TABLE 12-48
HAZARD QUOTIENTS FOR COPCS IN SHALLOW GROUNDWATER
TIDAL FLATS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CAS NUMBER	CHEMICAL	DETECTION FREQUENCY	UNITS	RME (1) CONCENTRATION	CT (2) CONCENTRATION	BACKGROUND VALUE (4)	SCREENING TOXICITY VALUE (3) MG/L	HAZARD QUOTIENTS		
								RME (1)	CT (2)	BACKGROUND
Volatile Organics										
75-34-3	1,1-Dichloroethane	9/ 28	mg/L	0.015	0.01499	NA	0.047	3.2E-01	3.2E-01	NA
75-15-0	Carbon disulfide	9/ 29	mg/L	0.0011	0.00112	NA	0.00092	1.2E+00	1.2E+00	NA
156-59-2	Cis-1,2-Dichloroethene	4/ 28	mg/L	0.24	0.24085	NA	0.59	4.1E-01	4.1E-01	NA
100-41-4	Ethyl benzene	2/ 12	mg/L	0.0045	0.00451	NA	0.0073	6.2E-01	6.2E-01	NA
108-88-3	Toluene	2/ 13	mg/L	0.0025	0.00252	NA	0.0098	2.6E-01	2.6E-01	NA
75-01-4	Vinyl chloride	3/ 28	mg/L	0.087	0.0870018	NA				NA
1330-20-7	Xylenes, Total	2/ 13	mg/L	0.0061	0.00606	NA	0.013	4.7E-01	4.7E-01	NA

(1) Reasonable Maximum Exposure - Lowest of the maximum or 95% UCL concentration detected in exposure area.
(2) Central Tendency - Arithmetic mean concentration, calculated using 1/2 the detection limit for non-detects.
(3) Lowest of surface water screening toxicity values presented in Table 12-37
(4) Background data are not available for groundwater.
(5) Analytes with a maximum concentration less than the screening RTV are eliminated as COPCs. Analytes with an FOD < 5% are unlikely to result in significant ecological exposures and are therefore eliminated as COPCs.
J - Estimated value
Shaded Hazard Quotients = Hazard Quotients greater than 1.