Look-Up Tables

Transpiration

Evaporation

Halin

GROUND WATER VOLATILIZING TO INDOOR AIR

1-11(6)

Groundwater

South Dakota Department of Agriculture and Natural Resources Inspection, Compliance, and Remediation Program
Pierre, SD 57501

Hydrologic Cycle

*TABLE 1 - GROUND WATER SIX INCHES TO LESS THAN FIVE FEET BELOW GROUND SURFACE

Residential Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	1.8	1.8	2.1
Toluene (mg/L)	230	240	270
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	19,000	19,000	19,000
Residential Building > 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	2.1	2.2	2.5
Toluene (mg/L)	280	290	320
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	23,000	23,000	23,000
Commercial Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	7.3	7.6	8.6
Benzene (mg/L) Toluene (mg/L)	7.3 **>520	7.6 **>520	8.6 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170	7.6 **>520 **>170	8.6 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	7.6 **>520 **>170 **>200	8.6 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	7.6 **>520 **>170 **>200 **>31	8.6 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	7.6 **>520 **>170 **>200	8.6 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000	7.6 **>520 **>170 **>200 **>31 **>48,000	8.6 **>520 **>170 **>200 **>31 **>48,000
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand	7.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt	8.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9	7.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.3	8.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520	7.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.3 **>520	8.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 10 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170	7.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.3 **>520 **>170	8.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 10 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170 **>200	7.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.3 **>520 **>170 **>200	8.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 10 **>520 **>170 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170	7.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.3 **>520 **>170	8.6 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 10 **>520 **>170

^{*} Values in this table are NOT to be used if both contaminated soil and contaminated ground water are present under a building

^{**&}quot;>" indicates risk-based target concentration greater than constituent solubility value; concentrations exceeding these levels are indicative of free phase product and free product removal is required

*TABLE 2 - GROUND WATER FIVE FEET TO LESS THAN TEN FEET BELOW GROUND SURFACE

Residential Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	1.8	1.9	2.6
Toluene (mg/L)	230	240	340
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	19,000	19,000	20,000
Residential Building > 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	2.2	2.3	3.0
Toluene (mg/L)	280	300	390
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	23,000	24,000	24,000
Commercial Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	7.3	7.8	11
Benzene (mg/L) Toluene (mg/L)	7.3 **>520	7.8 **>520	11 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170	7.8 **>520 **>170	11 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	7.8 **>520 **>170 **>200	11 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	7.8 **>520 **>170 **>200 **>31	11 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	7.8 **>520 **>170 **>200	11 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000	7.8 **>520 **>170 **>200 **>31 **>48,000	11 **>520 **>170 **>200 **>31 **>48,000
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand	7.8 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt	11 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9	7.8 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.4	11 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 12
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520	7.8 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.4 **>520	11 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 12 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170	7.8 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.4 **>520 **>170	11 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 12 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170 **>200	7.8 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.4 **>520 **>170 **>200	11 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 12 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170	7.8 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.4 **>520 **>170	11 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 12 **>520 **>170

^{*} Values in this table are NOT to be used if both contaminated soil and contaminated ground water are present under a building

^{**&}quot;>" indicates risk-based target concentration greater than constituent solubility value; concentrations exceeding these levels are indicative of free phase product and free product removal is required

*TABLE 3 - GROUND WATER TEN FEET TO LESS THAN FIFTEEN FEET BELOW GROUND SURFACE

Residential Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	1.8	1.9	3.2
Toluene (mg/L)	230	250	420
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	19,000	20,000	21,000
Residential Building > 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	2.2	2.3	3.6
Toluene (mg/L)	280	300	470
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	24,000	24,000	25,000
Commercial Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Commercial Building < 1,200 square feet Benzene (mg/L)	7.3	Sandy Silt to Clayey Silt 8.0	Sandy Clay to Clay 13
			13 **>520
Benzene (mg/L)	7.3	8.0	13
Benzene (mg/L) Toluene (mg/L)	7.3 **>520	8.0 **>520 **>170 **>200	13 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	8.0 **>520 **>170 **>200 **>31	13 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	8.0 **>520 **>170 **>200	13 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	8.0 **>520 **>170 **>200 **>31	13 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000	8.0 **>520 **>170 **>200 **>31 **>48,000	13 **>520 **>170 **>200 **>31 **>48,000
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520	8.0 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt	13 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9	8.0 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.6	13 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 15 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170 **>200	8.0 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.6 **>520	13 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 15 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170	8.0 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.6 **>520 **>170	13 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 15 **>520 **>170

^{*} Values in this table are NOT to be used if both contaminated soil and contaminated ground water are present under a building

^{**&}quot;>" indicates risk-based target concentration greater than constituent solubility value; concentrations exceeding these levels are indicative of free phase product and free product removal is required

*TABLE 4 - GROUND WATER FIFTEEN FEET TO LESS THAN TWENTY FEET BELOW GROUND SURFACE

Residential Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	1.8	2.0	3.8
Toluene (mg/L)	230	260	490
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	19,000	20,000	22,000
Residential Building > 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	2.2	2.4	4.2
Toluene (mg/L)	280	310	**>520
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	24,000	25,000	26,000
Commercial Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Commercial Building < 1,200 square feet Benzene (mg/L)	7.3	Sandy Silt to Clayey Silt 8.1	Sandy Clay to Clay 16
Benzene (mg/L)	7.3	8.1	16
Benzene (mg/L) Toluene (mg/L)	7.3 **>520	8.1 **>520 **>170 **>200	16 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	8.1 **>520 **>170 **>200 **>31	16 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	8.1 **>520 **>170 **>200	16 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	8.1 **>520 **>170 **>200 **>31	16 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000	8.1 **>520 **>170 **>200 **>31 **>48,000	16 **>520 **>170 **>200 **>31 **>48,000
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand	8.1 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.8 **>520	16 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 17 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9	8.1 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.8 **>520 **>170	16 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170 **>200	8.1 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.8 **>520 **>170 **>200	16 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 17 **>520 **>170 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 8.9 **>520 **>170	8.1 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.8 **>520 **>170	16 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 17 **>520 **>170

^{*} Values in this table are NOT to be used if both contaminated soil and contaminated ground water are present under a building

^{**&}quot;>" indicates risk-based target concentration greater than constituent solubility value; concentrations exceeding these levels are indicative of free phase product and free product removal is required

*TABLE 5 - GROUND WATER TWENTY FEET BELOW GROUND SURFACE AND DEEPER

Residential Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	1.8	2.0	4.4
Toluene (mg/L)	230	260	**>520
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	19,000	21,000	22,000
Residential Building > 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	2.2	2.4	4.8
Toluene (mg/L)	280	310	**>520
Ethyl Benzene (mg/L)	**>170	**>170	**>170
Xylenes (mg/L)	**>200	**>200	**>200
Naphthalene (mg/L)	**>31	**>31	**>31
Methyl Tertiary Butyl Ether (mg/L)	24,000	25,000	27,000
Commercial Building < 1,200 square feet	Sand to Clayey Sand	Sandy Silt to Clayey Silt	Sandy Clay to Clay
Benzene (mg/L)	7.3	8.3	18
Benzene (mg/L) Toluene (mg/L)	7.3 **>520	8.3 **>520	18 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170	8.3 **>520 **>170	18 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	8.3 **>520 **>170 **>200	18 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L)	7.3 **>520 **>170 **>200 **>31	8.3 **>520 **>170 **>200 **>31	18 **>520 **>170 **>200 **>31
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200	8.3 **>520 **>170 **>200	18 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000	8.3 **>520 **>170 **>200 **>31 **>48,000	18 **>520 **>170 **>200 **>31 **>48,000
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand	8.3 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt	18 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 9.0	8.3 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.9	18 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 20
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 9.0 **>520	8.3 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.9 **>520	18 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 20 **>520
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 9.0 **>520 **>170	8.3 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.9 **>520 **>170	18 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 20 **>520 **>170
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 9.0 **>520 **>170 **>200 **>520 **>170 **>200	8.3 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.9 **>520 **>170 **>200	18 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 20 **>520 **>170 **>200 **>520 **>520 **>170 **>200
Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L) Xylenes (mg/L) Naphthalene (mg/L) Methyl Tertiary Butyl Ether (mg/L) Commercial Building > 1,200 square feet Benzene (mg/L) Toluene (mg/L) Ethyl Benzene (mg/L)	7.3 **>520 **>170 **>200 **>31 **>48,000 Sand to Clayey Sand 9.0 **>520 **>170	8.3 **>520 **>170 **>200 **>31 **>48,000 Sandy Silt to Clayey Silt 9.9 **>520 **>170	18 **>520 **>170 **>200 **>31 **>48,000 Sandy Clay to Clay 20 **>520 **>170

^{*} Values in this table are NOT to be used if both contaminated soil and contaminated ground water are present under a building

^{**&}quot;>" indicates risk-based target concentration greater than constituent solubility value; concentrations exceeding these levels are indicative of free phase product and free product removal is required