RAYMARK
36
11542

TABLES

11542

TABLE 2-1
HISTORY OF ACTIVITIES ASSOCIATED WITH RAYMARK FACILITY AND ENVIRONS
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

DATE	ACTIVITY	COMPANY CONDUCTING ACTIVITY*	GENERAL FINDINGS
1992-1994	CERCLA Removal Action at the Raymark Facility to abate imminent health risks	ELI	Mitigated imminent health risks posed by site conditions.
1993	Soil Sampling	Metcalf & Eddy - CT DEP	Soil samples collected from residential properties within AOC C.
1993	Final Site Inspection Report for Raymark Industries issued	Weston (ARCS)	Included collection of sediment samples along Ferry Creek and the Housatonic River to monitor contaminant migration from the Raymark Facility. Numerous site-related organic and inorganic contaminants detected at elevated levels. Soil sampling detected site-related contaminants at the facility and nearby residential properties. Report also summarized previous sampling results (soil, sediment, groundwater).
1993	Fish and Shellfish Sampling	EPA and CT DEP	Fish/shellfish analyses from samples collected from various Stratford water bodies, including Housatonic River, Ferry Creek, Selby Pond, and other ponds. Health advisory issued to limit consumption of eels from Selby Pond.
1993-1995	Expanded Site Inspections (ESIs) and Vertical Sampling Program (VSP)	Weston (TAT/ARCS)	Surficial and subsurface soil and groundwater sampling conducted at various locations throughout Stratford identified contamination. Commercial and residential properties within the study area were investigated by Weston under TAT and ARCS, respectively.
1993-1994	Comprehensive Site Investigation (CSI) reports issued, Stratford Superfund Sites	HNUS (ARCS)	Surficial and subsurface soil investigations and sampling for lead, PCBs, and asbestos conducted at Stratford residential properties, using a grid sampling system, to provide data necessary to proceed with the Stratford Superfund Sites Remediation Program. The properties investigated by HNUS are outside the current OU3 study area, and are therefore not discussed in this report, but data from these studies were used to help define the current OU3 study area.

TABLE 2-1 (cont.)
HISTORY OF ACTIVITIES ASSOCIATED WITH RAYMARK FACILITY AND ENVIRONS
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

DATE	ACTIVITY	COMPANY CONDUCTING ACTIVITY*	GENERAL FINDINGS
1994-1995	Comprehensive Site Investigations (CSI), Stratford Superfund Sites, Final CSI Report issued 1995	Foster Wheeler	Surficial and subsurface soil investigations conducted at Stratford residential properties, using a grid sampling system, to provide data necessary to proceed with the Stratford Superfund Sites Remediation Program. Contamination identified.
1994	Hydrologic Runoff Analysis Report issued	ELI	Investigated surface water samples associated with drainage system network and diversion bypass around Lagoon No. 4. Contaminant discharge identified as result of drainage network, not a specific source or spill.
1994	Ground Penetrating Radar (GPR) Survey Report issued	Hager-Richter	Data obtained on depth of fill and presence of buried metal objects at three properties within the study area (Morgan Francis, Housatonic Boat Club, and Spada).
1994-1996	Removal Action and Post-Excavation Programs	Foster Wheeler	Post-excavation records for soil removal actions conducted at 46 properties document the remediation activities and indicate that the established clean-up criteria were achieved.
1995	Final RCRA Facility Investigation Report, Raymark Industries, issued	ELI	Reported results from monitoring wells and soil borings, Phase IIA and IIB groundwater sampling rounds, nature and extent of Raymark Facility contamination. Continued to exceed drinking water standards.
1995	Final Remedial Investigation Report, Raymark Facility, issued	HNUS (ARCS)	Compiled results reported by ELI and other contractors as part of RCRA Facility Investigation and CERCLA time-critical removal actions at Raymark Facility. Widespread groundwater and soil contamination at facility. Recommend additional investigations of surface water, sediment, and groundwater off site.
1997	Ecological Risk Assessment	NOAA	Assessed risks to ecological receptors posed by hazardous Raymark Facility waste materials present in Ferry Creek, portions of the Housatonic River, and associated wetlands.

TABLE 2-1 (cont.)
HISTORY OF ACTIVITIES ASSOCIATED WITH RAYMARK FACILITY AND ENVIRONS
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

DATE	ACTIVITY	COMPANY CONDUCTING ACTIVITY*	GENERAL FINDINGS
1997	Draft Phase II and Draft Phase III Tech Memos, Selby Pond issued	HNUS	Reported nature and extent of surface water and sediment contamination in and around Selby Pond. Identified hydrologic connection between Ferry Creek and pond. Recommended consideration of remedial action to be combined with that of Ferry Creek.
1997	Final Tech Memo, Compilation of Existing Data, Raymark - Ferry Creek issued	B&RE (RAC)	Compiled existing data. Identified data gaps to be filled during Raymark - Ferry Creek RI.
1988	Draft Evaluation of Raymark Superfund Data for PRG Development	SAIC	Evaluated historical and recently collected chemistry and toxicity data for development of preliminary remediation goals for Raymark-related contaminants of concern.
1999	Evaluation of Ecological Risk to Avian and Mammalian Receptors in the Vicinity of Upper and Middle Ferry Creek	SAIC	Evaluated potential risk to avian and mammalian receptor species utilizing habitat in upper and middle Ferry Creek
1999	Phase III Ecological Risk Assessment; characterization of Areas C-F	SAIC	Conducted Site-Specific Marine Ecological Investigation to assess potential ecological risks to the aquatic environments of Areas C-F

Notes:

* - ELI was hired by Raymark Industries, Inc. to perform environmental investigations at the Raymark Facility. Metcalf & Eddy performed environmental sampling under contract to CT DEP. Foster Wheeler was contracted by U.S. ACOE to perform environmental investigations to support the Stratford Superfund Sites Removal Action Program. Weston was contracted by EPA to perform environmental investigations at the Raymark Facility and environs, including residential and commercial properties in Stratford, under TAT and ARCS contracts. NOAA and their contractor performed ecological risk assessment work for EPA. HNUS/B&RE (presently TtNUS) was contracted by EPA to perform environmental investigations at the Raymark Facility and environs to complete associated RI/FS activities under ARCS and RAC contracts. Hager-Richter Geoscience, Inc. was subcontracted by HNUS (presently TtNUS) to perform a GPR survey to support the RI/FS activities.

CSI - Comprehensive Site Investigation

ESI - Expanded Site Inspection

GPR - Ground Penetrating Radar

VSP - Vertical Sampling Program

TABLE 4-1
CHEMICAL COMPOUNDS USED OR HANDLED AT THE RAYMARK FACILITY
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

CHEMICAL COMPOUND/MATERIAL	DESCRIPTION	INFORMATION SOURCES			
		NO. 1	NO. 2	NO. 3	NO. 4
Acetone	2-Propanone	X		X	
Adhesive CR04					X
Alcohol			X		X
Aluminum	Alumina		X		X
Ammonia Aqua		X			X
Arco 4545					X
Asbestos			X	X	X
Boiler Feed Water		X			
1-Butanol	N-Butyl Alcohol			X	
2-Butanone	MEK			X	
N-Butyl Alcohol				X	
Carbon Tetrachloride	Perchloromethane			X	
Caustic	Sodium Hydroxide	X			X
Caustic Liquid/Sludge	Sodium Hydroxide				X
China Oil					X
Chinawood Oil	Meta Para Cresol; Phenolic Mixture	X			
Ching Oil					X
Chlorinated Fluorocarbons				X	
Coal	Natural Solid		X		
Coal Tar Resin	Petroleum-Like Fuel				X
Copper			X		
Cotton			X		
Cresolic Acid	Cresol; Methylphenol			X	
Cresylic Acid	Cresol; Methylphenol	X		X	X
Denatured Alcohol		X			
Denatured Ethanol					X
Dust (Dry)					X
Dust (Wet)					X
Fiberglass Fibers			X		
Fire Water		X			
Formaldehyde Resin					X
Formaldehyde (37%)		X		X	
#2 Fuel Oil	Diesel Oil	X			
#6 Fuel Oil		X	X		
Gilsonite	Asphaltic Material				X
Graphite	Black Lead		X		
Hexamethylene Tetramine	Methanamine				X
Hycar Rubber			X		
Hydraulic Oil			X		

TABLE 4-1 (cont.)
CHEMICAL COMPOUNDS USED OR HANDLED AT THE RAYMARK FACILITY
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

CHEMICAL COMPOUND/MATERIAL	DESCRIPTION	INFORMATION SOURCES			
		NO. 1	NO. 2	NO. 3	NO. 4
Iron Hydroxide Sludge			X		
Latex	Hydrocarbon Polymer	X	X		X
Lead			X	X	X
Linseed Oil	Flaxseed Oil	X			
Liquid Phenolic Resin	Condensation of Phenol with Aldehydes		X		
Meta Para Cresol	Phenolic Mixture	X			
Methanol	Methyl Alcohol				X
Methylbenzene	Toluene			X	
Methyl Chloride	Dichloromethane			X	
Methyl Chloroform	1,1,1-Trichloroethane		X	X	
Methylethyl Ketone	2-Butanone	X		X	X
Methylphenol	Cresol			X	
Mineral Spirits					X
Monochlorobenzene	Phenyl Chloride	X			X
Muriatic Acid	Hydrochloric Acid		X		
Naptha	Petroleum Product	X	X		
Nitric Acid		X	X		
Nylon					X
Phenol	Tung Oil	X	X	X	X
Phenol Formaldehyde Copolymer	Synthetic Thermosetting Polymer				X
Phenolic Resin	Condensation of Phenol with Aldehydes				X
Phenolic Resin 424					X
Phenolic Resin 439					X
Phenolic Resin 478					X
Pickle Liquor	Waste Acid Containing Dissolved Metals			X	
Polybutadiene Resin	Synthetic Thermoplastic Polymer				X
Powdered Metals					X
2-Propanone	Acetone	X		X	
Process CNSL		X			X
Raw Cashew Nut Oil		X			X
RC 439	477 Saturant	X			
RC 845					X
Reclaimed City Water		X			
Red Oxide	Iron Oxide		X		
Resin Solution CR04					X
Rinsate Water					X
Rubber	Polyisoprene		X		

TABLE 4-1 (cont.)
CHEMICAL COMPOUNDS USED OR HANDLED AT THE RAYMARK FACILITY
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

CHEMICAL COMPOUND/MATERIAL	DESCRIPTION	INFORMATION SOURCES			
		NO. 1	NO. 2	NO. 3	NO. 4
Rubber Cement			X		
Sartomer 845					X
Saturant 295E	90% Anacardic Acid; Sulfur Blistering Compound	X			
Saturant 439		X			
Saturant 451		X			X
Saturant 500-3					X
Saturant 500-F					X
Saturant 8240		X			
Saturant 850F					X
Saturant 851					X
Saturant RC 581					X
Scrap Resin	Petroleum and Mineral Spirits	X			
Scrap Saturant					X
#3 Sludge					X
Soap Saturant 850F					X
Solvent 204		X			
Steel			X		X
Steel Wool			X		
Sulfuric Acid	Battery Acid		X		
Tetrachloroethylene	Perchloroethylene (PCE)			X	
Textile Spirits					X
Toluene				X	X
Toluol	Cresol	X	X		
1,1,1-Trichloroethane (TCA)		X	X	X	
Trichloroethylene (TCE)				X	
Tung Oil		X			X
Unleaded Gasoline		X			
Varsol	Petroleum Aliphatic Solvents				X
Varsol #18		X			X
Vegetable Oil					X
VMP Naptha	Varnish; Petroleum Spirits	X			
Waste Oil		X			
White Water		X	X		X

Information Sources:
No. 1 - Overall Site Plan, Sheet No. S1 (ELI, 1993).
No. 2 - RCRA Facility Investigation Report, Section 2.0 (ELI, 1995).
No. 3 - RCRA Application, Part A, 8/15/80.
No. 4 - RCRA Application, Part B, 8/15/80.

TABLE 4-2
SUMMARY OF BACKGROUND CONCENTRATIONS IN SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION[1]	AVERAGE CONCENTRATION[2]	
		value	units
Volatile Organic Compounds:			
1,1,1-Trichloroethane	0/4	9.88	ug/kg
1,1,2,2-Tetrachloroethane	0/4	9.88	ug/kg
1,1,2-Trichloroethane	0/4	9.88	ug/kg
1,1-Dichloroethane	0/4	9.88	ug/kg
1,1-Dichloroethene	0/4	9.88	ug/kg
1,2-Dichloroethane	0/4	9.88	ug/kg
1,2-Dichloroethene	0/4	9.88	ug/kg
1,2-Dichloropropane	0/4	9.88	ug/kg
2-Butanone	0/4	9.88	ug/kg
2-Hexanone	0/4	9.88	ug/kg
4-Methyl-2-Pentanone	0/4	9.88	ug/kg
Acetone	0/4	30.3	ug/kg
Benzene	0/4	9.88	ug/kg
Bromodichloromethane	0/4	9.88	ug/kg
Bromoform	0/4	9.88	ug/kg
Bromomethane	0/4	9.88	ug/kg
Carbon Disulfide	2/4	13.6	ug/kg
Carbon Tetrachloride	0/4	9.88	ug/kg
Chlorobenzene	0/4	9.88	ug/kg
Chloroethane	0/4	9.88	ug/kg
Chloroform	0/4	9.88	ug/kg
Chloromethane	0/4	9.88	ug/kg
cis-1,3-Dichloropropane	0/4	9.88	ug/kg
Dibromochloromethane	0/4	9.88	ug/kg
Ethylbenzene	0/4	9.88	ug/kg
Methylene Chloride	0/4	9.88	ug/kg
Styrene	0/4	9.88	ug/kg
1,1,2,2-Tetrachloroethane	0/4	9.88	ug/kg
Tetrachlorothene	0/4	9.88	ug/kg
Toluene	1/4	9.38	ug/kg
Total Xylenes	0/4	9.88	ug/kg
trans-1,3-Dichloropropane	0/4	9.88	ug/kg
Trichloroethene	0/4	9.88	ug/kg
Vinyl Chloride	0/4	9.88	ug/kg
Semivolatile Organic Compounds:			
1,2,4-Trichlorobenzene	0/4	615	ug/kg
1,2-Dichlorobenzene	0/4	615	ug/kg
1,3-Dichlorobenzene	0/4	615	ug/kg
1,4-Dichlorobenzene	0/4	615	ug/kg
2,2'-oxybis(1-Chloropropane)	0/4	615	ug/kg

TABLE 4-2 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION[1]	AVERAGE CONCENTRATION[2]	
		value	units
2,4,5-Trichlorophenol	0/4	1500	ug/kg
2,4,6-Trichlorophenol	0/4	615	ug/kg
2,4-Dichlorophenol	0/4	615	ug/kg
2,4-Dimethylphenol	0/4	615	ug/kg
2,4-Dinitrophenol	0/4	1500	ug/kg
2,4-Dinitrotoluene	0/4	615	ug/kg
2,6-Dinitrotoluene	0/4	615	ug/kg
2-Chloronaphthalene	0/4	615	ug/kg
2-Chlorophenol	0/4	615	ug/kg
2-Methylnaphthalene	0/4	615	ug/kg
2-Methylphenol	0/4	615	ug/kg
2-Nitroaniline	0/4	1500	ug/kg
2-Nitrophenol	0/4	615	ug/kg
3,3'-Dichlorobenzidine	0/4	615	ug/kg
3-Nitroaniline	0/4	1500	ug/kg
4,6-Dinitro-2-methylphenol	0/4	1500	ug/kg
4-Bromophenyl-phenylether	0/4	615	ug/kg
4-Chloro-3-methylphenol	0/4	615	ug/kg
4-Chloroaniline	0/4	615	ug/kg
4-Chlorophenyl-phenylether	0/4	615	ug/kg
4-Methylphenol	0/4	615	ug/kg
4-Nitroaniline	0/4	1500	ug/kg
4-Nitrophenol	0/4	1500	ug/kg
Acenaphthene	0/4	615	ug/kg
Acenaphthylene	0/4	615	ug/kg
Anthracene	1/4	578	ug/kg
Benzo(a)anthracene	2/4	2020	ug/kg
Benzo(a)pyrene	1/4	1700	ug/kg
Benzo(b)fluoranthene	3/4	3290	ug/kg
Benzo(g,h,i)perylene	1/4	928	ug/kg
Benzo(k)fluoranthene	0/4	615	ug/kg
Bis(2-Chloroethoxy)Methane	0/4	615	ug/kg
Bis(2-Chloroethyl)ether	0/4	615	ug/kg
Bis(2-Ethylhexyl)phthalate	2/4	618	ug/kg
Butylbenzylphthalate	0/4	615	ug/kg
Carbazole	1/4	528	ug/kg
Chrysene	2/4	1940	ug/kg
Di-n-Butylphthalate	0/4	615	ug/kg
Di-n-Octylphthalate	0/4	615	ug/kg
Dibenzo(a,h)anthracene	1/4	753	ug/kg
Dibenzofuran	0/4	615	ug/kg
Di-n-butylphthalate	0/4	615	ug/kg

TABLE 4-2 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION[1]	AVERAGE CONCENTRATION[2]	
		value	units
Diethylphthalate	0/4	615	ug/kg
Dimethylphthalate	0/4	615	ug/kg
Fluoranthene	4/4	3770	ug/kg
Fluorene	0/4	615	ug/kg
Hexachlorobenzene	0/4	615	ug/kg
Hexachlorobutadiene	0/4	615	ug/kg
Hexachlorocyclopentadiene	0/4	615	ug/kg
Indeno(1,2,3-cd)pyrene	1/4	1550	ug/kg
Isophorone	0/4	615	ug/kg
N-Nitroso-di-n-propylamine	0/4	615	ug/kg
N-Nitroso-diphenylamine	0/4	615	ug/kg
Naphthalene	0/4	615	ug/kg
Nitrobenzene	0/4	615	ug/kg
Pentachlorophenol	0/4	1500	ug/kg
Phenanthrene	2/4	1900	ug/kg
Phenol	0/4	615	ug/kg
Pyrene	4/4	2490	ug/kg
Pesticides/PCBs:			
4,4'-DDD	3/4	2.31	ug/kg
4,4'-DDE	2/4	1.04	ug/kg
4,4'-DDT	2/4	1.98	ug/kg
Aldrin	3/4	0.945	ug/kg
alpha-BHC	0/4	1.40	ug/kg
alpha-Chlordane	3/4	0.294	ug/kg
Aroclor-1016	0/4	16.9	ug/kg
Aroclor-1221	0/4	34.1	ug/kg
Aroclor-1232	0/4	16.9	ug/kg
Aroclor-1242	0/4	16.9	ug/kg
Aroclor-1248	0/4	16.9	ug/kg
Aroclor-1254	0/4	16.9	ug/kg
Aroclor-1260	0/4	16.9	ug/kg
Aroclor-1262	0/4	16.9	ug/kg
Aroclor-1268	0/4	16.9	ug/kg
beta-BHC	0/4	0.863	ug/kg
delta-BHC	0/4	0.863	ug/kg
Dieldrin	0/4	1.69	ug/kg
Endosulfan I	0/4	0.863	ug/kg
Endosulfan II	2/4	0.980	ug/kg
Endosulfan Sulfate	0/4	1.69	ug/kg
Endrin	3/4	1.18	ug/kg
Endrin Aldehyde	2/4	1.13	ug/kg
Endrin Ketone	0/4	1.69	ug/kg

TABLE 4-2 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION[1]	AVERAGE CONCENTRATION[2]	
		value	units
gamma-BHC	0/4	0.79	ug/kg
gamma-Chlordane	2/4	2.04	ug/kg
Heptachlor	1/4	0.708	ug/kg
Heptachlor Epoxide	1/4	1.11	ug/kg
Methoxychlor	0/4	6.83	ug/kg
Toxaphene	0/4	86.3	ug/kg
Dioxins and Furans:			
1,2,3,4,6,7,8-HpCDD	4/4	0.110	ug/kg
1,2,3,4,6,7,8-HpCDF	4/4	0.0432	ug/kg
1,2,3,4,7,8,9-HpCDF	0/4	0.00405	ug/kg
1,2,3,4,7,8-HxCDD	2/4	0.00292	ug/kg
1,2,3,4,7,8-HxCDF	1/4	0.00243	ug/kg
1,2,3,6,7,8-HxCDD	2/4	0.00586	ug/kg
1,2,3,6,7,8-HxCDF	1/4	0.00184	ug/kg
1,2,3,7,8,9-HxCDD	1/4	0.00375	ug/kg
1,2,3,7,8,9-HxCDF	2/4	0.00290	ug/kg
1,2,3,7,8-PeCDD	0/4	0.00132	ug/kg
1,2,3,7,8-PeCDF	0/4	0.00181	ug/kg
2,3,4,6,7,8-HxCDF	0/4	0.00225	ug/kg
2,3,4,7,8-PeCDF	0/4	0.00173	ug/kg
2,3,7,8-TCDD	0/4	0.000373	ug/kg
2,3,7,8-TCDF	3/4	0.00419	ug/kg
OCDD	4/4	1.60	ug/kg
OCDF	4/4	0.116	ug/kg
Total HpCDD	4/4	0.260	ug/kg
Total HpCDF	4/4	0.231	ug/kg
Total HxCDD	4/4	0.0254	ug/kg
Total HxCDF	4/4	0.263	ug/kg
Total PeCDD	0/4	0.00132	ug/kg
Total PeCDF	4/4	0.402	ug/kg
Total TCDD	3/4	0.00277	ug/kg
Total TCDF	3/4	0.254	ug/kg
Toxicity Equivalency (TEQ)	4/4	0.00452	ug/kg
Metals:			
Aluminum	4/4	11500	mg/kg
Antimony	0/4	2.43	mg/kg
Arsenic	3/4	7.41	mg/kg
Barium	3/4	32.4	mg/kg
Beryllium	3/4	0.454	mg/kg
Cadmium	0/4	0.306	mg/kg
Calcium	4/4	2030	mg/kg
Chromium	4/4	60.8	mg/kg

TABLE 4-2 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION[1]	AVERAGE CONCENTRATION[2]	
		value	units
Cobalt	4/4	8.68	mg/kg
Copper	4/4	161	mg/kg
Iron	4/4	22100	mg/kg
Lead	4/4	71.8	mg/kg
Magnesium	4/4	6250	mg/kg
Manganese	4/4	206	mg/kg
Mercury	3/4	0.623	mg/kg
Nickel	4/4	20.5	mg/kg
Potassium	3/4	2820	mg/kg
Selenium	0/4	0.941	mg/kg
Silver	0/4	0.530	mg/kg
Sodium	4/4	8320	mg/kg
Thallium	0/4	1.08	mg/kg
Vanadium	4/4	36.1	mg/kg
Zinc	4/4	134	mg/kg

Notes:

(1) The locations and numbers of background samples collected were determined in concurrence with EPA. The frequency of detection denotes the number of times the compound/analyte was detected per the total number of samples that were analyzed.

(2) The average background concentrations were calculated as the arithmetic average of the detected concentrations and ½ the detection limits for those compounds/analytes reported as undetected. The detection limits used in the calculation are the sample specific detection limits reported by the laboratory. These detection limits are based on the EPA CLP contract required quantitation limits (CRQLs) for organics, and contract required detection limits (CRDLs) for inorganics, and incorporate any associated sample dilution or solids content factors.

TABLE 4-3
SUMMARY OF BACKGROUND CONCENTRATIONS IN SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION (1)	AVERAGE CONCENTRATION (2)	
		Value	Units
Volatile Organic Compounds:			
1,1,1-Trichloroethane	0/8	5	ug/l
1,1,2,2-Tetrachloroethane	0/8	5	ug/l
1,1,2-Trichloroethane	0/8	5	ug/l
1,1-Dichloroethane	0/8	5	ug/l
1,1-Dichloroethene	0/8	5	ug/l
1,2-Dichloroethane	0/8	5	ug/l
1,2-Dichloroethene	0/8	5	ug/l
1,2-Dichloropropane	0/8	5	ug/l
2-Butanone	0/8	5	ug/l
2-Hexanone	0/8	5	ug/l
4-Methyl-2-Pentanone	0/8	5	ug/l
Acetone	1/8	6.13	ug/l
Benzene	0/8	5	ug/l
Bromodichloromethane	0/8	5	ug/l
Bromoform	0/8	5	ug/l
Bromomethane	0/8	5	ug/l
Carbon Disulfide	1/8	4.75	ug/l
Carbon Tetrachloride	0/8	5	ug/l
Chlorobenzene	0/8	5	ug/l
Chloroethane	0/8	5	ug/l
Chloroform	0/8	5	ug/l
Chloromethane	0/8	5	ug/l
cis-1,3-Dichloropropane	0/8	5	ug/l
Dibromochloromethane	0/8	5	ug/l
Ethylbenzene	0/8	5	ug/l
Methylene Chloride	0/8	5	ug/l
Styrene	0/8	5	ug/l
1,1,2,2-Tetrachloroethane	0/8	5	ug/l
Tetrachlorothene	0/8	5	ug/l
Toluene	0/8	5	ug/l
Total Xylenes	0/8	5	ug/l
trans-1,3-Dichloropropane	0/8	5	ug/l
Trichloroethene	0/8	5	ug/l
Vinyl Chloride	0/8	5	ug/l
Semivolatile Organic Compounds:			
1,2,4-Trichlorobenzene	0/8	5	ug/l
1,2-Dichlorobenzene	0/8	5	ug/l
1,3-Dichlorobenzene	0/8	5	ug/l
1,4-Dichlorobenzene	0/8	5	ug/l
2,2'-oxybis(1-Chloropropane)	0/8	5	ug/l
2,4,5-Trichlorophenol	0/8	5	ug/l

TABLE 4-3 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION (1)	AVERAGE CONCENTRATION (2)	
		Value	Units
2,4,6-Trichlorophenol	0/8	12.5	ug/l
2,4-Dichlorophenol	0/8	5	ug/l
2,4-Dimethylphenol	0/8	5	ug/l
2,4-Dinitrophenol	0/8	12.5	ug/l
2,4-Dinitrotoluene	0/8	5	ug/l
2,6-Dinitrotoluene	0/8	5	ug/l
2-Chloronaphthalene	0/8	5	ug/l
2-Chlorophenol	0/8	5	ug/l
2-Methylnaphthalene	0/8	5	ug/l
2-Methylphenol	0/8	5	ug/l
2-Nitroaniline	0/8	12.5	ug/l
2-Nitrophenol	0/8	5	ug/l
3,3'-Dichlorobenzidine	0/8	5	ug/l
3-Nitroaniline	0/8	5	ug/l
4,6-Dinitro-2-methylphenol	0/8	12.5	ug/l
4-Bromophenyl-phenylether	0/8	5	ug/l
4-Chloro-3-methylphenol	0/8	5	ug/l
4-Chloroaniline	0/8	5	ug/l
4-Chlorophenyl-phenylether	0/8	5	ug/l
4-Methylphenol	0/8	5	ug/l
4-Nitroaniline	0/8	12.5	ug/l
4-Nitrophenol	0/8	12.5	ug/l
Acenaphthene	0/8	5	ug/l
Acenaphthylene	0/8	5	ug/l
Anthracene	0/8	5	ug/l
Benzo(a)anthracene	0/8	5	ug/l
Benzo(a)pyrene	0/8	5	ug/l
Benzo(b)fluoranthene	0/8	5	ug/l
Benzo(g,h,i)perylene	0/8	5	ug/l
Benzo(k)fluoranthene	0/8	5	ug/l
Bis(2-Chloroethoxy)Methane	0/8	5	ug/l
Bis(2-Chloroethyl)ether	0/8	5	ug/l
Bis(2-Ethylhexyl)phthalate	0/8	5	ug/l
Butylbenzylphthalate	0/8	5	ug/l
Carbazole	0/8	5	ug/l
Chrysene	0/8	5	ug/l
Di-n-Butylphthalate	0/8	5	ug/l
Di-n-Octylphthalate	0/8	5	ug/l
Dibenzo(a,h)anthracene	0/8	5	ug/l
Dibenzofuran	0/8	5	ug/l
Di-n-butylphthalate	0/8	5	ug/l
Diethylphthalate	0/8	5	ug/l

TABLE 4-3 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION (1)	AVERAGE CONCENTRATION (2)	
		Value	Units
Dimethylphthalate	0/8	5	ug/l
Fluoranthene	0/8	5	ug/l
Fluorene	0/8	5	ug/l
Hexachlorobenzene	0/8	5	ug/l
Hexachlorobutadiene	0/8	5	ug/l
Hexachlorocyclopentadiene	0/8	5	ug/l
Indeno(1,2,3-cd)pyrene	0/8	5	ug/l
Isophorone	0/8	5	ug/l
N-Nitroso-di-n-propylamine	0/8	5	ug/l
N-Nitroso-diphenylamine	0/8	5	ug/l
Naphthalene	0/8	5	ug/l
Nitrobenzene	0/8	5	ug/l
Pentachlorophenol	0/8	12.5	ug/l
Phenanthrene	0/8	5	ug/l
Phenol	0/8	5	ug/l
Pyrene	0/8	5	ug/l
Pesticides/PCBs:			
4,4'-DDD	0/8	0.05	ug/l
4,4'-DDE	0/8	0.05	ug/l
4,4'-DDT	0/8	0.125	ug/l
Aldrin	0/8	0.025	ug/l
alpha-BHC	1/8	0.0222	ug/l
alpha-Chlordane	1/8	0.0220	ug/l
Aroclor-1016	0/8	0.531	ug/l
Aroclor-1221	0/8	0.5	ug/l
Aroclor-1232	0/8	0.344	ug/l
Aroclor-1242	0/8	0.344	ug/l
Aroclor-1248	0/8	0.344	ug/l
Aroclor-1254	0/8	0.344	ug/l
Aroclor-1260	0/8	0.344	ug/l
Aroclor-1262	0/8	0.344	ug/l
Aroclor-1268	0/8	0.344	ug/l
beta-BHC	0/8	0.025	ug/l
delta-BHC	0/8	0.025	ug/l
Dieldrin	0/8	0.05	ug/l
Endosulfan I	0/8	0.025	ug/l
Endosulfan II	0/8	0.05	ug/l
Endosulfan Sulfate	0/8	0.05	ug/l
Endrin	0/8	0.05	ug/l
Endrin Aldehyde	0/8	0.0406	ug/l
Endrin Ketone	0/8	0.05	ug/l
gamma-BHC	0/8	0.0235	ug/l

TABLE 4-3 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION (1)	AVERAGE CONCENTRATION (2)	
		Value	Units
gamma-Chlordane	0/8	0.953	ug/l
Heptachlor	0/8	0.025	ug/l
Heptachlor Epoxide	1/8	0.0221	ug/l
Methoxychlor	0/8	0.15	ug/l
Toxaphene	0/8	1.75	ug/l
Metals:			
Aluminum	4/8	156	ug/l
Antimony	2/8	4.36	ug/l
Arsenic	1/8	14.3	ug/l
Barium	6/8	17.1	ug/l
Beryllium	0/8	0.456	ug/l
Cadmium	0/8	0.963	ug/l
Calcium	8/8	220000	ug/l
Chromium	1/8	4.98	ug/l
Cobalt	1/8	1.19	ug/l
Copper	5/8	19.8	ug/l
Iron	8/8	698	ug/l
Lead	0/8	3.94	ug/l
Magnesium	8/8	691000	ug/l
Manganese	8/8	135	ug/l
Mercury	1/8	0.149	ug/l
Nickel	0/8	4.60	ug/l
Potassium	8/8	344000	ug/l
Selenium	0/8	5.13	ug/l
Silver	0/8	5.07	ug/l
Sodium	8/8	6920000	ug/l
Thallium	1/8	10.2	ug/l
Vanadium	3/8	2.08	ug/l
Zinc	5/8	30.1	ug/l

Notes:

(1) The locations and numbers of background samples collected were determined in concurrence with EPA. The frequency of detection denotes the number of times the compound/analyte was detected per the total number of samples that were analyzed.

(2) The average background concentrations were calculated as the arithmetic average of the detected concentrations and ½ the detection limits for those compounds/analytes reported as undetected. The detection limits used in the calculation are the sample specific detection limits reported by the laboratory. These detection limits are based on the EPA CLP contract required quantitation limits (CRQLs) for organics, and contract required detection limits (CRDLs) for inorganics, and incorporate any associated sample dilution or solids content factors.

TABLE 4-4
SUMMARY OF BACKGROUND CONCENTRATIONS IN SOIL
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION (1)	AVERAGE CONCENTRATION (2)	
		value	units
Pesticides/PCBs:			
4,4'-DDD	0/35	4.60	ug/kg
4,4'-DDE	12/34	16.7	ug/kg
4,4'-DDT	13/34	29.1	ug/kg
Aldrin	0/36	2.41	ug/kg
alpha-BHC	0/36	2.41	ug/kg
alpha-Chlordane	9/35	4.88	ug/kg
Aroclor-1016	0/37	49.9	ug/kg
Aroclor-1221	0/37	93.0	ug/kg
Aroclor-1232	0/37	47.0	ug/kg
Aroclor-1242	0/37	46.1	ug/kg
Aroclor-1248	0/37	46.1	ug/kg
Aroclor-1254	0/37	46.1	ug/kg
Aroclor-1260	0/37	46.1	ug/kg
Aroclor-1262	0/27	36.8	ug/kg
Aroclor-1268	0/37	46.1	ug/kg
beta-BHC	0/35	2.39	ug/kg
delta-BHC	0/35	2.32	ug/kg
Dieldrin	8/33	13.1	ug/kg
Endosulfan I	3/35	4.52	ug/kg
Endosulfan II	5/36	4.72	ug/kg
Endosulfan Sulfate	0/36	4.69	ug/kg
Endrin	1/36	4.77	ug/kg
Endrin Aldehyde	1/36	4.56	ug/kg
Endrin Ketone	4/35	5.31	ug/kg
gamma-BHC	0/36	2.41	ug/kg
gamma-Chlordane	6/34	2.67	ug/kg
Heptachlor	1/35	2.19	ug/kg
Heptachlor Epoxide	2/35	2.33	ug/kg
Methoxychlor	4/34	22.3	ug/kg
Toxaphene	2/35	236	ug/kg
Metals:			
Aluminum	39/39	12900	mg/kg
Antimony	0/37	2.86	mg/kg
Arsenic	39/39	5.67	mg/kg
Barium	39/39	57.5	mg/kg
Beryllium	34/39	0.719	mg/kg
Cadmium	8/39	0.397	mg/kg
Calcium	39/39	1600	mg/kg
Chromium	39/39	17.0	mg/kg
Cobalt	29/39	6.35	mg/kg

TABLE 4-4 (cont.)
SUMMARY OF BACKGROUND CONCENTRATIONS IN SOIL
DRAFT FINAL REMEDIAL INVESTIGATION – AREA III
RAYMARK - FERRY CREEK - OU3
STRATFORD, CONNECTICUT

PARAMETER	FREQUENCY OF DETECTION (1)	AVERAGE CONCENTRATION (2)	
		value	units
Copper	37/38	28.8	mg/kg
Iron	39/39	16000	mg/kg
Lead	36/39	80.8	mg/kg
Magnesium	39/39	3250	mg/kg
Manganese	39/39	306	mg/kg
Mercury	25/39	0.111	mg/kg
Nickel	2/39	12.5	mg/kg
Potassium	24/39	961	mg/kg
Selenium	6/39	0.499	mg/kg
Silver	2/39	0.508	mg/kg
Sodium	21/34	76.4	mg/kg
Thallium	0/39	0.368	mg/kg
Vanadium	38/39	34.2	mg/kg
Zinc	39/39	112	mg/kg

Notes:

(1) The locations and numbers of background samples collected were determined in concurrence with EPA. The frequency of detection denotes the number of times the compound/analyte was detected per the total number of samples that were analyzed.

(2) The average background concentrations were calculated as the arithmetic average of the detected concentrations and ½ the detection limits for those compounds/analytes reported as undetected. The detection limits used in the calculation are the sample specific detection limits reported by the laboratory. These detection limits are based on the EPA CLP contract required quantitation limits (CRQLs) for organics, and contract required detection limits (CRDLs) for inorganics, and incorporate any associated sample dilution or solids content factors.

TABLE 4-5
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	BIOTA	SAIC	14-Apr-99	D-1	0	0			+		+								+	+	
D	BIOTA	SAIC	14-Apr-99	D-2	0	0			+		+								+	+	
D	BIOTA	SAIC	14-Apr-99	D-3	0	0			+		+								+	+	
D	BIOTA	SAIC	14-Apr-99	D-4	0	0			+		+								+	+	
D	BIOTA	SAIC	14-Apr-99	D-6	0	0			+		+								+	+	
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD01-0002	0	2		+	+		+	+	+								
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD02-0002	0	2	+	+	+		+	+	+								
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD02-0204	2	4		+	+		+	+	+								
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD03-0002	0	2		+	+	+	+		+						+		
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD03-0204	2	4		+	+	+	+		+								
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD04-0002	0	2		+	+	+	+	+	+								
D	SEDIMENT	B&RE	23-Jul-97	OU3-D-SD04-0203	2	3		+	+		+	+	+								
D	SEDIMENT	B&RE	22-Jul-97	OU3-D-SD05-0002	0	2		+	+		+	+	+						+		
D	SEDIMENT	B&RE	18-Jul-97	OU3-D-SD06-0002	0	2		+	+		+	+	+								
D	SEDIMENT	B&RE	18-Jul-97	OU3-D-SD06-0204	2	4		+	+		+	+	+								
D	SEDIMENT	B&RE	17-Jul-97	OU3-D-SD07-0002	0	2		+	+		+	+	+								
D	SEDIMENT	B&RE	17-Jul-97	OU3-D-SD07-0204	2	4		+	+		+	+	+								
D	SEDIMENT	B&RE	21-Jul-97	OU3-D-SD08-0002	0	2		+	+		+	+	+								
D	SEDIMENT	B&RE	21-Jul-97	OU3-D-SD08-0204	2	4	+	+	+		+	+	+								
D	SEDIMENT	B&RE	21-Jul-97	OU3-D-SD09-0002	0	2		+	+		+	+	+								
D	SEDIMENT	B&RE	21-Jul-97	OU3-D-SD09-0204	2	4		+	+		+	+	+								
D	SEDIMENT	B&RE	22-Jul-97	OU3-D-SD10-0002	0	2	+	+	+		+	+	+								
D	SEDIMENT	B&RE	22-Jul-97	OU3-D-SD10-0204	2	4		+	+		+	+	+								
D	SEDIMENT	B&RE	16-Nov-94	RM-SD-BN01-02	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	16-Nov-94	RM-SD-BN02-02	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	16-Nov-94	RM-SD-BN03-02	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	16-Nov-94	RM-SD-BN04-02	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BN05-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BN06-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BN07-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	16-Aug-94	RM-SD-BS01-01	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Aug-94	RM-SD-BS02-01	0	0.5	+	+	+	+	+										

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SEDIMENT	B&RE	11-Nov-94	RM-SD-BS02-02	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BS02-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BS03-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BS04-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BS05-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BS06-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	B&RE	18-Apr-95	RM-SD-BS07-03	0	0.5	+	+	+	+	+										
D	SEDIMENT	FW-CSIR	27-Mar-95	THTCO AB+600 (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO AB+650-WL (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO AB+650-WL (0.00-0.50)	0	0.5						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO C+625-WL (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO C+625-WL (0.00-0.50)	0	0.5						+									+
D	SEDIMENT	FW-CSIR	27-Mar-95	THTCO CD+605 (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	27-Mar-95	THTCO CD+700 (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO CD+715-WL (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO CD+715-WL (0.00-0.50)	0	0.5						+									+
D	SEDIMENT	FW-CSIR	28-Mar-95	THTCO D+790 (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO D+910-WL (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO D+910-WL (0.00-0.50)	0	0.5						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO DC+810-WL (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	FW-CSIR	29-Mar-95	THTCO DC+810-WL (0.00-0.50)	0	0.5						+									+
D	SEDIMENT	FW-CSIR	28-Mar-95	THTCO DE+960 (0.00-0.25)	0	0.25						+									+
D	SEDIMENT	WESTON/TAT	21-Sep-93	BPM G1	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	26-Jun-93	BPR A+100	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	26-Jun-93	BPR B+100	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	26-Jun-93	BPR B+200	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	26-Jun-93	BPR C+100	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	26-Jun-93	BPR C+200	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	21-Jun-93	BR A+100	0	0.5						+									+

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SEDIMENT	WESTON/TAT	21-Jun-93	BR A+150	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	21-Jun-93	BR A+250	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	21-Sep-93	BR C+00	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	21-Sep-93	BR E+00	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	21-Sep-93	BR G07	0	0.5						+									+
D	SEDIMENT	SAIC	14-Apr-99	D-1	0	0.5			+	+	+		+						+	+	
D	SEDIMENT	SAIC	14-Apr-99	D-2	0	0.5			+	+	+		+						+	+	
D	SEDIMENT	SAIC	14-Apr-99	D-3	0	0.5			+	+	+		+						+	+	
D	SEDIMENT	SAIC	14-Apr-99	D-4	0	0.5			+	+	+		+						+	+	
D	SEDIMENT	SAIC	14-Apr-99	D-5	0	0.5			+	+	+		+						+	+	
D	SEDIMENT	SAIC	14-Apr-99	D-6	0	0.5			+	+	+		+						+	+	
D	SEDIMENT	WESTON/TAT	21-Sep-93	BR G09	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	21-Jun-93	BR-A+200	0	0.5			+		+	+									
D	SEDIMENT	WESTON/TAT	21-Sep-93	BRD+00	0	0.5			+		+	+									
D	SEDIMENT	WESTON/TAT	23-Jun-93	HR17	0	0.5						+									+
D	SEDIMENT	WESTON/TAT	23-Jun-93	HR18	0	0.5						+									+
D	SOIL	B&RE	15-Jul-97	OU3-D-SB01-0002	0	2	+	+	+	+	+	+						+			
D	SOIL	B&RE	15-Jul-97	OU3-D-SB01-0204	2	4						+									+
D	SOIL	B&RE	15-Jul-97	OU3-D-SB01-0406	4	6						+									+
D	SOIL	B&RE	15-Jul-97	OU3-D-SB01-0709	7	9		+	+		+	+									
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-0002	0	2						+									+
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-0204	2	4		+	+	+	+	+						+			
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-0406	4	6						+									+
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-0608	6	8						+									+
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-0810	8	10						+									+
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-1012	10	12						+									+
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-1214	12	14						+									+
D	SOIL	B&RE	14-Jul-97	OU3-D-SB02-1416	14	16		+	+		+	+									
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-0002	0	2		+	+		+	+						+			
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-0204	2	4						+									+
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-0406	4	6						+									+

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-0608	6	8	+	+	+		+	+									+
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-0810	8	10						+									+
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-1012	10	12						+									+
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-1214	12	14						+									+
D	SOIL	B&RE	06-Aug-97	OU3-D-SB03-1416	14	16						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-0002	0	2						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-0204	2	4						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-0406	4	6						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-0810	8	10						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-1012	10	12						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-1214	12	14		+	+	+	+	+									
D	SOIL	B&RE	10-Jul-97	OU3-D-SB04-1416	14	16		+	+		+	+									
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-0002	0	2						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-0204	2	4						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-0406	4	6	+	+	+	+	+	+									
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-0608	6	8						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-0810	8	10						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-1012	10	12						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-1214	12	14						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB05-1416	14	16		+	+		+	+									
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-0002	0	2						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-0204	2	4		+	+		+	+						+			
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-0406	4	6						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-0608	6	8						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-0810	8	10						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-1012	10	12						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-1214	12	14						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB06-1416	14	16		+	+		+	+									
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-0002	0	2						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-0204	2	4						+									+

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-0406	4	6	+	+	+		+	+						+			
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-0608	6	8						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-0810	8	10						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-1012	10	12						+									+
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-1214	12	14		+	+		+	+									
D	SOIL	B&RE	16-Jul-97	OU3-D-SB07-1416	14	16						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-0002	0	2						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-0204	2	4						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-0406	4	6						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-0608	6	8						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-0810	8	10		+	+	+	+	+									
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-1012	10	12						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-1214	12	14						+									+
D	SOIL	B&RE	11-Jul-97	OU3-D-SB08-1416	14	16		+	+		+	+									
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-0103	1	3	+	+	+	+	+	+						+			
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-0305	3	5						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-0507	5	7						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-0709	7	9						+									+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-0911	9	11															+
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-1113	11	13	+	+	+		+	+									
D	SOIL	B&RE	10-Jul-97	OU3-D-SB09-1315	13	15						+									+
D	SOIL	FW-CSIR	27-Mar-95	THTCO C+525 (0.00-0.25)	0	0.25						+									+
D	SOIL	FW-CSIR	27-Mar-95	THTCO C+525 (0.25-1.00)	0.25	1						+									+
D	SOIL	FW-CSIR	27-Mar-95	THTCO C+525 (1.00-2.00)	1	2						+									+
D	SOIL	FW-CSIR	27-Mar-95	THTCO C+525 (2.00-3.00)	2	3						+									+
D	SOIL	FW-CSIR	27-Mar-95	THTCO C+525 (3.00-4.00)	3	4						+									+
D	SOIL	FW-CSIR	27-Mar-95	THTCO C+525 (4.00-5.00)	4	5						+									+
D	SOIL	FW-CSIR	28-Mar-95	THTCO DE+860 (0.00-0.25)	0	0.25						+									+
D	SOIL	FW-CSIR	30-Mar-95	THTCO E+865 (0.00-0.25)	0	0.25						+									+
D	SOIL	FW-CSIR	30-Mar-95	THTCO E+865 (0.25-1.00)	0.25	1						+									+

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SOIL	FW-CSIR	30-Mar-95	THTCO E+865 (1.00-2.00)	1	2						+									+
D	SOIL	FW-CSIR	30-Mar-95	THTCO E+865 (2.00-3.00)	2	3						+									+
D	SOIL	FW-CSIR	30-Mar-95	THTCO E+865 (3.00-5.00)	3	5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+09	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+100	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+140	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+250	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+300	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+350	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM A+50	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+00	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+100	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+150	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+200	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+247/17E	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+350	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+400	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM B+425	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM C+00	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM C+165	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM C+200	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM C+265	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM C+50	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM C+95	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM G3	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPM G4	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BPMB+50	0	0.5			+		+	+									
D	SOIL	WESTON/TAT	21-Sep-93	BPMC+220	0	0.5			+		+	+									
D	SOIL	WESTON/TAT	21-Sep-93	BPMG2	0	0.5			+		+	+									
D	SOIL	WESTON/TAT	26-Jun-93	BPR A+00	0	0.5						+									+

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SOIL	WESTON/TAT	26-Jun-93	BPR B+00	0	0.5						+									+
D	SOIL	WESTON/TAT	26-Jun-93	BPR C+00	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR A+00	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR A+050	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR B+00	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR B+050	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR B+100	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR B+143	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR C+200	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR C+300	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR C+393	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR C+487	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR C+94	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR D+200	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR D+300	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR D+400	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR D+500	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR D+86	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR E+100	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR E+200	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR E+400	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR G01	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR G02	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR G03	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR G04	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR G05	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR G06	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Sep-93	BR G08	0	0.5						+									+
D	SOIL	WESTON/TAT	21-Jun-93	BR-B+00	0	0.5			+		+										
D	SOIL	WESTON/TAT	21-Sep-93	BRE+300	0	0.5			+		+	+									

TABLE 4-5 (cont.)
AREA D: SAMPLES COLLECTED AND ANALYSES PERFORMED
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK-FERRY CREEK-OU3
STRATFORD, CONNECTICUT

AREA	MATRIX	CONTRACTOR	SAMPLE DATE	SAMPLE LOCATION	INTERVAL		CLP							TCLP				OTHER			
					TOP (ft bgs)	BOTTOM (ft bgs)	VOCs	SVOCs	PEST/PCBs	DIOXINS/FURANS	METALS	ASBESTOS	TOC	TCLP VOCs	TCLP SVOCs	TCLP PEST/PCBs	TCLP METALS	SPLP METALS	PCB CONGENERS	PAH	SCREENING METALS
D	SW	B&RE	16-Nov-94	RM-SW-BN01-02	0.5	0.5	+	+	+		+										
D	SW	B&RE	16-Nov-94	RM-SW-BN02-02	0.5	0.5	+	+	+		+										
D	SW	B&RE	16-Nov-94	RM-SW-BN03-02	0.5	0.5	+	+	+		+										
D	SW	B&RE	16-Nov-94	RM-SW-BN04-02	0.5	0.5	+	+	+		+										
D	SW	B&RE	16-Aug-94	RM-SW-BS01-01	0	0.2	+	+	+		+										
D	SW	B&RE	18-Aug-94	RM-SW-BS02-01	2	4	+	+	+		+										
D	SW	B&RE	11-Nov-94	RM-SW-BS02-02	0.5	0.5	+	+	+		+										
D	SW	B&RE	18-Apr-95	RM-SW-BS02-03	0.25	0.25	+	+	+		+										

TABLE 4-6
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
SURFACE SEDIMENT													
Asbestos (%)	8	42	1	6	0.99	20	BR-A+200		0		0		0
AVS/SEM (µmo/g)													
Acid Volatile Sulfide	5	6	5.9	7	1.79	13.95	D-4-SED-SMP		0		0		0
Cadmium	6	6	0.0042	0.0042	0.001 J	0.009	D-3-SED-SMP		0		0		0
Copper	6	6	0.29	0.29	0.056 J	0.759 J	D-3-SED-SMP		0		0		0
Lead	6	6	0.16	0.16	0.016 J	0.292 J	D-3-SED-SMP		0		0		0
Nickel	6	6	0.32	0.32	0.046 J	0.625 J	D-4-SED-SMP		0		0		0
Simultaneously Extracted Metal	6	6	4	4	0.679	9.843	D-6-SED-SMP-MAX		0		0		0
Zinc	6	6	3.3	3.3	0.099 J	8.857	D-6-SED-SMP-MAX		0		0		0
Dioxins/Furans (µg/kg)													
1,2,3,4,6,7,8-HpCDD	24	24	0.31	0.31	0.00856	4.04	RM-SD-BS02-01	0.11011	12		0		0
1,2,3,4,6,7,8-HpCDF	24	24	1.6	1.6	0.002872	12.88166 J	RM-SD-BS03-03	0.043245	20		0		0
1,2,3,4,7,8,9-HpCDF	12	24	0.032	0.047	0.00024	0.19605 J	RM-SD-BS03-03	0.00405375	10		0		0
1,2,3,4,7,8-HxCDD	10	24	0.009	0.0055	0.00254	0.01336	RM-SD-BN03-02	0.002915	8		0		0
1,2,3,4,7,8-HxCDF	21	24	0.32	0.36	0.000344	2.47372 J	RM-SD-BS03-03	0.0024325	20		0		0
1,2,3,6,7,8-HxCDD	17	24	0.016	0.012	0.00072 J	0.03445	RM-SD-BN03-02	0.00585625	10		0		0
1,2,3,6,7,8-HxCDF	19	24	0.21	0.27	0.000444	1.93988 J	RM-SD-BS03-03	0.0018375	17		0		0
1,2,3,7,8,9-HxCDD	11	24	0.014	0.013	0.000364	0.05302	RM-SD-BN03-02	0.003745	8		0		0
1,2,3,7,8,9-HxCDF	13	24	0.044	0.079	0.000704	0.4162 J	RM-SD-BS03-03	0.00289875	11		0		0
1,2,3,7,8-PeCDD	8	24	0.011	0.0097	0.00228	0.02877	RM-SD-BN03-02	0.0013225	8		0		0
1,2,3,7,8-PeCDF	14	24	0.18	0.3	0.00612	1.27602	RM-SD-BN08-03	0.0018125	14		0		0
2,3,4,6,7,8-HxCDF	11	24	0.042	0.07	0.00046 J	0.412	OU3-D-SD03-0002	0.00224875	9		0		0
2,3,4,7,8-PeCDF	18	24	0.067	0.085	0.00073 J	0.549	OU3-D-SD03-0002	0.00173375	18		0		0
2,3,7,8-TCDD	4	24	0.01	0.0047	0.00195	0.0075	OU3-D-SD03-0002	0.0003725	4		0		0
2,3,7,8-TCDF	23	24	0.079	0.082	0.001052 EMPC	0.67	RM-SD-BS02-01	0.00418625	21		0		0
OCDD	24	24	3.8	3.8	0.2216	52.26	RM-SD-BS02-01	1.6016375	7		0		0
OCDF	23	24	1.1	1	0.01248	5.79623 J	RM-SD-BS03-03	0.115875	17		0		0
Total HpCDD	18	18	1.1	1.1	0.03968 J	10.26	RM-SD-BS02-01	0.2595375	11		0		0
Total HpCDF	18	18	3.3	3.3	0.03647 J	24.76324 J	RM-SD-BS03-03	0.23091	14		0		0
Total HxCDD	16	18	0.12	0.14	0.00251 J	0.4614	RM-SD-BN03-02	0.0254	11		0		0
Total HxCDF	18	18	2.7	2.7	0.02662 J	17.66777 J	RM-SD-BS03-03	0.2633475	12		0		0
Total PeCDD	6	18	0.035	0.1	0.00451 J	0.34	RM-SD-BS02-01	0.0013225	8		0		0
Total PeCDF	18	18	1.8	1.8	0.02051 J	8.01221 J	RM-SD-BS03-03	0.4017375	13		0		0
Total TCDD	16	18	0.24	0.27	0.00031 J	3.66308 J	RM-SD-BS03-03	0.00277125	11		0		0
Total TCDF	17	18	1.3	1.3	0.02024 J	9.69897 J	RM-SD-BS03-03	0.25400625	11		0		0
Toxicity Equivalency	24	24	0.16	0.16	0.00174767	0.945951	RM-SD-BS02-01	0.00451775	20		0		0
Metals													
Aluminum	28	28	16700	16700	1950	52500 J	OU3-D-SD06-0002	11485	16		0		0
Antimony	9	26	53.7	150	2.8 J	1060	RM-SD-BN03-02	2.425	9		0	27	4
Arsenic	30	34	13.7	14.8	1.6	80.3	RM-SD-BN03-02	7.4125	12		0	10	7

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed, EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
Barium	28	28	439	439	21.3	5600 J	OU3-D-SD07-0002	32.4375	28		0	4700	1
Beryllium	11	28	0.47	0.72	0.28	1.7	OU3-D-SD08-0002	0.45375	8		0	2	0
Cadmium	19	34	9.5	16.6	0.16 J	103	OU3-D-SD06-0002	0.30625	18		0	34	3
Calcium	26	28	4080	4420	817	16500	RM-SD-BN06-03	2031.5	20		0		0
Chromium	34	34	140	140	9.7	496	OU3-D-SD07-0002	60.75	21		0	100	16
Cobalt	27	28	10.3	10.6	1.7	27.2 J	OU3-D-SD08-0002	8.875	14		0	1000	0
Copper	34	34	822	822	22.6	3650	OU3-D-SD03-0002	160.75	26		0	2500	3
Iron	28	28	49100	49100	8420	216000	OU3-D-SD06-0002	22060	16		0		0
Lead	62	66	659	699	7.3	17400	RM-SD-BN03-02	71.825	54		0	500	10
Magnesium	28	28	7100	7100	1590	16300 J	OU3-D-SD08-0002	6247.5	14		0		0
Manganese	28	28	481	481	94.2	2380	OU3-D-SD06-0002	208.125	21		0	1600	2
Mercury	28	34	1	1.2	0.036	6.7 J	OU3-D-SD05-0002	0.6225	17		0	20	0
Nickel	34	34	59.8	59.8	5.5	330 J	OU3-D-SD06-0002	20.45	24		0	1400	0
Potassium	27	28	3130	3230	662	9440 J	OU3-D-SD08-0002	2820	12		0		0
Selenium	5	26	1.3	2.3	0.98 J	6.2 J	RM-SD-BN05-03	0.94125	5		0	340	0
Silver	18	32	2.7	3.7	0.16 J	21.8 J	OU3-D-SD07-0002	0.53	16		0	340	0
Sodium	26	28	10700	11500	856	27800	RM-SD-BN06-03	8315	13		0		0
Thallium	2	26	1.4	3	2.6	3.5	OU3-D-SD06-0002	1.075	2		0	5.4	0
Vanadium	27	28	38.5	39.6	10 J	81.4 J	OU3-D-SD08-0002	36.05	14		0	470	0
Zinc	34	34	956	956	41.5	8650	OU3-D-SD06-0002	134.275	28		0	20000	0
Semivolatile Organic Compounds (µg/kg)													
1,2,4-Trichlorobenzene	0	24	440	0	0	0	None	615	0	14000	0	680000	0
1,2-Dichlorobenzene	0	24	440	0	0	0	None	615	0	3100	0	500000	0
1,3-Dichlorobenzene	0	24	440	0	0	0	None	615	0		0		0
1,4-Dichlorobenzene	0	24	440	0	0	0	None	615	0	15000	0	26000	0
1-Methylnaphthalene	4	6	21	31	12	77	D-3-SED-SMP		0		0		0
1-Methylphenanthrene	5	6	98	120	14	410	D-3-SED-SMP		0		0		0
2,2'-oxybis(1-Chloropropane)	0	24	440	0	0	0	None	615	0		0		0
2,3,5-Trimethylnaphthalene	4	6	27	40	6	88	D-3-SED-SMP		0		0		0
2,4,5-Trichlorophenol	0	24	1100	0	0	0	None	1500	0		0		0
2,4,6-Trichlorophenol	0	24	440	0	0	0	None	615	0		0		0
2,4-Dichlorophenol	0	24	440	0	0	0	None	615	0		0		0
2,4-Dimethylphenol	1	24	430	27	27 J	27 J	RM-SD-BS03-03	615	0	28000	0	1000000	0
2,4-Dinitrophenol	0	24	1100	0	0	0	None	1500	0		0		0
2,4-Dinitrotoluene	0	24	440	0	0	0	None	615	0		0		0
2,6-Dimethylnaphthalene	4	6	27	40	11	95	D-3-SED-SMP		0		0		0
2,6-Dinitrotoluene	0	24	440	0	0	0	None	615	0		0		0
2-Chloronaphthalene	0	24	440	0	0	0	None	615	0		0		0
2-Chlorophenol	0	16	400	0	0	0	None	615	0		0		0
2-Methylnaphthalene	7	30	350	49	4	140	D-3-SED-SMP	615	0	58000	0	1000000	0
2-Methylphenol	0	24	440	0	0	0	None	615	0	70000	0	1000000	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
2-Nitroaniline	0	24	1100	0	0	0	None	1500	0		0		0
2-Nitrophenol	0	24	440	0	0	0	None	615	0		0		0
3,3'-Dichlorobenzidine	0	24	440	0	0	0	None	615	0	18	0	1400	0
3-Nitroaniline	0	24	1100	0	0	0	None	1500	0		0		0
4,6-Dinitro-2-methylphenol	0	24	1100	0	0	0	None	1500	0		0		0
4-Bromophenyl-phenylether	0	16	400	0	0	0	None	615	0	82000	0	500000	0
4-Chloro-3-methylphenol	0	24	440	0	0	0	None	615	0	0	0	0	0
4-Chloroaniline	0	24	440	0	0	0	None	615	0	5600	0	270000	0
4-Chlorophenyl-phenylether	0	24	440	0	0	0	None	615	0		0		0
4-Methylphenol	2	24	420	32	26 J	37 J	RM-SD-BS02-03	615	0	7000	0	340000	0
4-Nitroaniline	0	24	1100	0	0	0	None	1500	0	4200	0	200000	0
4-Nitrophenol	0	24	1100	0	0	0	None	1500	0	11000	0	540000	0
Acenaphthene	16	30	270	210	3	720 J	OU3-D-SD03-0002	615	1	84000	0	1000000	0
Acenaphthylene	19	24	230	150	18	530	D-3-SED-SMP	615	0	84000	0	1000000	0
Anthracene	26	32	390	360	3	2200	D-3-SED-SMP	577.5	4	400000	0	1000000	0
Benzo(a)anthracene	32	32	1000	1000	9	5600	D-3-SED-SMP	2015	4	1000	11	1000	11
Benzo(a)pyrene	32	32	880	880	7	4400	D-3-SED-SMP	1702.5	4	1000	8	1000	8
Benzo(b)fluoranthene	32	32	1300	1300	8	6200	D-3-SED-SMP	3291.25	4	1000	12	1000	12
benzo(e)pyrene	8	8	760	760	7	3200	D-3-SED-SMP		0		0		0
Benzo(g,h,i)perylene	20	30	710	950	6	3000	D-3-SED-SMP	927.5	7	40000	0	1000000	0
Benzo(k)fluoranthene	30	32	770	800	6	3600 J	OU3-D-SD03-0002	615	13	1000	8	8400	0
Biphenyl	4	8	41	61	6	210	D-3-SED-SMP		0		0		0
Bis(2-Chloroethoxy)methane	0	24	440	0	0	0	None	615	0		0		0
Bis(2-Chloroethyl)ether	0	16	400	0	0	0	None	615	0		0		0
bis(2-Ethylhexyl)phthalate	14	26	910	1300	18 J	4800 J	RM-SD-BN01-02	617.5	8	11000	0	44000	0
Butylbenzylphthalate	4	24	400	200	58	470	RM-SD-BS02-01	615	0	200000	0	1000000	0
Carbazole	14	24	320	170	17 J	550	OU3-D-SD02-0002	527.5	1	360	1	31000	0
Chrysene	32	32	1200	1200	8	6000	OU3-D-SD03-0002	1937.5	6	960	12	84000	0
Di-n-Butylphthalate	7	24	530	670	19 J	3700	RM-SD-BS02-01	615	1	140000	0	1000000	0
Di-n-octylphthalate	2	24	410	90	81 J	120 J	RM-SD-BN01-02	615	0	20000	0	1000000	0
Dibenzo(a,h)anthracene	21	32	270	150	14	690	D-3-SED-SMP	762.5	0	0.96	21	84	11
Dibenzofuran	7	24	390	180	40 J	435	OU3-D-SD04-0002	615	0	5600	0	270000	0
Diethylphthalate	2	24	420	57	34 J	81 J	RM-SD-BN06-03	615	0	1100000	0	1000000	0
Dimethylphthalate	0	24	440	0	0	0	None	615	0	14000000	0	1000000	0
Fluoranthene	30	32	2500	2700	17	16000	OU3-D-SD03-0002	3770.75	6	56000	0	1000000	0
Fluorene	18	30	270	220	4	710 J	OU3-D-SD03-0002	615	1	56000	0	1000000	0
Hexachlorobenzene	1	26	480	1500	1500 J	1500 J	RM-SD-BN06-03	615	1	1000	1	1000	1
Hexachlorobutadiene	0	24	440	0	0	0	None	615	0		0		0
Hexachlorocyclopentadiene	0	23	450	0	0	0	None	615	0		0		0
Hexachloroethane	0	24	440	0	0	0	None	615	0		0		0
Indeno(1,2,3-cd)pyrene	29	32	620	680	6	3700	D-3-SED-SMP	1552.5	4	9.6	28	840	8

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
Isophorone	0	24	440	0	0	0	None	615	0		0		0
N-Nitroso-di-n-propylamine	0	24	440	0	0	0	None	615	0	1	0	88	0
N-Nitroso-diphenylamine	1	24	430	190	190 J	190 J	RM-SD-BS04-03	615	0	1400	0	130000	0
Naphthalene	11	30	340	130	3	470	RM-SD-BS02-01	615	0	56000	0	1000000	0
Nitrobenzene	0	24	440	0	0	0	None	615	0		0		0
Pentachlorophenol	1	24	1000	140	140 J	140 J	RM-SD-BS02-03	1500	0	1000	0	5100	0
perylene	6	6	340	340	14	1200	D-3-SED-SMP		0		0		0
Phenanthrene	31	32	1400	1400	21 J	11000 B	D-3-SED-SMP	1900	5	40000	0	1000000	0
Phenol	0	24	440	0	0	0	None	615	0	800000	0	1000000	0
Pyrene	30	32	2700	2900	18	21000 J	OU3-D-SD03-0002	2485.6	10	40000	0	1000000	0
Total PAH	32	32	14000	14000	91	76930	OU3-D-SD03-0002		0		0		0
Volatile Organic Compounds (µg/kg)													
1,1,1-Trichloroethane	0	13	9	0	0	0	None	9.875	0	40000	0	500000	0
1,1,2,2-Tetrachloroethane	0	13	9	0	0	0	None	9.875	0	100	0	3100	0
1,1,2-Trichloroethane	0	13	9	0	0	0	None	9.875	0	1000	0	11000	0
1,1-Dichloroethane	0	13	9	0	0	0	None	9.875	0	14000	0	500000	0
1,1-Dichloroethene	0	13	9	0	0	0	None	9.875	0	1400	0	1000	0
1,2-Dichloroethane	1	13	9	6	6.5	6.5	RM-SD-BN03-02	9.875	0	200	0	6700	0
1,2-Dichloroethene (total)	0	13	9	0	0	0	None		0	14000	0	500000	0
1,2-Dichloropropane	0	13	9	0	0	0	None	9.875	0		0		0
2-Butanone	6	16	41	98	24	230	RM-SD-BS02-01	9.875	6	80000	0	500000	0
2-Hexanone	0	13	9	0	0	0	None	9.875	0	56000	0	500000	0
4-Methyl-2-Pentanone	0	13	9	0	0	0	None	9.875	0	14000	0	500000	0
Acetone	4	18	75	280	180 J	360 J	RM-SD-BN04-02	30.25	4	140000	0	500000	0
Benzene	0	13	9	0	0	0	None	9.875	0	200	0	21000	0
Bromodichloromethane	0	13	9	0	0	0	None	9.875	0	110	0	9900	0
Bromoform	0	13	9	0	0	0	None	9.875	0	800	0	78000	0
Bromomethane	0	13	9	0	0	0	None	9.875	0		0		0
Carbon Disulfide	5	16	13	25	15 J	38	RM-SD-BS02-01	13.625	5	140000	0	500000	0
Carbon Tetrachloride	0	13	9	0	0	0	None	9.875	0		0		0
Chlorobenzene	0	13	9	0	0	0	None	9.875	0	20000	0	500000	0
Chloroethane	0	13	9	0	0	0	None	9.875	0	2400	0	210000	0
Chloroform	0	13	9	0	0	0	None	9.875	0	1200	0	100000	0
Chloromethane	0	13	9	0	0	0	None	9.875	0	540	0	47000	0
cis-1,3-Dichloropropene	0	13	9	0	0	0	None	9.875	0		0		0
Dibromochloromethane	0	13	9	0	0	0	None	9.875	0		0		0
Ethylbenzene	0	13	9	0	0	0	None	9.875	0	10100	0	500000	0
Methylene Chloride	0	17	12	0	0	0	None	9.875	0	1000	0	82000	0
Styrene	0	13	9	0	0	0	None	9.875	0	20000	0	500000	0
Tetrachloroethene	0	13	9	0	0	0	None	9.875	0	1000	0	12000	0
Toluene	1	13	9	6	6	6	OU3-D-SD10-0002	9.375	0	67000	0	500000	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
Total Xylenes	0	13	9	0	0	0	None	9.875	0	19500	0	500000	0
trans-1,3-Dichloropropene	0	13	9	0	0	0	None	9.875	0		0		0
Trichloroethene	0	13	9	0	0	0	None	9.875	0	1000	0	56000	0
Vinyl Chloride	0	13	9	0	0	0	None	9.875	0	400	0	320	0
Pesticides/PCBs (ug/kg)													
2,4'-DDD	0	6	0.48	0	0	0	None		0		0		0
2,4'-DDE	0	6	0.48	0	0	0	None		0		0		0
2,4'-DDT	0	6	0.48	0	0	0	None		0		0		0
4,4'-DDD	14	34	12	24	1.1 J	270	OU3-D-SD02-0002	2.3075	10	29	1	2600	0
4,4'-DDE	22	34	12	16	0.29 J	260	OU3-D-SD02-0002	1.035	16	21	2	1800	0
4,4'-DDT	9	34	3.7	2.5	0.36 J	8.8	RM-SD-BS02-01	1.98	2	21	0	1800	0
Aldrin	7	34	16	73	0.34 J	480	OU3-D-SD02-0002	0.945	6	0.41	6	36	1
alpha-BHC	8	34	1.7	0.38	0.06 J	1.1	RM-SD-BN03-02	1.4	0	1.1	0	97	0
alpha-Chlordane	19	34	33	58	0.1 J	950	OU3-D-SD02-0002	0.29425	16	66	2	490	1
Aroclor, Total	21	28	6500	8600	17	145000	OU3-D-SD02-0002	37.75	17		0		0
Aroclor, Total (Conservative)	21	28	6800	9000	90	146325	OU3-D-SD02-0002		0		0		0
Aroclor-1016	1	28	160	3300	3300 J	3300 J	OU3-D-SD05-0002	16.875	1		0	1000	1
Aroclor-1221	0	28	89	0	0	0	None	34.125	0		0		0
Aroclor-1232	0	28	44	0	0	0	None	16.875	0		0		0
Aroclor-1242	0	28	44	0	0	0	None	16.875	0		0	1000	0
Aroclor-1248	2	28	160	1700	800	2600 *J	OU3-D-SD08-0002	16.875	2		0	1000	1
Aroclor-1254	6	28	4700	22000	17 EB	120000	OU3-D-SD02-0002	16.875	6		0	1000	4
Aroclor-1260	5	28	950	6100	37 J	25000	OU3-D-SD02-0002	16.875	5		0	1000	1
Aroclor-1262	11	28	520	1300	20 J	8600 *	OU3-D-SD03-0002	16.875	11		0	1000	2
Aroclor-1268	7	28	240	850	83 J	4400 *	OU3-D-SD03-0002	16.875	7		0	1000	1
beta-BHC	3	34	3.6	21	6.3 J	51	RM-SD-BS05-03	0.8625	3	3.9	3	340	0
delta-BHC	2	34	2	1.4	0.96	1.8	OU3-D-SD06-0002	0.8625	2	1.1	1	97	0
Dieldrin	16	34	3.7	2.8	0.09 J	8.8 J	OU3-D-SD07-0002	1.6875	9	7	2	38	0
Endosulfan I	8	34	15	78	1.9	420 J	BRD+00	0.8625	6	8400	0	410000	0
Endosulfan II	5	31	22	120	1.9	570	OU3-D-SD02-0002	0.98	5	8400	0	410000	0
Endosulfan Sulfate	8	34	3.6	1.3	0.21 J	2.7 J	OU3-D-SD07-0002	1.6875	1	8400	0	410000	0
Endrin	10	34	9.1	23	0.24 J	190	OU3-D-SD02-0002	1.1825	8	0	10	20000	0
Endrin Aldehyde	19	28	8.1	8.8	0.13 J	44	RM-SD-BS02-01	1.1325	16	0	19	20000	0
Endrin Ketone	9	28	4.4	3.1	0.1 J	19 J	BR-A+200	1.6875	3	0	9	20000	0
gamma-BHC	7	34	4.8	16	0.74 J	91	OU3-D-SD03-0002	0.79	5	40	1	20000	0
gamma-Chlordane	21	34	11	16	0.13 J	240	OU3-D-SD02-0002	2.0375	10	66	1	490	0
Heptachlor	3	34	14	140	0.61 JEB	430	OU3-D-SD02-0002	0.7075	2	13	1	140	1
Heptachlor Epoxide	11	34	25	74	0.07 J	730	OU3-D-SD02-0002	1.1125	8	20	3	67	1
Hexachlorobenzene	0	6	0.48	0	0	0	None	615	0	1000	0	1000	0
Methoxychlor	6	34	28	71	3.9	200	RM-SD-BS02-01	6.825	5	8000	0	340000	0
Mirex	0	6	0.48	0	0	0	None		0		0		0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
Toxaphene	0	34	190	0	0	0	None	86.25	0	600	0	560	0
Total Organic Carbon (mg/kg)	16	16	85000	85000	4350	826000	OU3-D-SD04-0002		0		0		0
Total Organic Material (mg/kg)	6	6	57000	57000	32000	79000	D-4-SED-SMP		0		0		0
SUBSURFACE SEDIMENT													
Asbestos (%)	3	8	0.4	1	1	1	OU3-D-SD02-0204, OU3-D-SD03-0204, OU3-D-SD06-0204		0		0		0
Dioxins/Furans (µg/kg)													
1,2,3,4,6,7,8-HpCDD	1	1	0.045	0.045	0.0453	0.0453	OU3-D-SD03-0204	0.11011	0		0		0
1,2,3,4,6,7,8-HpCDF	1	1	2.8	2.8	2.836	2.836	OU3-D-SD03-0204	0.043245	1		0		0
1,2,3,4,7,8,9-HpCDF	1	1	0.075	0.075	0.0746	0.0746	OU3-D-SD03-0204	0.00405375	1		0		0
1,2,3,4,7,8-HxCDD	1	1	0.0017	0.0017	0.00173	0.00173	OU3-D-SD03-0204	0.002916	0		0		0
1,2,3,4,7,8-HxCDF	1	1	0.63	0.63	0.627	0.627	OU3-D-SD03-0204	0.0024325	1		0		0
1,2,3,6,7,8-HxCDD	1	1	0.0042	0.0042	0.00421	0.00421	OU3-D-SD03-0204	0.00585625	0		0		0
1,2,3,6,7,8-HxCDF	1	1	0.31	0.31	0.313	0.313	OU3-D-SD03-0204	0.0018375	1		0		0
1,2,3,7,8,9-HxCDD	1	1	0.0039	0.0039	0.00391	0.00391	OU3-D-SD03-0204	0.003745	1		0		0
1,2,3,7,8,9-HxCDF	1	1	0.0021	0.0021	0.00213	0.00213	OU3-D-SD03-0204	0.00289875	0		0		0
1,2,3,7,8-PeCDD	1	1	0.0024	0.0024	0.00243	0.00243	OU3-D-SD03-0204	0.0013225	1		0		0
1,2,3,7,8-PeCDF	1	1	0.12	0.12	0.119	0.119	OU3-D-SD03-0204	0.0018125	1		0		0
2,3,4,6,7,8-HxCDF	1	1	0.06	0.06	0.0598	0.0598	OU3-D-SD03-0204	0.00224875	1		0		0
2,3,4,7,8-PeCDF	1	1	0.035	0.035	0.0347	0.0347	OU3-D-SD03-0204	0.00173375	1		0		0
2,3,7,8-TCDD	1	1	0.0029	0.0029	0.00285	0.00285	OU3-D-SD03-0204	0.0003725	1		0		0
2,3,7,8-TCDF	1	1	0.038	0.038	0.038	0.038	OU3-D-SD03-0204	0.00418625	1		0		0
OCDD	1	1	0.36	0.36	0.364	0.364	OU3-D-SD03-0204	1.6016375	0		0		0
OCDF	1	1	3.1	3.1	3.066	3.066	OU3-D-SD03-0204	0.115875	1		0		0
Total HpCDD	1	1	0.093	0.093	0.0933	0.0933	OU3-D-SD03-0204	0.2595375	0		0		0
Total HpCDF	1	1	3.3	3.3	3.295	3.295	OU3-D-SD03-0204	0.23091	1		0		0
Total HxCDD	1	1	0.048	0.048	0.0484	0.0484	OU3-D-SD03-0204	0.0264	1		0		0
Total HxCDF	1	1	2.6	2.6	2.642	2.642	OU3-D-SD03-0204	0.2633475	1		0		0
Total PeCDD	1	1	0.029	0.029	0.0291	0.0291	OU3-D-SD03-0204	0.0013225	1		0		0
Total PeCDF	1	1	1.7	1.7	1.673	1.673	OU3-D-SD03-0204	0.4017375	1		0		0
Total TCDD	1	1	0.011	0.011	0.0107	0.0107	OU3-D-SD03-0204	0.00277125	1		0		0
Total TCDF	1	1	0.76	0.76	0.76	0.76	OU3-D-SD03-0204	0.25400625	1		0		0
Toxicity Equivalency	1	1	0.16	0.16	0.16348	0.16348	OU3-D-SD03-0204	0.00451775	1		0		0
Metals (mg/kg)													
Aluminum	8	8	16500	16500	3570 J	35800 J	OU3-D-SD06-0204	11485	6		0		0
Antimony	2	8	1010	4040	14 J	8080 J	OU3-D-SD06-0204	2.425	2		0	27	1
Arsenic	7	8	41.8	47.6	2.6	192	OU3-D-SD06-0204	7.4125	3		0	10	2
Barium	8	8	308	308	33.8 J	1160 J	OU3-D-SD06-0204	32.4375	8		0	4700	0
Beryllium	7	8	0.63	0.7	0.32	0.92	OU3-D-SD10-0204	0.45375	6		0	2	0
Cadmium	4	8	30.8	61.4	0.75	201	OU3-D-SD06-0204	0.30625	4		0	34	2

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
Calcium	8	8	5200	5200	1520	12400	OU3-D-SD06-0204	2031.5	7		0		0
Chromium	8	8	166	166	13.7	595	OU3-D-SD07-0204	60.75	3		0	100	3
Cobalt	8	8	11.7	11.7	3.1	18 J	OU3-D-SD07-0204	8.875	6		0	1000	0
Copper	8	8	613	613	36.5	2070	OU3-D-SD06-0204	160.75	5		0	2500	0
Iron	8	8	63400	63400	7400	190000	OU3-D-SD06-0204	22060	6		0		0
Lead	8	8	12300	12300	11.6	96400 *	OU3-D-SD06-0204	71.825	6		0	500	2
Magnesium	8	8	7750	7750	2170	11700 J	OU3-D-SD06-0204	6247.5	6		0		0
Manganese	8	8	473	473	84.7	1450	OU3-D-SD06-0204	206.125	6		0	1600	0
Mercury	7	8	1.2	1.3	0.59 J	2.8	OU3-D-SD02-0204	0.6225	6		0	20	0
Nickel	8	8	79.6	79.6	7.8	319	OU3-D-SD07-0204	20.45	5		0	1400	0
Potassium	7	8	2650	2870	1260	4650 J	OU3-D-SD10-0204	2820	3		0		0
Selenium	0	8	0.87	0	0	0	None	0.94125	0		0	340	0
Silver	4	8	7.7	16	1.8	33.3 J	OU3-D-SD06-0204	0.53	4		0	340	0
Sodium	8	8	7320	7320	1650	11800 J	OU3-D-SD04-0203	8315	4		0		0
Thallium	1	8	1.2	2.6	2.6	2.6	OU3-D-SD09-0204	1.075	1		0	5.4	0
Vanadium	8	8	32.4	32.4	9.4	52.6 J	OU3-D-SD04-0203	36.05	4		0	470	0
Zinc	8	8	1130	1130	47.9	5790	OU3-D-SD06-0204	134.275	5		0	20000	0
Semivolatile Organic Compounds (µg/kg)													
1,2,4-Trichlorobenzene	0	8	170	0	0	0	None	615	0	14000	0	680000	0
1,2-Dichlorobenzene	0	8	170	0	0	0	None	615	0	3100	0	500000	0
1,3-Dichlorobenzene	0	8	170	0	0	0	None	615	0		0		0
1,4-Dichlorobenzene	0	8	170	0	0	0	None	615	0	15000	0	26000	0
2,2'-oxybis(1-Chloropropane)	0	8	170	0	0	0	None	615	0		0		0
2,4,5-Trichlorophenol	0	8	440	0	0	0	None	1500	0		0		0
2,4,6-Trichlorophenol	0	8	170	0	0	0	None	615	0		0		0
2,4-Dichlorophenol	0	8	170	0	0	0	None	615	0		0		0
2,4-Dimethylphenol	0	8	170	0	0	0	None	615	0	28000	0	1000000	0
2,4-Dinitrophenol	0	8	440	0	0	0	None	1500	0		0		0
2,4-Dinitrotoluene	0	8	170	0	0	0	None	615	0		0		0
2,6-Dinitrotoluene	0	8	170	0	0	0	None	615	0		0		0
2-Chloronaphthalene	0	8	170	0	0	0	None	615	0		0		0
2-Chlorophenol	0	1	120	0	0	0	None	615	0		0		0
2-Methylnaphthalene	0	8	170	0	0	0	None	615	0	58000	0	1000000	0
2-Methylphenol	0	8	170	0	0	0	None	615	0	70000	0	1000000	0
2-Nitroaniline	0	8	440	0	0	0	None	1500	0		0		0
2-Nitrophenol	0	8	170	0	0	0	None	615	0		0		0
3,3'-Dichlorobenzidine	0	8	170	0	0	0	None	615	0	16	0	1400	0
3-Nitroaniline	0	8	440	0	0	0	None	1500	0		0		0
4,6-Dinitro-2-methylphenol	0	8	440	0	0	0	None	1500	0		0		0
4-Bromophenyl-phenylether	0	1	120	0	0	0	None	615	0	82000	0	500000	0
4-Chloro-3-methylphenol	0	8	170	0	0	0	None	615	0	0	0	0	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
4-Chloroaniline	1	8	150	140	140 J	140 J	OU3-D-SD04-0203	615	0	5600	0	270000	0
4-Chlorophenyl-phenylether	0	8	170	0	0	0	None	615	0		0		0
4-Methylphenol	1	8	160	87	87 J	87 J	OU3-D-SD06-0204	615	0	7000	0	340000	0
4-Nitroaniline	0	8	440	0	0	0	None	1500	0	4200	0	200000	0
4-Nitrophenol	0	8	440	0	0	0	None	1500	0	11000	0	540000	0
Acenaphthene	3	8	110	120	96 J	165	OU3-D-SD02-0204	615	0	84000	0	1000000	0
Acenaphthylene	0	1	120	0	0	0	None	615	0	84000	0	1000000	0
Anthracene	5	8	130	150	40 J	300 J	OU3-D-SD03-0204	577.5	0	400000	0	1000000	0
Benzo(a)anthracene	6	8	300	360	59 J	690	OU3-D-SD03-0204	2015	0	1000	0	1000	0
Benzo(a)pyrene	6	8	290	360	89 J	730	OU3-D-SD04-0203	1702.5	0	1000	0	1000	0
Benzo(b)fluoranthene	6	8	350	430	110 J	780	OU3-D-SD04-0203	3291.25	0	1000	0	1000	0
Benzo(g,h,i)perylene	3	8	170	250	61 J	380 J	OU3-D-SD04-0203	927.5	0	40000	0	1000000	0
Benzo(k)fluoranthene	6	8	390	390	84 J	740 J	OU3-D-SD04-0203	615	1	1000	0	8400	0
Bis(2-Chloroethoxy)methane	0	8	170	0	0	0	None	615	0		0		0
Bis(2-Chloroethyl)ether	0	1	120	0	0	0	None	615	0		0		0
bis(2-Ethylhexyl)phthalate	4	8	280	460	81 J	1400	OU3-D-SD04-0203	617.5	1	11000	0	44000	0
Butylbenzylphthalate	0	8	170	0	0	0	None	615	0	200000	0	1000000	0
Carbazole	4	8	99	100	48 J	165	OU3-D-SD02-0204	527.5	0	360	0	31000	0
Chrysene	6	8	330	400	62 J	840	OU3-D-SD04-0203	1937.5	0	960	0	84000	0
Di-n-Butylphthalate	1	8	160	59	59 J	59 J	OU3-D-SD08-0204	615	0	140000	0	1000000	0
Di-n-octylphthalate	0	8	170	0	0	0	None	615	0	20000	0	1000000	0
Dibenzo(a,h)anthracene	2	8	110	100	100 J	100 J	OU3-D-SD03-0204, OU3-D-SD04-0203	752.5	0	0.96	2	84	2
Dibenzofuran	2	8	150	99	33 J	165	OU3-D-SD02-0204	615	0	5600	0	270000	0
Diethylphthalate	0	8	170	0	0	0	None	615	0	1100000	0	1000000	0
Dimethylphthalate	0	8	170	0	0	0	None	615	0	14000000	0	1000000	0
Fluoranthene	5	8	660	1000	250	1800	OU3-D-SD04-0203	3770.75	0	56000	0	1000000	0
Fluorene	4	8	110	110	29 J	165	OU3-D-SD02-0204	615	0	56000	0	1000000	0
Hexachlorobenzene	0	8	170	0	0	0	None	615	0	1000	0	1000	0
Hexachlorobutadiene	0	8	170	0	0	0	None	615	0		0		0
Hexachlorocyclopentadiene	0	7	180	0	0	0	None	615	0		0		0
Hexachloroethane	0	8	170	0	0	0	None	615	0		0		0
Indeno(1,2,3-cd)pyrene	4	8	170	230	55 J	380 J	OU3-D-SD04-0203	1552.5	0	9.6	4	840	0
Isophorone	0	8	170	0	0	0	None	615	0		0		0
N-Nitroso-di-n-propylamine	0	8	170	0	0	0	None	615	0	1	0	88	0
N-Nitroso-diphenylamine	1	8	160	38	38 J	38 J	OU3-D-SD06-0204	615	0	1400	0	130000	0
Naphthalene	1	8	170	160	165	165	OU3-D-SD02-0204	615	0	56000	0	1000000	0
Nitrobenzene	0	8	170	0	0	0	None	615	0		0		0
Pentachlorophenol	0	8	440	0	0	0	None	1500	0	1000	0	5100	0
Phenanthrene	6	6	410	410	44 J	980 J	OU3-D-SD03-0204	1900	0	40000	0	1000000	0
Phenol	0	8	170	0	0	0	None	615	0	800000	0	1000000	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
Pyrene	5	8	650	990	210 J	1900	OU3-D-SD06-0204	2486.5	0	40000	0	1000000	0
Total PAH	6	8	3500	4600	448	8665	OU3-D-SD04-0203		0		0		0
Volatile Organic Compounds (µg/kg)													
1,1,1-Trichloroethane	0	1	6	0	0	0	None	9.875	0	40000	0	500000	0
1,1,2,2-Tetrachloroethane	0	1	6	0	0	0	None	9.875	0	100	0	3100	0
1,1,2-Trichloroethane	0	1	6	0	0	0	None	9.875	0	1000	0	11000	0
1,1-Dichloroethane	0	1	6	0	0	0	None	9.875	0	14000	0	500000	0
1,1-Dichloroethene	0	1	6	0	0	0	None	9.875	0	1400	0	1000	0
1,2-Dichloroethane	0	1	6	0	0	0	None	9.875	0	200	0	6700	0
1,2-Dichloroethene (total)	0	1	6	0	0	0	None		0	14000	0	500000	0
1,2-Dichloropropane	0	1	6	0	0	0	None	9.875	0		0		0
2-Butanone	0	1	6	0	0	0	None	9.875	0	80000	0	500000	0
2-Hexanone	0	1	6	0	0	0	None	9.875	0	56000	0	500000	0
4-Methyl-2-Pentanone	0	1	6	0	0	0	None	9.875	0	14000	0	500000	0
Acetone	0	1	6	0	0	0	None	30.25	0	140000	0	500000	0
Benzene	0	1	6	0	0	0	None	9.875	0	200	0	21000	0
Bromodichloromethane	0	1	6	0	0	0	None	9.875	0	110	0	9900	0
Bromoform	0	1	6	0	0	0	None	9.875	0	800	0	78000	0
Bromomethane	0	1	6	0	0	0	None	9.875	0		0		0
Carbon Disulfide	0	1	6	0	0	0	None	13.625	0	140000	0	500000	0
Carbon Tetrachloride	0	1	6	0	0	0	None	9.875	0		0		0
Chlorobenzene	0	1	6	0	0	0	None	9.875	0	20000	0	500000	0
Chloroethane	0	1	6	0	0	0	None	9.875	0	2400	0	210000	0
Chloroform	0	1	6	0	0	0	None	9.875	0	1200	0	100000	0
Chloromethane	0	1	6	0	0	0	None	9.875	0	540	0	47000	0
cis-1,3-Dichloropropene	0	1	6	0	0	0	None	9.875	0		0		0
Dibromochloromethane	0	1	6	0	0	0	None	9.875	0		0		0
Ethylbenzene	0	1	6	0	0	0	None	9.875	0	10100	0	500000	0
Methylene Chloride	0	1	6	0	0	0	None	9.875	0	1000	0	82000	0
Styrene	0	1	6	0	0	0	None	9.875	0	20000	0	500000	0
Tetrachloroethene	0	1	6	0	0	0	None	9.875	0	1000	0	12000	0
Toluene	1	1	1	1	1 JTB	1 JTB	OU3-D-SD08-0204	9.375	0	67000	0	500000	0
Total Xylenes	0	1	6	0	0	0	None	9.875	0	19500	0	500000	0
trans-1,3-Dichloropropene	0	1	6	0	0	0	None	9.875	0		0		0
Trichloroethene	0	1	6	0	0	0	None	9.875	0	1000	0	58000	0
Vinyl Chloride	0	1	6	0	0	0	None	9.875	0	400	0	320	0
Pesticides/PCBs (µg/kg)													
4,4'-DDD	3	8	2.4	4.4	0.76 J	8	OU3-D-SD02-0204	2.3075	2	29	0	2600	0
4,4'-DDE	8	8	12	12	0.18 JEB	55	OU3-D-SD02-0204	1.036	4	21	1	1800	0
4,4'-DDT	0	8	2.1	0	0	0	None	1.98	0	21	0	1800	0
Aldrin	6	8	3	3.2	0.047 J	13 J	OU3-D-SD04-0203	0.945	3	0.41	3	38	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-6 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SEDIMENT
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT PMC	Number of Exceedances of CT PMC	CT DEC	Number of Exceedances of CT DEC
alpha-BHC	1	8	1.2	1.4	1.4 J	1.4 J	OU3-D-SD07-0204	1.4	0	1.1	1	97	0
alpha-Chlordane	4	8	64	130	0.34 J	480	OU3-D-SD02-0204	0.29425	4	66	1	490	0
Aroclor, Total	7	8	5100	5900	8.2	36700	OU3-D-SD02-0204	37.75	5		0		0
Aroclor, Total (Conservative)	7	8	5300	6100	81.2	37350	OU3-D-SD02-0204		0		0		0
Aroclor-1016	0	8	21	0	0	0	None	16.875	0		0	1000	0
Aroclor-1221	0	8	43	0	0	0	None	34.125	0		0		0
Aroclor-1232	0	8	21	0	0	0	None	16.875	0		0		0
Aroclor-1242	0	8	21	0	0	0	None	16.875	0		0	1000	0
Aroclor-1248	0	8	21	0	0	0	None	16.875	0		0	1000	0
Aroclor-1254	6	8	4700	6300	30 JEB	34000	OU3-D-SD02-0204	16.875	6		0	1000	3
Aroclor-1260	2	8	370	1500	220	2700	OU3-D-SD02-0204	16.875	2		0	1000	1
Aroclor-1262	2	8	22	14	8.2 J	20 J	OU3-D-SD06-0204	16.875	1		0	1000	0
Aroclor-1268	2	8	91	300	250 J	340 *J	OU3-D-SD04-0203	16.875	2		0	1000	0
beta-BHC	0	8	1.1	0	0	0	None	0.8625	0	3.9	0	340	0
delta-BHC	2	8	1.5	2.1	1.4 J	2.8 JEB	OU3-D-SD04-0203	0.8625	2	1.1	2	97	0
Dieldrin	5	8	3.4	3.4	0.29 J	8.2	OU3-D-SD04-0203	1.6875	3	7	1	38	0
Endosulfan I	2	8	3.5	11	9.2	12 J	OU3-D-SD04-0203	0.8625	2	8400	0	410000	0
Endosulfan II	4	5	7.2	7	0.15 J	24 J	OU3-D-SD04-0203	0.98	2	8400	0	410000	0
Endosulfan Sulfate	2	8	2.3	2.5	0.5 J	4.5 J	OU3-D-SD07-0204	1.6875	1	8400	0	410000	0
Endrin	3	8	2.4	4.2	0.14 J	8	OU3-D-SD02-0204	1.1825	2	0	3	20000	0
Endrin Aldehyde	7	8	16	18	0.17 J	53 J	OU3-D-SD04-0203	1.1325	3	0	7	20000	0
Endrin Ketone	1	8	2.3	3.3	3.3	3.3	OU3-D-SD03-0204	1.6875	1	0	1	20000	0
gamma-BHC	3	8	1.1	0.49	0.16 J	1.1 J	OU3-D-SD04-0203	0.79	1	40	0	20000	0
gamma-Chlordane	6	8	13	17	0.12 J	83	OU3-D-SD02-0204	2.0375	3	66	1	490	0
Heptachlor	5	8	21	33	0.18 JEB	160	OU3-D-SD02-0204	0.7075	3	13	1	140	1
Heptachlor Epoxide	5	8	22	36	0.087 JEB	170	OU3-D-SD02-0204	1.1125	3	20	1	67	1
Methoxychlor	1	8	14	35	35	35	OU3-D-SD03-0204	6.825	1	8000	0	340000	0
Toxaphene	0	8	110	0	0	0	None	86.25	0	600	0	560	0
Total Organic Carbon (mg/kg)	8	8	140000	140000	527	850000	OU3-D-SD04-0203		0		0		0

Notes: CT PMC - State of Connecticut Pollutant Mobility Criteria for GB Aquifers
CT DEC - State of Connecticut Direct Exposure Criteria for Residential Soils
CT AWQC - State of Connecticut Ambient Water Quality Criteria (water and organism)
J - Quantitation Approximate
* - The number of samples analyzed does not include results that were rejected during the data validation process.

TABLE 4-7
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT AWQC	Number of Exceedances of CT AWQC
Metals (µg/l)											
Aluminum	2	8	125	396	273	519	RM-SW-BN02-02	156.36875	2		0
Antimony	1	8	4.2	5.2	5.2 J	5.2 J	RM-SW-BS02-02	4.3625	1	14	0
Arsenic	0	8	7	0	0	0	None	14.3125	0	0.018	0
Barium	4	8	28.5	52.7	6.15	121 J	RM-SW-BS01-01	17.09375	3		0
Beryllium	0	7	0.5	0	0	0	None	0.45625	0	0.0077	0
Cadmium	0	8	1	0	0	0	None	0.9625	0	16	0
Calcium	8	8	188000	188000	152000	226000	RM-SW-BS02-01	219687.5	1		0
Chromium	0	8	2.5	0	0	0	None	4.975	0	170	0
Cobalt	1	8	1.4	2.4	2.4 J	2.4 J	RM-SW-BS01-01	1.19375	1		0
Copper	4	7	131	223	6	802 J	RM-SW-BS01-01	19.75	6		0
Iron	8	8	803	803	243	2800	RM-SW-BS01-01	698.25	3		0
Lead	1	8	5.7	35.8	35.8	35.8	RM-SW-BS01-01	3.9375	2	50	0
Magnesium	8	8	520000	520000	370000	836500	RM-SW-BS02-01	691312.5	1		0
Manganese	8	8	169	169	10.3 J	637	RM-SW-BS01-01	134.65	3		0
Mercury	0	8	0.094	0	0	0	None	0.14875	0	0.14	0
Nickel	0	8	5.3	0	0	0	None	4.6	0	610	0
Potassium	8	8	286000	286000	170000	375000 J	RM-SW-BN04-02	344000	2		0
Selenium	0	8	2.2	0	0	0	None	5.125	0	100	0
Silver	0	8	3.7	0	0	0	None	5.06875	0	105	0
Sodium	8	8	6310000	6310000	2810000	8750000	RM-SW-BN04-02	6916125	3		0
Thallium	0	8	3.4	0	0	0	None	10.20625	0	1.7	0
Vanadium	0	8	1.4	0	0	0	None	2.08125	0		0
Zinc	4	8	39.1	69.7	3.65	219	RM-SW-BS01-01	30.09375	2		0
Semivolatile Organic Compounds (µg/l)											
1,2,4-Trichlorobenzene	0	8	5	0	0	0	None	5	0		0
1,2-Dichlorobenzene	0	8	5	0	0	0	None	5	0	2700	0
1,3-Dichlorobenzene	0	8	5	0	0	0	None	5	0		0
1,4-Dichlorobenzene	0	8	5	0	0	0	None	5	0	400	0
2,2'-oxybis(1-Chloropropane)	0	8	5	0	0	0	None	5	0		0
2,4,5-Trichlorophenol	0	8	12	0	0	0	None	12.5	0		0
2,4,6-Trichlorophenol	0	8	5	0	0	0	None	5	0		0
2,4-Dichlorophenol	0	8	5	0	0	0	None	5	0		0
2,4-Dimethylphenol	0	8	5	0	0	0	None	5	0		0
2,4-Dinitrophenol	0	8	12	0	0	0	None	12.5	0		0
2,4-Dinitrotoluene	0	8	5	0	0	0	None	5	0		0
2,6-Dinitrotoluene	0	8	5	0	0	0	None	5	0		0
2-Chloronaphthalene	0	8	5	0	0	0	None	5	0		0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-7 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT AWQC	Number of Exceedances of CT AWQC
2-Chlorophenol	0	8	5	0	0	0	None	5	0		0
2-Methylnaphthalene	0	8	5	0	0	0	None	5	0		0
2-Methylphenol	0	8	5	0	0	0	None	5	0		0
2-Nitroaniline	0	8	12	0	0	0	None	12.5	0		0
2-Nitrophenol	0	8	5	0	0	0	None	5	0		0
3,3'-Dichlorobenzidine	0	8	5	0	0	0	None	5	0	0.04	0
3-Nitroaniline	0	8	12	0	0	0	None	9.375	0		0
4,6-Dinitro-2-methylphenol	0	8	12	0	0	0	None	12.5	0		0
4-Bromophenyl-phenylether	0	8	5	0	0	0	None	5	0		0
4-Chloro-3-methylphenol	0	8	5	0	0	0	None	5	0		0
4-Chloroaniline	0	8	5	0	0	0	None	5	0		0
4-Chlorophenyl-phenylether	0	8	5	0	0	0	None	5	0		0
4-Methylphenol	0	8	5	0	0	0	None	5	0		0
4-Nitroaniline	0	8	12	0	0	0	None	12.5	0		0
4-Nitrophenol	0	8	12	0	0	0	None	12.5	0		0
Acenaphthene	0	8	5	0	0	0	None	5	0		0
Acenaphthylene	0	8	5	0	0	0	None	5	0	0.0028	0
Anthracene	0	8	5	0	0	0	None	5	0	9600	0
Benzo(a)anthracene	0	8	5	0	0	0	None	5	0	0.0028	0
Benzo(a)pyrene	0	8	5	0	0	0	None	5	0	0.0028	0
Benzo(b)fluoranthene	0	8	5	0	0	0	None	5	0	0.0028	0
Benzo(g,h,i)perylene	0	8	5	0	0	0	None	5	0	0.0028	0
Benzo(k)fluoranthene	0	8	5	0	0	0	None	5	0	0.0028	0
Bis(2-Chloroethoxy)methane	0	8	5	0	0	0	None	5	0		0
Bis(2-Chloroethyl)ether	0	8	5	0	0	0	None	5	0		0
bis(2-Ethylhexyl)phthalate	0	8	5	0	0	0	None	5	0	1.8	0
Butylbenzylphthalate	0	8	5	0	0	0	None	5	0		0
Carbazole	0	8	5	0	0	0	None	5	0		0
Chrysene	0	8	5	0	0	0	None	5	0	0.0028	0
Di-n-Butylphthalate	1	8	5	3	3	3	RM-SW-BS02-01	5	0	2700	0
Di-n-octylphthalate	0	8	5	0	0	0	None	5	0		0
Dibenzo(a,h)anthracene	0	8	5	0	0	0	None	5	0	0.0028	0
Dibenzofuran	0	8	5	0	0	0	None	5	0		0
Diethylphthalate	0	8	5	0	0	0	None	5	0	23000	0
Dimethylphthalate	0	8	5	0	0	0	None	5	0	313000	0
Fluoranthene	0	8	5	0	0	0	None	5	0	300	0
Fluorene	0	8	5	0	0	0	None	5	0	1300	0
Hexachlorobenzene	0	8	5	0	0	0	None	5	0	0.00075	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-7 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT AWQC	Number of Exceedances of CT AWQC
Hexachlorobutadiene	0	8	5	0	0	0	None	5	0		0
Hexachlorocyclopentadiene	0	8	5	0	0	0	None	5	0		0
Hexachloroethane	0	8	5	0	0	0	None	5	0		0
Indeno(1,2,3-cd)pyrene	0	8	5	0	0	0	None	5	0	0.0028	0
Isophorone	0	8	5	0	0	0	None	5	0		0
N-Nitroso-di-n-propylamine	0	8	5	0	0	0	None	5	0		0
N-Nitroso-diphenylamine	0	8	5	0	0	0	None	5	0	5	0
Naphthalene	0	8	5	0	0	0	None	5	0		0
Nitrobenzene	0	8	5	0	0	0	None	5	0		0
Pentachlorophenol	0	8	12	0	0	0	None	12.5	0	0.28	0
Phenanthrene	0	8	5	0	0	0	None	5	0	0.0028	0
Phenol	0	8	5	0	0	0	None	5	0	21000	0
Pyrene	0	8	5	0	0	0	None	5	0	960	0
Total PAH	0	8	5	0	0	0	None		0		0
Volatile Organic Compounds (µg/l)											
1,1,1-Trichloroethane	0	8	5	0	0	0	None	5	0	3100	0
1,1,2,2-Tetrachloroethane	0	8	5	0	0	0	None	5	0	0.17	0
1,1,2-Trichloroethane	0	8	5	0	0	0	None	5	0	0.6	0
1,1-Dichloroethane	0	8	5	0	0	0	None	5	0		0
1,1-Dichloroethene	0	8	5	0	0	0	None	5	0	0.057	0
1,2-Dichloroethane	0	8	5	0	0	0	None	5	0	0.38	0
1,2-Dichloroethene (total)	0	8	5	0	0	0	None		0		0
1,2-Dichloropropane	0	8	5	0	0	0	None	5	0		0
2-Butanone	0	8	5	0	0	0	None	5	0		0
2-Hexanone	0	8	5	0	0	0	None	5	0		0
4-Methyl-2-Pentanone	0	8	5	0	0	0	None	5	0		0
Acetone	1	8	6	16	16	16	RM-SW-BS01-01	6.125	1		0
Benzene	0	8	5	0	0	0	None	5	0	1.2	0
Bromodichloromethane	0	8	5	0	0	0	None	5	0	0.27	0
Bromoform	0	8	5	0	0	0	None	5	0	4.3	0
Bromomethane	0	8	5	0	0	0	None	5	0		0
Carbon Disulfide	0	8	5	0	0	0	None	4.75	0		0
Carbon Tetrachloride	0	8	5	0	0	0	None	5	0		0
Chlorobenzene	0	8	5	0	0	0	None	5	0	680	0
Chloroethane	0	8	5	0	0	0	None	5	0		0
Chloroform	0	8	5	0	0	0	None	5	0	5.7	0
Chloromethane	0	8	5	0	0	0	None	5	0	5.7	0
cis-1,3-Dichloropropene	0	8	5	0	0	0	None	5	0		0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-7 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT AWQC	Number of Exceedances of CT AWQC
Dibromochloromethane	0	8	5	0	0	0	None	5	0		0
Ethylbenzene	0	8	5	0	0	0	None	5	0	3100	0
Methylene Chloride	0	8	5	0	0	0	None	5	0	4.7	0
Styrene	0	8	5	0	0	0	None	5	0		0
Tetrachloroethene	0	8	5	0	0	0	None	5	0	0.8	0
Toluene	0	8	5	0	0	0	None	5	0	6800	0
Total Xylenes	0	8	5	0	0	0	None	5	0		0
trans-1,3-Dichloropropene	0	8	5	0	0	0	None	5	0		0
Trichloroethene	0	8	5	0	0	0	None	5	0	2.7	0
Vinyl Chloride	0	8	5	0	0	0	None	5	0	2	0
Pesticides/PCBs (µg/l)											
4,4'-DDD	0	8	0.05	0	0	0	None	0.05	0	0.00083	0
4,4'-DDE	0	8	0.05	0	0	0	None	0.05	0	0.00059	0
4,4'-DDT	0	8	0.1	0	0	0	None	0.125	0	0.00059	0
Aldrin	0	8	0.025	0	0	0	None	0.025	0	0.00013	0
alpha-BHC	1	8	0.023	0.0062	0.0062 J	0.0062 J	RM-SW-BN01-02	0.0222375	0	0.0039	1
alpha-Chlordane	0	8	0.025	0	0	0	None	0.0220375	0	0.00057	0
Aroclor, Total	0	8	0.35	0	0	0	None	0.7625	0	0.000044	0
Aroclor, Total (Conservative)	0	8	0.31	0	0	0	None		0		0
Aroclor-1016	0	8	0.44	0	0	0	None	0.53125	0	0.000044	0
Aroclor-1221	0	8	0.5	0	0	0	None	0.5	0		0
Aroclor-1232	0	8	0.31	0	0	0	None	0.34375	0		0
Aroclor-1242	0	8	0.31	0	0	0	None	0.34375	0	0.000044	0
Aroclor-1248	0	8	0.31	0	0	0	None	0.34375	0	0.000044	0
Aroclor-1254	0	8	0.31	0	0	0	None	0.34375	0	0.000044	0
Aroclor-1260	0	8	0.31	0	0	0	None	0.34375	0	0.000044	0
Aroclor-1262	0	8	0.31	0	0	0	None	0.34375	0	0.000044	0
Aroclor-1268	0	8	0.31	0	0	0	None	0.34375	0	0.000044	0
beta-BHC	0	8	0.025	0	0	0	None	0.025	0	0.014	0
delta-BHC	0	8	0.025	0	0	0	None	0.025	0		0
Dieldrin	0	8	0.05	0	0	0	None	0.05	0	0.00014	0
Endosulfan I	0	8	0.025	0	0	0	None	0.025	0	0.93	0
Endosulfan II	0	8	0.05	0	0	0	None	0.05	0	0.93	0
Endosulfan Sulfate	1	8	0.044	0.004	0.004 J	0.004 J	RM-SW-BN01-02	0.05	0	0.93	0
Endrin	1	8	0.044	0.004	0.004 J	0.004 J	RM-SW-BS02-03	0.05	0	0.76	0
Endrin Aldehyde	0	8	0.044	0	0	0	None	0.040625	0	0.76	0
Endrin Ketone	0	8	0.05	0	0	0	None	0.05	0		0
gamma-BHC	0	8	0.025	0	0	0	None	0.0235	0	0.019	0

U - Not Detected; UJ - Detection Limit Aproximate; J - Quantitation Approximate;
* - from dilution; R - Rejected; NA - Not Analyzed; EMPC - Estimated Maximum Possible Concentration

TABLE 4-7 (cont.)
SUMMARY STATISTICS AND COMPARISON TO CRITERIA - AREA D - SURFACE WATER
DRAFT FINAL REMEDIAL INVESTIGATION - AREA III
RAYMARK - FERRY CREEK -OU3
STRATFORD, CONNECTICUT

Parameter	Positive Detections	Number of Samples Analyzed *	Average Conc.	Average Detected Conc.	Minimum Detected Conc.	Maximum Detected Conc.	Location of Max. Detection	Raymark Average Background Conc.	Number of Exceedances of Raymark Ave. Background	CT AWQC	Number of Exceedances of CT AWQC
gamma-Chlordane	0	8	0.64	0	0	0	None	0.953125	0	0.00057	0
Heptachlor	0	8	0.025	0	0	0	None	0.025	0	0.00021	0
Heptachlor Epoxide	1	8	0.024	0.014	0.014	0.014	RM-SW-BN03-02	0.0220625	0	0.0001	1
Methoxychlor	0	8	0.2	0	0	0	None	0.15	0		0
Toxaphene	0	8	2	0	0	0	None	1.75	0	0.00073	0

Notes: CT PMC - State of Connecticut Pollutant Mobility Criteria for GB Aquifers
CT DEC - State of Connecticut Direct Exposure Criteria for Residential Soils
CT AWQC - State of Connecticut Ambient Water Quality Criteria (water and organism)
J - Quantitation Approximate
* - The number of samples analyzed does not include results that were rejected during the data validation process.

Tables 4-8 to 4-15
(pages 42-78)
are available
in a separate file (size: 4.7 MB)

Click here to view.

Tables 6-1 to 6-17
(pages 79-120)
are available
in a separate file (size: 4.2 MB)

Click here to view.

Tables 6-18 to 6-27,
7-1 to 7-11, 8-1 to 8-2 and
Figures 1-1 to 1-2, 3-1 and 4-1
(pages 121-163)
are available
in a separate file (size: 4.7 MB)

Click here to view.

Figures 4-2 to 4-12,
6-1, and 7-1 to 7-3
(pages 164-178)
are available
in a separate file (size: 5 MB)

Click here to view.