+02 *	2.28E+03 *	8.30E+01 #	1.72E+00	1.73E-01
>C16 - C21 (Aromatics)	NA	6.25E+02 *	NA	NA	1.01E+00 #	4.69E-01
>C21 - C35 (Aromatics)	NA	6.25E+02 *	NA	NA	4.90E-01 #	4.69E-01 #
Tertiary-amyl-methyl-ether (TAME)	NA	8.34E+02	NA	NA	NA	6.26E-01
Tertiary-butyl- alcohol (TBA)	1.80E-01	1.01E+03	1.87E+02	2.41E+03	NA	2.86E-01
Ethyl-tert-butyl-ether (ETBE)	1.80E-01	2.03E+01	2.58E+01	9.90E+01	NA	1.50E-02
Diisopropyl ether (DIPE)	5.97E-01	1.17E+03	8.57E+01	2.13E+02	NA	6.77E-01
Ethanol	1.13E+00	3.24E+04 *	7.22E+03	1.21E+05	NA	2.26E+00
Methanol	1.55E-01	4.31E+03	1.98E+03	1.87E+04	NA	2.97E-01
Arsenic	5.96E-06	4.35E+00	NA	NA	NA	1.00E-02 m
Barium	2.92E-04	4.50E+03	NA	NA	NA	2.00E+00 m
Cadmium	1.42E-05	3.23E+01	NA	NA	NA	5.00E-03 m
Chromium (III)	5.97E-05	6.65E+04	NA	NA	NA	2.35E+01
Chromium (VI)	3.09E-07	9.36E+02	NA	NA	NA	4.69E-02
Lead	NA	2.60E+02	2.60E+02	NA	NA	1.50E-02
Selenium	NA	1.34E+02	NA	NA	NA	7.82E-02

Notes:
NA: Not Applicable
*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown
#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown
m: The target level is MCL.
Soil concentrations are presented on a dry weight basis.
RBTL: Risk Based Target Level

Table 7-1(b)
Tier 1 Risk-Based Target Levels for Non-Residential Land Use for Soil Type 1 (Sandy Soil)

Chemicals of Concern	Air	Surficial Soil	Subsurface Soil	Groundwater	
	Indoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	Indoor Inhalation of Vapor Emissions	Dermal Contact	Indoor Inhalation of Vapor Emissions
	[mg/m^3-air]	[mg/kg]	[mg/kg]	[mg/L]	[mg/L]
Benzene	6.57E-03	3.39E+01 *	1.23E+00	1.27E+00	3.25E+00
Toluene	7.79E-01	7.64E+03 *	3.27E+02 *	1.31E+02 #	3.33E+02 #
Ethylbenzene	1.95E+00	5.41E+03 *	1.53E+03 *	3.56E+01 #	8.20E+02 #
Xylenes (mixed)	1.36E+00	1.83E+04 *	1.37E+03 *	6.49E+02 #	6.54E+02 #
Ethylene Dibromide (EDB)	2.48E-04	5.85E-02	1.23E+00	3.38E-04	3.30E+00
Ethylene Dichloride (EDC)	2.10E-03	1.60E+01	7.10E-01	6.99E-01	4.70E+00
Methyl-tert-butyl-ether(MTBE)	5.45E-01	5.24E+02	2.94E+02	2.05E+01	2.46E+03
Acenaphthene	4.09E-01	3.98E+03 *	5.39E+05 *	6.74E+00 #	1.29E+04 #
Anthracene	2.04E+00	1.99E+04 *	3.14E+06 *	3.42E+01 #	1.84E+04 #
Benzo(a)anthracene	6.16E-04	5.50E+00	1.72E+06 *	1.30E-03	7.29E+02 #
Benzo(a)pyrene	3.13E-05	5.62E-01	7.56E+05 *	6.93E-05	1.25E+02 #
Benzo(b)fluoranthene	6.16E-04	5.50E+00	3.66E+05 *	6.93E-04	5.04E+01 #
Benzo(k)fluoranthene	6.16E-03	5.50E+01 *	4.50E+08 *	6.93E-03 #	6.18E+04 #
Chrysene	6.16E-02	5.49E+02 *	1.26E+07 *	1.30E-01 #	5.39E+03 #
Dibenzo(a,h)anthracene	6.16E-05	5.50E-01	1.54E+08 *	3.83E-05	6.83E+03 #
Fluoranthene	2.73E-01	7.81E+03 *	7.25E+07 *	2.45E+00 #	1.14E+05 #
Fluorene	2.73E-01	2.68E+03 *	1.98E+06 *	6.62E+00 #	2.42E+04 #
Naphthalene	5.86E-03	5.17E+02 *	5.01E+02 *	7.74E+00 #	4.34E+01 #
Pyrene	2.04E-01	5.35E+03 *	8.64E+07 *	1.84E+00 #	1.39E+05 #
TPH-GRO	3.82E+01	3.83E+05 *	3.08E+03 *	7.91E+02 #	1.67E+02 #
TPH-DRO	4.68E+00	3.99E+05 *	3.33E+04 *	3.20E+01 #	9.39E+02 #
TPH-ORO	NA	3.62E+05 *	NA	3.90E+00 #	NA
>C6 - C8 (Aliphatics)	3.59E+01	3.59E+05 *	2.02E+03 *	7.70E+02 #	7.93E+01 #
>C8 - C10 (Aliphatics)	1.95E+00	1.74E+04 *	4.15E+02 *	5.78E+00 #	2.70E+00 #
>C10 - C12 (Aliphatics)	1.95E+00	1.13E+04 *	2.06E+03 *	2.17E+00 #	1.80E+00 #
>C12 - C16 (Aliphatics)	1.95E+00	1.41E+04 *	9.37E+03 *	5.03E-01 #	4.15E-01 #
>C16 - C21 (Aliphatics)	NA	3.58E+05 *	NA	1.02E+00 #	NA
>C21 - C35 (Aliphatics)	NA	3.58E+05 *	NA	1.02E+00 #	NA
>C8 - C10 (Aromatics)	3.89E-01	6.52E+03 *	6.47E+02 *	1.46E+01	8.46E+01 #
>C10 - C12 (Aromatics)	3.89E-01	5.12E+03 *	3.49E+03 *	1.23E+01	2.69E+02 #
>C12 - C16 (Aromatics)	3.89E-01	6.10E+03 *	1.83E+04 *	1.01E+01 #	6.68E+02 #
>C16 - C21 (Aromatics)	NA	4.30E+03 *	NA	5.93E+00 #	NA
>C21 - C35 (Aromatics)	NA	4.30E+03 *	NA	2.88E+00 #	NA
Tertiary-amyl-methyl-ether (TAME)	NA	5.73E+03 *	NA	NA	NA
Tertiary-butyl- alcohol (TBA)	5.86E-01	6.83E+03	1.51E+03	NA	1.94E+04
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	1.40E+02	2.07E+02	NA	7.96E+02
Diisopropyl ether (DIPE)	1.95E+00	8.52E+03 *	6.89E+02	NA	1.71E+03
Ethanol	3.70E+00	2.16E+05 *	5.80E+04 *	NA	9.72E+05 #
Methanol	5.04E-01	2.94E+04	1.59E+04	NA	1.50E+05
Arsenic	1.27E-05	1.91E+01	NA	NA	NA
Barium	9.54E-04	4.79E+04	NA	NA	NA
Cadmium	3.03E-05	3.47E+02	NA	NA	NA
Chromium (III)	1.95E-04	4.16E+05	NA	NA	NA
Chromium (VI)	6.58E-07	5.56E+03	NA	NA	NA
Lead	NA	6.60E+02	6.60E+02	NA	NA
Selenium	NA	9.27E+02	NA	NA	NA

Notes:

NA: Not Applicable

*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown.

Soil concentrations are presented on a dry weight basis.

RBTL: Risk Based Target Level

Table 7-1(c)
Tier 1 Risk-Based Target Levels for Construction Worker for Soil Type 1 (Sandy Soil)

Chemicals of Concern	Air	Soil up to Depth of Construction		Groundwater			
	Outdoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact		Dermal Contact		Outdoor Inhalation of Vapor Emissions	
	[mg/m^3-air]	[mg/kg]		[mg/L]		[mg/L]	
Benzene	4.86E-02	2.08E+01	*	1.09E+01		3.73E+03	#
Toluene	3.25E+00	2.15E+03	*	3.63E+02	#	2.35E+05	#
Ethylbenzene	8.11E+00	5.32E+03	*	9.89E+01	#	5.95E+05	#
Xylenes (mixed)	5.68E+00	5.77E+03	*	1.80E+03	#	4.59E+05	#
Ethylene Dibromide (EDB)	1.62E-03	3.29E+00		2.35E-02		5.08E+02	
Ethylene Dichloride (EDC)	4.06E-02	2.43E+01		4.86E+01		6.69E+03	
Methyl-tert-butyl-ether(MTBE)	2.43E+01	1.65E+04	*	1.43E+03		5.33E+06	#
Acenaphthene	1.70E+00	9.56E+03	*	1.87E+01	#	1.28E+06	#
Anthracene	8.52E+00	4.83E+04	*	9.51E+01	#	2.94E+06	#
Benzo(a)anthracene	6.41E-02	3.81E+02	*	8.99E-02	#	1.34E+06	#
Benzo(a)pyrene	3.26E-03	3.89E+01	*	4.81E-03	#	2.29E+05	#
Benzo(b)fluoranthene	6.41E-02	3.79E+02	*	4.81E-02	#	1.10E+05	#
Benzo(k)fluoranthene	6.41E-01	3.82E+03	*	4.81E-01	#	1.13E+08	#
Chrysene	6.41E+00	3.77E+04	*	8.99E+00	#	1.14E+07	#
Dibenzo(a,h)anthracene	6.41E-03	3.82E+01		2.66E-03	#	1.24E+07	#
Fluoranthene	1.14E+00	2.10E+04	*	6.80E+00	#	8.62E+06	#
Fluorene	1.14E+00	6.97E+03	*	1.84E+01	#	1.99E+06	#
Naphthalene	2.44E-02	2.19E+02	*	2.15E+01	#	7.81E+03	#
Pyrene	8.52E-01	1.45E+04	*	5.10E+00	#	1.03E+07	#
TPH-GRO	1.59E+02	4.23E+04	*	2.20E+03	#	1.46E+05	#
TPH-DRO	1.95E+01	1.04E+06	*	8.89E+01	#	3.92E+05	#
TPH-ORO	NA	1.01E+06	*	1.08E+01	#	NA	
>C6 - C8 (Aliphatics)	1.49E+02	3.64E+04	*	2.14E+03	#	7.65E+04	#
>C8 - C10 (Aliphatics)	8.12E+00	3.81E+03	*	1.60E+01	#	2.60E+03	#
>C10 - C12 (Aliphatics)	8.12E+00	7.33E+03	*	6.02E+00	#	1.74E+03	#
>C12 - C16 (Aliphatics)	8.12E+00	1.34E+04	*	1.40E+00	#	4.01E+02	#
>C16 - C21 (Aliphatics)	NA	9.94E+05	*	2.83E+00	#	NA	
>C21 - C35 (Aliphatics)	NA	9.94E+05	*	2.83E+00	#	NA	
>C8 - C10 (Aromatics)	1.62E+00	2.11E+03	*	4.07E+01		6.72E+04	#
>C10 - C12 (Aromatics)	1.62E+00	4.00E+03	*	3.41E+01	#	1.52E+05	#
>C12 - C16 (Aromatics)	1.62E+00	7.27E+03	*	2.80E+01	#	2.38E+05	#
>C16 - C21 (Aromatics)	NA	1.19E+04	*	1.65E+01	#	NA	
>C21 - C35 (Aromatics)	NA	1.19E+04	*	7.99E+00	#	NA	
Tertiary-amyl-methyl-ether (TAME)	NA	1.59E+04	*	NA		NA	
Tertiary-butyl- alcohol (TBA)	2.44E+00	3.62E+03		NA		1.83E+06	#
Ethyl-tert-butyl-ether (ETBE)	2.44E+00	3.15E+02		NA		3.80E+05	#
Diisopropyl ether (DIPE)	8.12E+00	4.42E+03	*	NA		1.01E+06	#
Ethanol	1.54E+01	6.26E+04	*	NA		7.28E+07	#
Methanol	2.10E+00	1.16E+04		NA		1.11E+07	#
Arsenic	1.32E-03	8.54E+02		NA		NA	
Barium	3.98E-03	1.31E+05		NA		NA	
Cadmium	3.16E-03	9.65E+02		NA		NA	
Chromium (III)	8.12E-04	7.22E+05		NA		NA	
Chromium (VI)	6.53E-05	1.40E+04		NA		NA	
Lead	NA	6.60E+02		NA		NA	
Selenium	NA	2.57E+03		NA		NA	

Notes:

NA: Not Applicable

*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration.

#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown.

Soil concentrations are presented on a dry weight basis.

RBTL: Risk Based Target Level

Table 7-2(a)
Tier 1 Risk-Based Target Levels for Residential Land Use for Soil Type 2 (Silty Soil)

Chemicals of Concern	Air	Surficial Soil	Subsurface Soil	Groundwater		
	Indoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	Indoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Dermal Contact	Domestic Use
	[mg/m^3-air]	[mg/kg]	[mg/kg]	[mg/L]	[mg/L]	[mg/L]
Benzene	3.09E-03	1.11E+01	5.00E-01	1.08E+00	4.61E-01	5.00E-03 m
Toluene	2.39E-01	1.41E+03 *	8.10E+01 *	7.13E+01 #	2.22E+01	1.00E+00 m
Ethylbenzene	5.97E-01	9.02E+02 *	3.71E+02 *	1.75E+02 #	6.06E+00 #	7.00E-01 m
Xylenes (mixed)	4.18E-01	3.67E+03 *	3.31E+02 *	1.40E+02 #	1.11E+02 #	1.00E+01 m
Ethylene Dibromide (EDB)	1.17E-04	1.92E-02	5.14E-01	1.19E+00	1.23E-04	5.00E-05 m
Ethylene Dichloride (EDC)	9.86E-04	8.37E+00	3.51E-01	1.65E+00	2.54E-01	1.56E-03
Methyl-tert-butyl-ether(MTBE)	2.56E-01	1.93E+02	1.57E+02	8.76E+02	7.46E+00	1.46E-01
Acenaphthene	1.25E-01	6.30E+02 *	1.27E+05 *	3.03E+03 #	1.15E+00	1.98E-01
Anthracene	6.27E-01	3.15E+03 *	7.42E+05 *	4.29E+03 #	5.83E+00 #	9.89E-01 #
Benzo(a)anthracene	2.89E-04	1.84E+00	4.96E+05 *	2.11E+02 #	4.70E-04	9.21E-04
Benzo(a)pyrene	1.47E-05	1.90E-01	1.47E+05 *	2.44E+01 #	2.52E-05	2.00E-04 m
Benzo(b)fluoranthene	2.89E-04	1.84E+00	1.31E+05 *	1.81E+01 #	2.52E-04	9.21E-04
Benzo(k)fluoranthene	2.89E-03	1.84E+01 *	6.98E+07 *	9.58E+03 #	2.52E-03 #	9.21E-03 #
Chrysene	2.89E-02	1.83E+02 *	4.54E+06 *	1.93E+03 #	4.70E-02 #	9.21E-02 #
Dibenzo(a,h)anthracene	2.89E-05	1.84E-01	3.77E+06 *	1.67E+02 #	1.39E-05	9.21E-05
Fluoranthene	8.36E-02	1.19E+03 *	1.61E+07 *	2.55E+04 #	4.17E-01 #	6.26E-01 #
Fluorene	8.36E-02	4.23E+02 *	4.60E+05 *	5.63E+03 #	1.13E+00	1.32E-01
Naphthalene	1.80E-03	9.57E+01 *	1.19E+02 *	1.01E+01 #	1.32E+00 #	3.55E-03
Pyrene	6.27E-02	7.51E+02 *	1.83E+07 *	2.94E+04 #	3.13E-01 #	4.69E-01 #
TPH-GRO	1.17E+01	2.97E+04 *	7.16E+02	3.46E+01	1.35E+02 #	1.80E+01
TPH-DRO	1.43E+00	5.64E+04 *	7.88E+03 *	2.11E+02 #	5.45E+00	3.43E+01 #
TPH-ORO	NA	5.08E+04 *	NA	NA	6.64E-01 #	3.18E+01 #
>C6 - C8 (Aliphatics)	1.10E+01	2.65E+04 *	4.64E+02 *	1.62E+01 #	1.31E+02 #	1.72E+01 #
>C8 - C10 (Aliphatics)	5.97E-01	2.10E+03 *	9.76E+01 *	5.51E-01 #	9.84E-01 #	6.77E-01 #
>C10 - C12 (Aliphatics)	5.97E-01	1.80E+03 *	4.87E+02 *	3.67E-01 #	3.69E-01 #	6.77E-01 #
>C12 - C16 (Aliphatics)	5.97E-01	2.12E+03 *	2.22E+03 *	8.48E-02 #	8.57E-02 #	1.56E+00 #
>C16 - C21 (Aliphatics)	NA	5.02E+04 *	NA	NA	1.74E-01 #	3.13E+01 #
>C21 - C35 (Aliphatics)	NA	5.02E+04 *	NA	NA	1.74E-01 #	3.13E+01 #
>C8 - C10 (Aromatics)	1.19E-01	1.06E+03 *	1.54E+02	1.78E+01	2.49E+00	1.73E-01
>C10 - C12 (Aromatics)	1.19E-01	7.91E+02 *	8.30E+02 *	5.89E+01 #	2.09E+00	1.73E-01
>C12 - C16 (Aromatics)	1.19E-01	8.98E+02 *	4.35E+03 *	1.51E+02 #	1.72E+00	1.73E-01
>C16 - C21 (Aromatics)	NA	6.25E+02 *	NA	NA	1.01E+00 #	4.69E-01
>C21 - C35 (Aromatics)	NA	6.25E+02 *	NA	NA	4.90E-01 #	4.69E-01 #
Tertiary-amyl-methyl-ether (TAME)	NA	8.34E+02	NA	NA	NA	6.26E-01
Tertiary-butyl- alcohol (TBA)	1.80E-01	1.27E+03	6.22E+02	4.54E+03	NA	2.86E-01
Ethyl-tert-butyl-ether (ETBE)	1.80E-01	2.05E+01	5.87E+01	1.77E+02	NA	1.50E-02
Diisopropyl ether (DIPE)	5.97E-01	1.36E+03	1.83E+02	3.74E+02	NA	6.77E-01
Ethanol	1.13E+00	5.84E+04 *	2.54E+04	2.14E+05	NA	2.26E+00
Methanol	1.55E-01	5.78E+03	5.25E+03	3.18E+04	NA	2.97E-01
Arsenic	5.96E-06	4.35E+00	NA	NA	NA	1.00E-02 m
Barium	2.92E-04	4.50E+03	NA	NA	NA	2.00E+00 m
Cadmium	1.42E-05	3.23E+01	NA	NA	NA	5.00E-03 m
Chromium (III)	5.97E-05	6.65E+04	NA	NA	NA	2.35E+01
Chromium (VI)	3.09E-07	9.36E+02	NA	NA	NA	4.69E-02
Lead	NA	2.60E+02	2.60E+02	NA	NA	1.50E-02
Selenium	NA	1.34E+02	NA	NA	NA	7.82E-02

Notes:
NA: Not Applicable
*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown
#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown
m: The target level is MCL.
Soil concentrations are presented on a dry weight basis.
RBTL: Risk Based Target Level

Table 7-2(b)
Tier 1 Risk-Based Target Levels for Non-Residential Land Use for Soil Type 2 (Silty Soil)

Chemicals of Concern	Air	Surficial Soil	Subsurface Soil	Groundwater	
	Indoor [mg/m^3-air]	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact [mg/kg]	Indoor Inhalation of Vapor Emissions [mg/kg]	Dermal Contact [mg/L]	Indoor Inhalation of Vapor Emissions [mg/L]
Benzene	6.57E-03	3.39E+01 *	2.62E+00	1.27E+00	5.65E+00
Toluene	7.79E-01	9.74E+03 *	6.51E+02 *	1.31E+02 #	5.73E+02 #
Ethylbenzene	1.95E+00	5.74E+03 *	2.98E+03 *	3.56E+01 #	1.40E+03 #
Xylenes (mixed)	1.36E+00	2.42E+04 *	2.66E+03 *	6.49E+02 #	1.13E+03 #
Ethylene Dibromide (EDB)	2.48E-04	5.86E-02	2.69E+00	3.38E-04	6.21E+00
Ethylene Dichloride (EDC)	2.10E-03	1.96E+01	1.84E+00	6.99E-01	8.62E+00
Methyl-tert-butyl-ether(MTBE)	5.45E-01	5.43E+02	8.25E+02	2.05E+01	4.59E+03
Acenaphthene	4.09E-01	4.00E+03 *	1.02E+06 *	6.74E+00 #	2.44E+04 #
Anthracene	2.04E+00	2.00E+04 *	5.96E+06 *	3.42E+01 #	3.45E+04 #
Benzo(a)anthracene	6.16E-04	5.50E+00	2.60E+06 *	1.30E-03	1.10E+03 #
Benzo(a)pyrene	3.13E-05	5.62E-01	7.72E+05 *	6.93E-05	1.28E+02 #
Benzo(b)fluoranthene	6.16E-04	5.50E+00	6.89E+05 *	6.93E-04	9.48E+01 #
Benzo(k)fluoranthene	6.16E-03	5.50E+01 *	3.66E+08 *	6.93E-03 #	5.02E+04 #
Chrysene	6.16E-02	5.49E+02 *	2.38E+07 *	1.30E-01 #	1.01E+04 #
Dibenzo(a,h)anthracene	6.16E-05	5.50E-01	1.97E+07 *	3.83E-05	8.77E+02 #
Fluoranthene	2.73E-01	7.82E+03 *	1.30E+08 *	2.45E+00 #	2.05E+05 #
Fluorene	2.73E-01	2.68E+03 *	3.70E+06 *	6.62E+00 #	4.53E+04 #
Naphthalene	5.86E-03	6.23E+02 *	9.58E+02 *	7.74E+00 #	8.11E+01 #
Pyrene	2.04E-01	5.36E+03 *	1.47E+08 *	1.84E+00 #	2.37E+05 #
TPH-GRO	3.82E+01	3.85E+05 *	5.76E+03 *	7.91E+02 #	2.78E+02 #
TPH-DRO	4.68E+00	4.01E+05 *	6.34E+04 *	3.20E+01 #	1.69E+03 #
TPH-ORO	NA	3.62E+05 *	NA	3.90E+00 #	NA
>C6 - C8 (Aliphatics)	3.59E+01	3.59E+05 *	3.73E+03 *	7.70E+02 #	1.30E+02 #
>C8 - C10 (Aliphatics)	1.95E+00	1.74E+04 *	7.85E+02 *	5.78E+00 #	4.43E+00 #
>C10 - C12 (Aliphatics)	1.95E+00	1.26E+04 *	3.92E+03 *	2.17E+00 #	2.95E+00 #
>C12 - C16 (Aliphatics)	1.95E+00	1.50E+04 *	1.78E+04 *	5.03E-01 #	6.82E-01 #
>C16 - C21 (Aliphatics)	NA	3.58E+05 *	NA	1.02E+00 #	NA
>C21 - C35 (Aliphatics)	NA	3.58E+05 *	NA	1.02E+00 #	NA
>C8 - C10 (Aromatics)	3.89E-01	8.50E+03 *	1.24E+03 *	1.46E+01	1.43E+02 #
>C10 - C12 (Aromatics)	3.89E-01	5.56E+03 *	6.67E+03 *	1.23E+01	4.74E+02 #
>C12 - C16 (Aromatics)	3.89E-01	6.36E+03 *	3.50E+04 *	1.01E+01 #	1.22E+03 #
>C16 - C21 (Aromatics)	NA	4.30E+03 *	NA	5.93E+00 #	NA
>C21 - C35 (Aromatics)	NA	4.30E+03 *	NA	2.88E+00 #	NA
Tertiary-amyl-methyl-ether (TAME)	NA	5.73E+03 *	NA	NA	NA
Tertiary-butyl- alcohol (TBA)	5.86E-01	8.67E+03	5.00E+03	NA	3.65E+04
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	1.41E+02	4.72E+02	NA	1.42E+03
Diisopropyl ether (DIPE)	1.95E+00	9.26E+03 *	1.47E+03 *	NA	3.00E+03 #
Ethanol	3.70E+00	3.90E+05 *	2.04E+05 *	NA	1.72E+06 #
Methanol	5.04E-01	3.97E+04	4.22E+04	NA	2.56E+05
Arsenic	1.27E-05	1.91E+01	NA	NA	NA
Barium	9.54E-04	4.79E+04	NA	NA	NA
Cadmium	3.03E-05	3.47E+02	NA	NA	NA
Chromium (III)	1.95E-04	4.16E+05	NA	NA	NA
Chromium (VI)	6.58E-07	5.56E+03	NA	NA	NA
Lead	NA	6.60E+02	6.60E+02	NA	NA
Selenium	NA	9.27E+02	NA	NA	NA

Notes:
NA: Not Applicable
*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.
#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown.
Soil concentrations are presented on a dry weight basis.
RBTL: Risk Based Target Level

Table 7-2(c)
Tier 1 Risk-Based Target Levels for Construction Worker for Soil Type 2 (Silty Soil)

Chemicals of Concern	Air	Soil up to Depth of Construction		Groundwater			
	Outdoor [mg/m^3-air]	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact [mg/kg]		Dermal Contact [mg/L]		Outdoor Inhalation of Vapor Emissions [mg/L]	
Benzene	4.86E-02	2.99E+01	*	1.09E+01		3.46E+03	#
Toluene	3.25E+00	3.02E+03	*	3.63E+02	#	2.15E+05	#
Ethylbenzene	8.11E+00	6.68E+03	*	9.89E+01	#	5.43E+05	#
Xylenes (mixed)	5.68E+00	8.01E+03	*	1.80E+03	#	4.20E+05	#
Ethylene Dibromide (EDB)	1.62E-03	3.91E+00		2.35E-02		8.17E+02	
Ethylene Dichloride (EDC)	4.06E-02	3.91E+01		4.86E+01		7.12E+03	
Methyl-tert-butyl-ether(MTBE)	2.43E+01	2.56E+04	*	1.43E+03		6.39E+06	#
Acenaphthene	1.70E+00	9.97E+03	*	1.87E+01	#	2.06E+06	#
Anthracene	8.52E+00	5.03E+04	*	9.51E+01	#	3.83E+06	#
Benzo(a)anthracene	6.41E-02	3.81E+02	*	8.99E-02	#	2.02E+06	#
Benzo(a)pyrene	3.26E-03	3.89E+01	*	4.81E-03	#	2.33E+05	#
Benzo(b)fluoranthene	6.41E-02	3.80E+02	*	4.81E-02	#	1.87E+05	#
Benzo(k)fluoranthene	6.41E-01	3.82E+03	*	4.81E-01	#	9.16E+07	#
Chrysene	6.41E+00	3.78E+04	*	8.99E+00	#	1.97E+07	#
Dibenzo(a,h)anthracene	6.41E-03	3.82E+01		2.66E-03	#	1.60E+06	#
Fluoranthene	1.14E+00	2.12E+04	*	6.80E+00	#	1.51E+07	#
Fluorene	1.14E+00	7.11E+03	*	1.84E+01	#	3.48E+06	#
Naphthalene	2.44E-02	2.96E+02	*	2.15E+01	#	9.74E+03	#
Pyrene	8.52E-01	1.46E+04	*	5.10E+00	#	1.74E+07	#
TPH-GRO	1.59E+02	5.76E+04	*	2.20E+03	#	1.31E+05	#
TPH-DRO	1.95E+01	1.05E+06	*	8.89E+01	#	3.90E+05	#
TPH-ORO	NA	1.01E+06	*	1.08E+01	#	NA	
>C6 - C8 (Aliphatics)	1.49E+02	4.95E+04	*	2.14E+03	#	6.77E+04	#
>C8 - C10 (Aliphatics)	8.12E+00	5.21E+03	*	1.60E+01	#	2.30E+03	#
>C10 - C12 (Aliphatics)	8.12E+00	9.57E+03	*	6.02E+00	#	1.54E+03	#
>C12 - C16 (Aliphatics)	8.12E+00	1.68E+04	*	1.40E+00	#	3.55E+02	#
>C16 - C21 (Aliphatics)	NA	9.94E+05	*	2.83E+00	#	NA	
>C21 - C35 (Aliphatics)	NA	9.94E+05	*	2.83E+00	#	NA	
>C8 - C10 (Aromatics)	1.62E+00	2.90E+03	*	4.07E+01		6.07E+04	#
>C10 - C12 (Aromatics)	1.62E+00	5.13E+03	*	3.41E+01	#	1.44E+05	#
>C12 - C16 (Aromatics)	1.62E+00	8.81E+03	*	2.80E+01	#	2.44E+05	#
>C16 - C21 (Aromatics)	NA	1.19E+04	*	1.65E+01	#	NA	
>C21 - C35 (Aromatics)	NA	1.19E+04	*	7.99E+00	#	NA	
Tertiary-amyl-methyl-ether (TAME)	NA	1.59E+04	*	NA		NA	
Tertiary-butyl- alcohol (TBA)	2.44E+00	6.10E+03		NA		3.00E+06	#
Ethyl-tert-butyl-ether (ETBE)	2.44E+00	3.39E+02		NA		3.69E+05	#
Diisopropyl ether (DIPE)	8.12E+00	6.14E+03	*	NA		9.45E+05	#
Ethanol	1.54E+01	1.17E+05	*	NA		1.27E+08	#
Methanol	2.10E+00	1.83E+04		NA		1.88E+07	#
Arsenic	1.32E-03	8.54E+02		NA		NA	
Barium	3.98E-03	1.31E+05		NA		NA	
Cadmium	3.16E-03	9.65E+02		NA		NA	
Chromium (III)	8.12E-04	7.22E+05		NA		NA	
Chromium (VI)	6.53E-05	1.40E+04		NA		NA	
Lead	NA	6.60E+02		NA		NA	
Selenium	NA	2.57E+03		NA		NA	

Notes:

NA: Not Applicable

*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration.

#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown.

Soil concentrations are presented on a dry weight basis.

RBTL: Risk Based Target Level

Table 7-3(a)
Tier 1 Risk-Based Target Levels for Residential Land Use for Soil Type 3 (Clayey Soil)

Chemicals of Concern	Air	Surficial Soil	Subsurface Soil	Groundwater		
	Indoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	Indoor Inhalation of Vapor Emissions	Indoor Inhalation of Vapor Emissions	Dermal Contact	Domestic Use
	[mg/m^3-air]	[mg/kg]	[mg/kg]	[mg/L]	[mg/L]	[mg/L]
Benzene	3.09E-03	1.33E+01	8.88E-01	1.78E+00	4.61E-01	5.00E-03 m
Toluene	2.39E-01	1.77E+03 *	1.40E+02 *	1.17E+02 #	2.22E+01	1.00E+00 m
Ethylbenzene	5.97E-01	9.38E+02 *	6.37E+02 *	2.87E+02 #	6.06E+00 #	7.00E-01 m
Xylenes (mixed)	4.18E-01	4.57E+03 *	5.69E+02 *	2.31E+02 #	1.11E+02 #	1.00E+01 m
Ethylene Dibromide (EDB)	1.17E-04	1.92E-02	9.14E-01	1.99E+00	1.23E-04	5.00E-05 m
Ethylene Dichloride (EDC)	9.86E-04	9.81E+00	6.67E-01	2.77E+00	2.54E-01	1.56E-03
Methyl-tert-butyl-ether(MTBE)	2.56E-01	1.95E+02	3.05E+02	1.48E+03	7.46E+00	1.46E-01
Acenaphthene	1.25E-01	6.32E+02 *	2.14E+05 *	5.09E+03 #	1.15E+00	1.98E-01
Anthracene	6.27E-01	3.16E+03 *	1.26E+06 *	7.25E+03 #	5.83E+00 #	9.89E-01 #
Benzo(a)anthracene	2.89E-04	1.84E+00	5.54E+05 *	2.35E+02 #	4.70E-04	9.21E-04
Benzo(a)pyrene	1.47E-05	1.90E-01	1.14E+05 *	1.89E+01 #	2.52E-05	2.00E-04 m
Benzo(b)fluoranthene	2.89E-04	1.84E+00	2.18E+05 *	3.00E+01 #	2.52E-04	9.21E-04
Benzo(k)fluoranthene	2.89E-03	1.84E+01 *	4.78E+07 *	6.57E+03 #	2.52E-03 #	9.21E-03 #
Chrysene	2.89E-02	1.84E+02 *	7.49E+06 *	3.18E+03 #	4.70E-02 #	9.21E-02 #
Dibenzo(a,h)anthracene	2.89E-05	1.84E-01	1.88E+06 *	8.35E+01 #	1.39E-05	9.21E-05
Fluoranthene	8.36E-02	1.19E+03 *	2.38E+07 *	3.76E+04 #	4.17E-01 #	6.26E-01 #
Fluorene	8.36E-02	4.24E+02 *	7.53E+05 *	9.21E+03 #	1.13E+00	1.32E-01
Naphthalene	1.80E-03	1.10E+02 *	2.03E+02 *	1.71E+01 #	1.32E+00 #	3.55E-03
Pyrene	6.27E-02	7.51E+02 *	2.45E+07 *	3.94E+04 #	3.13E-01 #	4.69E-01 #
TPH-GRO	1.17E+01	3.54E+04 *	1.19E+03 *	5.64E+01	1.35E+02 #	1.80E+01
TPH-DRO	1.43E+00	5.67E+04 *	1.34E+04 *	3.53E+02 #	5.45E+00	3.43E+01 #
TPH-ORO	NA	5.08E+04 *	NA	NA	6.64E-01 #	3.18E+01 #
>C6 - C8 (Aliphatics)	1.10E+01	3.16E+04 *	7.60E+02 *	2.63E+01 #	1.31E+02 #	1.72E+01 #
>C8 - C10 (Aliphatics)	5.97E-01	2.53E+03 *	1.65E+02 *	8.93E-01 #	9.84E-01 #	6.77E-01 #
>C10 - C12 (Aliphatics)	5.97E-01	1.93E+03 *	8.29E+02 *	5.95E-01 #	3.69E-01 #	6.77E-01 #
>C12 - C16 (Aliphatics)	5.97E-01	2.20E+03 *	3.78E+03 *	1.37E-01 #	8.57E-02 #	1.56E+00 #
>C16 - C21 (Aliphatics)	NA	5.02E+04 *	NA	NA	1.74E-01 #	3.13E+01 #
>C21 - C35 (Aliphatics)	NA	5.02E+04 *	NA	NA	1.74E-01 #	3.13E+01 #
>C8 - C10 (Aromatics)	1.19E-01	1.26E+03 *	2.63E+02	2.92E+01	2.49E+00	1.73E-01
>C10 - C12 (Aromatics)	1.19E-01	8.32E+02 *	1.42E+03 *	9.79E+01 #	2.09E+00	1.73E-01
>C12 - C16 (Aromatics)	1.19E-01	9.21E+02 *	7.42E+03 *	2.54E+02 #	1.72E+00	1.73E-01
>C16 - C21 (Aromatics)	NA	6.25E+02 *	NA	NA	1.01E+00 #	4.69E-01
>C21 - C35 (Aromatics)	NA	6.25E+02 *	NA	NA	4.90E-01 #	4.69E-01 #
Tertiary-amyl-methyl-ether (TAME)	NA	8.34E+02	NA	NA	NA	6.26E-01
Tertiary-butyl- alcohol (TBA)	1.80E-01	1.41E+03	1.24E+03	7.59E+03	NA	2.86E-01
Ethyl-tert-butyl-ether (ETBE)	1.80E-01	2.06E+01	1.07E+02	2.95E+02	NA	1.50E-02
Diisopropyl ether (DIPE)	5.97E-01	1.49E+03 *	3.25E+02	6.20E+02	NA	6.77E-01
Ethanol	1.13E+00	7.53E+04 *	4.46E+04 *	3.07E+05 #	NA	2.26E+00
Methanol	1.55E-01	6.47E+03	8.16E+03	4.26E+04	NA	2.97E-01
Arsenic	5.96E-06	4.35E+00	NA	NA	NA	1.00E-02 m
Barium	2.92E-04	4.50E+03	NA	NA	NA	2.00E+00 m
Cadmium	1.42E-05	3.23E+01	NA	NA	NA	5.00E-03 m
Chromium (III)	5.97E-05	6.65E+04	NA	NA	NA	2.35E+01
Chromium (VI)	3.09E-07	9.36E+02	NA	NA	NA	4.69E-02
Lead	NA	2.60E+02	2.60E+02	NA	NA	1.50E-02
Selenium	NA	1.34E+02	NA	NA	NA	7.82E-02

Notes:
NA: Not Applicable
*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown
#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown
m: The target level is MCL.
Soil concentrations are presented on a dry weight basis.
RBTL: Risk Based Target Level

Table 7-3(b)
Tier 1 Risk-Based Target Levels for Non-Residential Land Use for Soil Type 3 (Clayey Soil)

Chemicals of Concern	Air	Surficial Soil	Subsurface Soil	Groundwater	
	Indoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	Indoor Inhalation of Vapor Emissions	Dermal Contact	Indoor Inhalation of Vapor Emissions
	[mg/m^3-air]	[mg/kg]	[mg/kg]	[mg/L]	[mg/L]
Benzene	6.57E-03	3.70E+01 *	4.65E+00	1.27E+00	9.34E+00
Toluene	7.79E-01	1.24E+04 *	1.13E+03 *	1.31E+02 #	9.44E+02 #
Ethylbenzene	1.95E+00	5.96E+03 *	5.12E+03 *	3.56E+01 #	2.31E+03 #
Xylenes (mixed)	1.36E+00	3.00E+04 *	4.58E+03 *	6.49E+02 #	1.86E+03 #
Ethylene Dibromide (EDB)	2.48E-04	5.87E-02	4.79E+00	3.38E-04	1.04E+01
Ethylene Dichloride (EDC)	2.10E-03	2.38E+01	3.49E+00	6.99E-01	1.45E+01
Methyl-tert-butyl-ether(MTBE)	5.45E-01	5.51E+02	1.60E+03	2.05E+01	7.77E+03
Acenaphthene	4.09E-01	4.01E+03 *	1.72E+06 *	6.74E+00 #	4.09E+04 #
Anthracene	2.04E+00	2.01E+04 *	1.01E+07 *	3.42E+01 #	5.83E+04 #
Benzo(a)anthracene	6.16E-04	5.50E+00	2.90E+06 *	1.30E-03	1.23E+03 #
Benzo(a)pyrene	3.13E-05	5.62E-01	5.97E+05 *	6.93E-05	9.89E+01 #
Benzo(b)fluoranthene	6.16E-04	5.50E+00	1.14E+06 *	6.93E-04	1.57E+02 #
Benzo(k)fluoranthene	6.16E-03	5.50E+01 *	2.51E+08 *	6.93E-03 #	3.44E+04 #
Chrysene	6.16E-02	5.50E+02 *	3.92E+07 *	1.30E-01 #	1.67E+04 #
Dibenzo(a,h)anthracene	6.16E-05	5.50E-01	9.84E+06 *	3.83E-05	4.38E+02 #
Fluoranthene	2.73E-01	7.82E+03 *	1.91E+08 *	2.45E+00 #	3.02E+05 #
Fluorene	2.73E-01	2.69E+03 *	6.06E+06 *	6.62E+00 #	7.40E+04 #
Naphthalene	5.86E-03	7.13E+02 *	1.63E+03 *	7.74E+00 #	1.37E+02 #
Pyrene	2.04E-01	5.36E+03 *	1.97E+08 *	1.84E+00 #	3.17E+05 #
TPH-GRO	3.82E+01	3.90E+05 *	9.55E+03 *	7.91E+02 #	4.53E+02 #
TPH-DRO	4.68E+00	4.03E+05 *	1.08E+05 *	3.20E+01 #	2.84E+03 #
TPH-ORO	NA	3.62E+05 *	NA	3.90E+00 #	NA
>C6 - C8 (Aliphatics)	3.59E+01	3.59E+05 *	6.11E+03 *	7.70E+02 #	2.11E+02 #
>C8 - C10 (Aliphatics)	1.95E+00	2.00E+04 *	1.32E+03 *	5.78E+00 #	7.18E+00 #
>C10 - C12 (Aliphatics)	1.95E+00	1.35E+04 *	6.67E+03 *	2.17E+00 #	4.79E+00 #
>C12 - C16 (Aliphatics)	1.95E+00	1.55E+04 *	3.04E+04 *	5.03E-01 #	1.10E+00 #
>C16 - C21 (Aliphatics)	NA	3.58E+05 *	NA	1.02E+00 #	NA
>C21 - C35 (Aliphatics)	NA	3.58E+05 *	NA	1.02E+00 #	NA
>C8 - C10 (Aromatics)	3.89E-01	1.04E+04 *	2.11E+03 *	1.46E+01	2.35E+02 #
>C10 - C12 (Aromatics)	3.89E-01	5.86E+03 *	1.14E+04 *	1.23E+01	7.87E+02 #
>C12 - C16 (Aromatics)	3.89E-01	6.53E+03 *	5.96E+04 *	1.01E+01 #	2.04E+03 #
>C16 - C21 (Aromatics)	NA	4.30E+03 *	NA	5.93E+00 #	NA
>C21 - C35 (Aromatics)	NA	4.30E+03 *	NA	2.88E+00 #	NA
Tertiary-amyl-methyl-ether (TAME)	NA	5.73E+03 *	NA	NA	NA
Tertiary-butyl- alcohol (TBA)	5.86E-01	9.59E+03	9.97E+03	NA	6.10E+04
Ethyl-tert-butyl-ether (ETBE)	5.86E-01	1.42E+02	8.59E+02	NA	2.37E+03
Diisopropyl ether (DIPE)	1.95E+00	1.02E+04 *	2.61E+03 *	NA	4.98E+03 #
Ethanol	3.70E+00	5.03E+05 *	3.59E+05 *	NA	2.47E+06 #
Methanol	5.04E-01	4.46E+04	6.56E+04	NA	3.43E+05
Arsenic	1.27E-05	1.91E+01	NA	NA	NA
Barium	9.54E-04	4.79E+04	NA	NA	NA
Cadmium	3.03E-05	3.47E+02	NA	NA	NA
Chromium (III)	1.95E-04	4.16E+05	NA	NA	NA
Chromium (VI)	6.58E-07	5.56E+03	NA	NA	NA
Lead	NA	6.60E+02	6.60E+02	NA	NA
Selenium	NA	9.27E+02	NA	NA	NA

Notes:
NA: Not Applicable
*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.
#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown.
Soil concentrations are presented on a dry weight basis.
RBTL: Risk Based Target Level

Table 7-3(c)
Tier 1 Risk-Based Target Levels for Construction Worker for Soil Type 3 (Clayey Soil)

Chemicals of Concern	Air	Soil up to Depth of Construction		Groundwater			
	Outdoor	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact		Dermal Contact		Outdoor Inhalation of Vapor Emissions	
	[mg/m^3-air]	[mg/kg]		[mg/L]		[mg/L]	
Benzene	4.86E-02	3.92E+01	*	1.09E+01		3.93E+03	#
Toluene	3.25E+00	3.96E+03	*	3.63E+02	#	2.42E+05	#
Ethylbenzene	8.11E+00	7.88E+03	*	9.89E+01	#	6.09E+05	#
Xylenes (mixed)	5.68E+00	1.04E+04	*	1.80E+03	#	4.73E+05	#
Ethylene Dibromide (EDB)	1.62E-03	3.95E+00		2.35E-02		1.30E+03	
Ethylene Dichloride (EDC)	4.06E-02	5.38E+01		4.86E+01		9.11E+03	#
Methyl-tert-butyl-ether(MTBE)	2.43E+01	2.85E+04	*	1.43E+03		8.86E+06	#
Acenaphthene	1.70E+00	1.02E+04	*	1.87E+01	#	3.26E+06	#
Anthracene	8.52E+00	5.16E+04	*	9.51E+01	#	5.57E+06	#
Benzo(a)anthracene	6.41E-02	3.81E+02	*	8.99E-02	#	2.25E+06	#
Benzo(a)pyrene	3.26E-03	3.89E+01	*	4.81E-03	#	1.81E+05	#
Benzo(b)fluoranthene	6.41E-02	3.80E+02	*	4.81E-02	#	3.01E+05	#
Benzo(k)fluoranthene	6.41E-01	3.82E+03	*	4.81E-01	#	6.29E+07	#
Chrysene	6.41E+00	3.79E+04	*	8.99E+00	#	3.17E+07	#
Dibenzo(a,h)anthracene	6.41E-03	3.82E+01		2.66E-03	#	7.98E+05	#
Fluoranthene	1.14E+00	2.13E+04	*	6.80E+00	#	2.22E+07	#
Fluorene	1.14E+00	7.19E+03	*	1.84E+01	#	5.58E+06	#
Naphthalene	2.44E-02	3.78E+02	*	2.15E+01	#	1.38E+04	#
Pyrene	8.52E-01	1.47E+04	*	5.10E+00	#	2.32E+07	#
TPH-GRO	1.59E+02	7.38E+04	*	2.20E+03	#	1.43E+05	#
TPH-DRO	1.95E+01	1.05E+06	*	8.89E+01	#	4.73E+05	#
TPH-ORO	NA	1.01E+06	*	1.08E+01	#	NA	
>C6 - C8 (Aliphatics)	1.49E+02	6.33E+04	*	2.14E+03	#	7.36E+04	#
>C8 - C10 (Aliphatics)	8.12E+00	6.73E+03	*	1.60E+01	#	2.50E+03	#
>C10 - C12 (Aliphatics)	8.12E+00	1.18E+04	*	6.02E+00	#	1.67E+03	#
>C12 - C16 (Aliphatics)	8.12E+00	1.98E+04	*	1.40E+00	#	3.86E+02	#
>C16 - C21 (Aliphatics)	NA	9.94E+05	*	2.83E+00	#	NA	
>C21 - C35 (Aliphatics)	NA	9.94E+05	*	2.83E+00	#	NA	
>C8 - C10 (Aromatics)	1.62E+00	3.77E+03	*	4.07E+01		6.73E+04	#
>C10 - C12 (Aromatics)	1.62E+00	6.21E+03	*	3.41E+01	#	1.66E+05	#
>C12 - C16 (Aromatics)	1.62E+00	1.01E+04	*	2.80E+01	#	3.04E+05	#
>C16 - C21 (Aromatics)	NA	1.19E+04	*	1.65E+01	#	NA	
>C21 - C35 (Aromatics)	NA	1.19E+04	*	7.99E+00	#	NA	
Tertiary-amyl-methyl-ether (TAME)	NA	1.59E+04	*	NA		NA	
Tertiary-butyl- alcohol (TBA)	2.44E+00	8.05E+03		NA		4.79E+06	#
Ethyl-tert-butyl-ether (ETBE)	2.44E+00	3.52E+02		NA		4.38E+05	#
Diisopropyl ether (DIPE)	8.12E+00	7.79E+03	*	NA		1.09E+06	#
Ethanol	1.54E+01	1.55E+05	*	NA		1.82E+08	#
Methanol	2.10E+00	2.25E+04		NA		2.51E+07	#
Arsenic	1.32E-03	8.54E+02		NA		NA	
Barium	3.98E-03	1.31E+05		NA		NA	
Cadmium	3.16E-03	9.65E+02		NA		NA	
Chromium (III)	8.12E-04	7.22E+05		NA		NA	
Chromium (VI)	6.53E-05	1.40E+04		NA		NA	
Lead	NA	6.60E+02		NA		NA	
Selenium	NA	2.57E+03		NA		NA	

Notes:

NA: Not Applicable

*: Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration.

#: Calculated Target Level exceeded effective water solubility(if available) or solubility. Calculated value is shown.

Soil concentrations are presented on a dry weight basis.

RBTL: Risk Based Target Level

Table 7-4(a)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 1
Distance to Groundwater <20 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	5.61E-02		5.66E-02		7.34E-02		1.14E-01		1.74E-01		3.49E-01		5.96E-01		9.13E-01		3.56E+00	
Toluene	2.98E+01		3.00E+01		3.89E+01		6.05E+01	*	9.24E+01	*	1.85E+02	*	3.16E+02	*	4.84E+02	*	1.89E+03	*
Ethylbenzene	3.99E+01	*	4.02E+01	*	5.21E+01	*	8.10E+01	*	1.24E+02	*	2.48E+02	*	4.23E+02	*	6.49E+02	*	2.53E+03	*
Xylenes (mixed)	6.34E+02	*	6.40E+02	*	8.29E+02	*	1.29E+03	*	1.97E+03	*	3.95E+03	*	6.73E+03	*	1.03E+04	*	4.02E+04	*
Ethylene Dibromide (EDB)	4.73E-04		4.77E-04		6.19E-04		9.61E-04		1.47E-03		2.95E-03		5.02E-03		7.70E-03		3.00E-02	
Ethylene Dichloride (EDC)	6.31E-03		6.36E-03		8.25E-03		1.28E-02		1.96E-02		3.93E-02		6.70E-02		1.03E-01		4.00E-01	
Methyl-tert-butyl-ether(MTBE)	4.53E-01		4.57E-01		5.93E-01		9.21E-01		1.41E+00		2.82E+00		4.81E+00		7.38E+00		2.87E+01	
Acenaphthene	2.09E+02	*	2.11E+02	*	2.73E+02	*	4.24E+02	*	6.48E+02	*	1.30E+03	*	2.22E+03	*	3.40E+03	*	1.32E+04	*
Anthracene	4.35E+03	*	4.38E+03	*	5.68E+03	*	8.83E+03	*	1.35E+04	*	2.71E+04	*	4.61E+04	*	7.07E+04	*	2.75E+05	*
Benzo(a)anthracene	5.46E+01	*	5.51E+01	*	7.14E+01	*	1.11E+02	*	1.69E+02	*	3.40E+02	*	5.79E+02	*	8.88E+02	*	3.46E+03	*
Benzo(a)pyrene	3.04E+01	*	3.06E+01	*	3.97E+01	*	6.17E+01	*	9.43E+01	*	1.89E+02	*	3.22E+02	*	4.94E+02	*	1.92E+03	*
Benzo(b)fluoranthene	1.69E+02	*	1.70E+02	*	2.21E+02	*	3.43E+02	*	5.24E+02	*	1.05E+03	*	1.79E+03	*	2.74E+03	*	1.07E+04	*
Benzo(k)fluoranthene	1.69E+03	*	1.70E+03	*	2.21E+03	*	3.43E+03	*	5.24E+03	*	1.05E+04	*	1.79E+04	*	2.74E+04	*	1.07E+05	*
Chrysene	5.46E+03	*	5.51E+03	*	7.14E+03	*	1.11E+04	*	1.69E+04	*	3.40E+04	*	5.79E+04	*	8.88E+04	*	3.46E+05	*
Dibenzo(a,h)anthracene	5.21E+01		5.26E+01		6.81E+01	*	1.06E+02	*	1.62E+02	*	3.24E+02	*	5.53E+02	*	8.47E+02	*	3.30E+03	*
Fluoranthene	9.97E+03	*	1.01E+04	*	1.30E+04	*	2.02E+04	*	3.10E+04	*	6.21E+04	*	1.06E+05	*	1.62E+05	*	6.32E+05	*
Fluorene	2.71E+02	*	2.74E+02	*	3.55E+02	*	5.51E+02	*	8.42E+02	*	1.69E+03	*	2.88E+03	*	4.41E+03	*	1.72E+04	*
Napthalene	1.06E+00	*	1.07E+00	*	1.39E+00	*	2.16E+00	*	3.30E+00	*	6.62E+00	*	1.13E+01	*	1.73E+01	*	6.73E+01	*
Pyrene	7.34E+03	*	7.40E+03	*	9.59E+03	*	1.49E+04	*	2.28E+04	*	4.57E+04	*	7.79E+04	*	1.19E+05	*	4.65E+05	*
TPH-GRO	1.79E+04		1.81E+04		2.35E+04		3.64E+04		5.57E+04		1.12E+05		1.90E+05		2.92E+05		1.14E+06	
TPH-DRO	2.94E+09		2.97E+09		3.84E+09		5.97E+09		9.13E+09		1.83E+10		3.12E+10		4.78E+10		1.86E+11	
TPH-ORO	2.94E+09		2.97E+09		3.84E+09		5.97E+09		9.13E+09		1.83E+10		3.12E+10		4.78E+10		1.86E+11	
>C6 - C8 (Aliphatics)	1.44E+04	*	1.46E+04	*	1.89E+04	*	2.93E+04	*	4.49E+04	*	8.99E+04	*	1.53E+05	*	2.35E+05	*	9.15E+05	*
>C8 - C10 (Aliphatics)	3.46E+03	*	3.49E+03	*	4.52E+03	*	7.02E+03	*	1.07E+04	*	2.15E+04	*	3.67E+04	*	5.62E+04	*	2.19E+05	*
>C10 - C12 (Aliphatics)	2.57E+04	*	2.60E+04	*	3.36E+04	*	5.23E+04	*	7.99E+04	*	1.60E+05	*	2.73E+05	*	4.18E+05	*	1.63E+06	*
>C12 - C16 (Aliphatics)	1.17E+06	*	1.18E+06	*	1.53E+06	*	2.38E+06	*	3.64E+06	*	7.29E+06	*	1.24E+07	*	1.90E+07	*	7.42E+07	*
>C16 - C21 (Aliphatics)	2.94E+09	*	2.97E+09	*	3.84E+09	*	5.97E+09	*	9.13E+09	*	1.83E+10	*	3.12E+10	*	4.78E+10	*	1.86E+11	*
>C21 - C35 (Aliphatics)	2.94E+09	*	2.97E+09	*	3.84E+09	*	5.97E+09	*	9.13E+09	*	1.83E+10	*	3.12E+10	*	4.78E+10	*	1.86E+11	*
>C8 - C10 (Aromatics)	4.13E+01		4.16E+01		5.40E+01		8.38E+01		1.28E+02		2.57E+02		4.38E+02		6.71E+02	*	2.61E+03	*
>C10 - C12 (Aromatics)	6.49E+01		6.55E+01		8.49E+01		1.32E+02		2.02E+02		4.04E+02	*	6.89E+02	*	1.06E+03	*	4.11E+03	*
>C12 - C16 (Aromatics)	1.29E+02		1.30E+02		1.69E+02		2.62E+02	*	4.01E+02	*	8.04E+02	*	1.37E+03	*	2.10E+03	*	8.18E+03	*
>C16 - C21 (Aromatics)	1.11E+03	*	1.12E+03	*	1.45E+03	*	2.25E+03	*	3.44E+03	*	6.89E+03	*	1.18E+04	*	1.80E+04	*	7.02E+04	*
>C21 - C35 (Aromatics)	8.79E+03	*	8.87E+03	*	1.15E+04	*	1.79E+04	*	2.73E+04	*	5.47E+04	*	9.33E+04	*	1.43E+05	*	5.57E+05	*
Tertiary-amyl-methyl-ether (TAME)	5.11E+00		5.16E+00		6.69E+00		1.04E+01		1.59E+01		3.18E+01		5.43E+01		8.32E+01		3.24E+02	
Tertiary-butyl- alcohol (TBA)	5.63E-01		5.68E-01		7.36E-01		1.14E+00		1.75E+00		3.50E+00		5.97E+00		9.15E+00		3.57E+01	
Ethyl-tert-butyl-ether (ETBE)	1.10E-01		1.11E-01		1.44E-01		2.24E-01		3.42E-01		6.86E-01		1.17E+00		1.79E+00		6.98E+00	
Diisopropyl ether (DIPE)	7.96E+00		8.03E+00		1.04E+01		1.62E+01		2.47E+01		4.95E+01		8.45E+01		1.29E+02		5.04E+02	
Ethanol	3.39E+00		3.42E+00		4.44E+00		6.89E+00		1.05E+01		2.11E+01		3.60E+01		5.52E+01		2.15E+02	
Methanol	7.92E-01		7.99E-01		1.04E+00		1.61E+00		2.46E+00		4.93E+00		8.41E+00		1.29E+01		5.02E+01	
Arsenic	6.25E+00		6.30E+00		8.17E+00		1.27E+01		1.94E+01		3.89E+01		6.63E+01		1.02E+02		3.96E+02	
Barium	5.47E+02		5.52E+02		7.15E+02		1.11E+03		1.70E+03		3.41E+03		5.81E+03		8.90E+03		3.47E+04	
Cadmium	1.88E+00		1.90E+00		2.46E+00		3.83E+00		5.85E+00		1.17E+01		2.00E+01		3.06E+01		1.19E+02	
Chromium III	7.00E+05		7.06E+05		9.15E+05		1.42E+06		2.17E+06		4.36E+06		7.43E+06		1.14E+07		4.43E+07	
Chromium VI	2.22E+01		2.24E+01		2.90E+01		4.51E+01		6.89E+01		1.38E+02		2.36E+02		3.61E+02		1.41E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	4.37E+00		4.41E+00		5.71E+00		8.87E+00		1.36E+01		2.72E+01		4.64E+01		7.10E+01		2.77E+02	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-4(b)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 1
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.12E-01		1.13E-01		1.47E-01		2.28E-01		3.49E-01		6.99E-01		1.19E+00		1.83E+00		7.11E+00	
Toluene	5.95E+01	*	6.01E+01	*	7.78E+01	*	1.21E+02	*	1.85E+02	*	3.71E+02	*	6.32E+02	*	9.68E+02	*	3.77E+03	*
Ethylbenzene	7.97E+01	*	8.05E+01	*	1.04E+02	*	1.62E+02	*	2.48E+02	*	4.97E+02	*	8.47E+02	*	1.30E+03	*	5.05E+03	*
Xylenes (mixed)	1.27E+03	*	1.28E+03	*	1.66E+03	*	2.58E+03	*	3.94E+03	*	7.90E+03	*	1.35E+04	*	2.06E+04	*	8.03E+04	*
Ethylene Dibromide (EDB)	9.46E-04		9.55E-04		1.24E-03		1.92E-03		2.94E-03		5.89E-03		1.00E-02		1.54E-02		6.00E-02	
Ethylene Dichloride (EDC)	1.26E-02		1.27E-02		1.65E-02		2.56E-02		3.92E-02		7.86E-02		1.34E-01		2.05E-01		7.99E-01	
Methyl-tert-butyl-ether(MTBE)	9.07E-01		9.15E-01		1.19E+00		1.84E+00		2.82E+00		5.65E+00		9.63E+00		1.48E+01		5.75E+01	
Acenaphthene	4.18E+02	*	4.21E+02	*	5.46E+02	*	8.48E+02	*	1.30E+03	*	2.60E+03	*	4.43E+03	*	6.79E+03	*	2.65E+04	*
Anthracene	8.69E+03	*	8.77E+03	*	1.14E+04	*	1.77E+04	*	2.70E+04	*	5.41E+04	*	9.23E+04	*	1.41E+05	*	5.51E+05	*
Benzo(a)anthracene	1.09E+02	*	1.10E+02	*	1.43E+02	*	2.22E+02	*	3.39E+02	*	6.80E+02	*	1.16E+03	*	1.78E+03	*	6.92E+03	*
Benzo(a)pyrene	6.07E+01	*	6.13E+01	*	7.94E+01	*	1.23E+02	*	1.89E+02	*	3.78E+02	*	6.45E+02	*	9.88E+02	*	3.85E+03	*
Benzo(b)fluoranthene	3.37E+02	*	3.40E+02	*	4.41E+02	*	6.85E+02	*	1.05E+03	*	2.10E+03	*	3.58E+03	*	5.49E+03	*	2.14E+04	*
Benzo(k)fluoranthene	3.37E+03	*	3.40E+03	*	4.41E+03	*	6.85E+03	*	1.05E+04	*	2.10E+04	*	3.58E+04	*	5.49E+04	*	2.14E+05	*
Chrysene	1.09E+04	*	1.10E+04	*	1.43E+04	*	2.22E+04	*	3.39E+04	*	6.80E+04	*	1.16E+05	*	1.78E+05	*	6.92E+05	*
Dibenzo(a,h)anthracene	1.04E+02	*	1.05E+02	*	1.36E+02	*	2.12E+02	*	3.24E+02	*	6.49E+02	*	1.11E+03	*	1.69E+03	*	6.60E+03	*
Fluoranthene	1.99E+04	*	2.01E+04	*	2.61E+04	*	4.05E+04	*	6.19E+04	*	1.24E+05	*	2.12E+05	*	3.24E+05	*	1.26E+06	*
Fluorene	5.42E+02	*	5.47E+02	*	7.09E+02	*	1.10E+03	*	1.68E+03	*	3.38E+03	*	5.76E+03	*	8.82E+03	*	3.44E+04	*
Napthalene	2.13E+00	*	2.14E+00	*	2.78E+00	*	4.32E+00	*	6.60E+00	*	1.32E+01	*	2.26E+01	*	3.46E+01	*	1.35E+02	*
Pyrene	1.47E+04	*	1.48E+04	*	1.92E+04	*	2.98E+04	*	4.56E+04	*	9.14E+04	*	1.56E+05	*	2.39E+05	*	9.30E+05	*
TPH-GRO	3.59E+04		3.62E+04		4.69E+04		7.29E+04		1.11E+05		2.23E+05		3.81E+05		5.84E+05		2.27E+06	
TPH-DRO	5.88E+09		5.93E+09		7.69E+09		1.19E+10		1.83E+10		3.66E+10		6.24E+10		9.56E+10		3.73E+11	
TPH-ORO	5.88E+09		5.93E+09		7.69E+09		1.19E+10		1.83E+10		3.66E+10		6.24E+10		9.56E+10		3.72E+11	
>C6 - C8 (Aliphatics)	2.89E+04	*	2.91E+04	*	3.78E+04	*	5.87E+04	*	8.97E+04	*	1.80E+05	*	3.07E+05	*	4.70E+05	*	1.83E+06	*
>C8 - C10 (Aliphatics)	6.91E+03	*	6.97E+03	*	9.04E+03	*	1.40E+04	*	2.15E+04	*	4.30E+04	*	7.34E+04	*	1.12E+05	*	4.38E+05	*
>C10 - C12 (Aliphatics)	5.15E+04	*	5.19E+04	*	6.73E+04	*	1.05E+05	*	1.60E+05	*	3.20E+05	*	5.46E+05	*	8.37E+05	*	3.26E+06	*
>C12 - C16 (Aliphatics)	2.34E+06	*	2.36E+06	*	3.06E+06	*	4.76E+06	*	7.27E+06	*	1.46E+07	*	2.49E+07	*	3.81E+07	*	1.48E+08	*
>C16 - C21 (Aliphatics)	5.88E+09	*	5.93E+09	*	7.69E+09	*	1.19E+10	*	1.83E+10	*	3.66E+10	*	6.24E+10	*	9.56E+10	*	3.72E+11	*
>C21 - C35 (Aliphatics)	5.88E+09	*	5.93E+09	*	7.69E+09	*	1.19E+10	*	1.83E+10	*	3.66E+10	*	6.24E+10	*	9.56E+10	*	3.72E+11	*
>C8 - C10 (Aromatics)	8.25E+01		8.33E+01		1.08E+02		1.68E+02		2.56E+02		5.14E+02		8.76E+02	*	1.34E+03	*	5.23E+03	*
>C10 - C12 (Aromatics)	1.30E+02		1.31E+02		1.70E+02		2.64E+02		4.03E+02	*	8.09E+02	*	1.38E+03	*	2.11E+03	*	8.23E+03	*
>C12 - C16 (Aromatics)	2.58E+02	*	2.61E+02	*	3.38E+02	*	5.25E+02	*	8.02E+02	*	1.61E+03	*	2.74E+03	*	4.20E+03	*	1.64E+04	*
>C16 - C21 (Aromatics)	2.21E+03	*	2.23E+03	*	2.90E+03	*	4.50E+03	*	6.88E+03	*	1.38E+04	*	2.35E+04	*	3.60E+04	*	1.40E+05	*
>C21 - C35 (Aromatics)	1.76E+04	*	1.77E+04	*	2.30E+04	*	3.57E+04	*	5.46E+04	*	1.09E+05	*	1.87E+05	*	2.86E+05	*	1.11E+06	*
Tertiary-amyl-methyl-ether (TAME)	1.02E+01		1.03E+01		1.34E+01		2.08E+01		3.18E+01		6.37E+01		1.09E+02		1.66E+02		6.48E+02	
Tertiary-butyl- alcohol (TBA)	1.13E+00		1.14E+00		1.47E+00		2.29E+00		3.50E+00		7.01E+00		1.19E+01		1.83E+01		7.13E+01	
Ethyl-tert-butyl-ether (ETBE)	2.20E-01		2.22E-01		2.88E-01		4.48E-01		6.84E-01		1.37E+00		2.34E+00		3.58E+00		1.40E+01	
Diisopropyl ether (DIPE)	1.59E+01		1.61E+01		2.08E+01		3.23E+01		4.94E+01		9.91E+01		1.69E+02		2.59E+02		1.01E+03	
Ethanol	6.79E+00		6.85E+00		8.87E+00		1.38E+01		2.11E+01		4.23E+01		7.20E+01		1.10E+02		4.30E+02	
Methanol	1.58E+00		1.60E+00		2.07E+00		3.22E+00		4.92E+00		9.87E+00		1.68E+01		2.58E+01		1.00E+02	
Arsenic	1.25E+01		1.26E+01		1.63E+01		2.54E+01		3.88E+01		7.78E+01		1.33E+02		2.03E+02		7.91E+02	
Barium	1.09E+03		1.10E+03		1.43E+03		2.22E+03		3.40E+03		6.81E+03		1.16E+04		1.78E+04		6.93E+04	
Cadmium	3.77E+00		3.80E+00		4.93E+00		7.65E+00		1.17E+01		2.35E+01		4.00E+01		6.13E+01		2.39E+02	
Chromium III	1.40E+06		1.41E+06		1.83E+06		2.84E+06		4.35E+06		8.72E+06		1.49E+07		2.28E+07		8.87E+07	
Chromium VI	4.44E+01		4.48E+01		5.80E+01		9.01E+01		1.38E+02		2.76E+02		4.71E+02		7.22E+02		2.81E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	8.73E+00		8.81E+00		1.14E+01		1.77E+01		2.71E+01		5.44E+01		9.27E+01		1.42E+02		5.53E+02	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-4(c)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 1
Distance to Groundwater >50 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.24E-01		2.26E-01		2.94E-01		4.56E-01		6.97E-01		1.40E+00		2.38E+00		3.65E+00		1.42E+01	
Toluene	1.19E+02	*	1.20E+02	*	1.56E+02	*	2.42E+02	*	3.70E+02	*	7.41E+02	*	1.26E+03	*	1.94E+03	*	7.54E+03	*
Ethylbenzene	1.59E+02	*	1.61E+02	*	2.09E+02	*	3.24E+02	*	4.95E+02	*	9.93E+02	*	1.69E+03	*	2.59E+03	*	1.01E+04	*
Xylenes (mixed)	2.54E+03	*	2.56E+03	*	3.32E+03	*	5.15E+03	*	7.88E+03	*	1.58E+04	*	2.69E+04	*	4.13E+04	*	1.61E+05	*
Ethylene Dibromide (EDB)	1.89E-03		1.91E-03		2.47E-03		3.84E-03		5.88E-03		1.18E-02		2.01E-02		3.08E-02		1.20E-01	
Ethylene Dichloride (EDC)	2.52E-02		2.55E-02		3.30E-02		5.12E-02		7.84E-02		1.57E-01		2.68E-01		4.10E-01		1.60E+00	
Methyl-tert-butyl-ether(MTBE)	1.81E+00		1.83E+00		2.37E+00		3.68E+00		5.63E+00		1.13E+01		1.93E+01		2.95E+01		1.15E+02	
Acenaphthene	8.35E+02	*	8.43E+02	*	1.09E+03	*	1.70E+03	*	2.59E+03	*	5.20E+03	*	8.87E+03	*	1.36E+04	*	5.29E+04	*
Anthracene	1.74E+04	*	1.75E+04	*	2.27E+04	*	3.53E+04	*	5.40E+04	*	1.08E+05	*	1.85E+05	*	2.83E+05	*	1.10E+06	*
Benzo(a)anthracene	2.18E+02	*	2.20E+02	*	2.85E+02	*	4.43E+02	*	6.78E+02	*	1.36E+03	*	2.32E+03	*	3.55E+03	*	1.38E+04	*
Benzo(a)pyrene	1.21E+02	*	1.23E+02	*	1.59E+02	*	2.47E+02	*	3.77E+02	*	7.56E+02	*	1.29E+03	*	1.98E+03	*	7.70E+03	*
Benzo(b)fluoranthene	6.75E+02	*	6.81E+02	*	8.82E+02	*	1.37E+03	*	2.10E+03	*	4.20E+03	*	7.16E+03	*	1.10E+04	*	4.27E+04	*
Benzo(k)fluoranthene	6.75E+03	*	6.81E+03	*	8.82E+03	*	1.37E+04	*	2.10E+04	*	4.20E+04	*	7.16E+04	*	1.10E+05	*	4.27E+05	*
Chrysene	2.18E+04	*	2.20E+04	*	2.85E+04	*	4.43E+04	*	6.78E+04	*	1.36E+05	*	2.32E+05	*	3.55E+05	*	1.38E+06	*
Dibenzo(a,h)anthracene	2.08E+02	*	2.10E+02	*	2.73E+02	*	4.23E+02	*	6.47E+02	*	1.30E+03	*	2.21E+03	*	3.39E+03	*	1.32E+04	*
Fluoranthene	3.99E+04	*	4.02E+04	*	5.21E+04	*	8.10E+04	*	1.24E+05	*	2.48E+05	*	4.23E+05	*	6.48E+05	*	2.53E+06	*
Fluorene	1.08E+03	*	1.09E+03	*	1.42E+03	*	2.20E+03	*	3.37E+03	*	6.75E+03	*	1.15E+04	*	1.76E+04	*	6.87E+04	*
Napthalene	4.25E+00	*	4.29E+00	*	5.56E+00	*	8.63E+00	*	1.32E+01	*	2.65E+01	*	4.51E+01	*	6.91E+01	*	2.69E+02	*
Pyrene	2.93E+04	*	2.96E+04	*	3.84E+04	*	5.96E+04	*	9.11E+04	*	1.83E+05	*	3.12E+05	*	4.77E+05	*	1.86E+06	*
TPH-GRO	7.18E+04		7.24E+04		9.38E+04		1.46E+05		2.23E+05		4.47E+05		7.62E+05		1.17E+06		4.55E+06	
TPH-DRO	1.18E+10		1.19E+10		1.54E+10		2.39E+10		3.65E+10		7.32E+10		1.25E+11		1.91E+11		7.45E+11	
TPH-ORO	1.18E+10		1.19E+10		1.54E+10		2.39E+10		3.65E+10		7.32E+10		1.25E+11		1.91E+11		7.45E+11	
>C6 - C8 (Aliphatics)	5.78E+04	*	5.83E+04	*	7.56E+04	*	1.17E+05	*	1.79E+05	*	3.60E+05	*	6.13E+05	*	9.40E+05	*	3.66E+06	*
>C8 - C10 (Aliphatics)	1.38E+04	*	1.39E+04	*	1.81E+04	*	2.81E+04	*	4.29E+04	*	8.61E+04	*	1.47E+05	*	2.25E+05	*	8.76E+05	*
>C10 - C12 (Aliphatics)	1.03E+05	*	1.04E+05	*	1.35E+05	*	2.09E+05	*	3.20E+05	*	6.41E+05	*	1.09E+06	*	1.67E+06	*	6.52E+06	*
>C12 - C16 (Aliphatics)	4.68E+06	*	4.73E+06	*	6.12E+06	*	9.51E+06	*	1.45E+07	*	2.92E+07	*	4.97E+07	*	7.62E+07	*	2.97E+08	*
>C16 - C21 (Aliphatics)	1.18E+10	*	1.19E+10	*	1.54E+10	*	2.39E+10	*	3.65E+10	*	7.32E+10	*	1.25E+11	*	1.91E+11	*	7.45E+11	*
>C21 - C35 (Aliphatics)	1.18E+10	*	1.19E+10	*	1.54E+10	*	2.39E+10	*	3.65E+10	*	7.32E+10	*	1.25E+11	*	1.91E+11	*	7.45E+11	*
>C8 - C10 (Aromatics)	1.65E+02		1.67E+02		2.16E+02		3.35E+02		5.13E+02		1.03E+03	*	1.75E+03	*	2.68E+03	*	1.05E+04	*
>C10 - C12 (Aromatics)	2.60E+02		2.62E+02		3.40E+02		5.28E+02	*	8.07E+02	*	1.62E+03	*	2.76E+03	*	4.22E+03	*	1.65E+04	*
>C12 - C16 (Aromatics)	5.17E+02	*	5.21E+02	*	6.75E+02	*	1.05E+03	*	1.60E+03	*	3.22E+03	*	5.48E+03	*	8.40E+03	*	3.27E+04	*
>C16 - C21 (Aromatics)	4.43E+03	*	4.47E+03	*	5.79E+03	*	9.00E+03	*	1.38E+04	*	2.76E+04	*	4.70E+04	*	7.20E+04	*	2.81E+05	*
>C21 - C35 (Aromatics)	3.52E+04	*	3.55E+04	*	4.60E+04	*	7.14E+04	*	1.09E+05	*	2.19E+05	*	3.73E+05	*	5.72E+05	*	2.23E+06	*
Tertiary-amyl-methyl-ether (TAME)	2.05E+01		2.06E+01		2.68E+01		4.16E+01		6.35E+01		1.27E+02		2.17E+02		3.33E+02		1.30E+03	
Tertiary-butyl- alcohol (TBA)	2.25E+00		2.27E+00		2.94E+00		4.57E+00		6.99E+00		1.40E+01		2.39E+01		3.66E+01		1.43E+02	
Ethyl-tert-butyl-ether (ETBE)	4.41E-01		4.45E-01		5.76E-01		8.95E-01		1.37E+00		2.74E+00		4.68E+00		7.17E+00		2.79E+01	
Diisopropyl ether (DIPE)	3.18E+01		3.21E+01		4.16E+01		6.46E+01		9.88E+01		1.98E+02		3.38E+02		5.18E+02		2.02E+03	*
Ethanol	1.36E+01		1.37E+01		1.77E+01		2.76E+01		4.22E+01		8.45E+01		1.44E+02		2.21E+02		8.60E+02	
Methanol	3.17E+00		3.20E+00		4.14E+00		6.44E+00		9.84E+00		1.97E+01		3.36E+01		5.15E+01		2.01E+02	
Arsenic	2.50E+01		2.52E+01		3.27E+01		5.07E+01		7.76E+01		1.56E+02		2.65E+02		4.06E+02		1.58E+03	
Barium	2.19E+03		2.21E+03		2.86E+03		4.44E+03		6.80E+03		1.36E+04		2.32E+04		3.56E+04		1.39E+05	
Cadmium	7.53E+00		7.60E+00		9.85E+00		1.53E+01		2.34E+01		4.69E+01		8.00E+01		1.23E+02		4.77E+02	
Chromium III	2.80E+06		2.82E+06		3.66E+06		5.69E+06		8.70E+06		1.74E+07		2.97E+07		4.55E+07		1.77E+08	
Chromium VI	8.87E+01		8.95E+01		1.16E+02		1.80E+02		2.76E+02		5.53E+02		9.42E+02		1.44E+03		5.62E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	1.75E+01		1.76E+01		2.28E+01		3.55E+01		5.42E+01		1.09E+02		1.85E+02		2.84E+02		1.11E+03	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-5(a)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 2
Distance to Groundwater <20 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	6.30E-02		6.35E-02		8.24E-02		1.28E-01		1.96E-01		3.92E-01		6.69E-01		1.02E+00		3.99E+00	
Toluene	3.11E+01		3.14E+01		4.07E+01		6.32E+01	*	9.66E+01	*	1.94E+02	*	3.30E+02	*	5.06E+02	*	1.97E+03	*
Ethylbenzene	4.08E+01	*	4.12E+01	*	5.34E+01	*	8.29E+01	*	1.27E+02	*	2.54E+02	*	4.33E+02	*	6.64E+02	*	2.59E+03	*
Xylenes (mixed)	6.47E+02	*	6.53E+02	*	8.47E+02	*	1.32E+03	*	2.01E+03	*	4.03E+03	*	6.87E+03	*	1.05E+04	*	4.10E+04	*
Ethylene Dibromide (EDB)	5.47E-04		5.52E-04		7.15E-04		1.11E-03		1.70E-03		3.41E-03		5.81E-03		8.89E-03		3.46E-02	
Ethylene Dichloride (EDC)	8.59E-03		8.67E-03		1.12E-02		1.75E-02		2.67E-02		5.35E-02		9.12E-02		1.40E-01		5.44E-01	
Methyl-tert-butyl-ether(MTBE)	6.69E-01		6.75E-01		8.75E-01		1.36E+00		2.08E+00		4.16E+00		7.10E+00		1.09E+01		4.24E+01	
Acenaphthene	2.09E+02	*	2.11E+02	*	2.73E+02	*	4.25E+02	*	6.49E+02	*	1.30E+03	*	2.22E+03	*	3.40E+03	*	1.32E+04	*
Anthracene	4.35E+03	*	4.39E+03	*	5.68E+03	*	8.83E+03	*	1.35E+04	*	2.71E+04	*	4.61E+04	*	7.07E+04	*	2.75E+05	*
Benzo(a)anthracene	5.46E+01	*	5.51E+01	*	7.14E+01	*	1.11E+02	*	1.69E+02	*	3.40E+02	*	5.79E+02	*	8.88E+02	*	3.46E+03	*
Benzo(a)pyrene	3.04E+01	*	3.06E+01	*	3.97E+01	*	6.17E+01	*	9.43E+01	*	1.89E+02	*	3.22E+02	*	4.94E+02	*	1.92E+03	*
Benzo(b)fluoranthene	1.69E+02	*	1.70E+02	*	2.21E+02	*	3.43E+02	*	5.24E+02	*	1.05E+03	*	1.79E+03	*	2.74E+03	*	1.07E+04	*
Benzo(k)fluoranthene	1.69E+03	*	1.70E+03	*	2.21E+03	*	3.43E+03	*	5.24E+03	*	1.05E+04	*	1.79E+04	*	2.74E+04	*	1.07E+05	*
Chrysene	5.46E+03	*	5.51E+03	*	7.14E+03	*	1.11E+04	*	1.69E+04	*	3.40E+04	*	5.79E+04	*	8.88E+04	*	3.46E+05	*
Dibenzo(a,h)anthracene	5.21E+01		5.26E+01		6.81E+01	*	1.06E+02	*	1.62E+02	*	3.24E+02	*	5.53E+02	*	8.47E+02	*	3.30E+03	*
Fluoranthene	9.97E+03	*	1.01E+04	*	1.30E+04	*	2.02E+04	*	3.10E+04	*	6.21E+04	*	1.06E+05	*	1.62E+05	*	6.32E+05	*
Fluorene	2.71E+02	*	2.74E+02	*	3.55E+02	*	5.51E+02	*	8.43E+02	*	1.69E+03	*	2.88E+03	*	4.41E+03	*	1.72E+04	*
Napthalene	1.07E+00	*	1.08E+00	*	1.40E+00	*	2.17E+00	*	3.32E+00	*	6.65E+00	*	1.13E+01	*	1.74E+01	*	6.77E+01	*
Pyrene	7.34E+03	*	7.40E+03	*	9.59E+03	*	1.49E+04	*	2.28E+04	*	4.57E+04	*	7.79E+04	*	1.19E+05	*	4.65E+05	*
TPH-GRO	1.75E+04		1.77E+04		2.29E+04		3.56E+04		5.44E+04		1.09E+05		1.86E+05		2.85E+05		1.11E+06	
TPH-DRO	2.94E+09		2.97E+09		3.84E+09		5.97E+09		9.13E+09		1.83E+10		3.12E+10		4.78E+10		1.86E+11	
TPH-ORO	2.94E+09		2.96E+09		3.84E+09		5.97E+09		9.13E+09		1.83E+10		3.12E+10		4.78E+10		1.86E+11	
>C6 - C8 (Aliphatics)	1.40E+04	*	1.42E+04	*	1.84E+04	*	2.85E+04	*	4.36E+04	*	8.75E+04	*	1.49E+05	*	2.28E+05	*	8.90E+05	*
>C8 - C10 (Aliphatics)	3.43E+03	*	3.46E+03	*	4.49E+03	*	6.97E+03	*	1.07E+04	*	2.14E+04	*	3.64E+04	*	5.58E+04	*	2.17E+05	*
>C10 - C12 (Aliphatics)	2.57E+04	*	2.59E+04	*	3.36E+04	*	5.22E+04	*	7.98E+04	*	1.60E+05	*	2.73E+05	*	4.18E+05	*	1.63E+06	*
>C12 - C16 (Aliphatics)	1.17E+06	*	1.18E+06	*	1.53E+06	*	2.38E+06	*	3.64E+06	*	7.29E+06	*	1.24E+07	*	1.90E+07	*	7.42E+07	*
>C16 - C21 (Aliphatics)	2.94E+09	*	2.96E+09	*	3.84E+09	*	5.97E+09	*	9.13E+09	*	1.83E+10	*	3.12E+10	*	4.78E+10	*	1.86E+11	*
>C21 - C35 (Aliphatics)	2.94E+09	*	2.96E+09	*	3.84E+09	*	5.97E+09	*	9.13E+09	*	1.83E+10	*	3.12E+10	*	4.78E+10	*	1.86E+11	*
>C8 - C10 (Aromatics)	4.15E+01		4.18E+01		5.42E+01		8.43E+01		1.29E+02		2.58E+02		4.40E+02		6.75E+02	*	2.63E+03	*
>C10 - C12 (Aromatics)	6.52E+01		6.58E+01		8.52E+01		1.32E+02		2.02E+02		4.06E+02	*	6.92E+02	*	1.06E+03	*	4.13E+03	*
>C12 - C16 (Aromatics)	1.29E+02		1.31E+02		1.69E+02		2.63E+02	*	4.02E+02	*	8.06E+02	*	1.37E+03	*	2.10E+03	*	8.20E+03	*
>C16 - C21 (Aromatics)	1.11E+03	*	1.12E+03	*	1.45E+03	*	2.25E+03	*	3.44E+03	*	6.90E+03	*	1.18E+04	*	1.80E+04	*	7.02E+04	*
>C21 - C35 (Aromatics)	8.79E+03	*	8.87E+03	*	1.15E+04	*	1.79E+04	*	2.73E+04	*	5.47E+04	*	9.33E+04	*	1.43E+05	*	5.57E+05	*
Tertiary-amyl-methyl-ether (TAME)	6.01E+00		6.06E+00		7.85E+00		1.22E+01		1.87E+01		3.74E+01		6.38E+01		9.77E+01		3.81E+02	
Tertiary-butyl- alcohol (TBA)	9.88E-01		9.97E-01		1.29E+00		2.01E+00		3.07E+00		6.16E+00		1.05E+01		1.61E+01		6.26E+01	
Ethyl-tert-butyl-ether (ETBE)	1.32E-01		1.33E-01		1.72E-01		2.68E-01		4.09E-01		8.20E-01		1.40E+00		2.14E+00		8.35E+00	
Diisopropyl ether (DIPE)	8.91E+00		8.99E+00		1.17E+01		1.81E+01		2.77E+01		5.55E+01		9.46E+01		1.45E+02		5.64E+02	
Ethanol	6.76E+00		6.82E+00		8.83E+00		1.37E+01		2.10E+01		4.21E+01		7.17E+01		1.10E+02		4.28E+02	
Methanol	1.23E+00		1.25E+00		1.62E+00		2.51E+00		3.84E+00		7.69E+00		1.31E+01		2.01E+01		7.83E+01	
Arsenic	6.26E+00		6.32E+00		8.19E+00		1.27E+01		1.94E+01		3.90E+01		6.65E+01		1.02E+02		3.97E+02	
Barium	5.50E+02		5.55E+02		7.19E+02		1.12E+03		1.71E+03		3.42E+03		5.84E+03		8.95E+03		3.48E+04	
Cadmium	1.89E+00		1.91E+00		2.47E+00		3.84E+00		5.87E+00		1.18E+01		2.01E+01		3.08E+01		1.20E+02	
Chromium III	7.00E+05		7.06E+05		9.15E+05		1.42E+06		2.17E+06		4.36E+06		7.43E+06		1.14E+07		4.43E+07	
Chromium VI	2.23E+01		2.25E+01		2.91E+01		4.52E+01		6.91E+01		1.39E+02		2.36E+02		3.62E+02		1.41E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	4.48E+00		4.52E+00		5.86E+00		9.11E+00		1.39E+01		2.79E+01		4.76E+01		7.29E+01		2.84E+02	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-5(b)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 2
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.26E-01		1.27E-01		1.65E-01		2.56E-01		3.91E-01		7.85E-01		1.34E+00		2.05E+00		7.98E+00	
Toluene	6.22E+01	*	6.28E+01	*	8.14E+01	*	1.26E+02	*	1.93E+02	*	3.88E+02	*	6.61E+02	*	1.01E+03	*	3.94E+03	*
Ethylbenzene	8.16E+01	*	8.23E+01	*	1.07E+02	*	1.66E+02	*	2.53E+02	*	5.08E+02	*	8.66E+02	*	1.33E+03	*	5.17E+03	*
Xylenes (mixed)	1.29E+03	*	1.31E+03	*	1.69E+03	*	2.63E+03	*	4.02E+03	*	8.06E+03	*	1.37E+04	*	2.11E+04	*	8.20E+04	*
Ethylene Dibromide (EDB)	1.09E-03		1.10E-03		1.43E-03		2.22E-03		3.40E-03		6.81E-03		1.16E-02		1.78E-02		6.93E-02	
Ethylene Dichloride (EDC)	1.72E-02		1.73E-02		2.25E-02		3.49E-02		5.34E-02		1.07E-01		1.82E-01		2.80E-01		1.09E+00	
Methyl-tert-butyl-ether(MTBE)	1.34E+00		1.35E+00		1.75E+00		2.72E+00		4.15E+00		8.33E+00		1.42E+01		2.18E+01		8.47E+01	
Acenaphthene	4.18E+02	*	4.22E+02	*	5.47E+02	*	8.49E+02	*	1.30E+03	*	2.60E+03	*	4.44E+03	*	6.80E+03	*	2.65E+04	*
Anthracene	8.69E+03	*	8.77E+03	*	1.14E+04	*	1.77E+04	*	2.70E+04	*	5.41E+04	*	9.23E+04	*	1.41E+05	*	5.51E+05	*
Benzo(a)anthracene	1.09E+02	*	1.10E+02	*	1.43E+02	*	2.22E+02	*	3.39E+02	*	6.80E+02	*	1.16E+03	*	1.78E+03	*	6.92E+03	*
Benzo(a)pyrene	6.07E+01	*	6.13E+01	*	7.94E+01	*	1.23E+02	*	1.89E+02	*	3.78E+02	*	6.45E+02	*	9.88E+02	*	3.85E+03	*
Benzo(b)fluoranthene	3.37E+02	*	3.40E+02	*	4.41E+02	*	6.85E+02	*	1.05E+03	*	2.10E+03	*	3.58E+03	*	5.49E+03	*	2.14E+04	*
Benzo(k)fluoranthene	3.37E+03	*	3.40E+03	*	4.41E+03	*	6.85E+03	*	1.05E+04	*	2.10E+04	*	3.58E+04	*	5.49E+04	*	2.14E+05	*
Chrysene	1.09E+04	*	1.10E+04	*	1.43E+04	*	2.22E+04	*	3.39E+04	*	6.80E+04	*	1.16E+05	*	1.78E+05	*	6.92E+05	*
Dibenzo(a,h)anthracene	1.04E+02	*	1.05E+02	*	1.36E+02	*	2.12E+02	*	3.24E+02	*	6.49E+02	*	1.11E+03	*	1.69E+03	*	6.60E+03	*
Fluoranthene	1.99E+04	*	2.01E+04	*	2.61E+04	*	4.05E+04	*	6.19E+04	*	1.24E+05	*	2.12E+05	*	3.24E+05	*	1.26E+06	*
Fluorene	5.43E+02	*	5.47E+02	*	7.10E+02	*	1.10E+03	*	1.69E+03	*	3.38E+03	*	5.76E+03	*	8.83E+03	*	3.44E+04	*
Napthalene	2.14E+00	*	2.15E+00	*	2.79E+00	*	4.34E+00	*	6.63E+00	*	1.33E+01	*	2.27E+01	*	3.47E+01	*	1.35E+02	*
Pyrene	1.47E+04	*	1.48E+04	*	1.92E+04	*	2.98E+04	*	4.56E+04	*	9.14E+04	*	1.56E+05	*	2.39E+05	*	9.30E+05	*
TPH-GRO	3.50E+04		3.53E+04		4.58E+04		7.12E+04		1.09E+05		2.18E+05		3.72E+05		5.70E+05		2.22E+06	
TPH-DRO	5.88E+09		5.93E+09		7.69E+09		1.19E+10		1.83E+10		3.66E+10		6.24E+10		9.56E+10		3.73E+11	
TPH-ORO	5.88E+09		5.93E+09		7.69E+09		1.19E+10		1.83E+10		3.66E+10		6.24E+10		9.56E+10		3.72E+11	
>C6 - C8 (Aliphatics)	2.81E+04	*	2.83E+04	*	3.67E+04	*	5.70E+04	*	8.72E+04	*	1.75E+05	*	2.98E+05	*	4.57E+05	*	1.78E+06	*
>C8 - C10 (Aliphatics)	6.86E+03	*	6.92E+03	*	8.97E+03	*	1.39E+04	*	2.13E+04	*	4.27E+04	*	7.28E+04	*	1.12E+05	*	4.35E+05	*
>C10 - C12 (Aliphatics)	5.14E+04	*	5.18E+04	*	6.72E+04	*	1.04E+05	*	1.60E+05	*	3.20E+05	*	5.45E+05	*	8.36E+05	*	3.26E+06	*
>C12 - C16 (Aliphatics)	2.34E+06	*	2.36E+06	*	3.06E+06	*	4.75E+06	*	7.27E+06	*	1.46E+07	*	2.49E+07	*	3.81E+07	*	1.48E+08	*
>C16 - C21 (Aliphatics)	5.88E+09	*	5.93E+09	*	7.69E+09	*	1.19E+10	*	1.83E+10	*	3.66E+10	*	6.24E+10	*	9.56E+10	*	3.72E+11	*
>C21 - C35 (Aliphatics)	5.88E+09	*	5.93E+09	*	7.69E+09	*	1.19E+10	*	1.83E+10	*	3.66E+10	*	6.24E+10	*	9.56E+10	*	3.72E+11	*
>C8 - C10 (Aromatics)	8.30E+01		8.37E+01		1.08E+02		1.69E+02		2.58E+02		5.17E+02		8.81E+02	*	1.35E+03	*	5.26E+03	*
>C10 - C12 (Aromatics)	1.30E+02		1.32E+02		1.70E+02		2.65E+02		4.05E+02	*	8.12E+02	*	1.38E+03	*	2.12E+03	*	8.26E+03	*
>C12 - C16 (Aromatics)	2.59E+02	*	2.61E+02	*	3.38E+02	*	5.26E+02	*	8.04E+02	*	1.61E+03	*	2.75E+03	*	4.21E+03	*	1.64E+04	*
>C16 - C21 (Aromatics)	2.22E+03	*	2.24E+03	*	2.90E+03	*	4.50E+03	*	6.88E+03	*	1.38E+04	*	2.35E+04	*	3.60E+04	*	1.40E+05	*
>C21 - C35 (Aromatics)	1.76E+04	*	1.77E+04	*	2.30E+04	*	3.57E+04	*	5.46E+04	*	1.09E+05	*	1.87E+05	*	2.86E+05	*	1.11E+06	*
Tertiary-amyl-methyl-ether (TAME)	1.20E+01		1.21E+01		1.57E+01		2.44E+01		3.73E+01		7.48E+01		1.28E+02		1.95E+02		7.61E+02	
Tertiary-butyl- alcohol (TBA)	1.98E+00		1.99E+00		2.59E+00		4.02E+00		6.14E+00		1.23E+01		2.10E+01		3.22E+01		1.25E+02	
Ethyl-tert-butyl-ether (ETBE)	2.63E-01		2.66E-01		3.45E-01		5.35E-01		8.18E-01		1.64E+00		2.80E+00		4.29E+00		1.67E+01	
Diisopropyl ether (DIPE)	1.78E+01		1.80E+01		2.33E+01		3.62E+01		5.53E+01		1.11E+02		1.89E+02		2.90E+02		1.13E+03	
Ethanol	1.35E+01		1.36E+01		1.77E+01		2.74E+01		4.20E+01		8.41E+01		1.43E+02		2.20E+02		8.56E+02	
Methanol	2.47E+00		2.49E+00		3.23E+00		5.02E+00		7.67E+00		1.54E+01		2.62E+01		4.02E+01		1.57E+02	
Arsenic	1.25E+01		1.26E+01		1.64E+01		2.54E+01		3.89E+01		7.80E+01		1.33E+02		2.04E+02		7.93E+02	
Barium	1.10E+03		1.11E+03		1.44E+03		2.23E+03		3.42E+03		6.85E+03		1.17E+04		1.79E+04		6.97E+04	
Cadmium	3.78E+00		3.82E+00		4.95E+00		7.68E+00		1.17E+01		2.36E+01		4.02E+01		6.15E+01		2.40E+02	
Chromium III	1.40E+06		1.41E+06		1.83E+06		2.84E+06		4.35E+06		8.72E+06		1.49E+07		2.28E+07		8.87E+07	
Chromium VI	4.45E+01		4.49E+01		5.82E+01		9.04E+01		1.38E+02		2.77E+02		4.73E+02		7.24E+02		2.82E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	8.97E+00		9.05E+00		1.17E+01		1.82E+01		2.78E+01		5.58E+01		9.52E+01		1.46E+02		5.68E+02	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-5(c)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 2
Distance to Groundwater >50 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.52E-01		2.54E-01		3.29E-01		5.12E-01		7.83E-01		1.57E+00		2.67E+00		4.10E+00		1.60E+01	
Toluene	1.24E+02	*	1.26E+02	*	1.63E+02	*	2.53E+02	*	3.87E+02	*	7.75E+02	*	1.32E+03	*	2.02E+03	*	7.89E+03	*
Ethylbenzene	1.63E+02	*	1.65E+02	*	2.13E+02	*	3.32E+02	*	5.07E+02	*	1.02E+03	*	1.73E+03	*	2.65E+03	*	1.03E+04	*
Xylenes (mixed)	2.59E+03	*	2.61E+03	*	3.39E+03	*	5.26E+03	*	8.04E+03	*	1.61E+04	*	2.75E+04	*	4.21E+04	*	1.64E+05	*
Ethylene Dibromide (EDB)	2.19E-03		2.21E-03		2.86E-03		4.44E-03		6.79E-03		1.36E-02		2.32E-02		3.56E-02		1.39E-01	
Ethylene Dichloride (EDC)	3.44E-02		3.47E-02		4.50E-02		6.98E-02		1.07E-01		2.14E-01		3.65E-01		5.59E-01		2.18E+00	
Methyl-tert-butyl-ether(MTBE)	2.67E+00		2.70E+00		3.50E+00		5.43E+00		8.31E+00		1.67E+01		2.84E+01		4.35E+01		1.69E+02	
Acenaphthene	8.36E+02	*	8.44E+02	*	1.09E+03	*	1.70E+03	*	2.60E+03	*	5.21E+03	*	8.88E+03	*	1.36E+04	*	5.30E+04	*
Anthracene	1.74E+04	*	1.75E+04	*	2.27E+04	*	3.53E+04	*	5.40E+04	*	1.08E+05	*	1.85E+05	*	2.83E+05	*	1.10E+06	*
Benzo(a)anthracene	2.18E+02	*	2.20E+02	*	2.85E+02	*	4.43E+02	*	6.78E+02	*	1.36E+03	*	2.32E+03	*	3.55E+03	*	1.38E+04	*
Benzo(a)pyrene	1.21E+02	*	1.23E+02	*	1.59E+02	*	2.47E+02	*	3.77E+02	*	7.56E+02	*	1.29E+03	*	1.98E+03	*	7.70E+03	*
Benzo(b)fluoranthene	6.75E+02	*	6.81E+02	*	8.82E+02	*	1.37E+03	*	2.10E+03	*	4.20E+03	*	7.16E+03	*	1.10E+04	*	4.27E+04	*
Benzo(k)fluoranthene	6.75E+03	*	6.81E+03	*	8.82E+03	*	1.37E+04	*	2.10E+04	*	4.20E+04	*	7.16E+04	*	1.10E+05	*	4.27E+05	*
Chrysene	2.18E+04	*	2.20E+04	*	2.85E+04	*	4.43E+04	*	6.78E+04	*	1.36E+05	*	2.32E+05	*	3.55E+05	*	1.38E+06	*
Dibenzo(a,h)anthracene	2.08E+02	*	2.10E+02	*	2.73E+02	*	4.23E+02	*	6.47E+02	*	1.30E+03	*	2.21E+03	*	3.39E+03	*	1.32E+04	*
Fluoranthene	3.99E+04	*	4.02E+04	*	5.21E+04	*	8.10E+04	*	1.24E+05	*	2.48E+05	*	4.23E+05	*	6.49E+05	*	2.53E+06	*
Fluorene	1.09E+03	*	1.09E+03	*	1.42E+03	*	2.20E+03	*	3.37E+03	*	6.76E+03	*	1.15E+04	*	1.77E+04	*	6.88E+04	*
Napthalene	4.27E+00	*	4.31E+00	*	5.59E+00	*	8.68E+00	*	1.33E+01	*	2.66E+01	*	4.54E+01	*	6.95E+01	*	2.71E+02	*
Pyrene	2.93E+04	*	2.96E+04	*	3.84E+04	*	5.96E+04	*	9.11E+04	*	1.83E+05	*	3.12E+05	*	4.77E+05	*	1.86E+06	*
TPH-GRO	7.01E+04		7.07E+04		9.16E+04		1.42E+05		2.18E+05		4.36E+05		7.44E+05		1.14E+06		4.44E+06	
TPH-DRO	1.18E+10		1.19E+10		1.54E+10		2.39E+10		3.65E+10		7.32E+10		1.25E+11		1.91E+11		7.45E+11	
TPH-ORO	1.18E+10		1.19E+10		1.54E+10		2.39E+10		3.65E+10		7.32E+10		1.25E+11		1.91E+11		7.45E+11	
>C6 - C8 (Aliphatics)	5.62E+04	*	5.67E+04	*	7.35E+04	*	1.14E+05	*	1.74E+05	*	3.50E+05	*	5.96E+05	*	9.14E+05	*	3.56E+06	*
>C8 - C10 (Aliphatics)	1.37E+04	*	1.38E+04	*	1.79E+04	*	2.79E+04	*	4.26E+04	*	8.55E+04	*	1.46E+05	*	2.23E+05	*	8.69E+05	*
>C10 - C12 (Aliphatics)	1.03E+05	*	1.04E+05	*	1.34E+05	*	2.09E+05	*	3.19E+05	*	6.40E+05	*	1.09E+06	*	1.67E+06	*	6.51E+06	*
>C12 - C16 (Aliphatics)	4.68E+06	*	4.72E+06	*	6.12E+06	*	9.51E+06	*	1.45E+07	*	2.92E+07	*	4.97E+07	*	7.62E+07	*	2.97E+08	*
>C16 - C21 (Aliphatics)	1.18E+10	*	1.19E+10	*	1.54E+10	*	2.39E+10	*	3.65E+10	*	7.32E+10	*	1.25E+11	*	1.91E+11	*	7.45E+11	*
>C21 - C35 (Aliphatics)	1.18E+10	*	1.19E+10	*	1.54E+10	*	2.39E+10	*	3.65E+10	*	7.32E+10	*	1.25E+11	*	1.91E+11	*	7.45E+11	*
>C8 - C10 (Aromatics)	1.66E+02		1.67E+02		2.17E+02		3.37E+02		5.15E+02		1.03E+03	*	1.76E+03	*	2.70E+03	*	1.05E+04	*
>C10 - C12 (Aromatics)	2.61E+02		2.63E+02		3.41E+02		5.30E+02	*	8.10E+02	*	1.62E+03	*	2.77E+03	*	4.24E+03	*	1.65E+04	*
>C12 - C16 (Aromatics)	5.18E+02	*	5.22E+02	*	6.77E+02	*	1.05E+03	*	1.61E+03	*	3.22E+03	*	5.49E+03	*	8.42E+03	*	3.28E+04	*
>C16 - C21 (Aromatics)	4.43E+03	*	4.47E+03	*	5.80E+03	*	9.00E+03	*	1.38E+04	*	2.76E+04	*	4.70E+04	*	7.21E+04	*	2.81E+05	*
>C21 - C35 (Aromatics)	3.52E+04	*	3.55E+04	*	4.60E+04	*	7.14E+04	*	1.09E+05	*	2.19E+05	*	3.73E+05	*	5.72E+05	*	2.23E+06	*
Tertiary-amyl-methyl-ether (TAME)	2.40E+01		2.42E+01		3.14E+01		4.88E+01		7.46E+01		1.50E+02		2.55E+02		3.91E+02		1.52E+03	
Tertiary-butyl- alcohol (TBA)	3.95E+00		3.99E+00		5.17E+00		8.03E+00		1.23E+01		2.46E+01		4.20E+01		6.43E+01		2.51E+02	
Ethyl-tert-butyl-ether (ETBE)	5.27E-01		5.32E-01		6.89E-01		1.07E+00		1.64E+00		3.28E+00		5.59E+00		8.57E+00		3.34E+01	
Diisopropyl ether (DIPE)	3.56E+01		3.60E+01		4.66E+01		7.24E+01		1.11E+02		2.22E+02		3.78E+02		5.80E+02		2.26E+03	*
Ethanol	2.70E+01		2.73E+01		3.53E+01		5.49E+01		8.39E+01		1.68E+02		2.87E+02		4.40E+02		1.71E+03	
Methanol	4.94E+00		4.98E+00		6.46E+00		1.00E+01		1.53E+01		3.08E+01		5.24E+01		8.04E+01		3.13E+02	
Arsenic	2.50E+01		2.53E+01		3.27E+01		5.09E+01		7.78E+01		1.56E+02		2.66E+02		4.07E+02		1.59E+03	
Barium	2.20E+03		2.22E+03		2.88E+03		4.47E+03		6.83E+03		1.37E+04		2.34E+04		3.58E+04		1.39E+05	
Cadmium	7.56E+00		7.63E+00		9.89E+00		1.54E+01		2.35E+01		4.71E+01		8.03E+01		1.23E+02		4.79E+02	
Chromium III	2.80E+06		2.82E+06		3.66E+06		5.69E+06		8.70E+06		1.74E+07		2.97E+07		4.55E+07		1.77E+08	
Chromium VI	8.90E+01		8.98E+01		1.16E+02		1.81E+02		2.76E+02		5.54E+02		9.45E+02		1.45E+03		5.64E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	1.79E+01		1.81E+01		2.35E+01		3.64E+01		5.57E+01		1.12E+02		1.90E+02		2.92E+02		1.14E+03	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-6(a)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 3
Distance to Groundwater <20 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	6.55E-02		6.61E-02		8.57E-02		1.33E-01		2.04E-01		4.08E-01		6.96E-01		1.07E+00		4.15E+00	
Toluene	3.16E+01		3.19E+01		4.13E+01		6.42E+01	*	9.81E+01	*	1.97E+02	*	3.35E+02	*	5.14E+02	*	2.00E+03	*
Ethylbenzene	4.11E+01	*	4.15E+01	*	5.38E+01	*	8.35E+01	*	1.28E+02	*	2.56E+02	*	4.37E+02	*	6.69E+02	*	2.61E+03	*
Xylenes (mixed)	6.52E+02	*	6.58E+02	*	8.53E+02	*	1.32E+03	*	2.03E+03	*	4.06E+03	*	6.92E+03	*	1.06E+04	*	4.13E+04	*
Ethylene Dibromide (EDB)	5.79E-04		5.84E-04		7.57E-04		1.18E-03		1.80E-03		3.61E-03		6.15E-03		9.42E-03		3.67E-02	
Ethylene Dichloride (EDC)	9.58E-03		9.67E-03		1.25E-02		1.95E-02		2.98E-02		5.97E-02		1.02E-01		1.56E-01		6.07E-01	
Methyl-tert-butyl-ether(MTBE)	7.63E-01		7.70E-01		9.98E-01		1.55E+00		2.37E+00		4.75E+00		8.10E+00		1.24E+01		4.83E+01	
Acenaphthene	2.09E+02	*	2.11E+02	*	2.74E+02	*	4.25E+02	*	6.50E+02	*	1.30E+03	*	2.22E+03	*	3.40E+03	*	1.33E+04	*
Anthracene	4.35E+03	*	4.39E+03	*	5.69E+03	*	8.83E+03	*	1.35E+04	*	2.71E+04	*	4.62E+04	*	7.07E+04	*	2.75E+05	*
Benzo(a)anthracene	5.46E+01	*	5.51E+01	*	7.14E+01	*	1.11E+02	*	1.69E+02	*	3.40E+02	*	5.79E+02	*	8.88E+02	*	3.46E+03	*
Benzo(a)pyrene	3.04E+01	*	3.06E+01	*	3.97E+01	*	6.17E+01	*	9.43E+01	*	1.89E+02	*	3.22E+02	*	4.94E+02	*	1.92E+03	*
Benzo(b)fluoranthene	1.69E+02	*	1.70E+02	*	2.21E+02	*	3.43E+02	*	5.24E+02	*	1.05E+03	*	1.79E+03	*	2.74E+03	*	1.07E+04	*
Benzo(k)fluoranthene	1.69E+03	*	1.70E+03	*	2.21E+03	*	3.43E+03	*	5.24E+03	*	1.05E+04	*	1.79E+04	*	2.74E+04	*	1.07E+05	*
Chrysene	5.46E+03	*	5.51E+03	*	7.14E+03	*	1.11E+04	*	1.69E+04	*	3.40E+04	*	5.79E+04	*	8.88E+04	*	3.46E+05	*
Dibenzo(a,h)anthracene	5.21E+01		5.26E+01		6.81E+01	*	1.06E+02	*	1.62E+02	*	3.24E+02	*	5.53E+02	*	8.47E+02	*	3.30E+03	*
Fluoranthene	9.97E+03	*	1.01E+04	*	1.30E+04	*	2.02E+04	*	3.10E+04	*	6.21E+04	*	1.06E+05	*	1.62E+05	*	6.32E+05	*
Fluorene	2.71E+02	*	2.74E+02	*	3.55E+02	*	5.51E+02	*	8.43E+02	*	1.69E+03	*	2.88E+03	*	4.41E+03	*	1.72E+04	*
Napthalene	1.07E+00	*	1.08E+00	*	1.40E+00	*	2.17E+00	*	3.32E+00	*	6.66E+00	*	1.14E+01	*	1.74E+01	*	6.78E+01	*
Pyrene	7.34E+03	*	7.40E+03	*	9.59E+03	*	1.49E+04	*	2.28E+04	*	4.57E+04	*	7.79E+04	*	1.19E+05	*	4.65E+05	*
TPH-GRO	1.69E+04		1.71E+04		2.21E+04		3.44E+04		5.26E+04		1.05E+05		1.80E+05		2.75E+05		1.07E+06	
TPH-DRO	2.94E+09		2.97E+09		3.84E+09		5.97E+09		9.13E+09		1.83E+10		3.12E+10		4.78E+10		1.86E+11	
TPH-ORO	2.94E+09		2.96E+09		3.84E+09		5.97E+09		9.13E+09		1.83E+10		3.12E+10		4.78E+10		1.86E+11	
>C6 - C8 (Aliphatics)	1.35E+04	*	1.36E+04	*	1.76E+04	*	2.74E+04	*	4.19E+04	*	8.40E+04	*	1.43E+05	*	2.19E+05	*	8.55E+05	*
>C8 - C10 (Aliphatics)	3.40E+03	*	3.43E+03	*	4.44E+03	*	6.90E+03	*	1.05E+04	*	2.11E+04	*	3.60E+04	*	5.52E+04	*	2.15E+05	*
>C10 - C12 (Aliphatics)	2.56E+04	*	2.59E+04	*	3.35E+04	*	5.21E+04	*	7.96E+04	*	1.60E+05	*	2.72E+05	*	4.17E+05	*	1.62E+06	*
>C12 - C16 (Aliphatics)	1.17E+06	*	1.18E+06	*	1.53E+06	*	2.38E+06	*	3.63E+06	*	7.29E+06	*	1.24E+07	*	1.90E+07	*	7.41E+07	*
>C16 - C21 (Aliphatics)	2.94E+09	*	2.96E+09	*	3.84E+09	*	5.97E+09	*	9.13E+09	*	1.83E+10	*	3.12E+10	*	4.78E+10	*	1.86E+11	*
>C21 - C35 (Aliphatics)	2.94E+09	*	2.96E+09	*	3.84E+09	*	5.97E+09	*	9.13E+09	*	1.83E+10	*	3.12E+10	*	4.78E+10	*	1.86E+11	*
>C8 - C10 (Aromatics)	4.15E+01		4.19E+01		5.43E+01		8.44E+01		1.29E+02		2.59E+02		4.41E+02		6.76E+02	*	2.63E+03	*
>C10 - C12 (Aromatics)	6.53E+01		6.59E+01		8.54E+01		1.33E+02		2.03E+02		4.07E+02	*	6.93E+02	*	1.06E+03	*	4.14E+03	*
>C12 - C16 (Aromatics)	1.29E+02		1.31E+02		1.69E+02		2.63E+02	*	4.02E+02	*	8.06E+02	*	1.37E+03	*	2.11E+03	*	8.20E+03	*
>C16 - C21 (Aromatics)	1.11E+03	*	1.12E+03	*	1.45E+03	*	2.25E+03	*	3.44E+03	*	6.90E+03	*	1.18E+04	*	1.80E+04	*	7.02E+04	*
>C21 - C35 (Aromatics)	8.79E+03	*	8.87E+03	*	1.15E+04	*	1.79E+04	*	2.73E+04	*	5.47E+04	*	9.33E+04	*	1.43E+05	*	5.57E+05	*
Tertiary-amyl-methyl-ether (TAME)	6.37E+00		6.42E+00		8.32E+00		1.29E+01		1.98E+01		3.96E+01		6.76E+01		1.04E+02		4.03E+02	
Tertiary-butyl- alcohol (TBA)	1.18E+00		1.19E+00		1.54E+00		2.39E+00		3.66E+00		7.33E+00		1.25E+01		1.91E+01		7.46E+01	
Ethyl-tert-butyl-ether (ETBE)	1.41E-01		1.42E-01		1.84E-01		2.86E-01		4.37E-01		8.76E-01		1.49E+00		2.29E+00		8.91E+00	
Diisopropyl ether (DIPE)	9.28E+00		9.37E+00		1.21E+01		1.89E+01		2.88E+01		5.78E+01		9.86E+01		1.51E+02		5.88E+02	
Ethanol	8.25E+00		8.32E+00		1.08E+01		1.68E+01		2.56E+01		5.14E+01		8.76E+01		1.34E+02		5.23E+02	
Methanol	1.43E+00		1.44E+00		1.87E+00		2.91E+00		4.45E+00		8.92E+00		1.52E+01		2.33E+01		9.07E+01	
Arsenic	6.27E+00		6.32E+00		8.20E+00		1.27E+01		1.95E+01		3.90E+01		6.65E+01		1.02E+02		3.97E+02	
Barium	5.51E+02		5.56E+02		7.21E+02		1.12E+03		1.71E+03		3.43E+03		5.85E+03		8.97E+03		3.49E+04	
Cadmium	1.89E+00		1.91E+00		2.48E+00		3.85E+00		5.88E+00		1.18E+01		2.01E+01		3.08E+01		1.20E+02	
Chromium III	7.00E+05		7.06E+05		9.15E+05		1.42E+06		2.17E+06		4.36E+06		7.43E+06		1.14E+07		4.44E+07	
Chromium VI	2.23E+01		2.25E+01		2.91E+01		4.53E+01		6.92E+01		1.39E+02		2.37E+02		3.62E+02		1.41E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	4.53E+00		4.58E+00		5.93E+00		9.21E+00		1.41E+01		2.82E+01		4.81E+01		7.38E+01		2.87E+02	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-6(b)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 3
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.31E-01		1.32E-01		1.71E-01		2.66E-01		4.07E-01		8.16E-01		1.39E+00		2.13E+00		8.31E+00	
Toluene	6.32E+01	*	6.38E+01	*	8.26E+01	*	1.28E+02	*	1.96E+02	*	3.94E+02	*	6.71E+02	*	1.03E+03	*	4.00E+03	*
Ethylbenzene	8.22E+01	*	8.30E+01	*	1.08E+02	*	1.67E+02	*	2.55E+02	*	5.12E+02	*	8.73E+02	*	1.34E+03	*	5.21E+03	*
Xylenes (mixed)	1.30E+03	*	1.32E+03	*	1.71E+03	*	2.65E+03	*	4.05E+03	*	8.12E+03	*	1.38E+04	*	2.12E+04	*	8.26E+04	*
Ethylene Dibromide (EDB)	1.16E-03		1.17E-03		1.51E-03		2.35E-03		3.60E-03		7.21E-03		1.23E-02		1.88E-02		7.34E-02	
Ethylene Dichloride (EDC)	1.92E-02		1.93E-02		2.51E-02		3.89E-02		5.95E-02		1.19E-01		2.03E-01		3.12E-01		1.21E+00	
Methyl-tert-butyl-ether(MTBE)	1.53E+00		1.54E+00		2.00E+00		3.10E+00		4.74E+00		9.50E+00		1.62E+01		2.48E+01		9.67E+01	
Acenaphthene	4.18E+02	*	4.22E+02	*	5.47E+02	*	8.50E+02	*	1.30E+03	*	2.61E+03	*	4.44E+03	*	6.81E+03	*	2.65E+04	*
Anthracene	8.69E+03	*	8.77E+03	*	1.14E+04	*	1.77E+04	*	2.70E+04	*	5.41E+04	*	9.23E+04	*	1.41E+05	*	5.51E+05	*
Benzo(a)anthracene	1.09E+02	*	1.10E+02	*	1.43E+02	*	2.22E+02	*	3.39E+02	*	6.80E+02	*	1.16E+03	*	1.78E+03	*	6.92E+03	*
Benzo(a)pyrene	6.07E+01	*	6.13E+01	*	7.94E+01	*	1.23E+02	*	1.89E+02	*	3.78E+02	*	6.45E+02	*	9.88E+02	*	3.85E+03	*
Benzo(b)fluoranthene	3.37E+02	*	3.40E+02	*	4.41E+02	*	6.85E+02	*	1.05E+03	*	2.10E+03	*	3.58E+03	*	5.49E+03	*	2.14E+04	*
Benzo(k)fluoranthene	3.37E+03	*	3.40E+03	*	4.41E+03	*	6.85E+03	*	1.05E+04	*	2.10E+04	*	3.58E+04	*	5.49E+04	*	2.14E+05	*
Chrysene	1.09E+04	*	1.10E+04	*	1.43E+04	*	2.22E+04	*	3.39E+04	*	6.80E+04	*	1.16E+05	*	1.78E+05	*	6.92E+05	*
Dibenzo(a,h)anthracene	1.04E+02	*	1.05E+02	*	1.36E+02	*	2.12E+02	*	3.24E+02	*	6.49E+02	*	1.11E+03	*	1.69E+03	*	6.60E+03	*
Fluoranthene	1.99E+04	*	2.01E+04	*	2.61E+04	*	4.05E+04	*	6.19E+04	*	1.24E+05	*	2.12E+05	*	3.24E+05	*	1.26E+06	*
Fluorene	5.43E+02	*	5.48E+02	*	7.10E+02	*	1.10E+03	*	1.69E+03	*	3.38E+03	*	5.76E+03	*	8.83E+03	*	3.44E+04	*
Napthalene	2.14E+00	*	2.16E+00	*	2.80E+00	*	4.35E+00	*	6.65E+00	*	1.33E+01	*	2.27E+01	*	3.48E+01	*	1.36E+02	*
Pyrene	1.47E+04	*	1.48E+04	*	1.92E+04	*	2.98E+04	*	4.56E+04	*	9.14E+04	*	1.56E+05	*	2.39E+05	*	9.30E+05	*
TPH-GRO	3.38E+04		3.41E+04		4.43E+04		6.88E+04		1.05E+05		2.11E+05		3.59E+05		5.51E+05		2.14E+06	
TPH-DRO	5.88E+09		5.93E+09		7.69E+09		1.19E+10		1.83E+10		3.66E+10		6.24E+10		9.56E+10		3.73E+11	
TPH-ORO	5.88E+09		5.93E+09		7.69E+09		1.19E+10		1.83E+10		3.66E+10		6.24E+10		9.56E+10		3.72E+11	
>C6 - C8 (Aliphatics)	2.70E+04	*	2.72E+04	*	3.53E+04	*	5.48E+04	*	8.38E+04	*	1.68E+05	*	2.86E+05	*	4.39E+05	*	1.71E+06	*
>C8 - C10 (Aliphatics)	6.79E+03	*	6.85E+03	*	8.88E+03	*	1.38E+04	*	2.11E+04	*	4.23E+04	*	7.21E+04	*	1.10E+05	*	4.30E+05	*
>C10 - C12 (Aliphatics)	5.13E+04	*	5.17E+04	*	6.70E+04	*	1.04E+05	*	1.59E+05	*	3.19E+05	*	5.44E+05	*	8.34E+05	*	3.25E+06	*
>C12 - C16 (Aliphatics)	2.34E+06	*	2.36E+06	*	3.06E+06	*	4.75E+06	*	7.27E+06	*	1.46E+07	*	2.48E+07	*	3.81E+07	*	1.48E+08	*
>C16 - C21 (Aliphatics)	5.88E+09	*	5.93E+09	*	7.69E+09	*	1.19E+10	*	1.83E+10	*	3.66E+10	*	6.24E+10	*	9.56E+10	*	3.72E+11	*
>C21 - C35 (Aliphatics)	5.88E+09	*	5.93E+09	*	7.69E+09	*	1.19E+10	*	1.83E+10	*	3.66E+10	*	6.24E+10	*	9.56E+10	*	3.72E+11	*
>C8 - C10 (Aromatics)	8.31E+01		8.38E+01		1.09E+02		1.69E+02		2.58E+02		5.17E+02		8.82E+02	*	1.35E+03	*	5.26E+03	*
>C10 - C12 (Aromatics)	1.31E+02		1.32E+02		1.71E+02		2.65E+02		4.05E+02	*	8.13E+02	*	1.39E+03	*	2.12E+03	*	8.27E+03	*
>C12 - C16 (Aromatics)	2.59E+02	*	2.61E+02	*	3.39E+02	*	5.26E+02	*	8.04E+02	*	1.61E+03	*	2.75E+03	*	4.21E+03	*	1.64E+04	*
>C16 - C21 (Aromatics)	2.22E+03	*	2.24E+03	*	2.90E+03	*	4.50E+03	*	6.88E+03	*	1.38E+04	*	2.35E+04	*	3.61E+04	*	1.40E+05	*
>C21 - C35 (Aromatics)	1.76E+04	*	1.77E+04	*	2.30E+04	*	3.57E+04	*	5.46E+04	*	1.09E+05	*	1.87E+05	*	2.86E+05	*	1.11E+06	*
Tertiary-amyl-methyl-ether (TAME)	1.27E+01		1.28E+01		1.66E+01		2.59E+01		3.95E+01		7.93E+01		1.35E+02		2.07E+02		8.07E+02	
Tertiary-butyl- alcohol (TBA)	2.35E+00		2.38E+00		3.08E+00		4.78E+00		7.31E+00		1.47E+01		2.50E+01		3.83E+01		1.49E+02	
Ethyl-tert-butyl-ether (ETBE)	2.81E-01		2.84E-01		3.68E-01		5.71E-01		8.74E-01		1.75E+00		2.99E+00		4.58E+00		1.78E+01	
Diisopropyl ether (DIPE)	1.86E+01		1.87E+01		2.43E+01		3.77E+01		5.77E+01		1.16E+02		1.97E+02		3.02E+02		1.18E+03	
Ethanol	1.65E+01		1.66E+01		2.16E+01		3.35E+01		5.12E+01		1.03E+02		1.75E+02		2.68E+02		1.05E+03	
Methanol	2.86E+00		2.89E+00		3.74E+00		5.82E+00		8.89E+00		1.78E+01		3.04E+01		4.66E+01		1.81E+02	
Arsenic	1.25E+01		1.26E+01		1.64E+01		2.55E+01		3.89E+01		7.81E+01		1.33E+02		2.04E+02		7.94E+02	
Barium	1.10E+03		1.11E+03		1.44E+03		2.24E+03		3.42E+03		6.87E+03		1.17E+04		1.79E+04		6.99E+04	
Cadmium	3.79E+00		3.82E+00		4.95E+00		7.70E+00		1.18E+01		2.36E+01		4.02E+01		6.16E+01		2.40E+02	
Chromium III	1.40E+06		1.41E+06		1.83E+06		2.84E+06		4.35E+06		8.72E+06		1.49E+07		2.28E+07		8.87E+07	
Chromium VI	4.46E+01		4.50E+01		5.83E+01		9.05E+01		1.38E+02		2.78E+02		4.73E+02		7.25E+02		2.82E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	9.07E+00		9.15E+00		1.19E+01		1.84E+01		2.82E+01		5.65E+01		9.63E+01		1.48E+02		5.75E+02	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-6(c)
Soil Concentration Protective of Groundwater for Different Distances to POE for Soil Type 3
Distance to Groundwater >50 ft

Chemical	Distance to POE (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.62E-01		2.64E-01		3.43E-01		5.33E-01		8.14E-01		1.63E+00		2.78E+00		4.26E+00		1.66E+01	
Toluene	1.26E+02	*	1.28E+02	*	1.65E+02	*	2.57E+02	*	3.93E+02	*	7.87E+02	*	1.34E+03	*	2.06E+03	*	8.01E+03	*
Ethylbenzene	1.64E+02	*	1.66E+02	*	2.15E+02	*	3.34E+02	*	5.11E+02	*	1.02E+03	*	1.75E+03	*	2.68E+03	*	1.04E+04	*
Xylenes (mixed)	2.61E+03	*	2.63E+03	*	3.41E+03	*	5.30E+03	*	8.10E+03	*	1.62E+04	*	2.77E+04	*	4.24E+04	*	1.65E+05	*
Ethylene Dibromide (EDB)	2.32E-03		2.34E-03		3.03E-03		4.70E-03		7.19E-03		1.44E-02		2.46E-02		3.77E-02		1.47E-01	
Ethylene Dichloride (EDC)	3.83E-02		3.87E-02		5.01E-02		7.79E-02		1.19E-01		2.39E-01		4.07E-01		6.23E-01		2.43E+00	
Methyl-tert-butyl-ether(MTBE)	3.05E+00		3.08E+00		3.99E+00		6.20E+00		9.48E+00		1.90E+01		3.24E+01		4.96E+01		1.93E+02	
Acenaphthene	8.37E+02	*	8.44E+02	*	1.09E+03	*	1.70E+03	*	2.60E+03	*	5.21E+03	*	8.88E+03	*	1.36E+04	*	5.30E+04	*
Anthracene	1.74E+04	*	1.75E+04	*	2.27E+04	*	3.53E+04	*	5.40E+04	*	1.08E+05	*	1.85E+05	*	2.83E+05	*	1.10E+06	*
Benzo(a)anthracene	2.18E+02	*	2.20E+02	*	2.85E+02	*	4.43E+02	*	6.78E+02	*	1.36E+03	*	2.32E+03	*	3.55E+03	*	1.38E+04	*
Benzo(a)pyrene	1.21E+02	*	1.23E+02	*	1.59E+02	*	2.47E+02	*	3.77E+02	*	7.56E+02	*	1.29E+03	*	1.98E+03	*	7.70E+03	*
Benzo(b)fluoranthene	6.75E+02	*	6.81E+02	*	8.82E+02	*	1.37E+03	*	2.10E+03	*	4.20E+03	*	7.16E+03	*	1.10E+04	*	4.27E+04	*
Benzo(k)fluoranthene	6.75E+03	*	6.81E+03	*	8.82E+03	*	1.37E+04	*	2.10E+04	*	4.20E+04	*	7.16E+04	*	1.10E+05	*	4.27E+05	*
Chrysene	2.18E+04	*	2.20E+04	*	2.85E+04	*	4.43E+04	*	6.78E+04	*	1.36E+05	*	2.32E+05	*	3.55E+05	*	1.38E+06	*
Dibenzo(a,h)anthracene	2.08E+02	*	2.10E+02	*	2.73E+02	*	4.23E+02	*	6.47E+02	*	1.30E+03	*	2.21E+03	*	3.39E+03	*	1.32E+04	*
Fluoranthene	3.99E+04	*	4.02E+04	*	5.21E+04	*	8.10E+04	*	1.24E+05	*	2.48E+05	*	4.23E+05	*	6.49E+05	*	2.53E+06	*
Fluorene	1.09E+03	*	1.10E+03	*	1.42E+03	*	2.21E+03	*	3.37E+03	*	6.76E+03	*	1.15E+04	*	1.77E+04	*	6.88E+04	*
Napthalene	4.28E+00	*	4.32E+00	*	5.60E+00	*	8.70E+00	*	1.33E+01	*	2.67E+01	*	4.54E+01	*	6.96E+01	*	2.71E+02	*
Pyrene	2.93E+04	*	2.96E+04	*	3.84E+04	*	5.96E+04	*	9.11E+04	*	1.83E+05	*	3.12E+05	*	4.77E+05	*	1.86E+06	*
TPH-GRO	6.77E+04		6.83E+04		8.85E+04		1.38E+05		2.10E+05		4.22E+05		7.19E+05		1.10E+06		4.29E+06	
TPH-DRO	1.18E+10		1.19E+10		1.54E+10		2.39E+10		3.65E+10		7.32E+10		1.25E+11		1.91E+11		7.45E+11	
TPH-ORO	1.18E+10		1.19E+10		1.54E+10		2.39E+10		3.65E+10		7.32E+10		1.25E+11		1.91E+11		7.45E+11	
>C6 - C8 (Aliphatics)	5.39E+04	*	5.44E+04	*	7.06E+04	*	1.10E+05	*	1.68E+05	*	3.36E+05	*	5.73E+05	*	8.78E+05	*	3.42E+06	*
>C8 - C10 (Aliphatics)	1.36E+04	*	1.37E+04	*	1.78E+04	*	2.76E+04	*	4.22E+04	*	8.46E+04	*	1.44E+05	*	2.21E+05	*	8.60E+05	*
>C10 - C12 (Aliphatics)	1.03E+05	*	1.03E+05	*	1.34E+05	*	2.08E+05	*	3.18E+05	*	6.39E+05	*	1.09E+06	*	1.67E+06	*	6.50E+06	*
>C12 - C16 (Aliphatics)	4.68E+06	*	4.72E+06	*	6.12E+06	*	9.51E+06	*	1.45E+07	*	2.91E+07	*	4.97E+07	*	7.61E+07	*	2.97E+08	*
>C16 - C21 (Aliphatics)	1.18E+10	*	1.19E+10	*	1.54E+10	*	2.39E+10	*	3.65E+10	*	7.32E+10	*	1.25E+11	*	1.91E+11	*	7.45E+11	*
>C21 - C35 (Aliphatics)	1.18E+10	*	1.19E+10	*	1.54E+10	*	2.39E+10	*	3.65E+10	*	7.32E+10	*	1.25E+11	*	1.91E+11	*	7.45E+11	*
>C8 - C10 (Aromatics)	1.66E+02		1.68E+02		2.17E+02		3.37E+02		5.16E+02		1.03E+03	*	1.76E+03	*	2.70E+03	*	1.05E+04	*
>C10 - C12 (Aromatics)	2.61E+02		2.63E+02		3.41E+02		5.30E+02	*	8.11E+02	*	1.63E+03	*	2.77E+03	*	4.25E+03	*	1.65E+04	*
>C12 - C16 (Aromatics)	5.18E+02	*	5.23E+02	*	6.77E+02	*	1.05E+03	*	1.61E+03	*	3.23E+03	*	5.50E+03	*	8.43E+03	*	3.28E+04	*
>C16 - C21 (Aromatics)	4.43E+03	*	4.47E+03	*	5.80E+03	*	9.00E+03	*	1.38E+04	*	2.76E+04	*	4.71E+04	*	7.21E+04	*	2.81E+05	*
>C21 - C35 (Aromatics)	3.52E+04	*	3.55E+04	*	4.60E+04	*	7.14E+04	*	1.09E+05	*	2.19E+05	*	3.73E+05	*	5.72E+05	*	2.23E+06	*
Tertiary-amyl-methyl-ether (TAME)	2.55E+01		2.57E+01		3.33E+01		5.17E+01		7.91E+01		1.59E+02		2.70E+02		4.14E+02		1.61E+03	
Tertiary-butyl- alcohol (TBA)	4.71E+00		4.75E+00		6.16E+00		9.56E+00		1.46E+01		2.93E+01		5.00E+01		7.66E+01		2.98E+02	
Ethyl-tert-butyl-ether (ETBE)	5.63E-01		5.68E-01		7.36E-01		1.14E+00		1.75E+00		3.50E+00		5.97E+00		9.15E+00		3.57E+01	
Diisopropyl ether (DIPE)	3.71E+01		3.75E+01		4.86E+01		7.54E+01		1.15E+02		2.31E+02		3.94E+02		6.04E+02		2.35E+03	*
Ethanol	3.30E+01		3.33E+01		4.32E+01		6.70E+01		1.02E+02		2.05E+02		3.50E+02		5.37E+02		2.09E+03	
Methanol	5.73E+00		5.78E+00		7.49E+00		1.16E+01		1.78E+01		3.57E+01		6.08E+01		9.32E+01		3.63E+02	
Arsenic	2.51E+01		2.53E+01		3.28E+01		5.09E+01		7.79E+01		1.56E+02		2.66E+02		4.08E+02		1.59E+03	
Barium	2.21E+03		2.22E+03		2.88E+03		4.48E+03		6.85E+03		1.37E+04		2.34E+04		3.59E+04		1.40E+05	
Cadmium	7.58E+00		7.64E+00		9.91E+00		1.54E+01		2.35E+01		4.72E+01		8.04E+01		1.23E+02		4.80E+02	
Chromium III	2.80E+06		2.82E+06		3.66E+06		5.69E+06		8.70E+06		1.74E+07		2.97E+07		4.55E+07		1.77E+08	
Chromium VI	8.91E+01		8.99E+01		1.17E+02		1.81E+02		2.77E+02		5.55E+02		9.46E+02		1.45E+03		5.65E+03	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	1.81E+01		1.83E+01		2.37E+01		3.68E+01		5.63E+01		1.13E+02		1.93E+02		2.95E+02		1.15E+03	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-7(a)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 1 for Resident
Distance to Groundwater <20 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	6.97E+00		7.03E+00		9.11E+00		1.41E+01		2.16E+01	*	4.34E+01	*	7.40E+01	*	1.13E+02	*	4.41E+02	*
Toluene	1.23E+03	*	1.24E+03	*	1.61E+03	*	2.51E+03	*	3.83E+03	*	7.68E+03	*	1.31E+04	*	2.01E+04	*	7.82E+04	*
Ethylbenzene	5.81E+03	*	5.86E+03	*	7.59E+03	*	1.18E+04	*	1.80E+04	*	3.62E+04	*	6.16E+04	*	9.44E+04	*	3.68E+05	*
Xylenes (mixed)	5.16E+03	*	5.21E+03	*	6.75E+03	*	1.05E+04	*	1.60E+04	*	3.21E+04	*	5.48E+04	*	8.39E+04	*	3.27E+05	*
Ethylene Dibromide (EDB)	5.95E+00		6.00E+00		7.78E+00		1.21E+01		1.85E+01		3.70E+01		6.32E+01		9.68E+01		3.77E+02	
Ethylene Dichloride (EDC)	3.63E+00		3.67E+00		4.75E+00		7.38E+00		1.13E+01		2.26E+01		3.86E+01		5.91E+01		2.30E+02	
Methyl-tert-butyl-ether(MTBE)	1.46E+03		1.47E+03		1.91E+03		2.97E+03		4.54E+03		9.10E+03	*	1.55E+04	*	2.38E+04	*	9.26E+04	*
Acenaphthene	1.70E+06	*	1.71E+06	*	2.22E+06	*	3.45E+06	*	5.27E+06	*	1.06E+07	*	1.80E+07	*	2.76E+07	*	1.07E+08	*
Anthracene	1.00E+07	*	1.01E+07	*	1.31E+07	*	2.04E+07	*	3.12E+07	*	6.26E+07	*	1.07E+08	*	1.63E+08	*	6.36E+08	*
Benzo(a)anthracene	8.23E+06	*	8.31E+06	*	1.08E+07	*	1.67E+07	*	2.56E+07	*	5.13E+07	*	8.74E+07	*	1.34E+08	*	5.22E+08	*
Benzo(a)pyrene	3.63E+06	*	3.66E+06	*	4.74E+06	*	7.37E+06	*	1.13E+07	*	2.26E+07	*	3.85E+07	*	5.90E+07	*	2.30E+08	*
Benzo(b)fluoranthene	1.76E+06	*	1.78E+06	*	2.30E+06	*	3.58E+06	*	5.47E+06	*	1.10E+07	*	1.87E+07	*	2.87E+07	*	1.12E+08	*
Benzo(k)fluoranthene	2.16E+09	*	2.18E+09	*	2.82E+09	*	4.38E+09	*	6.70E+09	*	1.34E+10	*	2.29E+10	*	3.51E+10	*	1.37E+11	*
Chrysene	6.09E+07	*	6.14E+07	*	7.96E+07	*	1.24E+08	*	1.89E+08	*	3.79E+08	*	6.46E+08	*	9.90E+08	*	3.86E+09	*
Dibenzo(a,h)anthracene	7.37E+08	*	7.44E+08	*	9.64E+08	*	1.50E+09	*	2.29E+09	*	4.59E+09	*	7.83E+09	*	1.20E+10	*	4.67E+10	*
Fluoranthene	2.27E+08	*	2.29E+08	*	2.97E+08	*	4.61E+08	*	7.05E+08	*	1.41E+09	*	2.41E+09	*	3.69E+09	*	1.44E+10	*
Fluorene	6.19E+06	*	6.25E+06	*	8.10E+06	*	1.26E+07	*	1.92E+07	*	3.86E+07	*	6.57E+07	*	1.01E+08	*	3.92E+08	*
Napthalene	1.61E+03	*	1.63E+03	*	2.11E+03	*	3.28E+03	*	5.01E+03	*	1.01E+04	*	1.71E+04	*	2.63E+04	*	1.02E+05	*
Pyrene	2.70E+08	*	2.73E+08	*	3.53E+08	*	5.49E+08	*	8.39E+08	*	1.68E+09	*	2.87E+09	*	4.40E+09	*	1.71E+10	*
TPH-GRO	1.25E+04		1.26E+04		1.64E+04		2.54E+04		3.89E+04		7.80E+04		1.33E+05		2.04E+05		7.94E+05	
TPH-DRO	1.22E+05		1.23E+05		1.59E+05		2.47E+05		3.78E+05		7.58E+05		1.29E+06		1.98E+06		7.72E+06	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	8.30E+03	*	8.38E+03	*	1.09E+04	*	1.69E+04	*	2.58E+04	*	5.17E+04	*	8.82E+04	*	1.35E+05	*	5.26E+05	*
>C8 - C10 (Aliphatics)	1.71E+03	*	1.73E+03	*	2.24E+03	*	3.48E+03	*	5.31E+03	*	1.07E+04	*	1.82E+04	*	2.78E+04	*	1.08E+05	*
>C10 - C12 (Aliphatics)	8.49E+03	*	8.57E+03	*	1.11E+04	*	1.72E+04	*	2.64E+04	*	5.29E+04	*	9.01E+04	*	1.38E+05	*	5.38E+05	*
>C12 - C16 (Aliphatics)	3.86E+04	*	3.90E+04	*	5.05E+04	*	7.85E+04	*	1.20E+05	*	2.41E+05	*	4.10E+05	*	6.28E+05	*	2.45E+06	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	2.51E+03	*	2.54E+03	*	3.29E+03	*	5.10E+03	*	7.81E+03	*	1.57E+04	*	2.67E+04	*	4.09E+04	*	1.59E+05	*
>C10 - C12 (Aromatics)	1.26E+04	*	1.27E+04	*	1.65E+04	*	2.56E+04	*	3.91E+04	*	7.84E+04	*	1.34E+05	*	2.05E+05	*	7.98E+05	*
>C12 - C16 (Aromatics)	6.21E+04	*	6.26E+04	*	8.12E+04	*	1.26E+05	*	1.93E+05	*	3.87E+05	*	6.59E+05	*	1.01E+06	*	3.93E+06	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	4.73E+03		4.78E+03		6.19E+03		9.62E+03		1.47E+04		2.95E+04	*	5.03E+04	*	7.70E+04	*	3.00E+05	*
Ethyl-tert-butyl-ether (ETBE)	7.28E+02		7.34E+02		9.52E+02		1.48E+03		2.26E+03	*	4.53E+03	*	7.72E+03	*	1.18E+04	*	4.61E+04	*
Diisopropyl ether (DIPE)	2.50E+03	*	2.52E+03	*	3.27E+03	*	5.08E+03	*	7.77E+03	*	1.56E+04	*	2.66E+04	*	4.07E+04	*	1.59E+05	*
Ethanol	1.82E+05	*	1.83E+05	*	2.37E+05	*	3.69E+05	*	5.64E+05	*	1.13E+06	*	1.93E+06	*	2.95E+06	*	1.15E+07	*
Methanol	4.97E+04		5.01E+04		6.50E+04		1.01E+05		1.54E+05	*	3.09E+05	*	5.28E+05	*	8.08E+05	*	3.15E+06	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-7(b)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 1 for Resident
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.39E+01		1.41E+01		1.82E+01		2.83E+01	*	4.33E+01	*	8.68E+01	*	1.48E+02	*	2.27E+02	*	8.83E+02	*
Toluene	2.47E+03	*	2.49E+03	*	3.23E+03	*	5.01E+03	*	7.66E+03	*	1.54E+04	*	2.62E+04	*	4.01E+04	*	1.56E+05	*
Ethylbenzene	1.16E+04	*	1.17E+04	*	1.52E+04	*	2.36E+04	*	3.61E+04	*	7.23E+04	*	1.23E+05	*	1.89E+05	*	7.36E+05	*
Xylenes (mixed)	1.03E+04	*	1.04E+04	*	1.35E+04	*	2.10E+04	*	3.21E+04	*	6.43E+04	*	1.10E+05	*	1.68E+05	*	6.54E+05	*
Ethylene Dibromide (EDB)	1.19E+01		1.20E+01		1.56E+01		2.42E+01		3.69E+01		7.41E+01		1.26E+02		1.94E+02		7.54E+02	
Ethylene Dichloride (EDC)	7.27E+00		7.33E+00		9.50E+00		1.48E+01		2.26E+01		4.52E+01		7.71E+01		1.18E+02		4.60E+02	
Methyl-tert-butyl-ether(MTBE)	2.92E+03		2.95E+03		3.82E+03		5.94E+03		9.08E+03	*	1.82E+04	*	3.10E+04	*	4.76E+04	*	1.85E+05	*
Acenaphthene	3.39E+06	*	3.42E+06	*	4.44E+06	*	6.89E+06	*	1.05E+07	*	2.11E+07	*	3.60E+07	*	5.52E+07	*	2.15E+08	*
Anthracene	2.01E+07	*	2.03E+07	*	2.63E+07	*	4.08E+07	*	6.24E+07	*	1.25E+08	*	2.13E+08	*	3.27E+08	*	1.27E+09	*
Benzo(a)anthracene	1.65E+07	*	1.66E+07	*	2.15E+07	*	3.35E+07	*	5.12E+07	*	1.03E+08	*	1.75E+08	*	2.68E+08	*	1.04E+09	*
Benzo(a)pyrene	7.26E+06	*	7.32E+06	*	9.49E+06	*	1.47E+07	*	2.25E+07	*	4.52E+07	*	7.70E+07	*	1.18E+08	*	4.60E+08	*
Benzo(b)fluoranthene	3.52E+06	*	3.55E+06	*	4.61E+06	*	7.16E+06	*	1.09E+07	*	2.19E+07	*	3.74E+07	*	5.73E+07	*	2.23E+08	*
Benzo(k)fluoranthene	4.32E+09	*	4.36E+09	*	5.65E+09	*	8.77E+09	*	1.34E+10	*	2.69E+10	*	4.58E+10	*	7.02E+10	*	2.74E+11	*
Chrysene	1.22E+08	*	1.23E+08	*	1.59E+08	*	2.47E+08	*	3.78E+08	*	7.58E+08	*	1.29E+09	*	1.98E+09	*	7.71E+09	*
Dibenzo(a,h)anthracene	1.47E+09	*	1.49E+09	*	1.93E+09	*	2.99E+09	*	4.58E+09	*	9.18E+09	*	1.57E+10	*	2.40E+10	*	9.34E+10	*
Fluoranthene	4.54E+08	*	4.58E+08	*	5.93E+08	*	9.22E+08	*	1.41E+09	*	2.83E+09	*	4.82E+09	*	7.38E+09	*	2.87E+10	*
Fluorene	1.24E+07	*	1.25E+07	*	1.62E+07	*	2.52E+07	*	3.85E+07	*	7.71E+07	*	1.31E+08	*	2.01E+08	*	7.85E+08	*
Napthalene	3.23E+03	*	3.26E+03	*	4.22E+03	*	6.56E+03	*	1.00E+04	*	2.01E+04	*	3.43E+04	*	5.25E+04	*	2.05E+05	*
Pyrene	5.41E+08	*	5.45E+08	*	7.07E+08	*	1.10E+09	*	1.68E+09	*	3.37E+09	*	5.74E+09	*	8.79E+09	*	3.43E+10	*
TPH-GRO	2.51E+04		2.53E+04		3.28E+04		5.09E+04		7.78E+04		1.56E+05		2.66E+05		4.08E+05		1.59E+06	
TPH-DRO	2.44E+05		2.46E+05		3.19E+05		4.95E+05		7.57E+05		1.52E+06		2.59E+06		3.96E+06		1.54E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	1.66E+04	*	1.68E+04	*	2.17E+04	*	3.37E+04	*	5.16E+04	*	1.03E+05	*	1.76E+05	*	2.70E+05	*	1.05E+06	*
>C8 - C10 (Aliphatics)	3.42E+03	*	3.45E+03	*	4.47E+03	*	6.95E+03	*	1.06E+04	*	2.13E+04	*	3.63E+04	*	5.57E+04	*	2.17E+05	*
>C10 - C12 (Aliphatics)	1.70E+04	*	1.71E+04	*	2.22E+04	*	3.45E+04	*	5.27E+04	*	1.06E+05	*	1.80E+05	*	2.76E+05	*	1.08E+06	*
>C12 - C16 (Aliphatics)	7.73E+04	*	7.79E+04	*	1.01E+05	*	1.57E+05	*	2.40E+05	*	4.81E+05	*	8.20E+05	*	1.26E+06	*	4.89E+06	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	5.03E+03	*	5.07E+03	*	6.57E+03	*	1.02E+04	*	1.56E+04	*	3.13E+04	*	5.34E+04	*	8.18E+04	*	3.18E+05	*
>C10 - C12 (Aromatics)	2.52E+04	*	2.54E+04	*	3.29E+04	*	5.11E+04	*	7.82E+04	*	1.57E+05	*	2.67E+05	*	4.10E+05	*	1.60E+06	*
>C12 - C16 (Aromatics)	1.24E+05	*	1.25E+05	*	1.62E+05	*	2.52E+05	*	3.86E+05	*	7.73E+05	*	1.32E+06	*	2.02E+06	*	7.87E+06	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	9.47E+03		9.55E+03		1.24E+04		1.92E+04	*	2.94E+04	*	5.90E+04	*	1.01E+05	*	1.54E+05	*	6.00E+05	*
Ethyl-tert-butyl-ether (ETBE)	1.46E+03		1.47E+03		1.90E+03	*	2.96E+03	*	4.52E+03	*	9.06E+03	*	1.54E+04	*	2.37E+04	*	9.22E+04	*
Diisopropyl ether (DIPE)	5.00E+03	*	5.05E+03	*	6.54E+03	*	1.02E+04	*	1.55E+04	*	3.12E+04	*	5.31E+04	*	8.14E+04	*	3.17E+05	*
Ethanol	3.63E+05	*	3.66E+05	*	4.75E+05	*	7.38E+05	*	1.13E+06	*	2.26E+06	*	3.85E+06	*	5.91E+06	*	2.30E+07	*
Methanol	9.94E+04		1.00E+05		1.30E+05	*	2.02E+05	*	3.09E+05	*	6.19E+05	*	1.06E+06	*	1.62E+06	*	6.30E+06	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-7(c)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 1 for Resident
Distance to Groundwater >50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.79E+01	*	2.81E+01	*	3.64E+01	*	5.66E+01	*	8.65E+01	*	1.74E+02	*	2.96E+02	*	4.53E+02	*	1.77E+03	*
Toluene	4.94E+03	*	4.98E+03	*	6.45E+03	*	1.00E+04	*	1.53E+04	*	3.07E+04	*	5.24E+04	*	8.03E+04	*	3.13E+05	*
Ethylbenzene	2.32E+04	*	2.34E+04	*	3.04E+04	*	4.72E+04	*	7.21E+04	*	1.45E+05	*	2.47E+05	*	3.78E+05	*	1.47E+06	*
Xylenes (mixed)	2.06E+04	*	2.08E+04	*	2.70E+04	*	4.19E+04	*	6.41E+04	*	1.29E+05	*	2.19E+05	*	3.36E+05	*	1.31E+06	*
Ethylene Dibromide (EDB)	2.38E+01		2.40E+01		3.11E+01		4.83E+01		7.39E+01		1.48E+02		2.53E+02		3.87E+02		1.51E+03	
Ethylene Dichloride (EDC)	1.45E+01		1.47E+01		1.90E+01		2.95E+01		4.51E+01		9.05E+01		1.54E+02		2.36E+02		9.21E+02	
Methyl-tert-butyl-ether(MTBE)	5.85E+03		5.90E+03		7.65E+03	*	1.19E+04	*	1.82E+04	*	3.64E+04	*	6.21E+04	*	9.51E+04	*	3.70E+05	*
Acenaphthene	6.78E+06	*	6.85E+06	*	8.87E+06	*	1.38E+07	*	2.11E+07	*	4.23E+07	*	7.20E+07	*	1.10E+08	*	4.30E+08	*
Anthracene	4.02E+07	*	4.05E+07	*	5.25E+07	*	8.16E+07	*	1.25E+08	*	2.50E+08	*	4.27E+08	*	6.54E+08	*	2.55E+09	*
Benzo(a)anthracene	3.29E+07	*	3.32E+07	*	4.31E+07	*	6.69E+07	*	1.02E+08	*	2.05E+08	*	3.50E+08	*	5.36E+08	*	2.09E+09	*
Benzo(a)pyrene	1.45E+07	*	1.46E+07	*	1.90E+07	*	2.95E+07	*	4.51E+07	*	9.04E+07	*	1.54E+08	*	2.36E+08	*	9.20E+08	*
Benzo(b)fluoranthene	7.05E+06	*	7.11E+06	*	9.22E+06	*	1.43E+07	*	2.19E+07	*	4.39E+07	*	7.48E+07	*	1.15E+08	*	4.47E+08	*
Benzo(k)fluoranthene	8.64E+09	*	8.71E+09	*	1.13E+10	*	1.75E+10	*	2.68E+10	*	5.38E+10	*	9.17E+10	*	1.40E+11	*	5.47E+11	*
Chrysene	2.44E+08	*	2.46E+08	*	3.18E+08	*	4.95E+08	*	7.56E+08	*	1.52E+09	*	2.59E+09	*	3.96E+09	*	1.54E+10	*
Dibenzo(a,h)anthracene	2.95E+09	*	2.97E+09	*	3.86E+09	*	5.99E+09	*	9.16E+09	*	1.84E+10	*	3.13E+10	*	4.80E+10	*	1.87E+11	*
Fluoranthene	9.07E+08	*	9.15E+08	*	1.19E+09	*	1.84E+09	*	2.82E+09	*	5.65E+09	*	9.63E+09	*	1.48E+10	*	5.75E+10	*
Fluorene	2.48E+07	*	2.50E+07	*	3.24E+07	*	5.03E+07	*	7.69E+07	*	1.54E+08	*	2.63E+08	*	4.03E+08	*	1.57E+09	*
Napthalene	6.46E+03	*	6.51E+03	*	8.44E+03	*	1.31E+04	*	2.01E+04	*	4.02E+04	*	6.85E+04	*	1.05E+05	*	4.09E+05	*
Pyrene	1.08E+09	*	1.09E+09	*	1.41E+09	*	2.20E+09	*	3.36E+09	*	6.73E+09	*	1.15E+10	*	1.76E+10	*	6.85E+10	*
TPH-GRO	5.01E+04		5.06E+04		6.55E+04		1.02E+05		1.56E+05		3.12E+05		5.32E+05		8.15E+05		3.18E+06	
TPH-DRO	4.87E+05		4.92E+05		6.37E+05		9.90E+05		1.51E+06		3.03E+06		5.17E+06		7.92E+06		3.09E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	3.32E+04	*	3.35E+04	*	4.34E+04	*	6.75E+04	*	1.03E+05	*	2.07E+05	*	3.53E+05	*	5.40E+05	*	2.10E+06	*
>C8 - C10 (Aliphatics)	6.84E+03	*	6.90E+03	*	8.95E+03	*	1.39E+04	*	2.13E+04	*	4.26E+04	*	7.27E+04	*	1.11E+05	*	4.34E+05	*
>C10 - C12 (Aliphatics)	3.40E+04	*	3.43E+04	*	4.44E+04	*	6.90E+04	*	1.05E+05	*	2.11E+05	*	3.61E+05	*	5.52E+05	*	2.15E+06	*
>C12 - C16 (Aliphatics)	1.55E+05	*	1.56E+05	*	2.02E+05	*	3.14E+05	*	4.80E+05	*	9.62E+05	*	1.64E+06	*	2.51E+06	*	9.79E+06	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	1.01E+04	*	1.01E+04	*	1.31E+04	*	2.04E+04	*	3.12E+04	*	6.26E+04	*	1.07E+05	*	1.64E+05	*	6.37E+05	*
>C10 - C12 (Aromatics)	5.04E+04	*	5.08E+04	*	6.59E+04	*	1.02E+05	*	1.56E+05	*	3.14E+05	*	5.35E+05	*	8.19E+05	*	3.19E+06	*
>C12 - C16 (Aromatics)	2.48E+05	*	2.51E+05	*	3.25E+05	*	5.04E+05	*	7.71E+05	*	1.55E+06	*	2.64E+06	*	4.04E+06	*	1.57E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	1.89E+04	*	1.91E+04	*	2.48E+04	*	3.85E+04	*	5.88E+04	*	1.18E+05	*	2.01E+05	*	3.08E+05	*	1.20E+06	*
Ethyl-tert-butyl-ether (ETBE)	2.91E+03	*	2.94E+03	*	3.81E+03	*	5.91E+03	*	9.04E+03	*	1.81E+04	*	3.09E+04	*	4.73E+04	*	1.84E+05	*
Diisopropyl ether (DIPE)	1.00E+04	*	1.01E+04	*	1.31E+04	*	2.03E+04	*	3.11E+04	*	6.23E+04	*	1.06E+05	*	1.63E+05	*	6.34E+05	*
Ethanol	7.26E+05	*	7.33E+05	*	9.50E+05	*	1.48E+06	*	2.26E+06	*	4.52E+06	*	7.71E+06	*	1.18E+07	*	4.60E+07	*
Methanol	1.99E+05	*	2.01E+05	*	2.60E+05	*	4.04E+05	*	6.17E+05	*	1.24E+06	*	2.11E+06	*	3.23E+06	*	1.26E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-8(a)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 2 for Resident
Distance to Groundwater <20 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.36E+01		1.37E+01		1.78E+01		2.76E+01	*	4.22E+01	*	8.46E+01	*	1.44E+02	*	2.21E+02	*	8.60E+02	*
Toluene	2.22E+03	*	2.24E+03	*	2.90E+03	*	4.51E+03	*	6.89E+03	*	1.38E+04	*	2.36E+04	*	3.61E+04	*	1.41E+05	*
Ethylbenzene	1.02E+04	*	1.03E+04	*	1.33E+04	*	2.07E+04	*	3.16E+04	*	6.34E+04	*	1.08E+05	*	1.66E+05	*	6.45E+05	*
Xylenes (mixed)	9.07E+03	*	9.15E+03	*	1.19E+04	*	1.84E+04	*	2.82E+04	*	5.65E+04	*	9.63E+04	*	1.47E+05	*	5.74E+05	*
Ethylene Dibromide (EDB)	1.30E+01		1.31E+01		1.70E+01		2.63E+01		4.03E+01		8.07E+01		1.38E+02		2.11E+02		8.21E+02	
Ethylene Dichloride (EDC)	9.08E+00		9.16E+00		1.19E+01		1.84E+01		2.82E+01		5.66E+01		9.64E+01		1.48E+02		5.76E+02	
Methyl-tert-butyl-ether(MTBE)	4.02E+03		4.06E+03		5.26E+03		8.17E+03		1.25E+04	*	2.50E+04	*	4.27E+04	*	6.54E+04	*	2.55E+05	*
Acenaphthene	3.20E+06	*	3.23E+06	*	4.19E+06	*	6.51E+06	*	9.95E+06	*	1.99E+07	*	3.40E+07	*	5.21E+07	*	2.03E+08	*
Anthracene	1.88E+07	*	1.90E+07	*	2.46E+07	*	3.83E+07	*	5.85E+07	*	1.17E+08	*	2.00E+08	*	3.07E+08	*	1.19E+09	*
Benzo(a)anthracene	1.25E+07	*	1.26E+07	*	1.63E+07	*	2.54E+07	*	3.88E+07	*	7.77E+07	*	1.33E+08	*	2.03E+08	*	7.91E+08	*
Benzo(a)pyrene	3.70E+06	*	3.74E+06	*	4.84E+06	*	7.52E+06	*	1.15E+07	*	2.31E+07	*	3.93E+07	*	6.02E+07	*	2.35E+08	*
Benzo(b)fluoranthene	3.31E+06	*	3.34E+06	*	4.33E+06	*	6.73E+06	*	1.03E+07	*	2.06E+07	*	3.52E+07	*	5.39E+07	*	2.10E+08	*
Benzo(k)fluoranthene	1.75E+09	*	1.77E+09	*	2.29E+09	*	3.56E+09	*	5.45E+09	*	1.09E+10	*	1.86E+10	*	2.85E+10	*	1.11E+11	*
Chrysene	1.14E+08	*	1.15E+08	*	1.49E+08	*	2.32E+08	*	3.55E+08	*	7.11E+08	*	1.21E+09	*	1.86E+09	*	7.24E+09	*
Dibenzo(a,h)anthracene	9.47E+07	*	9.55E+07	*	1.24E+08	*	1.92E+08	*	2.94E+08	*	5.90E+08	*	1.01E+09	*	1.54E+09	*	6.00E+09	*
Fluoranthene	4.06E+08	*	4.09E+08	*	5.31E+08	*	8.24E+08	*	1.26E+09	*	2.53E+09	*	4.31E+09	*	6.60E+09	*	2.57E+10	*
Fluorene	1.16E+07	*	1.17E+07	*	1.52E+07	*	2.35E+07	*	3.60E+07	*	7.22E+07	*	1.23E+08	*	1.88E+08	*	7.34E+08	*
Napthalene	3.03E+03	*	3.06E+03	*	3.97E+03	*	6.16E+03	*	9.42E+03	*	1.89E+04	*	3.22E+04	*	4.94E+04	*	1.92E+05	*
Pyrene	4.60E+08	*	4.64E+08	*	6.02E+08	*	9.35E+08	*	1.43E+09	*	2.87E+09	*	4.89E+09	*	7.48E+09	*	2.92E+10	*
TPH-GRO	2.03E+04		2.05E+04		2.66E+04		4.13E+04		6.32E+04		1.27E+05		2.16E+05		3.31E+05		1.29E+06	
TPH-DRO	2.13E+05		2.15E+05		2.78E+05		4.32E+05		6.61E+05		1.33E+06		2.26E+06		3.46E+06		1.35E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	1.33E+04	*	1.34E+04	*	1.74E+04	*	2.70E+04	*	4.12E+04	*	8.27E+04	*	1.41E+05	*	2.16E+05	*	8.41E+05	*
>C8 - C10 (Aliphatics)	2.79E+03	*	2.82E+03	*	3.65E+03	*	5.67E+03	*	8.67E+03	*	1.74E+04	*	2.96E+04	*	4.54E+04	*	1.77E+05	*
>C10 - C12 (Aliphatics)	1.39E+04	*	1.41E+04	*	1.82E+04	*	2.83E+04	*	4.33E+04	*	8.68E+04	*	1.48E+05	*	2.27E+05	*	8.83E+05	*
>C12 - C16 (Aliphatics)	6.35E+04	*	6.40E+04	*	8.30E+04	*	1.29E+05	*	1.97E+05	*	3.95E+05	*	6.74E+05	*	1.03E+06	*	4.02E+06	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	4.28E+03	*	4.32E+03	*	5.59E+03	*	8.69E+03	*	1.33E+04	*	2.66E+04	*	4.54E+04	*	6.96E+04	*	2.71E+05	*
>C10 - C12 (Aromatics)	2.22E+04	*	2.24E+04	*	2.91E+04	*	4.52E+04	*	6.91E+04	*	1.39E+05	*	2.36E+05	*	3.62E+05	*	1.41E+06	*
>C12 - C16 (Aromatics)	1.13E+05	*	1.14E+05	*	1.48E+05	*	2.30E+05	*	3.52E+05	*	7.05E+05	*	1.20E+06	*	1.84E+06	*	7.18E+06	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	1.57E+04		1.58E+04		2.05E+04		3.18E+04		4.87E+04	*	9.76E+04	*	1.66E+05	*	2.55E+05	*	9.93E+05	*
Ethyl-tert-butyl-ether (ETBE)	1.55E+03		1.57E+03		2.03E+03	*	3.16E+03	*	4.83E+03	*	9.67E+03	*	1.65E+04	*	2.53E+04	*	9.84E+04	*
Diisopropyl ether (DIPE)	4.91E+03	*	4.96E+03	*	6.42E+03	*	9.98E+03	*	1.53E+04	*	3.06E+04	*	5.22E+04	*	7.99E+04	*	3.11E+05	*
Ethanol	6.39E+05	*	6.44E+05	*	8.35E+05	*	1.30E+06	*	1.98E+06	*	3.98E+06	*	6.78E+06	*	1.04E+07	*	4.05E+07	*
Methanol	1.32E+05		1.33E+05		1.73E+05	*	2.68E+05	*	4.10E+05	*	8.22E+05	*	1.40E+06	*	2.15E+06	*	8.36E+06	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-8(b)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 2 for Resident
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.72E+01	*	2.74E+01	*	3.55E+01	*	5.52E+01	*	8.43E+01	*	1.69E+02	*	2.88E+02	*	4.42E+02	*	1.72E+03	*
Toluene	4.44E+03	*	4.48E+03	*	5.80E+03	*	9.01E+03	*	1.38E+04	*	2.76E+04	*	4.71E+04	*	7.22E+04	*	2.81E+05	*
Ethylbenzene	2.04E+04	*	2.05E+04	*	2.66E+04	*	4.14E+04	*	6.32E+04	*	1.27E+05	*	2.16E+05	*	3.31E+05	*	1.29E+06	*
Xylenes (mixed)	1.81E+04	*	1.83E+04	*	2.37E+04	*	3.68E+04	*	5.63E+04	*	1.13E+05	*	1.93E+05	*	2.95E+05	*	1.15E+06	*
Ethylene Dibromide (EDB)	2.59E+01		2.62E+01		3.39E+01		5.27E+01		8.05E+01		1.61E+02		2.75E+02		4.22E+02		1.64E+03	
Ethylene Dichloride (EDC)	1.82E+01		1.83E+01		2.38E+01		3.69E+01		5.64E+01		1.13E+02		1.93E+02		2.95E+02		1.15E+03	
Methyl-tert-butyl-ether(MTBE)	8.04E+03		8.11E+03		1.05E+04	*	1.63E+04	*	2.50E+04	*	5.01E+04	*	8.54E+04	*	1.31E+05	*	5.09E+05	*
Acenaphthene	6.41E+06	*	6.46E+06	*	8.38E+06	*	1.30E+07	*	1.99E+07	*	3.99E+07	*	6.80E+07	*	1.04E+08	*	4.06E+08	*
Anthracene	3.77E+07	*	3.80E+07	*	4.93E+07	*	7.66E+07	*	1.17E+08	*	2.35E+08	*	4.00E+08	*	6.13E+08	*	2.39E+09	*
Benzo(a)anthracene	2.50E+07	*	2.52E+07	*	3.26E+07	*	5.07E+07	*	7.75E+07	*	1.55E+08	*	2.65E+08	*	4.06E+08	*	1.58E+09	*
Benzo(a)pyrene	7.41E+06	*	7.47E+06	*	9.69E+06	*	1.50E+07	*	2.30E+07	*	4.61E+07	*	7.86E+07	*	1.20E+08	*	4.69E+08	*
Benzo(b)fluoranthene	6.62E+06	*	6.68E+06	*	8.66E+06	*	1.35E+07	*	2.06E+07	*	4.12E+07	*	7.03E+07	*	1.08E+08	*	4.20E+08	*
Benzo(k)fluoranthene	3.51E+09	*	3.54E+09	*	4.59E+09	*	7.13E+09	*	1.09E+10	*	2.19E+10	*	3.73E+10	*	5.71E+10	*	2.22E+11	*
Chrysene	2.28E+08	*	2.30E+08	*	2.99E+08	*	4.64E+08	*	7.10E+08	*	1.42E+09	*	2.43E+09	*	3.72E+09	*	1.45E+10	*
Dibenzo(a,h)anthracene	1.89E+08	*	1.91E+08	*	2.48E+08	*	3.85E+08	*	5.88E+08	*	1.18E+09	*	2.01E+09	*	3.08E+09	*	1.20E+10	*
Fluoranthene	8.12E+08	*	8.19E+08	*	1.06E+09	*	1.65E+09	*	2.52E+09	*	5.05E+09	*	8.62E+09	*	1.32E+10	*	5.14E+10	*
Fluorene	2.32E+07	*	2.34E+07	*	3.03E+07	*	4.71E+07	*	7.20E+07	*	1.44E+08	*	2.46E+08	*	3.77E+08	*	1.47E+09	*
Napthalene	6.07E+03	*	6.12E+03	*	7.94E+03	*	1.23E+04	*	1.88E+04	*	3.78E+04	*	6.44E+04	*	9.87E+04	*	3.84E+05	*
Pyrene	9.20E+08	*	9.28E+08	*	1.20E+09	*	1.87E+09	*	2.86E+09	*	5.73E+09	*	9.77E+09	*	1.50E+10	*	5.83E+10	*
TPH-GRO	4.07E+04		4.10E+04		5.32E+04		8.26E+04		1.26E+05		2.53E+05		4.32E+05		6.62E+05		2.58E+06	
TPH-DRO	4.26E+05		4.30E+05		5.57E+05		8.65E+05		1.32E+06		2.65E+06		4.52E+06		6.93E+06		2.70E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	2.65E+04	*	2.68E+04	*	3.47E+04	*	5.39E+04	*	8.24E+04	*	1.65E+05	*	2.82E+05	*	4.32E+05	*	1.68E+06	*
>C8 - C10 (Aliphatics)	5.58E+03	*	5.63E+03	*	7.30E+03	*	1.13E+04	*	1.73E+04	*	3.48E+04	*	5.93E+04	*	9.08E+04	*	3.54E+05	*
>C10 - C12 (Aliphatics)	2.79E+04	*	2.81E+04	*	3.64E+04	*	5.66E+04	*	8.65E+04	*	1.74E+05	*	2.96E+05	*	4.53E+05	*	1.77E+06	*
>C12 - C16 (Aliphatics)	1.27E+05	*	1.28E+05	*	1.66E+05	*	2.58E+05	*	3.94E+05	*	7.90E+05	*	1.35E+06	*	2.06E+06	*	8.04E+06	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	8.56E+03	*	8.63E+03	*	1.12E+04	*	1.74E+04	*	2.66E+04	*	5.33E+04	*	9.08E+04	*	1.39E+05	*	5.42E+05	*
>C10 - C12 (Aromatics)	4.45E+04	*	4.49E+04	*	5.82E+04	*	9.04E+04	*	1.38E+05	*	2.77E+05	*	4.72E+05	*	7.24E+05	*	2.82E+06	*
>C12 - C16 (Aromatics)	2.27E+05	*	2.29E+05	*	2.96E+05	*	4.60E+05	*	7.04E+05	*	1.41E+06	*	2.41E+06	*	3.69E+06	*	1.44E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	3.13E+04		3.16E+04		4.10E+04	*	6.37E+04	*	9.73E+04	*	1.95E+05	*	3.33E+05	*	5.10E+05	*	1.99E+06	*
Ethyl-tert-butyl-ether (ETBE)	3.11E+03	*	3.13E+03	*	4.06E+03	*	6.31E+03	*	9.65E+03	*	1.93E+04	*	3.30E+04	*	5.05E+04	*	1.97E+05	*
Diisopropyl ether (DIPE)	9.83E+03	*	9.91E+03	*	1.28E+04	*	2.00E+04	*	3.05E+04	*	6.12E+04	*	1.04E+05	*	1.60E+05	*	6.23E+05	*
Ethanol	1.28E+06	*	1.29E+06	*	1.67E+06	*	2.60E+06	*	3.97E+06	*	7.96E+06	*	1.36E+07	*	2.08E+07	*	8.10E+07	*
Methanol	2.64E+05	*	2.66E+05	*	3.45E+05	*	5.36E+05	*	8.20E+05	*	1.64E+06	*	2.80E+06	*	4.29E+06	*	1.67E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-8(c)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 2 for Resident
Distance to Groundwater >50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	5.43E+01	*	5.48E+01	*	7.10E+01	*	1.10E+02	*	1.69E+02	*	3.38E+02	*	5.77E+02	*	8.84E+02	*	3.44E+03	*
Toluene	8.87E+03	*	8.95E+03	*	1.16E+04	*	1.80E+04	*	2.76E+04	*	5.53E+04	*	9.42E+04	*	1.44E+05	*	5.62E+05	*
Ethylbenzene	4.07E+04	*	4.11E+04	*	5.32E+04	*	8.27E+04	*	1.26E+05	*	2.54E+05	*	4.32E+05	*	6.62E+05	*	2.58E+06	*
Xylenes (mixed)	3.63E+04	*	3.66E+04	*	4.74E+04	*	7.37E+04	*	1.13E+05	*	2.26E+05	*	3.85E+05	*	5.90E+05	*	2.30E+06	*
Ethylene Dibromide (EDB)	5.18E+01		5.23E+01		6.78E+01		1.05E+02		1.61E+02		3.23E+02		5.50E+02		8.43E+02		3.29E+03	*
Ethylene Dichloride (EDC)	3.63E+01		3.67E+01		4.75E+01		7.38E+01		1.13E+02		2.26E+02		3.86E+02		5.91E+02		2.30E+03	*
Methyl-tert-butyl-ether(MTBE)	1.61E+04	*	1.62E+04	*	2.10E+04	*	3.27E+04	*	4.99E+04	*	1.00E+05	*	1.71E+05	*	2.62E+05	*	1.02E+06	*
Acenaphthene	1.28E+07	*	1.29E+07	*	1.68E+07	*	2.60E+07	*	3.98E+07	*	7.98E+07	*	1.36E+08	*	2.08E+08	*	8.12E+08	*
Anthracene	7.54E+07	*	7.61E+07	*	9.86E+07	*	1.53E+08	*	2.34E+08	*	4.69E+08	*	8.00E+08	*	1.23E+09	*	4.78E+09	*
Benzo(a)anthracene	4.99E+07	*	5.04E+07	*	6.53E+07	*	1.01E+08	*	1.55E+08	*	3.11E+08	*	5.30E+08	*	8.12E+08	*	3.16E+09	*
Benzo(a)pyrene	1.48E+07	*	1.49E+07	*	1.94E+07	*	3.01E+07	*	4.60E+07	*	9.23E+07	*	1.57E+08	*	2.41E+08	*	9.39E+08	*
Benzo(b)fluoranthene	1.32E+07	*	1.34E+07	*	1.73E+07	*	2.69E+07	*	4.11E+07	*	8.25E+07	*	1.41E+08	*	2.15E+08	*	8.39E+08	*
Benzo(k)fluoranthene	7.02E+09	*	7.08E+09	*	9.18E+09	*	1.43E+10	*	2.18E+10	*	4.37E+10	*	7.45E+10	*	1.14E+11	*	4.45E+11	*
Chrysene	4.57E+08	*	4.61E+08	*	5.98E+08	*	9.28E+08	*	1.42E+09	*	2.85E+09	*	4.85E+09	*	7.43E+09	*	2.89E+10	*
Dibenzo(a,h)anthracene	3.79E+08	*	3.82E+08	*	4.95E+08	*	7.69E+08	*	1.18E+09	*	2.36E+09	*	4.02E+09	*	6.16E+09	*	2.40E+10	*
Fluoranthene	1.62E+09	*	1.64E+09	*	2.12E+09	*	3.30E+09	*	5.04E+09	*	1.01E+10	*	1.72E+10	*	2.64E+10	*	1.03E+11	*
Fluorene	4.64E+07	*	4.68E+07	*	6.06E+07	*	9.42E+07	*	1.44E+08	*	2.89E+08	*	4.92E+08	*	7.54E+08	*	2.94E+09	*
Napthalene	1.21E+04	*	1.22E+04	*	1.59E+04	*	2.47E+04	*	3.77E+04	*	7.56E+04	*	1.29E+05	*	1.97E+05	*	7.69E+05	*
Pyrene	1.84E+09	*	1.86E+09	*	2.41E+09	*	3.74E+09	*	5.72E+09	*	1.15E+10	*	1.95E+10	*	2.99E+10	*	1.17E+11	*
TPH-GRO	8.14E+04		8.21E+04		1.06E+05		1.65E+05		2.53E+05		5.07E+05		8.64E+05		1.32E+06		5.16E+06	
TPH-DRO	8.52E+05		8.59E+05		1.11E+06		1.73E+06		2.64E+06		5.30E+06		9.04E+06		1.39E+07		5.40E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	5.31E+04	*	5.36E+04	*	6.94E+04	*	1.08E+05	*	1.65E+05	*	3.31E+05	*	5.64E+05	*	8.64E+05	*	3.36E+06	*
>C8 - C10 (Aliphatics)	1.12E+04	*	1.13E+04	*	1.46E+04	*	2.27E+04	*	3.47E+04	*	6.95E+04	*	1.19E+05	*	1.82E+05	*	7.07E+05	*
>C10 - C12 (Aliphatics)	5.57E+04	*	5.62E+04	*	7.29E+04	*	1.13E+05	*	1.73E+05	*	3.47E+05	*	5.92E+05	*	9.06E+05	*	3.53E+06	*
>C12 - C16 (Aliphatics)	2.54E+05	*	2.56E+05	*	3.32E+05	*	5.16E+05	*	7.88E+05	*	1.58E+06	*	2.69E+06	*	4.13E+06	*	1.61E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	1.71E+04	*	1.73E+04	*	2.24E+04	*	3.48E+04	*	5.31E+04	*	1.07E+05	*	1.82E+05	*	2.78E+05	*	1.08E+06	*
>C10 - C12 (Aromatics)	8.90E+04	*	8.98E+04	*	1.16E+05	*	1.81E+05	*	2.76E+05	*	5.54E+05	*	9.45E+05	*	1.45E+06	*	5.64E+06	*
>C12 - C16 (Aromatics)	4.53E+05	*	4.57E+05	*	5.93E+05	*	9.20E+05	*	1.41E+06	*	2.82E+06	*	4.81E+06	*	7.37E+06	*	2.87E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	6.27E+04	*	6.32E+04	*	8.20E+04	*	1.27E+05	*	1.95E+05	*	3.90E+05	*	6.65E+05	*	1.02E+06	*	3.97E+06	*
Ethyl-tert-butyl-ether (ETBE)	6.21E+03	*	6.27E+03	*	8.13E+03	*	1.26E+04	*	1.93E+04	*	3.87E+04	*	6.60E+04	*	1.01E+05	*	3.94E+05	*
Diisopropyl ether (DIPE)	1.97E+04	*	1.98E+04	*	2.57E+04	*	3.99E+04	*	6.10E+04	*	1.22E+05	*	2.09E+05	*	3.20E+05	*	1.25E+06	*
Ethanol	2.56E+06	*	2.58E+06	*	3.34E+06	*	5.19E+06	*	7.94E+06	*	1.59E+07	*	2.71E+07	*	4.16E+07	*	1.62E+08	*
Methanol	5.28E+05	*	5.33E+05	*	6.90E+05	*	1.07E+06	*	1.64E+06	*	3.29E+06	*	5.61E+06	*	8.59E+06	*	3.35E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-9(a)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 3 for Resident
Distance to Groundwater <20 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.34E+01		2.36E+01		3.06E+01	*	4.75E+01	*	7.26E+01	*	1.45E+02	*	2.48E+02	*	3.80E+02	*	1.48E+03	*
Toluene	3.71E+03	*	3.74E+03	*	4.85E+03	*	7.54E+03	*	1.15E+04	*	2.31E+04	*	3.94E+04	*	6.04E+04	*	2.35E+05	*
Ethylbenzene	1.69E+04	*	1.70E+04	*	2.21E+04	*	3.43E+04	*	5.24E+04	*	1.05E+05	*	1.79E+05	*	2.75E+05	*	1.07E+06	*
Xylenes (mixed)	1.50E+04	*	1.52E+04	*	1.97E+04	*	3.06E+04	*	4.67E+04	*	9.37E+04	*	1.60E+05	*	2.45E+05	*	9.54E+05	*
Ethylene Dibromide (EDB)	2.30E+01		2.32E+01		3.01E+01		4.68E+01		7.15E+01		1.43E+02		2.44E+02		3.74E+02		1.46E+03	
Ethylene Dichloride (EDC)	1.71E+01		1.72E+01		2.23E+01		3.46E+01		5.30E+01		1.06E+02		1.81E+02		2.77E+02		1.08E+03	
Methyl-tert-butyl-ether(MTBE)	7.75E+03		7.82E+03		1.01E+04		1.57E+04	*	2.41E+04	*	4.83E+04	*	8.23E+04	*	1.26E+05	*	4.91E+05	*
Acenaphthene	5.38E+06	*	5.43E+06	*	7.03E+06	*	1.09E+07	*	1.67E+07	*	3.35E+07	*	5.71E+07	*	8.75E+07	*	3.41E+08	*
Anthracene	3.19E+07	*	3.22E+07	*	4.17E+07	*	6.48E+07	*	9.90E+07	*	1.99E+08	*	3.38E+08	*	5.19E+08	*	2.02E+09	*
Benzo(a)anthracene	1.39E+07	*	1.40E+07	*	1.82E+07	*	2.83E+07	*	4.32E+07	*	8.67E+07	*	1.48E+08	*	2.26E+08	*	8.82E+08	*
Benzo(a)pyrene	2.87E+06	*	2.89E+06	*	3.75E+06	*	5.82E+06	*	8.90E+06	*	1.78E+07	*	3.04E+07	*	4.66E+07	*	1.82E+08	*
Benzo(b)fluoranthene	5.49E+06	*	5.54E+06	*	7.18E+06	*	1.12E+07	*	1.71E+07	*	3.42E+07	*	5.83E+07	*	8.93E+07	*	3.48E+08	*
Benzo(k)fluoranthene	1.20E+09	*	1.21E+09	*	1.57E+09	*	2.44E+09	*	3.74E+09	*	7.49E+09	*	1.28E+10	*	1.96E+10	*	7.62E+10	*
Chrysene	1.88E+08	*	1.90E+08	*	2.46E+08	*	3.83E+08	*	5.85E+08	*	1.17E+09	*	2.00E+09	*	3.06E+09	*	1.19E+10	*
Dibenzo(a,h)anthracene	4.72E+07	*	4.77E+07	*	6.18E+07	*	9.59E+07	*	1.47E+08	*	2.94E+08	*	5.02E+08	*	7.68E+08	*	2.99E+09	*
Fluoranthene	5.99E+08	*	6.04E+08	*	7.83E+08	*	1.22E+09	*	1.86E+09	*	3.73E+09	*	6.35E+09	*	9.74E+09	*	3.79E+10	*
Fluorene	1.90E+07	*	1.91E+07	*	2.48E+07	*	3.85E+07	*	5.89E+07	*	1.18E+08	*	2.01E+08	*	3.08E+08	*	1.20E+09	*
Napthalene	5.14E+03	*	5.19E+03	*	6.72E+03	*	1.04E+04	*	1.60E+04	*	3.20E+04	*	5.46E+04	*	8.36E+04	*	3.26E+05	*
Pyrene	6.16E+08	*	6.21E+08	*	8.05E+08	*	1.25E+09	*	1.91E+09	*	3.83E+09	*	6.54E+09	*	1.00E+10	*	3.90E+10	*
TPH-GRO	3.22E+04		3.24E+04		4.20E+04		6.53E+04		9.99E+04		2.00E+05		3.41E+05		5.23E+05		2.04E+06	
TPH-DRO	3.53E+05		3.56E+05		4.61E+05		7.16E+05		1.10E+06		2.20E+06		3.74E+06		5.74E+06		2.23E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	2.07E+04	*	2.08E+04	*	2.70E+04	*	4.20E+04	*	6.42E+04	*	1.29E+05	*	2.19E+05	*	3.36E+05	*	1.31E+06	*
>C8 - C10 (Aliphatics)	4.48E+03	*	4.52E+03	*	5.85E+03	*	9.09E+03	*	1.39E+04	*	2.79E+04	*	4.75E+04	*	7.28E+04	*	2.84E+05	*
>C10 - C12 (Aliphatics)	2.25E+04	*	2.27E+04	*	2.95E+04	*	4.58E+04	*	7.00E+04	*	1.40E+05	*	2.39E+05	*	3.66E+05	*	1.43E+06	*
>C12 - C16 (Aliphatics)	1.03E+05	*	1.04E+05	*	1.34E+05	*	2.09E+05	*	3.19E+05	*	6.40E+05	*	1.09E+06	*	1.67E+06	*	6.51E+06	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	7.02E+03	*	7.08E+03	*	9.18E+03	*	1.43E+04	*	2.18E+04	*	4.37E+04	*	7.45E+04	*	1.14E+05	*	4.45E+05	*
>C10 - C12 (Aromatics)	3.70E+04	*	3.73E+04	*	4.84E+04	*	7.52E+04	*	1.15E+05	*	2.30E+05	*	3.93E+05	*	6.02E+05	*	2.34E+06	*
>C12 - C16 (Aromatics)	1.90E+05	*	1.92E+05	*	2.49E+05	*	3.87E+05	*	5.91E+05	*	1.19E+06	*	2.02E+06	*	3.10E+06	*	1.21E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	3.12E+04		3.15E+04		4.08E+04	*	6.34E+04	*	9.70E+04	*	1.94E+05	*	3.31E+05	*	5.08E+05	*	1.98E+06	*
Ethyl-tert-butyl-ether (ETBE)	2.77E+03	*	2.79E+03	*	3.62E+03	*	5.62E+03	*	8.60E+03	*	1.72E+04	*	2.94E+04	*	4.50E+04	*	1.75E+05	*
Diisopropyl ether (DIPE)	8.49E+03	*	8.57E+03	*	1.11E+04	*	1.73E+04	*	2.64E+04	*	5.29E+04	*	9.02E+04	*	1.38E+05	*	5.38E+05	*
Ethanol	1.12E+06	*	1.13E+06	*	1.47E+06	*	2.28E+06	*	3.49E+06	*	6.99E+06	*	1.19E+07	*	1.83E+07	*	7.11E+07	*
Methanol	2.05E+05	*	2.07E+05	*	2.68E+05	*	4.17E+05	*	6.37E+05	*	1.28E+06	*	2.18E+06	*	3.34E+06	*	1.30E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-9(b)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 3 for Resident
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	4.67E+01	*	4.71E+01	*	6.11E+01	*	9.49E+01	*	1.45E+02	*	2.91E+02	*	4.96E+02	*	7.60E+02	*	2.96E+03	*
Toluene	7.42E+03	*	7.49E+03	*	9.71E+03	*	1.51E+04	*	2.31E+04	*	4.62E+04	*	7.88E+04	*	1.21E+05	*	4.70E+05	*
Ethylbenzene	3.38E+04	*	3.41E+04	*	4.41E+04	*	6.86E+04	*	1.05E+05	*	2.10E+05	*	3.58E+05	*	5.49E+05	*	2.14E+06	*
Xylenes (mixed)	3.01E+04	*	3.04E+04	*	3.94E+04	*	6.11E+04	*	9.35E+04	*	1.87E+05	*	3.20E+05	*	4.90E+05	*	1.91E+06	*
Ethylene Dibromide (EDB)	4.60E+01		4.64E+01		6.02E+01		9.35E+01		1.43E+02		2.87E+02		4.89E+02		7.49E+02		2.92E+03	*
Ethylene Dichloride (EDC)	3.41E+01		3.44E+01		4.46E+01		6.93E+01		1.06E+02		2.12E+02		3.62E+02		5.55E+02		2.16E+03	*
Methyl-tert-butyl-ether(MTBE)	1.55E+04	*	1.56E+04	*	2.03E+04	*	3.15E+04	*	4.81E+04	*	9.65E+04	*	1.65E+05	*	2.52E+05	*	9.82E+05	*
Acenaphthene	1.08E+07	*	1.09E+07	*	1.41E+07	*	2.19E+07	*	3.34E+07	*	6.70E+07	*	1.14E+08	*	1.75E+08	*	6.82E+08	*
Anthracene	6.38E+07	*	6.43E+07	*	8.34E+07	*	1.30E+08	*	1.98E+08	*	3.97E+08	*	6.77E+08	*	1.04E+09	*	4.04E+09	*
Benzo(a)anthracene	2.78E+07	*	2.81E+07	*	3.64E+07	*	5.66E+07	*	8.65E+07	*	1.73E+08	*	2.96E+08	*	4.53E+08	*	1.76E+09	*
Benzo(a)pyrene	5.73E+06	*	5.78E+06	*	7.50E+06	*	1.16E+07	*	1.78E+07	*	3.57E+07	*	6.09E+07	*	9.32E+07	*	3.63E+08	*
Benzo(b)fluoranthene	1.10E+07	*	1.11E+07	*	1.44E+07	*	2.23E+07	*	3.41E+07	*	6.84E+07	*	1.17E+08	*	1.79E+08	*	6.96E+08	*
Benzo(k)fluoranthene	2.41E+09	*	2.43E+09	*	3.15E+09	*	4.89E+09	*	7.47E+09	*	1.50E+10	*	2.55E+10	*	3.91E+10	*	1.52E+11	*
Chrysene	3.77E+08	*	3.80E+08	*	4.93E+08	*	7.65E+08	*	1.17E+09	*	2.35E+09	*	4.00E+09	*	6.13E+09	*	2.39E+10	*
Dibenzo(a,h)anthracene	9.45E+07	*	9.53E+07	*	1.24E+08	*	1.92E+08	*	2.93E+08	*	5.88E+08	*	1.00E+09	*	1.54E+09	*	5.99E+09	*
Fluoranthene	1.20E+09	*	1.21E+09	*	1.57E+09	*	2.43E+09	*	3.72E+09	*	7.45E+09	*	1.27E+10	*	1.95E+10	*	7.58E+10	*
Fluorene	3.79E+07	*	3.82E+07	*	4.96E+07	*	7.70E+07	*	1.18E+08	*	2.36E+08	*	4.02E+08	*	6.16E+08	*	2.40E+09	*
Napthalene	1.03E+04	*	1.04E+04	*	1.34E+04	*	2.09E+04	*	3.19E+04	*	6.40E+04	*	1.09E+05	*	1.67E+05	*	6.52E+05	*
Pyrene	1.23E+09	*	1.24E+09	*	1.61E+09	*	2.50E+09	*	3.82E+09	*	7.67E+09	*	1.31E+10	*	2.00E+10	*	7.80E+10	*
TPH-GRO	6.43E+04		6.49E+04		8.41E+04		1.31E+05		2.00E+05		4.00E+05		6.83E+05		1.05E+06		4.07E+06	
TPH-DRO	7.05E+05		7.12E+05		9.23E+05		1.43E+06		2.19E+06		4.39E+06		7.49E+06		1.15E+07		4.47E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	4.13E+04	*	4.17E+04	*	5.40E+04	*	8.39E+04	*	1.28E+05	*	2.57E+05	*	4.39E+05	*	6.72E+05	*	2.62E+06	*
>C8 - C10 (Aliphatics)	8.95E+03	*	9.03E+03	*	1.17E+04	*	1.82E+04	*	2.78E+04	*	5.57E+04	*	9.50E+04	*	1.46E+05	*	5.67E+05	*
>C10 - C12 (Aliphatics)	4.51E+04	*	4.55E+04	*	5.89E+04	*	9.15E+04	*	1.40E+05	*	2.81E+05	*	4.78E+05	*	7.33E+05	*	2.85E+06	*
>C12 - C16 (Aliphatics)	2.06E+05	*	2.07E+05	*	2.69E+05	*	4.18E+05	*	6.38E+05	*	1.28E+06	*	2.18E+06	*	3.34E+06	*	1.30E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	1.40E+04	*	1.42E+04	*	1.84E+04	*	2.85E+04	*	4.36E+04	*	8.74E+04	*	1.49E+05	*	2.28E+05	*	8.90E+05	*
>C10 - C12 (Aromatics)	7.40E+04	*	7.47E+04	*	9.68E+04	*	1.50E+05	*	2.30E+05	*	4.61E+05	*	7.86E+05	*	1.20E+06	*	4.69E+06	*
>C12 - C16 (Aromatics)	3.81E+05	*	3.84E+05	*	4.98E+05	*	7.74E+05	*	1.18E+06	*	2.37E+06	*	4.04E+06	*	6.19E+06	*	2.41E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	6.24E+04	*	6.30E+04	*	8.17E+04	*	1.27E+05	*	1.94E+05	*	3.89E+05	*	6.63E+05	*	1.02E+06	*	3.96E+06	*
Ethyl-tert-butyl-ether (ETBE)	5.54E+03	*	5.59E+03	*	7.24E+03	*	1.12E+04	*	1.72E+04	*	3.45E+04	*	5.88E+04	*	9.01E+04	*	3.51E+05	*
Diisopropyl ether (DIPE)	1.70E+04	*	1.71E+04	*	2.22E+04	*	3.45E+04	*	5.28E+04	*	1.06E+05	*	1.80E+05	*	2.76E+05	*	1.08E+06	*
Ethanol	2.24E+06	*	2.26E+06	*	2.94E+06	*	4.56E+06	*	6.97E+06	*	1.40E+07	*	2.38E+07	*	3.65E+07	*	1.42E+08	*
Methanol	4.10E+05	*	4.14E+05	*	5.36E+05	*	8.33E+05	*	1.27E+06	*	2.55E+06	*	4.35E+06	*	6.67E+06	*	2.60E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-9(c)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 3 for Resident
Distance to Groundwater >50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	9.35E+01	*	9.43E+01	*	1.22E+02	*	1.90E+02	*	2.90E+02	*	5.82E+02	*	9.92E+02	*	1.52E+03	*	5.92E+03	*
Toluene	1.48E+04	*	1.50E+04	*	1.94E+04	*	3.02E+04	*	4.61E+04	*	9.25E+04	*	1.58E+05	*	2.41E+05	*	9.41E+05	*
Ethylbenzene	6.75E+04	*	6.81E+04	*	8.83E+04	*	1.37E+05	*	2.10E+05	*	4.20E+05	*	7.17E+05	*	1.10E+06	*	4.28E+06	*
Xylenes (mixed)	6.02E+04	*	6.07E+04	*	7.87E+04	*	1.22E+05	*	1.87E+05	*	3.75E+05	*	6.39E+05	*	9.79E+05	*	3.81E+06	*
Ethylene Dibromide (EDB)	9.21E+01		9.29E+01		1.20E+02		1.87E+02		2.86E+02		5.73E+02		9.78E+02		1.50E+03		5.83E+03	*
Ethylene Dichloride (EDC)	6.82E+01		6.88E+01		8.92E+01		1.39E+02		2.12E+02		4.25E+02		7.24E+02		1.11E+03		4.32E+03	*
Methyl-tert-butyl-ether(MTBE)	3.10E+04	*	3.13E+04	*	4.05E+04	*	6.30E+04	*	9.63E+04	*	1.93E+05	*	3.29E+05	*	5.04E+05	*	1.96E+06	*
Acenaphthene	2.15E+07	*	2.17E+07	*	2.81E+07	*	4.37E+07	*	6.68E+07	*	1.34E+08	*	2.28E+08	*	3.50E+08	*	1.36E+09	*
Anthracene	1.28E+08	*	1.29E+08	*	1.67E+08	*	2.59E+08	*	3.96E+08	*	7.94E+08	*	1.35E+09	*	2.07E+09	*	8.08E+09	*
Benzo(a)anthracene	5.57E+07	*	5.62E+07	*	7.28E+07	*	1.13E+08	*	1.73E+08	*	3.47E+08	*	5.91E+08	*	9.06E+08	*	3.53E+09	*
Benzo(a)pyrene	1.15E+07	*	1.16E+07	*	1.50E+07	*	2.33E+07	*	3.56E+07	*	7.14E+07	*	1.22E+08	*	1.86E+08	*	7.26E+08	*
Benzo(b)fluoranthene	2.20E+07	*	2.22E+07	*	2.87E+07	*	4.46E+07	*	6.82E+07	*	1.37E+08	*	2.33E+08	*	3.57E+08	*	1.39E+09	*
Benzo(k)fluoranthene	4.81E+09	*	4.86E+09	*	6.29E+09	*	9.78E+09	*	1.49E+10	*	3.00E+10	*	5.11E+10	*	7.83E+10	*	3.05E+11	*
Chrysene	7.54E+08	*	7.60E+08	*	9.86E+08	*	1.53E+09	*	2.34E+09	*	4.69E+09	*	8.00E+09	*	1.23E+10	*	4.78E+10	*
Dibenzo(a,h)anthracene	1.89E+08	*	1.91E+08	*	2.47E+08	*	3.84E+08	*	5.87E+08	*	1.18E+09	*	2.01E+09	*	3.07E+09	*	1.20E+10	*
Fluoranthene	2.39E+09	*	2.42E+09	*	3.13E+09	*	4.86E+09	*	7.44E+09	*	1.49E+10	*	2.54E+10	*	3.89E+10	*	1.52E+11	*
Fluorene	7.58E+07	*	7.65E+07	*	9.91E+07	*	1.54E+08	*	2.35E+08	*	4.72E+08	*	8.05E+08	*	1.23E+09	*	4.80E+09	*
Napthalene	2.06E+04	*	2.07E+04	*	2.69E+04	*	4.18E+04	*	6.39E+04	*	1.28E+05	*	2.18E+05	*	3.35E+05	*	1.30E+06	*
Pyrene	2.46E+09	*	2.48E+09	*	3.22E+09	*	5.00E+09	*	7.65E+09	*	1.53E+10	*	2.61E+10	*	4.01E+10	*	1.56E+11	*
TPH-GRO	1.29E+05		1.30E+05		1.68E+05		2.61E+05		3.99E+05		8.01E+05		1.37E+06		2.09E+06		8.15E+06	
TPH-DRO	1.41E+06		1.42E+06		1.85E+06		2.87E+06		4.38E+06		8.79E+06		1.50E+07		2.29E+07		8.94E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	8.26E+04	*	8.34E+04	*	1.08E+05	*	1.68E+05	*	2.57E+05	*	5.15E+05	*	8.77E+05	*	1.34E+06	*	5.24E+06	*
>C8 - C10 (Aliphatics)	1.79E+04	*	1.81E+04	*	2.34E+04	*	3.64E+04	*	5.56E+04	*	1.11E+05	*	1.90E+05	*	2.91E+05	*	1.13E+06	*
>C10 - C12 (Aliphatics)	9.01E+04	*	9.09E+04	*	1.18E+05	*	1.83E+05	*	2.80E+05	*	5.61E+05	*	9.57E+05	*	1.47E+06	*	5.71E+06	*
>C12 - C16 (Aliphatics)	4.11E+05	*	4.15E+05	*	5.38E+05	*	8.35E+05	*	1.28E+06	*	2.56E+06	*	4.36E+06	*	6.69E+06	*	2.60E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	2.81E+04	*	2.83E+04	*	3.67E+04	*	5.70E+04	*	8.72E+04	*	1.75E+05	*	2.98E+05	*	4.57E+05	*	1.78E+06	*
>C10 - C12 (Aromatics)	1.48E+05	*	1.49E+05	*	1.94E+05	*	3.01E+05	*	4.60E+05	*	9.22E+05	*	1.57E+06	*	2.41E+06	*	9.38E+06	*
>C12 - C16 (Aromatics)	7.62E+05	*	7.68E+05	*	9.96E+05	*	1.55E+06	*	2.37E+06	*	4.74E+06	*	8.09E+06	*	1.24E+07	*	4.83E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	1.25E+05	*	1.26E+05	*	1.63E+05	*	2.54E+05	*	3.88E+05	*	7.78E+05	*	1.33E+06	*	2.03E+06	*	7.91E+06	*
Ethyl-tert-butyl-ether (ETBE)	1.11E+04	*	1.12E+04	*	1.45E+04	*	2.25E+04	*	3.44E+04	*	6.90E+04	*	1.18E+05	*	1.80E+05	*	7.02E+05	*
Diisopropyl ether (DIPE)	3.40E+04	*	3.43E+04	*	4.44E+04	*	6.90E+04	*	1.06E+05	*	2.12E+05	*	3.61E+05	*	5.53E+05	*	2.15E+06	*
Ethanol	4.49E+06	*	4.53E+06	*	5.87E+06	*	9.12E+06	*	1.39E+07	*	2.80E+07	*	4.77E+07	*	7.30E+07	*	2.84E+08	*
Methanol	8.20E+05	*	8.28E+05	*	1.07E+06	*	1.67E+06	*	2.55E+06	*	5.11E+06	*	8.71E+06	*	1.33E+07	*	5.20E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-10(a)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 1 for Non-Residen
Distance to Groundwater <20 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	3.65E+01	*	3.68E+01	*	4.78E+01	*	7.42E+01	*	1.13E+02	*	2.27E+02	*	3.88E+02	*	5.94E+02	*	2.31E+03	*
Toluene	9.92E+03	*	1.00E+04	*	1.30E+04	*	2.02E+04	*	3.08E+04	*	6.18E+04	*	1.05E+05	*	1.61E+05	*	6.29E+05	*
Ethylbenzene	4.67E+04	*	4.71E+04	*	6.10E+04	*	9.48E+04	*	1.45E+05	*	2.91E+05	*	4.96E+05	*	7.59E+05	*	2.96E+06	*
Xylenes (mixed)	4.15E+04	*	4.19E+04	*	5.43E+04	*	8.43E+04	*	1.29E+05	*	2.58E+05	*	4.41E+05	*	6.75E+05	*	2.63E+06	*
Ethylene Dibromide (EDB)	3.12E+01		3.15E+01		4.08E+01		6.33E+01		9.68E+01		1.94E+02		3.31E+02		5.07E+02		1.98E+03	*
Ethylene Dichloride (EDC)	1.90E+01		1.92E+01		2.49E+01		3.87E+01		5.91E+01		1.19E+02		2.02E+02		3.10E+02		1.21E+03	
Methyl-tert-butyl-ether(MTBE)	7.66E+03	*	7.73E+03	*	1.00E+04	*	1.56E+04	*	2.38E+04	*	4.77E+04	*	8.14E+04	*	1.25E+05	*	4.85E+05	*
Acenaphthene	1.36E+07	*	1.38E+07	*	1.78E+07	*	2.77E+07	*	4.24E+07	*	8.49E+07	*	1.45E+08	*	2.22E+08	*	8.64E+08	*
Anthracene	8.08E+07	*	8.15E+07	*	1.06E+08	*	1.64E+08	*	2.51E+08	*	5.03E+08	*	8.57E+08	*	1.31E+09	*	5.12E+09	*
Benzo(a)anthracene	4.32E+07	*	4.35E+07	*	5.64E+07	*	8.77E+07	*	1.34E+08	*	2.69E+08	*	4.58E+08	*	7.02E+08	*	2.73E+09	*
Benzo(a)pyrene	1.90E+07	*	1.92E+07	*	2.49E+07	*	3.86E+07	*	5.91E+07	*	1.18E+08	*	2.02E+08	*	3.09E+08	*	1.20E+09	*
Benzo(b)fluoranthene	9.23E+06	*	9.32E+06	*	1.21E+07	*	1.88E+07	*	2.87E+07	*	5.75E+07	*	9.80E+07	*	1.50E+08	*	5.85E+08	*
Benzo(k)fluoranthene	1.13E+10	*	1.14E+10	*	1.48E+10	*	2.30E+10	*	3.51E+10	*	7.05E+10	*	1.20E+11	*	1.84E+11	*	7.17E+11	*
Chrysene	3.19E+08	*	3.22E+08	*	4.17E+08	*	6.48E+08	*	9.91E+08	*	1.99E+09	*	3.39E+09	*	5.19E+09	*	2.02E+10	*
Dibenzo(a,h)anthracene	3.86E+09	*	3.90E+09	*	5.05E+09	*	7.85E+09	*	1.20E+10	*	2.41E+10	*	4.10E+10	*	6.29E+10	*	2.45E+11	*
Fluoranthene	1.82E+09	*	1.84E+09	*	2.39E+09	*	3.70E+09	*	5.66E+09	*	1.14E+10	*	1.94E+10	*	2.97E+10	*	1.16E+11	*
Fluorene	4.98E+07	*	5.02E+07	*	6.51E+07	*	1.01E+08	*	1.55E+08	*	3.10E+08	*	5.29E+08	*	8.10E+08	*	3.15E+09	*
Napthalene	1.30E+04	*	1.31E+04	*	1.70E+04	*	2.64E+04	*	4.03E+04	*	8.08E+04	*	1.38E+05	*	2.11E+05	*	8.22E+05	*
Pyrene	2.17E+09	*	2.19E+09	*	2.84E+09	*	4.41E+09	*	6.75E+09	*	1.35E+10	*	2.31E+10	*	3.53E+10	*	1.38E+11	*
TPH-GRO	1.01E+05		1.02E+05		1.32E+05		2.05E+05		3.13E+05		6.27E+05		1.07E+06		1.64E+06		6.38E+06	
TPH-DRO	9.79E+05		9.88E+05		1.28E+06		1.99E+06		3.04E+06		6.10E+06		1.04E+07		1.59E+07		6.20E+07	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	6.68E+04	*	6.74E+04	*	8.73E+04	*	1.36E+05	*	2.07E+05	*	4.16E+05	*	7.09E+05	*	1.09E+06	*	4.23E+06	*
>C8 - C10 (Aliphatics)	1.38E+04	*	1.39E+04	*	1.80E+04	*	2.79E+04	*	4.27E+04	*	8.57E+04	*	1.46E+05	*	2.24E+05	*	8.72E+05	*
>C10 - C12 (Aliphatics)	6.83E+04	*	6.89E+04	*	8.93E+04	*	1.39E+05	*	2.12E+05	*	4.25E+05	*	7.25E+05	*	1.11E+06	*	4.33E+06	*
>C12 - C16 (Aliphatics)	3.11E+05	*	3.13E+05	*	4.06E+05	*	6.31E+05	*	9.65E+05	*	1.93E+06	*	3.30E+06	*	5.05E+06	*	1.97E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	2.02E+04	*	2.04E+04	*	2.64E+04	*	4.10E+04	*	6.28E+04	*	1.26E+05	*	2.15E+05	*	3.29E+05	*	1.28E+06	*
>C10 - C12 (Aromatics)	1.01E+05	*	1.02E+05	*	1.32E+05	*	2.06E+05	*	3.14E+05	*	6.30E+05	*	1.07E+06	*	1.65E+06	*	6.41E+06	*
>C12 - C16 (Aromatics)	4.99E+05	*	5.04E+05	*	6.53E+05	*	1.01E+06	*	1.55E+06	*	3.11E+06	*	5.30E+06	*	8.12E+06	*	3.16E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	3.81E+04	*	3.84E+04	*	4.98E+04	*	7.73E+04	*	1.18E+05	*	2.37E+05	*	4.04E+05	*	6.19E+05	*	2.41E+06	*
Ethyl-tert-butyl-ether (ETBE)	5.85E+03	*	5.90E+03	*	7.65E+03	*	1.19E+04	*	1.82E+04	*	3.64E+04	*	6.21E+04	*	9.52E+04	*	3.71E+05	*
Diisopropyl ether (DIPE)	2.01E+04	*	2.03E+04	*	2.63E+04	*	4.09E+04	*	6.25E+04	*	1.25E+05	*	2.14E+05	*	3.27E+05	*	1.27E+06	*
Ethanol	1.46E+06	*	1.47E+06	*	1.91E+06	*	2.96E+06	*	4.53E+06	*	9.09E+06	*	1.55E+07	*	2.37E+07	*	9.25E+07	*
Methanol	4.00E+05	*	4.03E+05	*	5.22E+05	*	8.12E+05	*	1.24E+06	*	2.49E+06	*	4.24E+06	*	6.50E+06	*	2.53E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-10(b)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 1 for Non-Residen
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	7.30E+01	*	7.37E+01	*	9.55E+01	*	1.48E+02	*	2.27E+02	*	4.55E+02	*	7.75E+02	*	1.19E+03	*	4.63E+03	*
Toluene	1.98E+04	*	2.00E+04	*	2.59E+04	*	4.03E+04	*	6.16E+04	*	1.24E+05	*	2.11E+05	*	3.23E+05	*	1.26E+06	*
Ethylbenzene	9.34E+04	*	9.42E+04	*	1.22E+05	*	1.90E+05	*	2.90E+05	*	5.81E+05	*	9.91E+05	*	1.52E+06	*	5.92E+06	*
Xylenes (mixed)	8.30E+04	*	8.37E+04	*	1.09E+05	*	1.69E+05	*	2.58E+05	*	5.17E+05	*	8.81E+05	*	1.35E+06	*	5.26E+06	*
Ethylene Dibromide (EDB)	6.24E+01		6.29E+01		8.15E+01		1.27E+02		1.94E+02		3.88E+02		6.62E+02		1.01E+03		3.95E+03	*
Ethylene Dichloride (EDC)	3.81E+01		3.84E+01		4.98E+01		7.74E+01		1.18E+02		2.37E+02		4.04E+02		6.19E+02		2.41E+03	*
Methyl-tert-butyl-ether(MTBE)	1.53E+04	*	1.55E+04	*	2.00E+04	*	3.11E+04	*	4.76E+04	*	9.54E+04	*	1.63E+05	*	2.49E+05	*	9.71E+05	*
Acenaphthene	2.73E+07	*	2.75E+07	*	3.57E+07	*	5.54E+07	*	8.47E+07	*	1.70E+08	*	2.90E+08	*	4.44E+08	*	1.73E+09	*
Anthracene	1.62E+08	*	1.63E+08	*	2.11E+08	*	3.28E+08	*	5.02E+08	*	1.01E+09	*	1.71E+09	*	2.63E+09	*	1.02E+10	*
Benzo(a)anthracene	8.63E+07	*	8.71E+07	*	1.13E+08	*	1.75E+08	*	2.68E+08	*	5.38E+08	*	9.17E+08	*	1.40E+09	*	5.47E+09	*
Benzo(a)pyrene	3.80E+07	*	3.84E+07	*	4.97E+07	*	7.73E+07	*	1.18E+08	*	2.37E+08	*	4.04E+08	*	6.19E+08	*	2.41E+09	*
Benzo(b)fluoranthene	1.85E+07	*	1.86E+07	*	2.42E+07	*	3.75E+07	*	5.74E+07	*	1.15E+08	*	1.96E+08	*	3.00E+08	*	1.17E+09	*
Benzo(k)fluoranthene	2.26E+10	*	2.28E+10	*	2.96E+10	*	4.60E+10	*	7.03E+10	*	1.41E+11	*	2.40E+11	*	3.68E+11	*	1.43E+12	*
Chrysene	6.38E+08	*	6.44E+08	*	8.35E+08	*	1.30E+09	*	1.98E+09	*	3.97E+09	*	6.78E+09	*	1.04E+10	*	4.04E+10	*
Dibenzo(a,h)anthracene	7.73E+09	*	7.80E+09	*	1.01E+10	*	1.57E+10	*	2.40E+10	*	4.81E+10	*	8.20E+10	*	1.26E+11	*	4.90E+11	*
Fluoranthene	3.65E+09	*	3.68E+09	*	4.77E+09	*	7.41E+09	*	1.13E+10	*	2.27E+10	*	3.87E+10	*	5.93E+10	*	2.31E+11	*
Fluorene	9.96E+07	*	1.00E+08	*	1.30E+08	*	2.02E+08	*	3.09E+08	*	6.20E+08	*	1.06E+09	*	1.62E+09	*	6.31E+09	*
Napthalene	2.60E+04	*	2.62E+04	*	3.39E+04	*	5.27E+04	*	8.06E+04	*	1.62E+05	*	2.76E+05	*	4.22E+05	*	1.64E+06	*
Pyrene	4.35E+09	*	4.38E+09	*	5.68E+09	*	8.83E+09	*	1.35E+10	*	2.71E+10	*	4.61E+10	*	7.07E+10	*	2.75E+11	*
TPH-GRO	2.01E+05		2.03E+05		2.63E+05		4.09E+05		6.26E+05		1.25E+06		2.14E+06		3.28E+06		1.28E+07	
TPH-DRO	1.96E+06		1.98E+06		2.56E+06		3.98E+06		6.08E+06		1.22E+07		2.08E+07		3.19E+07		1.24E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	1.34E+05	*	1.35E+05	*	1.75E+05	*	2.71E+05	*	4.15E+05	*	8.32E+05	*	1.42E+06	*	2.17E+06	*	8.46E+06	*
>C8 - C10 (Aliphatics)	2.75E+04	*	2.78E+04	*	3.60E+04	*	5.59E+04	*	8.54E+04	*	1.71E+05	*	2.92E+05	*	4.47E+05	*	1.74E+06	*
>C10 - C12 (Aliphatics)	1.37E+05	*	1.38E+05	*	1.79E+05	*	2.77E+05	*	4.24E+05	*	8.50E+05	*	1.45E+06	*	2.22E+06	*	8.65E+06	*
>C12 - C16 (Aliphatics)	6.21E+05	*	6.27E+05	*	8.12E+05	*	1.26E+06	*	1.93E+06	*	3.87E+06	*	6.59E+06	*	1.01E+07	*	3.94E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	4.04E+04	*	4.08E+04	*	5.28E+04	*	8.21E+04	*	1.26E+05	*	2.52E+05	*	4.29E+05	*	6.57E+05	*	2.56E+06	*
>C10 - C12 (Aromatics)	2.02E+05	*	2.04E+05	*	2.65E+05	*	4.11E+05	*	6.29E+05	*	1.26E+06	*	2.15E+06	*	3.29E+06	*	1.28E+07	*
>C12 - C16 (Aromatics)	9.98E+05	*	1.01E+06	*	1.31E+06	*	2.03E+06	*	3.10E+06	*	6.22E+06	*	1.06E+07	*	1.62E+07	*	6.33E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	7.61E+04	*	7.68E+04	*	9.96E+04	*	1.55E+05	*	2.36E+05	*	4.74E+05	*	8.08E+05	*	1.24E+06	*	4.82E+06	*
Ethyl-tert-butyl-ether (ETBE)	1.17E+04	*	1.18E+04	*	1.53E+04	*	2.38E+04	*	3.63E+04	*	7.29E+04	*	1.24E+05	*	1.90E+05	*	7.41E+05	*
Diisopropyl ether (DIPE)	4.02E+04	*	4.06E+04	*	5.26E+04	*	8.17E+04	*	1.25E+05	*	2.51E+05	*	4.27E+05	*	6.54E+05	*	2.55E+06	*
Ethanol	2.92E+06	*	2.95E+06	*	3.82E+06	*	5.93E+06	*	9.07E+06	*	1.82E+07	*	3.10E+07	*	4.75E+07	*	1.85E+08	*
Methanol	7.99E+05	*	8.06E+05	*	1.04E+06	*	1.62E+06	*	2.48E+06	*	4.98E+06	*	8.48E+06	*	1.30E+07	*	5.06E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-10(c)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 1 for Non-Residen
Distance to Groundwater >50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.46E+02	*	1.47E+02	*	1.91E+02	*	2.97E+02	*	4.54E+02	*	9.10E+02	*	1.55E+03	*	2.38E+03	*	9.25E+03	*
Toluene	3.97E+04	*	4.00E+04	*	5.19E+04	*	8.06E+04	*	1.23E+05	*	2.47E+05	*	4.21E+05	*	6.45E+05	*	2.51E+06	*
Ethylbenzene	1.87E+05	*	1.88E+05	*	2.44E+05	*	3.79E+05	*	5.80E+05	*	1.16E+06	*	1.98E+06	*	3.04E+06	*	1.18E+07	*
Xylenes (mixed)	1.66E+05	*	1.67E+05	*	2.17E+05	*	3.37E+05	*	5.15E+05	*	1.03E+06	*	1.76E+06	*	2.70E+06	*	1.05E+07	*
Ethylene Dibromide (EDB)	1.25E+02		1.26E+02		1.63E+02		2.53E+02		3.87E+02		7.77E+02		1.32E+03		2.03E+03	*	7.90E+03	*
Ethylene Dichloride (EDC)	7.62E+01		7.68E+01		9.96E+01		1.55E+02		2.37E+02		4.74E+02		8.09E+02		1.24E+03		4.83E+03	*
Methyl-tert-butyl-ether(MTBE)	3.06E+04	*	3.09E+04	*	4.01E+04	*	6.23E+04	*	9.52E+04	*	1.91E+05	*	3.25E+05	*	4.99E+05	*	1.94E+06	*
Acenaphthene	5.46E+07	*	5.50E+07	*	7.13E+07	*	1.11E+08	*	1.69E+08	*	3.40E+08	*	5.79E+08	*	8.87E+08	*	3.46E+09	*
Anthracene	3.23E+08	*	3.26E+08	*	4.22E+08	*	6.56E+08	*	1.00E+09	*	2.01E+09	*	3.43E+09	*	5.25E+09	*	2.05E+10	*
Benzo(a)anthracene	1.73E+08	*	1.74E+08	*	2.26E+08	*	3.51E+08	*	5.36E+08	*	1.08E+09	*	1.83E+09	*	2.81E+09	*	1.09E+10	*
Benzo(a)pyrene	7.61E+07	*	7.67E+07	*	9.95E+07	*	1.55E+08	*	2.36E+08	*	4.74E+08	*	8.08E+08	*	1.24E+09	*	4.82E+09	*
Benzo(b)fluoranthene	3.69E+07	*	3.73E+07	*	4.83E+07	*	7.50E+07	*	1.15E+08	*	2.30E+08	*	3.92E+08	*	6.01E+08	*	2.34E+09	*
Benzo(k)fluoranthene	4.53E+10	*	4.57E+10	*	5.92E+10	*	9.19E+10	*	1.41E+11	*	2.82E+11	*	4.81E+11	*	7.36E+11	*	2.87E+12	*
Chrysene	1.28E+09	*	1.29E+09	*	1.67E+09	*	2.59E+09	*	3.96E+09	*	7.95E+09	*	1.36E+10	*	2.08E+10	*	8.09E+10	*
Dibenzo(a,h)anthracene	1.55E+10	*	1.56E+10	*	2.02E+10	*	3.14E+10	*	4.80E+10	*	9.63E+10	*	1.64E+11	*	2.51E+11	*	9.79E+11	*
Fluoranthene	7.30E+09	*	7.36E+09	*	9.54E+09	*	1.48E+10	*	2.27E+10	*	4.54E+10	*	7.75E+10	*	1.19E+11	*	4.62E+11	*
Fluorene	1.99E+08	*	2.01E+08	*	2.60E+08	*	4.05E+08	*	6.19E+08	*	1.24E+09	*	2.11E+09	*	3.24E+09	*	1.26E+10	*
Napthalene	5.19E+04	*	5.24E+04	*	6.79E+04	*	1.05E+05	*	1.61E+05	*	3.23E+05	*	5.51E+05	*	8.44E+05	*	3.29E+06	*
Pyrene	8.69E+09	*	8.77E+09	*	1.14E+10	*	1.77E+10	*	2.70E+10	*	5.41E+10	*	9.23E+10	*	1.41E+11	*	5.51E+11	*
TPH-GRO	4.03E+05		4.07E+05		5.27E+05		8.18E+05		1.25E+06		2.51E+06		4.28E+06		6.55E+06		2.55E+07	
TPH-DRO	3.92E+06		3.95E+06		5.12E+06		7.96E+06		1.22E+07		2.44E+07		4.16E+07		6.37E+07		2.48E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	2.67E+05	*	2.69E+05	*	3.49E+05	*	5.42E+05	*	8.29E+05	*	1.66E+06	*	2.84E+06	*	4.34E+06	*	1.69E+07	*
>C8 - C10 (Aliphatics)	5.50E+04	*	5.55E+04	*	7.20E+04	*	1.12E+05	*	1.71E+05	*	3.43E+05	*	5.84E+05	*	8.95E+05	*	3.49E+06	*
>C10 - C12 (Aliphatics)	2.73E+05	*	2.75E+05	*	3.57E+05	*	5.55E+05	*	8.48E+05	*	1.70E+06	*	2.90E+06	*	4.44E+06	*	1.73E+07	*
>C12 - C16 (Aliphatics)	1.24E+06	*	1.25E+06	*	1.62E+06	*	2.52E+06	*	3.86E+06	*	7.74E+06	*	1.32E+07	*	2.02E+07	*	7.87E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	8.08E+04	*	8.15E+04	*	1.06E+05	*	1.64E+05	*	2.51E+05	*	5.03E+05	*	8.58E+05	*	1.31E+06	*	5.12E+06	*
>C10 - C12 (Aromatics)	4.05E+05	*	4.08E+05	*	5.29E+05	*	8.22E+05	*	1.26E+06	*	2.52E+06	*	4.30E+06	*	6.59E+06	*	2.57E+07	*
>C12 - C16 (Aromatics)	2.00E+06	*	2.01E+06	*	2.61E+06	*	4.06E+06	*	6.20E+06	*	1.24E+07	*	2.12E+07	*	3.25E+07	*	1.27E+08	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	1.52E+05	*	1.54E+05	*	1.99E+05	*	3.09E+05	*	4.73E+05	*	9.48E+05	*	1.62E+06	*	2.48E+06	*	9.65E+06	*
Ethyl-tert-butyl-ether (ETBE)	2.34E+04	*	2.36E+04	*	3.06E+04	*	4.75E+04	*	7.27E+04	*	1.46E+05	*	2.48E+05	*	3.81E+05	*	1.48E+06	*
Diisopropyl ether (DIPE)	8.05E+04	*	8.12E+04	*	1.05E+05	*	1.63E+05	*	2.50E+05	*	5.01E+05	*	8.54E+05	*	1.31E+06	*	5.10E+06	*
Ethanol	5.84E+06	*	5.89E+06	*	7.64E+06	*	1.19E+07	*	1.81E+07	*	3.64E+07	*	6.20E+07	*	9.50E+07	*	3.70E+08	*
Methanol	1.60E+06	*	1.61E+06	*	2.09E+06	*	3.25E+06	*	4.96E+06	*	9.95E+06	*	1.70E+07	*	2.60E+07	*	1.01E+08	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-11(a)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 2 for Non-Residen
Distance to Groundwater <20 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	7.12E+01	*	7.18E+01	*	9.31E+01	*	1.45E+02	*	2.21E+02	*	4.43E+02	*	7.56E+02	*	1.16E+03	*	4.51E+03	*
Toluene	1.78E+04	*	1.80E+04	*	2.33E+04	*	3.62E+04	*	5.54E+04	*	1.11E+05	*	1.89E+05	*	2.90E+05	*	1.13E+06	*
Ethylbenzene	8.18E+04	*	8.26E+04	*	1.07E+05	*	1.66E+05	*	2.54E+05	*	5.10E+05	*	8.69E+05	*	1.33E+06	*	5.19E+06	*
Xylenes (mixed)	7.29E+04	*	7.35E+04	*	9.53E+04	*	1.48E+05	*	2.26E+05	*	4.54E+05	*	7.74E+05	*	1.19E+06	*	4.62E+06	*
Ethylene Dibromide (EDB)	6.79E+01		6.85E+01		8.89E+01		1.38E+02		2.11E+02		4.23E+02		7.21E+02		1.11E+03		4.30E+03	*
Ethylene Dichloride (EDC)	4.76E+01		4.80E+01		6.23E+01		9.67E+01		1.48E+02		2.96E+02		5.05E+02		7.74E+02		3.02E+03	*
Methyl-tert-butyl-ether(MTBE)	2.11E+04	*	2.13E+04	*	2.76E+04	*	4.28E+04	*	6.54E+04	*	1.31E+05	*	2.24E+05	*	3.43E+05	*	1.34E+06	*
Acenaphthene	2.58E+07	*	2.60E+07	*	3.37E+07	*	5.23E+07	*	8.00E+07	*	1.60E+08	*	2.73E+08	*	4.19E+08	*	1.63E+09	*
Anthracene	1.52E+08	*	1.53E+08	*	1.98E+08	*	3.08E+08	*	4.71E+08	*	9.44E+08	*	1.61E+09	*	2.46E+09	*	9.60E+09	*
Benzo(a)anthracene	6.54E+07	*	6.60E+07	*	8.56E+07	*	1.33E+08	*	2.03E+08	*	4.07E+08	*	6.95E+08	*	1.06E+09	*	4.15E+09	*
Benzo(a)pyrene	1.94E+07	*	1.96E+07	*	2.54E+07	*	3.94E+07	*	6.03E+07	*	1.21E+08	*	2.06E+08	*	3.16E+08	*	1.23E+09	*
Benzo(b)fluoranthene	1.74E+07	*	1.75E+07	*	2.27E+07	*	3.53E+07	*	5.39E+07	*	1.08E+08	*	1.84E+08	*	2.82E+08	*	1.10E+09	*
Benzo(k)fluoranthene	9.20E+09	*	9.28E+09	*	1.20E+10	*	1.87E+10	*	2.86E+10	*	5.73E+10	*	9.77E+10	*	1.50E+11	*	5.83E+11	*
Chrysene	5.99E+08	*	6.04E+08	*	7.83E+08	*	1.22E+09	*	1.86E+09	*	3.73E+09	*	6.36E+09	*	9.74E+09	*	3.79E+10	*
Dibenzo(a,h)anthracene	4.96E+08	*	5.01E+08	*	6.49E+08	*	1.01E+09	*	1.54E+09	*	3.09E+09	*	5.27E+09	*	8.07E+09	*	3.14E+10	*
Fluoranthene	3.26E+09	*	3.29E+09	*	4.27E+09	*	6.63E+09	*	1.01E+10	*	2.03E+10	*	3.46E+10	*	5.31E+10	*	2.07E+11	*
Fluorene	9.32E+07	*	9.40E+07	*	1.22E+08	*	1.89E+08	*	2.89E+08	*	5.80E+08	*	9.89E+08	*	1.52E+09	*	5.90E+09	*
Napthalene	2.44E+04	*	2.46E+04	*	3.19E+04	*	4.96E+04	*	7.58E+04	*	1.52E+05	*	2.59E+05	*	3.97E+05	*	1.55E+06	*
Pyrene	3.70E+09	*	3.73E+09	*	4.84E+09	*	7.51E+09	*	1.15E+10	*	2.30E+10	*	3.93E+10	*	6.02E+10	*	2.34E+11	*
TPH-GRO	1.64E+05		1.65E+05		2.14E+05		3.32E+05		5.08E+05		1.02E+06		1.74E+06		2.66E+06		1.04E+07	
TPH-DRO	1.71E+06		1.73E+06		2.24E+06		3.48E+06		5.32E+06		1.07E+07		1.82E+07		2.78E+07		1.08E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	1.07E+05	*	1.08E+05	*	1.40E+05	*	2.17E+05	*	3.31E+05	*	6.65E+05	*	1.13E+06	*	1.74E+06	*	6.76E+06	*
>C8 - C10 (Aliphatics)	2.24E+04	*	2.26E+04	*	2.93E+04	*	4.56E+04	*	6.97E+04	*	1.40E+05	*	2.38E+05	*	3.65E+05	*	1.42E+06	*
>C10 - C12 (Aliphatics)	1.12E+05	*	1.13E+05	*	1.46E+05	*	2.28E+05	*	3.48E+05	*	6.98E+05	*	1.19E+06	*	1.82E+06	*	7.10E+06	*
>C12 - C16 (Aliphatics)	5.10E+05	*	5.15E+05	*	6.67E+05	*	1.04E+06	*	1.58E+06	*	3.18E+06	*	5.42E+06	*	8.30E+06	*	3.23E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	3.44E+04	*	3.47E+04	*	4.50E+04	*	6.99E+04	*	1.07E+05	*	2.14E+05	*	3.65E+05	*	5.59E+05	*	2.18E+06	*
>C10 - C12 (Aromatics)	1.79E+05	*	1.80E+05	*	2.34E+05	*	3.63E+05	*	5.55E+05	*	1.11E+06	*	1.90E+06	*	2.91E+06	*	1.13E+07	*
>C12 - C16 (Aromatics)	9.11E+05	*	9.19E+05	*	1.19E+06	*	1.85E+06	*	2.83E+06	*	5.67E+06	*	9.67E+06	*	1.48E+07	*	5.77E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	1.26E+05	*	1.27E+05	*	1.65E+05	*	2.56E+05	*	3.91E+05	*	7.85E+05	*	1.34E+06	*	2.05E+06	*	7.98E+06	*
Ethyl-tert-butyl-ether (ETBE)	1.25E+04	*	1.26E+04	*	1.63E+04	*	2.54E+04	*	3.88E+04	*	7.78E+04	*	1.33E+05	*	2.03E+05	*	7.91E+05	*
Diisopropyl ether (DIPE)	3.95E+04	*	3.99E+04	*	5.17E+04	*	8.02E+04	*	1.23E+05	*	2.46E+05	*	4.19E+05	*	6.43E+05	*	2.50E+06	*
Ethanol	5.14E+06	*	5.18E+06	*	6.72E+06	*	1.04E+07	*	1.60E+07	*	3.20E+07	*	5.45E+07	*	8.35E+07	*	3.25E+08	*
Methanol	1.06E+06	*	1.07E+06	*	1.39E+06	*	2.16E+06	*	3.30E+06	*	6.61E+06	*	1.13E+07	*	1.73E+07	*	6.72E+07	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-11(b)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 2 for Non-Residen
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.42E+02	*	1.44E+02	*	1.86E+02	*	2.89E+02	*	4.42E+02	*	8.87E+02	*	1.51E+03	*	2.32E+03	*	9.02E+03	*
Toluene	3.57E+04	*	3.60E+04	*	4.66E+04	*	7.25E+04	*	1.11E+05	*	2.22E+05	*	3.79E+05	*	5.80E+05	*	2.26E+06	*
Ethylbenzene	1.64E+05	*	1.65E+05	*	2.14E+05	*	3.32E+05	*	5.08E+05	*	1.02E+06	*	1.74E+06	*	2.66E+06	*	1.04E+07	*
Xylenes (mixed)	1.46E+05	*	1.47E+05	*	1.91E+05	*	2.96E+05	*	4.53E+05	*	9.08E+05	*	1.55E+06	*	2.37E+06	*	9.24E+06	*
Ethylene Dibromide (EDB)	1.36E+02		1.37E+02		1.78E+02		2.76E+02		4.22E+02		8.46E+02		1.44E+03		2.21E+03	*	8.61E+03	*
Ethylene Dichloride (EDC)	9.52E+01		9.61E+01		1.25E+02		1.93E+02		2.96E+02		5.93E+02		1.01E+03		1.55E+03		6.03E+03	*
Methyl-tert-butyl-ether(MTBE)	4.21E+04	*	4.25E+04	*	5.51E+04	*	8.56E+04	*	1.31E+05	*	2.62E+05	*	4.47E+05	*	6.85E+05	*	2.67E+06	*
Acenaphthene	5.15E+07	*	5.20E+07	*	6.74E+07	*	1.05E+08	*	1.60E+08	*	3.21E+08	*	5.47E+08	*	8.38E+08	*	3.26E+09	*
Anthracene	3.03E+08	*	3.06E+08	*	3.96E+08	*	6.16E+08	*	9.41E+08	*	1.89E+09	*	3.22E+09	*	4.93E+09	*	1.92E+10	*
Benzo(a)anthracene	1.31E+08	*	1.32E+08	*	1.71E+08	*	2.66E+08	*	4.06E+08	*	8.15E+08	*	1.39E+09	*	2.13E+09	*	8.29E+09	*
Benzo(a)pyrene	3.88E+07	*	3.92E+07	*	5.08E+07	*	7.89E+07	*	1.21E+08	*	2.42E+08	*	4.12E+08	*	6.32E+08	*	2.46E+09	*
Benzo(b)fluoranthene	3.47E+07	*	3.50E+07	*	4.54E+07	*	7.05E+07	*	1.08E+08	*	2.16E+08	*	3.69E+08	*	5.65E+08	*	2.20E+09	*
Benzo(k)fluoranthene	1.84E+10	*	1.86E+10	*	2.41E+10	*	3.74E+10	*	5.71E+10	*	1.15E+11	*	1.95E+11	*	2.99E+11	*	1.17E+12	*
Chrysene	1.20E+09	*	1.21E+09	*	1.57E+09	*	2.43E+09	*	3.72E+09	*	7.46E+09	*	1.27E+10	*	1.95E+10	*	7.59E+10	*
Dibenzo(a,h)anthracene	9.93E+08	*	1.00E+09	*	1.30E+09	*	2.02E+09	*	3.08E+09	*	6.18E+09	*	1.05E+10	*	1.61E+10	*	6.29E+10	*
Fluoranthene	6.53E+09	*	6.58E+09	*	8.53E+09	*	1.33E+10	*	2.03E+10	*	4.06E+10	*	6.93E+10	*	1.06E+11	*	4.13E+11	*
Fluorene	1.86E+08	*	1.88E+08	*	2.44E+08	*	3.79E+08	*	5.79E+08	*	1.16E+09	*	1.98E+09	*	3.03E+09	*	1.18E+10	*
Napthalene	4.88E+04	*	4.92E+04	*	6.38E+04	*	9.91E+04	*	1.52E+05	*	3.04E+05	*	5.18E+05	*	7.94E+05	*	3.09E+06	*
Pyrene	7.40E+09	*	7.47E+09	*	9.68E+09	*	1.50E+10	*	2.30E+10	*	4.61E+10	*	7.86E+10	*	1.20E+11	*	4.69E+11	*
TPH-GRO	3.27E+05		3.30E+05		4.28E+05		6.64E+05		1.02E+06		2.04E+06		3.47E+06		5.32E+06		2.07E+07	
TPH-DRO	3.42E+06		3.45E+06		4.48E+06		6.95E+06		1.06E+07		2.13E+07		3.63E+07		5.57E+07		2.17E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	2.13E+05	*	2.15E+05	*	2.79E+05	*	4.34E+05	*	6.63E+05	*	1.33E+06	*	2.27E+06	*	3.47E+06	*	1.35E+07	*
>C8 - C10 (Aliphatics)	4.49E+04	*	4.53E+04	*	5.87E+04	*	9.12E+04	*	1.39E+05	*	2.79E+05	*	4.76E+05	*	7.30E+05	*	2.84E+06	*
>C10 - C12 (Aliphatics)	2.24E+05	*	2.26E+05	*	2.93E+05	*	4.55E+05	*	6.96E+05	*	1.40E+06	*	2.38E+06	*	3.64E+06	*	1.42E+07	*
>C12 - C16 (Aliphatics)	1.02E+06	*	1.03E+06	*	1.33E+06	*	2.07E+06	*	3.17E+06	*	6.35E+06	*	1.08E+07	*	1.66E+07	*	6.47E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	6.88E+04	*	6.94E+04	*	9.00E+04	*	1.40E+05	*	2.14E+05	*	4.28E+05	*	7.30E+05	*	1.12E+06	*	4.36E+06	*
>C10 - C12 (Aromatics)	3.58E+05	*	3.61E+05	*	4.68E+05	*	7.27E+05	*	1.11E+06	*	2.23E+06	*	3.80E+06	*	5.82E+06	*	2.27E+07	*
>C12 - C16 (Aromatics)	1.82E+06	*	1.84E+06	*	2.38E+06	*	3.70E+06	*	5.66E+06	*	1.13E+07	*	1.93E+07	*	2.96E+07	*	1.15E+08	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	2.52E+05	*	2.54E+05	*	3.30E+05	*	5.12E+05	*	7.83E+05	*	1.57E+06	*	2.68E+06	*	4.10E+06	*	1.60E+07	*
Ethyl-tert-butyl-ether (ETBE)	2.50E+04	*	2.52E+04	*	3.27E+04	*	5.07E+04	*	7.76E+04	*	1.56E+05	*	2.65E+05	*	4.06E+05	*	1.58E+06	*
Diisopropyl ether (DIPE)	7.90E+04	*	7.97E+04	*	1.03E+05	*	1.60E+05	*	2.45E+05	*	4.92E+05	*	8.39E+05	*	1.29E+06	*	5.01E+06	*
Ethanol	1.03E+07	*	1.04E+07	*	1.34E+07	*	2.09E+07	*	3.19E+07	*	6.40E+07	*	1.09E+08	*	1.67E+08	*	6.51E+08	*
Methanol	2.12E+06	*	2.14E+06	*	2.78E+06	*	4.31E+06	*	6.59E+06	*	1.32E+07	*	2.25E+07	*	3.45E+07	*	1.34E+08	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-11(c)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 2 for Non-Residen
Distance to Groundwater >50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.85E+02	*	2.87E+02	*	3.72E+02	*	5.78E+02	*	8.84E+02	*	1.77E+03	*	3.02E+03	*	4.63E+03	*	1.80E+04	*
Toluene	7.13E+04	*	7.20E+04	*	9.33E+04	*	1.45E+05	*	2.22E+05	*	4.44E+05	*	7.57E+05	*	1.16E+06	*	4.52E+06	*
Ethylbenzene	3.27E+05	*	3.30E+05	*	4.28E+05	*	6.65E+05	*	1.02E+06	*	2.04E+06	*	3.48E+06	*	5.32E+06	*	2.07E+07	*
Xylenes (mixed)	2.92E+05	*	2.94E+05	*	3.81E+05	*	5.92E+05	*	9.06E+05	*	1.82E+06	*	3.10E+06	*	4.74E+06	*	1.85E+07	*
Ethylene Dibromide (EDB)	2.72E+02		2.74E+02		3.55E+02		5.52E+02		8.44E+02		1.69E+03		2.89E+03	*	4.42E+03	*	1.72E+04	*
Ethylene Dichloride (EDC)	1.90E+02		1.92E+02		2.49E+02		3.87E+02		5.91E+02		1.19E+03		2.02E+03	*	3.10E+03	*	1.21E+04	*
Methyl-tert-butyl-ether(MTBE)	8.43E+04	*	8.50E+04	*	1.10E+05	*	1.71E+05	*	2.62E+05	*	5.25E+05	*	8.95E+05	*	1.37E+06	*	5.34E+06	*
Acenaphthene	1.03E+08	*	1.04E+08	*	1.35E+08	*	2.09E+08	*	3.20E+08	*	6.41E+08	*	1.09E+09	*	1.68E+09	*	6.53E+09	*
Anthracene	6.06E+08	*	6.12E+08	*	7.93E+08	*	1.23E+09	*	1.88E+09	*	3.77E+09	*	6.44E+09	*	9.86E+09	*	3.84E+10	*
Benzo(a)anthracene	2.62E+08	*	2.64E+08	*	3.42E+08	*	5.32E+08	*	8.13E+08	*	1.63E+09	*	2.78E+09	*	4.26E+09	*	1.66E+10	*
Benzo(a)pyrene	7.77E+07	*	7.83E+07	*	1.02E+08	*	1.58E+08	*	2.41E+08	*	4.84E+08	*	8.24E+08	*	1.26E+09	*	4.92E+09	*
Benzo(b)fluoranthene	6.94E+07	*	7.00E+07	*	9.08E+07	*	1.41E+08	*	2.16E+08	*	4.32E+08	*	7.37E+08	*	1.13E+09	*	4.40E+09	*
Benzo(k)fluoranthene	3.68E+10	*	3.71E+10	*	4.81E+10	*	7.47E+10	*	1.14E+11	*	2.29E+11	*	3.91E+11	*	5.98E+11	*	2.33E+12	*
Chrysene	2.39E+09	*	2.42E+09	*	3.13E+09	*	4.86E+09	*	7.44E+09	*	1.49E+10	*	2.54E+10	*	3.90E+10	*	1.52E+11	*
Dibenzo(a,h)anthracene	1.99E+09	*	2.00E+09	*	2.60E+09	*	4.03E+09	*	6.17E+09	*	1.24E+10	*	2.11E+10	*	3.23E+10	*	1.26E+11	*
Fluoranthene	1.31E+10	*	1.32E+10	*	1.71E+10	*	2.65E+10	*	4.05E+10	*	8.13E+10	*	1.39E+11	*	2.12E+11	*	8.27E+11	*
Fluorene	3.73E+08	*	3.76E+08	*	4.87E+08	*	7.57E+08	*	1.16E+09	*	2.32E+09	*	3.96E+09	*	6.06E+09	*	2.36E+10	*
Napthalene	9.76E+04	*	9.84E+04	*	1.28E+05	*	1.98E+05	*	3.03E+05	*	6.08E+05	*	1.04E+06	*	1.59E+06	*	6.18E+06	*
Pyrene	1.48E+10	*	1.49E+10	*	1.94E+10	*	3.01E+10	*	4.60E+10	*	9.22E+10	*	1.57E+11	*	2.41E+11	*	9.38E+11	*
TPH-GRO	6.54E+05		6.60E+05		8.56E+05		1.33E+06		2.03E+06		4.07E+06		6.95E+06		1.06E+07		4.15E+07	
TPH-DRO	6.85E+06		6.91E+06		8.95E+06		1.39E+07		2.13E+07		4.26E+07		7.27E+07		1.11E+08		4.34E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	4.27E+05	*	4.31E+05	*	5.58E+05	*	8.67E+05	*	1.33E+06	*	2.66E+06	*	4.53E+06	*	6.94E+06	*	2.70E+07	*
>C8 - C10 (Aliphatics)	8.98E+04	*	9.06E+04	*	1.17E+05	*	1.82E+05	*	2.79E+05	*	5.59E+05	*	9.53E+05	*	1.46E+06	*	5.69E+06	*
>C10 - C12 (Aliphatics)	4.48E+05	*	4.52E+05	*	5.86E+05	*	9.10E+05	*	1.39E+06	*	2.79E+06	*	4.76E+06	*	7.29E+06	*	2.84E+07	*
>C12 - C16 (Aliphatics)	2.04E+06	*	2.06E+06	*	2.67E+06	*	4.15E+06	*	6.34E+06	*	1.27E+07	*	2.17E+07	*	3.32E+07	*	1.29E+08	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	1.38E+05	*	1.39E+05	*	1.80E+05	*	2.79E+05	*	4.27E+05	*	8.57E+05	*	1.46E+06	*	2.24E+06	*	8.72E+06	*
>C10 - C12 (Aromatics)	7.15E+05	*	7.22E+05	*	9.36E+05	*	1.45E+06	*	2.22E+06	*	4.45E+06	*	7.59E+06	*	1.16E+07	*	4.53E+07	*
>C12 - C16 (Aromatics)	3.64E+06	*	3.68E+06	*	4.76E+06	*	7.40E+06	*	1.13E+07	*	2.27E+07	*	3.87E+07	*	5.93E+07	*	2.31E+08	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	5.04E+05	*	5.08E+05	*	6.59E+05	*	1.02E+06	*	1.57E+06	*	3.14E+06	*	5.35E+06	*	8.20E+06	*	3.19E+07	*
Ethyl-tert-butyl-ether (ETBE)	5.00E+04	*	5.04E+04	*	6.53E+04	*	1.01E+05	*	1.55E+05	*	3.11E+05	*	5.30E+05	*	8.13E+05	*	3.17E+06	*
Diisopropyl ether (DIPE)	1.58E+05	*	1.59E+05	*	2.07E+05	*	3.21E+05	*	4.91E+05	*	9.84E+05	*	1.68E+06	*	2.57E+06	*	1.00E+07	*
Ethanol	2.05E+07	*	2.07E+07	*	2.69E+07	*	4.17E+07	*	6.38E+07	*	1.28E+08	*	2.18E+08	*	3.34E+08	*	1.30E+09	*
Methanol	4.24E+06	*	4.28E+06	*	5.55E+06	*	8.62E+06	*	1.32E+07	*	2.64E+07	*	4.51E+07	*	6.90E+07	*	2.69E+08	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-12(a)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 3 for Non-Residen
Distance to Groundwater <20 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	1.22E+02	*	1.24E+02	*	1.60E+02	*	2.49E+02	*	3.80E+02	*	7.63E+02	*	1.30E+03	*	1.99E+03	*	7.76E+03	*
Toluene	2.98E+04	*	3.01E+04	*	3.90E+04	*	6.06E+04	*	9.27E+04	*	1.86E+05	*	3.17E+05	*	4.85E+05	*	1.89E+06	*
Ethylbenzene	1.36E+05	*	1.37E+05	*	1.77E+05	*	2.76E+05	*	4.21E+05	*	8.45E+05	*	1.44E+06	*	2.21E+06	*	8.60E+06	*
Xylenes (mixed)	1.21E+05	*	1.22E+05	*	1.58E+05	*	2.46E+05	*	3.76E+05	*	7.54E+05	*	1.28E+06	*	1.97E+06	*	7.67E+06	*
Ethylene Dibromide (EDB)	1.21E+02		1.22E+02		1.58E+02		2.45E+02		3.75E+02		7.51E+02		1.28E+03		1.96E+03		7.65E+03	*
Ethylene Dichloride (EDC)	8.94E+01		9.02E+01		1.17E+02		1.82E+02		2.78E+02		5.57E+02		9.49E+02		1.45E+03		5.66E+03	*
Methyl-tert-butyl-ether(MTBE)	4.06E+04	*	4.10E+04	*	5.31E+04	*	8.25E+04	*	1.26E+05	*	2.53E+05	*	4.31E+05	*	6.61E+05	*	2.57E+06	*
Acenaphthene	4.32E+07	*	4.36E+07	*	5.66E+07	*	8.78E+07	*	1.34E+08	*	2.69E+08	*	4.59E+08	*	7.03E+08	*	2.74E+09	*
Anthracene	2.56E+08	*	2.59E+08	*	3.35E+08	*	5.21E+08	*	7.96E+08	*	1.60E+09	*	2.72E+09	*	4.17E+09	*	1.62E+10	*
Benzo(a)anthracene	7.30E+07	*	7.36E+07	*	9.54E+07	*	1.48E+08	*	2.27E+08	*	4.54E+08	*	7.75E+08	*	1.19E+09	*	4.62E+09	*
Benzo(a)pyrene	1.50E+07	*	1.52E+07	*	1.96E+07	*	3.05E+07	*	4.67E+07	*	9.36E+07	*	1.60E+08	*	2.44E+08	*	9.52E+08	*
Benzo(b)fluoranthene	2.88E+07	*	2.90E+07	*	3.76E+07	*	5.85E+07	*	8.94E+07	*	1.79E+08	*	3.06E+08	*	4.68E+08	*	1.82E+09	*
Benzo(k)fluoranthene	6.31E+09	*	6.36E+09	*	8.25E+09	*	1.28E+10	*	1.96E+10	*	3.93E+10	*	6.70E+10	*	1.03E+11	*	4.00E+11	*
Chrysene	9.88E+08	*	9.96E+08	*	1.29E+09	*	2.01E+09	*	3.07E+09	*	6.15E+09	*	1.05E+10	*	1.61E+10	*	6.26E+10	*
Dibenzo(a,h)anthracene	2.48E+08	*	2.50E+08	*	3.24E+08	*	5.03E+08	*	7.69E+08	*	1.54E+09	*	2.63E+09	*	4.03E+09	*	1.57E+10	*
Fluoranthene	4.81E+09	*	4.86E+09	*	6.29E+09	*	9.77E+09	*	1.49E+10	*	3.00E+10	*	5.11E+10	*	7.83E+10	*	3.05E+11	*
Fluorene	1.52E+08	*	1.54E+08	*	1.99E+08	*	3.09E+08	*	4.73E+08	*	9.49E+08	*	1.62E+09	*	2.48E+09	*	9.65E+09	*
Napthalene	4.13E+04	*	4.17E+04	*	5.41E+04	*	8.40E+04	*	1.28E+05	*	2.57E+05	*	4.39E+05	*	6.72E+05	*	2.62E+06	*
Pyrene	4.95E+09	*	4.99E+09	*	6.47E+09	*	1.01E+10	*	1.54E+10	*	3.08E+10	*	5.26E+10	*	8.05E+10	*	3.14E+11	*
TPH-GRO	2.59E+05		2.61E+05		3.38E+05		5.25E+05		8.03E+05		1.61E+06		2.74E+06		4.21E+06		1.64E+07	
TPH-DRO	2.84E+06		2.86E+06		3.71E+06		5.76E+06		8.81E+06		1.77E+07		3.01E+07		4.61E+07		1.80E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	1.66E+05	*	1.68E+05	*	2.17E+05	*	3.37E+05	*	5.16E+05	*	1.03E+06	*	1.76E+06	*	2.70E+06	*	1.05E+07	*
>C8 - C10 (Aliphatics)	3.60E+04	*	3.63E+04	*	4.71E+04	*	7.31E+04	*	1.12E+05	*	2.24E+05	*	3.82E+05	*	5.85E+05	*	2.28E+06	*
>C10 - C12 (Aliphatics)	1.81E+05	*	1.83E+05	*	2.37E+05	*	3.68E+05	*	5.63E+05	*	1.13E+06	*	1.92E+06	*	2.95E+06	*	1.15E+07	*
>C12 - C16 (Aliphatics)	8.26E+05	*	8.34E+05	*	1.08E+06	*	1.68E+06	*	2.57E+06	*	5.15E+06	*	8.77E+06	*	1.34E+07	*	5.24E+07	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	5.64E+04	*	5.69E+04	*	7.38E+04	*	1.15E+05	*	1.75E+05	*	3.51E+05	*	5.99E+05	*	9.18E+05	*	3.58E+06	*
>C10 - C12 (Aromatics)	2.98E+05	*	3.00E+05	*	3.89E+05	*	6.04E+05	*	9.24E+05	*	1.85E+06	*	3.16E+06	*	4.84E+06	*	1.89E+07	*
>C12 - C16 (Aromatics)	1.53E+06	*	1.54E+06	*	2.00E+06	*	3.11E+06	*	4.76E+06	*	9.53E+06	*	1.63E+07	*	2.49E+07	*	9.70E+07	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	2.51E+05	*	2.53E+05	*	3.28E+05	*	5.10E+05	*	7.80E+05	*	1.56E+06	*	2.66E+06	*	4.08E+06	*	1.59E+07	*
Ethyl-tert-butyl-ether (ETBE)	2.23E+04	*	2.25E+04	*	2.91E+04	*	4.52E+04	*	6.91E+04	*	1.39E+05	*	2.36E+05	*	3.62E+05	*	1.41E+06	*
Diisopropyl ether (DIPE)	6.83E+04	*	6.89E+04	*	8.93E+04	*	1.39E+05	*	2.12E+05	*	4.25E+05	*	7.25E+05	*	1.11E+06	*	4.33E+06	*
Ethanol	9.02E+06	*	9.10E+06	*	1.18E+07	*	1.83E+07	*	2.80E+07	*	5.62E+07	*	9.58E+07	*	1.47E+08	*	5.72E+08	*
Methanol	1.65E+06	*	1.66E+06	*	2.16E+06	*	3.35E+06	*	5.12E+06	*	1.03E+07	*	1.75E+07	*	2.68E+07	*	1.04E+08	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater < 20 ft for which default vadose zone DAF is 1.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-12(b)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 3 for Non-Residen
Distance to Groundwater between 20 and 50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	2.45E+02	*	2.47E+02	*	3.20E+02	*	4.97E+02	*	7.61E+02	*	1.53E+03	*	2.60E+03	*	3.98E+03	*	1.55E+04	*
Toluene	5.97E+04	*	6.02E+04	*	7.81E+04	*	1.21E+05	*	1.85E+05	*	3.72E+05	*	6.34E+05	*	9.71E+05	*	3.78E+06	*
Ethylbenzene	2.71E+05	*	2.74E+05	*	3.55E+05	*	5.51E+05	*	8.43E+05	*	1.69E+06	*	2.88E+06	*	4.41E+06	*	1.72E+07	*
Xylenes (mixed)	2.42E+05	*	2.44E+05	*	3.16E+05	*	4.92E+05	*	7.52E+05	*	1.51E+06	*	2.57E+06	*	3.94E+06	*	1.53E+07	*
Ethylene Dibromide (EDB)	2.41E+02		2.43E+02		3.16E+02		4.90E+02		7.49E+02		1.50E+03		2.56E+03	*	3.93E+03	*	1.53E+04	*
Ethylene Dichloride (EDC)	1.79E+02		1.80E+02		2.34E+02		3.63E+02		5.55E+02		1.11E+03		1.90E+03		2.91E+03	*	1.13E+04	*
Methyl-tert-butyl-ether(MTBE)	8.13E+04	*	8.20E+04	*	1.06E+05	*	1.65E+05	*	2.52E+05	*	5.06E+05	*	8.63E+05	*	1.32E+06	*	5.15E+06	*
Acenaphthene	8.65E+07	*	8.73E+07	*	1.13E+08	*	1.76E+08	*	2.69E+08	*	5.39E+08	*	9.18E+08	*	1.41E+09	*	5.48E+09	*
Anthracene	5.13E+08	*	5.17E+08	*	6.70E+08	*	1.04E+09	*	1.59E+09	*	3.19E+09	*	5.44E+09	*	8.34E+09	*	3.25E+10	*
Benzo(a)anthracene	1.46E+08	*	1.47E+08	*	1.91E+08	*	2.96E+08	*	4.53E+08	*	9.09E+08	*	1.55E+09	*	2.37E+09	*	9.25E+09	*
Benzo(a)pyrene	3.00E+07	*	3.03E+07	*	3.93E+07	*	6.10E+07	*	9.33E+07	*	1.87E+08	*	3.19E+08	*	4.89E+08	*	1.90E+09	*
Benzo(b)fluoranthene	5.76E+07	*	5.81E+07	*	7.53E+07	*	1.17E+08	*	1.79E+08	*	3.58E+08	*	6.11E+08	*	9.36E+08	*	3.65E+09	*
Benzo(k)fluoranthene	1.26E+10	*	1.27E+10	*	1.65E+10	*	2.56E+10	*	3.92E+10	*	7.85E+10	*	1.34E+11	*	2.05E+11	*	7.99E+11	*
Chrysene	1.98E+09	*	1.99E+09	*	2.58E+09	*	4.01E+09	*	6.14E+09	*	1.23E+10	*	2.10E+10	*	3.21E+10	*	1.25E+11	*
Dibenzo(a,h)anthracene	4.95E+08	*	4.99E+08	*	6.47E+08	*	1.01E+09	*	1.54E+09	*	3.08E+09	*	5.26E+09	*	8.05E+09	*	3.14E+10	*
Fluoranthene	9.62E+09	*	9.71E+09	*	1.26E+10	*	1.95E+10	*	2.99E+10	*	5.99E+10	*	1.02E+11	*	1.57E+11	*	6.10E+11	*
Fluorene	3.05E+08	*	3.07E+08	*	3.99E+08	*	6.19E+08	*	9.46E+08	*	1.90E+09	*	3.24E+09	*	4.96E+09	*	1.93E+10	*
Napthalene	8.27E+04	*	8.34E+04	*	1.08E+05	*	1.68E+05	*	2.57E+05	*	5.15E+05	*	8.78E+05	*	1.34E+06	*	5.24E+06	*
Pyrene	9.90E+09	*	9.99E+09	*	1.29E+10	*	2.01E+10	*	3.07E+10	*	6.17E+10	*	1.05E+11	*	1.61E+11	*	6.27E+11	*
TPH-GRO	5.17E+05		5.22E+05		6.76E+05		1.05E+06		1.61E+06		3.22E+06		5.49E+06		8.41E+06		3.28E+07	
TPH-DRO	5.67E+06		5.72E+06		7.42E+06		1.15E+07		1.76E+07		3.53E+07		6.02E+07		9.23E+07		3.59E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	3.32E+05	*	3.35E+05	*	4.34E+05	*	6.75E+05	*	1.03E+06	*	2.07E+06	*	3.53E+06	*	5.40E+06	*	2.10E+07	*
>C8 - C10 (Aliphatics)	7.20E+04	*	7.26E+04	*	9.41E+04	*	1.46E+05	*	2.24E+05	*	4.48E+05	*	7.64E+05	*	1.17E+06	*	4.56E+06	*
>C10 - C12 (Aliphatics)	3.62E+05	*	3.66E+05	*	4.74E+05	*	7.36E+05	*	1.13E+06	*	2.26E+06	*	3.85E+06	*	5.89E+06	*	2.30E+07	*
>C12 - C16 (Aliphatics)	1.65E+06	*	1.67E+06	*	2.16E+06	*	3.36E+06	*	5.13E+06	*	1.03E+07	*	1.75E+07	*	2.69E+07	*	1.05E+08	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	1.13E+05	*	1.14E+05	*	1.48E+05	*	2.29E+05	*	3.51E+05	*	7.03E+05	*	1.20E+06	*	1.84E+06	*	7.15E+06	*
>C10 - C12 (Aromatics)	5.95E+05	*	6.00E+05	*	7.78E+05	*	1.21E+06	*	1.85E+06	*	3.71E+06	*	6.32E+06	*	9.68E+06	*	3.77E+07	*
>C12 - C16 (Aromatics)	3.06E+06	*	3.09E+06	*	4.00E+06	*	6.22E+06	*	9.51E+06	*	1.91E+07	*	3.25E+07	*	4.98E+07	*	1.94E+08	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	5.02E+05	*	5.06E+05	*	6.57E+05	*	1.02E+06	*	1.56E+06	*	3.13E+06	*	5.33E+06	*	8.17E+06	*	3.18E+07	*
Ethyl-tert-butyl-ether (ETBE)	4.45E+04	*	4.49E+04	*	5.82E+04	*	9.04E+04	*	1.38E+05	*	2.77E+05	*	4.73E+05	*	7.24E+05	*	2.82E+06	*
Diisopropyl ether (DIPE)	1.37E+05	*	1.38E+05	*	1.79E+05	*	2.77E+05	*	4.24E+05	*	8.51E+05	*	1.45E+06	*	2.22E+06	*	8.65E+06	*
Ethanol	1.80E+07	*	1.82E+07	*	2.36E+07	*	3.67E+07	*	5.60E+07	*	1.12E+08	*	1.92E+08	*	2.94E+08	*	1.14E+09	*
Methanol	3.30E+06	*	3.33E+06	*	4.31E+06	*	6.70E+06	*	1.02E+07	*	2.05E+07	*	3.50E+07	*	5.36E+07	*	2.09E+08	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater between 20 and 50 ft for which default vadose zone DAF is 2.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.

Table 7-12(c)
Soil Concentration Protective of Indoor Inhalation for Groundwater for Different Distances to On/Off-Site Building for Soil Type 3 for Non-Residen
Distance to Groundwater >50 ft

Chemical	Distance to On/Off-Site Building (ft)																	
	0		25		50		75		100		150		200		250		500	
Benzene	4.90E+02	*	4.94E+02	*	6.41E+02	*	9.95E+02	*	1.52E+03	*	3.05E+03	*	5.20E+03	*	7.97E+03	*	3.10E+04	*
Toluene	1.19E+05	*	1.20E+05	*	1.56E+05	*	2.42E+05	*	3.71E+05	*	7.43E+05	*	1.27E+06	*	1.94E+06	*	7.56E+06	*
Ethylbenzene	5.43E+05	*	5.48E+05	*	7.10E+05	*	1.10E+06	*	1.69E+06	*	3.38E+06	*	5.76E+06	*	8.83E+06	*	3.44E+07	*
Xylenes (mixed)	4.84E+05	*	4.88E+05	*	6.33E+05	*	9.83E+05	*	1.50E+06	*	3.01E+06	*	5.14E+06	*	7.87E+06	*	3.07E+07	*
Ethylene Dibromide (EDB)	4.83E+02		4.87E+02		6.31E+02		9.80E+02		1.50E+03		3.01E+03	*	5.12E+03	*	7.85E+03	*	3.06E+04	*
Ethylene Dichloride (EDC)	3.57E+02		3.61E+02		4.68E+02		7.26E+02		1.11E+03		2.23E+03	*	3.80E+03	*	5.81E+03	*	2.27E+04	*
Methyl-tert-butyl-ether(MTBE)	1.63E+05	*	1.64E+05	*	2.13E+05	*	3.30E+05	*	5.05E+05	*	1.01E+06	*	1.73E+06	*	2.64E+06	*	1.03E+07	*
Acenaphthene	1.73E+08	*	1.75E+08	*	2.26E+08	*	3.51E+08	*	5.37E+08	*	1.08E+09	*	1.84E+09	*	2.81E+09	*	1.10E+10	*
Anthracene	1.03E+09	*	1.03E+09	*	1.34E+09	*	2.08E+09	*	3.18E+09	*	6.38E+09	*	1.09E+10	*	1.67E+10	*	6.50E+10	*
Benzo(a)anthracene	2.92E+08	*	2.94E+08	*	3.82E+08	*	5.93E+08	*	9.07E+08	*	1.82E+09	*	3.10E+09	*	4.75E+09	*	1.85E+10	*
Benzo(a)pyrene	6.01E+07	*	6.06E+07	*	7.86E+07	*	1.22E+08	*	1.87E+08	*	3.74E+08	*	6.38E+08	*	9.77E+08	*	3.81E+09	*
Benzo(b)fluoranthene	1.15E+08	*	1.16E+08	*	1.51E+08	*	2.34E+08	*	3.58E+08	*	7.17E+08	*	1.22E+09	*	1.87E+09	*	7.29E+09	*
Benzo(k)fluoranthene	2.52E+10	*	2.55E+10	*	3.30E+10	*	5.12E+10	*	7.83E+10	*	1.57E+11	*	2.68E+11	*	4.10E+11	*	1.60E+12	*
Chrysene	3.95E+09	*	3.99E+09	*	5.17E+09	*	8.02E+09	*	1.23E+10	*	2.46E+10	*	4.19E+10	*	6.43E+10	*	2.50E+11	*
Dibenzo(a,h)anthracene	9.90E+08	*	9.99E+08	*	1.29E+09	*	2.01E+09	*	3.07E+09	*	6.17E+09	*	1.05E+10	*	1.61E+10	*	6.27E+10	*
Fluoranthene	1.92E+10	*	1.94E+10	*	2.52E+10	*	3.91E+10	*	5.98E+10	*	1.20E+11	*	2.04E+11	*	3.13E+11	*	1.22E+12	*
Fluorene	6.09E+08	*	6.15E+08	*	7.97E+08	*	1.24E+09	*	1.89E+09	*	3.80E+09	*	6.47E+09	*	9.91E+09	*	3.86E+10	*
Napthalene	1.65E+05	*	1.67E+05	*	2.16E+05	*	3.36E+05	*	5.14E+05	*	1.03E+06	*	1.76E+06	*	2.69E+06	*	1.05E+07	*
Pyrene	1.98E+10	*	2.00E+10	*	2.59E+10	*	4.02E+10	*	6.15E+10	*	1.23E+11	*	2.10E+11	*	3.22E+11	*	1.25E+12	*
TPH-GRO	1.03E+06		1.04E+06		1.35E+06		2.10E+06		3.21E+06		6.44E+06		1.10E+07		1.68E+07		6.55E+07	
TPH-DRO	1.13E+07		1.14E+07		1.48E+07		2.30E+07		3.52E+07		7.06E+07		1.20E+08		1.85E+08		7.19E+08	
TPH-ORO	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C6 - C8 (Aliphatics)	6.64E+05	*	6.70E+05	*	8.69E+05	*	1.35E+06	*	2.06E+06	*	4.14E+06	*	7.05E+06	*	1.08E+07	*	4.21E+07	*
>C8 - C10 (Aliphatics)	1.44E+05	*	1.45E+05	*	1.88E+05	*	2.92E+05	*	4.47E+05	*	8.96E+05	*	1.53E+06	*	2.34E+06	*	9.12E+06	*
>C10 - C12 (Aliphatics)	7.25E+05	*	7.31E+05	*	9.48E+05	*	1.47E+06	*	2.25E+06	*	4.51E+06	*	7.69E+06	*	1.18E+07	*	4.59E+07	*
>C12 - C16 (Aliphatics)	3.31E+06	*	3.33E+06	*	4.32E+06	*	6.71E+06	*	1.03E+07	*	2.06E+07	*	3.51E+07	*	5.38E+07	*	2.09E+08	*
>C16 - C21 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aliphatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C8 - C10 (Aromatics)	2.26E+05	*	2.28E+05	*	2.95E+05	*	4.59E+05	*	7.01E+05	*	1.41E+06	*	2.40E+06	*	3.67E+06	*	1.43E+07	*
>C10 - C12 (Aromatics)	1.19E+06	*	1.20E+06	*	1.56E+06	*	2.42E+06	*	3.70E+06	*	7.41E+06	*	1.26E+07	*	1.94E+07	*	7.54E+07	*
>C12 - C16 (Aromatics)	6.12E+06	*	6.18E+06	*	8.01E+06	*	1.24E+07	*	1.90E+07	*	3.81E+07	*	6.50E+07	*	9.96E+07	*	3.88E+08	*
>C16 - C21 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
>C21 - C35 (Aromatics)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-amyl-methyl-ether (TAME)	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tertiary-butyl- alcohol (TBA)	1.00E+06	*	1.01E+06	*	1.31E+06	*	2.04E+06	*	3.12E+06	*	6.25E+06	*	1.07E+07	*	1.63E+07	*	6.36E+07	*
Ethyl-tert-butyl-ether (ETBE)	8.91E+04	*	8.98E+04	*	1.16E+05	*	1.81E+05	*	2.77E+05	*	5.55E+05	*	9.45E+05	*	1.45E+06	*	5.64E+06	*
Diisopropyl ether (DIPE)	2.73E+05	*	2.76E+05	*	3.57E+05	*	5.55E+05	*	8.48E+05	*	1.70E+06	*	2.90E+06	*	4.44E+06	*	1.73E+07	*
Ethanol	3.61E+07	*	3.64E+07	*	4.72E+07	*	7.33E+07	*	1.12E+08	*	2.25E+08	*	3.83E+08	*	5.87E+08	*	2.29E+09	*
Methanol	6.60E+06	*	6.65E+06	*	8.63E+06	*	1.34E+07	*	2.05E+07	*	4.11E+07	*	7.00E+07	*	1.07E+08	*	4.18E+08	*
Arsenic	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium III	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium VI	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
NA : Not Available
Target levels are based on distance to groundwater >50 ft for which default vadose zone DAF is 4.
All concentrations in mg/kg.
* : Calculated Target Level exceeded effective saturated soil concentration (if available) or saturated soil concentration. Calculated value is shown.