TABLE 12-52
HAZARD QUOTIENTS FOR COPCS IN SURFACE WATER
OUTFALL 8 HIGH TIDE

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										
75-01-4	Vinyl chloride	2/ 3	mg/L	0.014	0.0075	ND	NA	NA	NA	
Inorganics/Metals										
7429-90-5	Aluminum	3/ 3	mg/L	0.546	0.453	0.2283	0.087	6.3E+00	5.2E+00	2.6E+00
7440-39-3	Barium	2/ 3	mg/L	0.012	0.01005	ND	0.004	3.0E+00	2.5E+00	
7440-47-3	Chromium	3/ 3	mg/L	0.0367	0.024	ND	0.011	3.3E+00	2.2E+00	
7440-50-8	Copper	3/ 3	mg/L	0.0326	0.0244	ND	0.0024	1.4E+01	1.0E+01	
7439-89-6	Iron	3/ 3	mg/L	1.42	1.159	0.2476	1	1.4E+00	1.2E+00	2.5E-01
7439-92-1	Lead	3/ 3	mg/L	0.0052	0.0038	0.00073	0.001	5.2E+00	3.8E+00	7.3E-01
7439-96-5	Manganese	3/ 3	mg/L	0.397	0.271	0.01213	0.12	3.3E+00	2.3E+00	1.0E-01
7440-02-0	Nickel	3/ 3	mg/L	0.0088	0.0066	ND	0.008118	1.1E+00	8.1E-01	
Metals, Dissolved										
7429-90-5	Aluminum	3/ 3	mg/L	0.17	0.14	0.186	0.087	2.0E+00	1.6E+00	2.1E+00
7440-39-3	Barium	1/ 3	mg/L	0.0109	0.0074	ND	0.004	2.7E+00	1.8E+00	
7440-50-8	Copper	3/ 3	mg/L	0.0151	0.01017	ND	0.0024	6.3E+00	4.2E+00	
7439-96-5	Manganese	3/ 3	mg/L	0.337	0.238	0.0155	0.12	2.8E+00	2.0E+00	1.3E-01
7440-02-0	Nickel	3/ 3	mg/L	0.0085	0.0057	ND	0.008118	1.0E+00	7.1E-01	

(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 screening toxicity values presented in Table 12-37.
(4) The background concentration shown here is equal to the average concentration from the background high tide data set (Table 12-9).