TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
BTEX	Benzene	0-2	185	38	21%	0.0002	J	3.8	J	MG/KG	HA-99-07	0	1
BTEX	Benzene	2-4	114	20	18%	0.0003	J	2.3	J	MG/KG	SB09A1-3	2.67	4.67
BTEX	Benzene	4-15	121	25	21%	0.0003	J	0.45	J	MG/KG	SB27E10-1	4.5	6.5
BTEX	Ethylbenzene	0-2	185	16	9%	0.0001	J	7.6	J	MG/KG	SB09A1-4	0.67	2.67
BTEX	Ethylbenzene	2-4	115	16	14%	0.0001	J	12		MG/KG	SB09A1-3	2.67	4.67
BTEX	Ethylbenzene	4-15	121	10	8%	0.0002	J	10		MG/KG	SB09A2-1	5	7
BTEX	Toluene	0-2	190	72	38%	0.0002	J	180	J	MG/KG	HA-99-07	0	1
BTEX	Toluene	2-4	119	39	33%	2E-06		38		MG/KG	SB09C2-1	2.83	4.83
BTEX	Toluene	4-15	121	33	27%	0.0002	J	8.2		MG/KG	SB09A2-1	5	7
BTEX	Xylenes	0-2	185	40	22%	0.0002	JB	91	J	MG/KG	SB09A1-4	0.67	2.67
BTEX	Xylenes	2-4	114	28	25%	0.0002	J	76		MG/KG	SB09A1-3	2.67	4.67
BTEX	Xylenes	4-15	121	22	18%	0.0002	J	78		MG/KG	SB09A2-1	5	7
cVOC	1,1,1-Trichloroethane	0-2	188	66	35%	0.0007	J	340		MG/KG	HA-99-07	0	1
cVOC	1,1,1-Trichloroethane	2-4	118	34	29%	0.0006	J	2.6		MG/KG	SB24B1-1	2.33	4.33
cVOC	1,1,1-Trichloroethane	4-15	121	26	21%	0.0008	J	3.8		MG/KG	SB31A1-1	4.67	6.67
cVOC	1,1,2,2-Tetrachloroethane	0-2	185	1	1%	0.052	J	0.052	J	MG/KG	SB12B3-2	0.5	2.5
cVOC	1,1,2,2-Tetrachloroethane	2-4	114	1	1%	0.59	J	0.59	J	MG/KG	SB24B1-1	2.33	4.33
cVOC	1,1,2,2-Tetrachloroethane	4-15	121	3	2%	0.14	J	21	J	MG/KG	SB13D1-3	4.5	6.5
cVOC	1,1,2-Trichloroethane	0-2	186	16	9%	0.0003	J	0.78	J	MG/KG	HA-99-07	0	1
cVOC	1,1,2-Trichloroethane	2-4	114	3	3%	0.006		0.037		MG/KG	BR-3	3	5
cVOC	1,1,2-Trichloroethane	4-15	121	3	2%	0.0007	J	0.78	J	MG/KG	SB31A1-2	4.67	6.67
cVOC	1,1-Dichloroethane	0-2	188	46	24%	0.0004	J	120	J	MG/KG	HA-99-07	0	1
cVOC	1,1-Dichloroethane	2-4	115	18	16%	0.0006	J	9.8	D	MG/KG	SB24B1-1	2.33	4.33
cVOC	1,1-Dichloroethane	4-15	121	18	15%	0.0007	J	1.7	J	MG/KG	SB06A3-1	4.5	6.5
cVOC	1,1-Dichloroethene	0-2	185	10	5%	0.001	J	12	J	MG/KG	HA-99-07	0	1
cVOC	1,1-Dichloroethene	2-4	114	7	6%	0.0008	J	3		MG/KG	SB24B1-1	2.33	4.33
cVOC	1,1-Dichloroethene	4-15	121	7	6%	0.0006	J	0.22	J	MG/KG	SB31A1-1	4.67	6.67
cVOC	1,2,4-Trichlorobenzene	2-4	116	2	2%	0.014	J	0.68	J	MG/KG	WC-9S	2	4
cVOC	1,2-Dichloroethane	0-2	185	2	1%	0.0008	J	0.0009	J	MG/KG	SB17A2-3	1	3
cVOC	1,2-Dichloroethane	2-4	114	1	1%	0.21	J	0.21	J	MG/KG	SB24B1-1	2.33	4.33
cVOC	1,2-Dichloroethane	4-15	121	2	2%	0.0008	J	0.002	J	MG/KG	SB17A2-3	7	9
cVOC	1,2-Dichloroethylenes (cis and trans)	0-2	88	5	6%	0.001	J	0.3	J	MG/KG	WC-5S	0.8	2.8

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
cVOC	1,2-Dichloroethylenes (cis and trans)	2-4	57	3	5%	0.008	J	0.037	J	MG/KG	BR-3	3	5
cVOC	1,3-Dichlorobenzene	2-4	116	1	1%	0.55	J	0.55	J	MG/KG	WC-9S	2	4
cVOC	Bromodichloromethane	0-2	185	2	1%	0.002	J	0.003	J	MG/KG	SB08K1-1	0.67	2.67
cVOC	Carbon tetrachloride	0-2	185	2	1%	0.083	J	2.8		MG/KG	SB12B3-2	0.5	2.5
cVOC	Chlorobenzene	0-2	186	2	1%	0.005	J	6	J	MG/KG	SB09C2-1	0.83	2.83
cVOC	Chlorobenzene	2-4	116	6	5%	0.0003	J	19		MG/KG	SB09C2-1	2.83	4.83
cVOC	Chlorobenzene	4-15	121	1	1%	0.4	J	0.4	J	MG/KG	SB06A3-1	4.5	6.5
cVOC	Chloroethane	0-2	186	3	2%	0.003	J	5.8	J	MG/KG	HA-99-07	0	1
cVOC	Chloroethane	2-4	114	2	2%	0.018	J	11	J	MG/KG	SB24B1-1	2.33	4.33
cVOC	Chloroethane	4-15	121	5	4%	0.004	J	0.038	J	MG/KG	SB08L1-6	4	6
cVOC	Chloroform	0-2	185	137	74%	0.0006	J	0.032	J	MG/KG	SB09B4-1	0.5	2.5
cVOC	Chloroform	2-4	114	77	68%	0.0008	J	0.008	J	MG/KG	SB24A4-2	1.5	3.5
cVOC	Chloroform	4-15	121	80	66%	0.0007	J	0.008		MG/KG	SB08H1-1	4.5	6.5
cVOC	Chloromethane	0-2	185	4	2%	0.0009	J	0.16	J	MG/KG	SB12B3-2	0.5	2.5
cVOC	cis-1,2-Dichloroethene	0-2	103	43	42%	0.0007		3300		MG/KG	HA-99-07	0	1
cVOC	cis-1,2-Dichloroethene	2-4	61	25	41%	0.001	J	86		MG/KG	SB09A1-3	2.67	4.67
cVOC	cis-1,2-Dichloroethene	4-15	65	15	23%	0.0005	J	33		MG/KG	SB06A3-1	4.5	6.5
cVOC	Dibromochloromethane	0-2	185	2	1%	0.0008	J	0.001	J	MG/KG	SB09B3-1	0.75	2.75
cVOC	Dibromochloromethane	4-15	121	1	1%	0.0006	J	0.0006	J	MG/KG	SB31A2-1	4.5	6.5
cVOC	Dichloromethane	0-2	195	15	8%	0.001	JB	3	J	MG/KG	SB09A2-1	1	3
cVOC	Dichloromethane	2-4	127	17	13%	0.001	JB	6.6		MG/KG	WC-5S	2.8	4.8
cVOC	Dichloromethane	4-15	121	3	2%	0.001	JB	0.002	JB	MG/KG	SB06A1-1	4.17	6.17
cVOC	Tetrachloroethene	0-2	187	74	40%	0.0003	J	1200		MG/KG	HA-99-07	0	1
cVOC	Tetrachloroethene	2-4	118	41	35%	7E-06		21		MG/KG	SB09A1-1	2.5	4.5
cVOC	Tetrachloroethene	4-15	122	26	21%	0.0003	J	0.78	J	MG/KG	SB09A2-1	5	7
cVOC	trans-1,2-Dichloroethene	0-2	185	10	5%	0.0006	J	2.8	J	MG/KG	HA-99-07	0	1
cVOC	trans-1,2-Dichloroethene	2-4	114	8	7%	0.001	J	1.8	J	MG/KG	SB09C1-1	3	5
cVOC	trans-1,2-Dichloroethene	4-15	121	2	2%	0.6	J	1.2	J	MG/KG	SB06A3-1	4.5	6.5
cVOC	Trichloroethene	0-2	193	122	63%	0.0003	J	560		MG/KG	HA-99-07	0	1
cVOC	Trichloroethene	2-4	124	62	50%	2E-06	J	29		MG/KG	SB09B8-1	2.25	4.25
cVOC	Trichloroethene	4-15	122	48	39%	0.0004	J	0.41	J	MG/KG	SB06A3-1	4.5	6.5
cVOC	Vinyl Chloride	0-2	185	3	2%	0.017	J	36	J	MG/KG	HA-99-07	0	1

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
cVOC	Vinyl Chloride	2-4	114	4	4%	0.011		7.7		MG/KG	SB09A1-3	2.67	4.67
Inorganics	Aluminum	0-2	202	201	100%	430		20100		MG/KG	HA-99-07	0	1
Inorganics	Aluminum	2-4	134	134	100%	2320		16600		MG/KG	WC-6S	2.5	4.5
Inorganics	Aluminum	4-15	123	121	98%	1960		16400		MG/KG	DB-99-02	9	11
Inorganics	Boron	0-2	12	5	42%	5.6		26.2	B	MG/KG	HA-99-07	0	1
Inorganics	Boron	2-4	11	6	55%	0.49		2.3		MG/KG	DB-99-01	2	4
Inorganics	Boron	4-15	18	11	61%	1.3		12.6		MG/KG	DB-99-07	8	10
Inorganics	Calcium	0-2	201	186	93%	191		70700		MG/KG	SB08C4-1	0.5	2.5
Inorganics	Calcium	2-4	133	131	98%	183		18900		MG/KG	SB08L1-6	2	4
Inorganics	Calcium	4-15	123	118	96%	312		87900		MG/KG	DB-99-07	8	10
Inorganics	Cobalt	0-2	202	202	100%	0.45		88.6		MG/KG	SB29A1-4	0.67	2.67
Inorganics	Cobalt	2-4	131	131	100%	1.78		44.6		MG/KG	SB33A1-1	3	5
Inorganics	Cobalt	4-15	122	122	100%	0.824	J	33.8		MG/KG	SB01A1-1	4.33	6.33
Inorganics	Ferrous Iron	4-15	10	10	100%	4.33	J	69.9		MG/KG	SP-PILOT-(	6	11
Inorganics	Iron	0-2	202	201	100%	970		133000		MG/KG	BR-4	1	3
Inorganics	Iron	2-4	134	133	99%	5060		28200		MG/KG	WC-6S	2.5	4.5
Inorganics	Iron	4-15	123	121	98%	3570		36900		MG/KG	DB-99-07	8	10
Inorganics	Magnesium	0-2	202	198	98%	526		11500		MG/KG	SB08C4-1	0.5	2.5
Inorganics	Magnesium	2-4	134	134	100%	294		8550		MG/KG	WC-6S	2.5	4.5
Inorganics	Magnesium	4-15	123	122	99%	784		14300		MG/KG	DB-99-07	8	10
Inorganics	Manganese	0-2	217	217	100%	35.7		13000		MG/KG	SB08C4-1	0.5	2.5
Inorganics	Manganese	2-4	136	136	100%	62		851		MG/KG	SB13C1-1	2.5	4.5
Inorganics	Manganese	4-15	126	126	100%	40.8		10000		MG/KG	DB-99-07	8	10
Inorganics	Potassium	0-2	202	198	98%	252		4960		MG/KG	BR-9	1	3
Inorganics	Potassium	2-4	134	127	95%	264		4860		MG/KG	SB17A3-2	2.75	4.75
Inorganics	Potassium	4-15	123	116	94%	244	J	4060		MG/KG	DB-99-09	9	11
Inorganics	Sodium	0-2	202	198	98%	9.73		1310		MG/KG	SB09A1-4	0.67	2.67
Inorganics	Sodium	2-4	133	132	99%	21	J	1070		MG/KG	SB17A3-4	2.5	4.5
Inorganics	Sodium	4-15	123	122	99%	36.2		1890		MG/KG	DB-99-13	9	11
PAH	2-Methylnaphthalene	0-2	201	31	15%	0.001	J	25	J	MG/KG	HA-99-07	0	1
PAH	2-Methylnaphthalene	2-4	123	16	13%	0.002	J	5.3		MG/KG	WC-2D	2.5	4.5
PAH	2-Methylnaphthalene	4-15	123	5	4%	0.002	J	0.36	J	MG/KG	DB-99-04	9	11

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
PAH	9H-Fluorene	0-2	200	31	16%	0.012	J	13.7	J	MG/KG	SB22A1-1	0.5	2.5
PAH	9H-Fluorene	2-4	123	13	11%	0.01	J	0.892		MG/KG	SB24B1-2	1.25	3.25
PAH	9H-Fluorene	4-15	122	8	7%	0.003	J	1.38	J	MG/KG	SB23A1-3	4	6
PAH	Acenaphthene	0-2	197	28	14%	0.012	J	5.12	J	MG/KG	SB22A1-1	0	2
PAH	Acenaphthene	2-4	120	10	8%	0.004	J	0.835		MG/KG	SB19A1-6	2.5	4.5
PAH	Acenaphthene	4-15	123	6	5%	0.007	J	0.999		MG/KG	SB23A1-3	4	6
PAH	Acenaphthylene	0-2	196	32	16%	0.002	J	7.1		MG/KG	SB22A1-2	0	2
PAH	Acenaphthylene	2-4	118	10	8%	0.003	J	0.77	J	MG/KG	WC-9S	2	4
PAH	Acenaphthylene	4-15	122	7	6%	0.002	J	0.351		MG/KG	SB19A1-5	4.5	6.5
PAH	Anthracene	0-2	204	47	23%	0.004	J	18		MG/KG	SB22A1-2	0	2
PAH	Anthracene	2-4	124	20	16%	0.001	J	6.8	JD	MG/KG	SB09B3-1	2.75	4.75
PAH	Anthracene	4-15	123	16	13%	0.003	J	2.2		MG/KG	SB29A1-3	4.58	6.58
PAH	Benzo[a]anthracene	0-2	204	57	28%	0.004	J	39		MG/KG	SB22A1-2	0	2
PAH	Benzo[a]anthracene	2-4	124	28	23%	0.004	J	20	D	MG/KG	SB09B3-1	2.75	4.75
PAH	Benzo[a]anthracene	4-15	125	21	17%	0.01	J	4.9		MG/KG	SB29A1-3	4.58	6.58
PAH	Benzo[a]pyrene	0-2	203	55	27%	0.019	J	32		MG/KG	SB22A1-2	0	2
PAH	Benzo[a]pyrene	2-4	123	23	19%	0.008	J	16	D	MG/KG	SB09B3-1	2.75	4.75
PAH	Benzo[a]pyrene	4-15	123	17	14%	0.008	J	3.6		MG/KG	SB29A1-3	4.58	6.58
PAH	Benzo[b]fluoranthene	0-2	204	59	29%	0.016	J	42	J	MG/KG	SB22A1-2	0	2
PAH	Benzo[b]fluoranthene	2-4	125	26	21%	0.007	J	15	D	MG/KG	SB09B3-1	2.75	4.75
PAH	Benzo[b]fluoranthene	4-15	123	16	13%	0.008	J	4.2	J	MG/KG	SB29A1-3	4.5	6.5
PAH	Benzo[ghi]fluoranthene	0-2	172	26	15%	0.021	J	4.82	J	MG/KG	SB22A1-1	0	2
PAH	Benzo[ghi]fluoranthene	2-4	104	8	8%	0.011	J	1.9		MG/KG	SB09B3-1	2.75	4.75
PAH	Benzo[ghi]fluoranthene	4-15	102	9	9%	0.011	J	1.9		MG/KG	SB29A1-3	4.58	6.58
PAH	Benzo[ghi]perylene	0-2	22	15	68%	0.042	J	16		MG/KG	SB22A1-2	0	2
PAH	Benzo[ghi]perylene	2-4	14	6	43%	0.1	J	0.91	J	MG/KG	WC-11S	2.5	4.5
PAH	Benzo[ghi]perylene	4-15	21	7	33%	0.044	J	1.4		MG/KG	SB29A1-3	4.5	6.5
PAH	Benzo[k]fluoranthene	0-2	205	46	22%	0.021	J	27	NJ	MG/KG	SB22A1-2	0	2
PAH	Benzo[k]fluoranthene	2-4	125	22	18%	0.008	J	12	D	MG/KG	SB09B3-1	2.75	4.75
PAH	Benzo[k]fluoranthene	4-15	123	14	11%	0.008	J	4.6	J	MG/KG	SB29A1-3	4.5	6.5
PAH	Chrysene	0-2	207	63	30%	0.003	J	39		MG/KG	SB22A1-2	0	2
PAH	Chrysene	2-4	124	27	22%	0.002	J	22	D	MG/KG	SB09B3-1	2.75	4.75

TABLE 8-1
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SUMMARY OF DETECTED ANALYTES (TOTAL)

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CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
PAH	Chrysene	4-15	125	21	17%	0.01	J	6		MG/KG	SB29A1-3	4.58	6.58
PAH	Dibenz[ah]anthracene	0-2	192	24	13%	0.007	J	7.4		MG/KG	SB22A1-2	0	2
PAH	Dibenz[ah]anthracene	2-4	116	7	6%	0.006	J	1.4		MG/KG	SB09B3-1	2.75	4.75
PAH	Dibenz[ah]anthracene	4-15	122	7	6%	0.025	J	0.8	J	MG/KG	SB29A1-3	4.58	6.58
PAH	Fluoranthene	0-2	210	77	37%	0.001	J	76		MG/KG	SB22A1-2	0	2
PAH	Fluoranthene	2-4	132	40	30%	0.004	J	28	D	MG/KG	SB09B3-1	2.75	4.75
PAH	Fluoranthene	4-15	125	26	21%	0.001	J	11		MG/KG	SB29A1-3	4.58	6.58
PAH	Indeno[1,2,3-c,d]pyrene	0-2	195	43	22%	0.015	J	22		MG/KG	SB22A1-2	0	2
PAH	Indeno[1,2,3-c,d]pyrene	2-4	118	16	14%	0.005	J	3.2		MG/KG	SB09B3-1	2.75	4.75
PAH	Indeno[1,2,3-c,d]pyrene	4-15	122	15	12%	0.007	J	2.1		MG/KG	SB29A1-3	4.5	6.5
PAH	Naphthalene	0-2	199	32	16%	0.002	J	10	J	MG/KG	HA-99-07	0	1
PAH	Naphthalene	2-4	123	18	15%	0.002	J	3.8		MG/KG	WC-5S	2.8	4.8
PAH	Naphthalene	4-15	123	7	6%	0.002	J	1.5		MG/KG	DB-99-04	9	11
PAH	Phenanthrene	0-2	209	68	33%	0.002	J	81		MG/KG	SB22A1-2	0	2
PAH	Phenanthrene	2-4	129	34	26%	0.004	J	7.1	JD	MG/KG	SB09B3-1	2.75	4.75
PAH	Phenanthrene	4-15	123	21	17%	0.002	J	4.3		MG/KG	SB29A1-3	4.5	6.5
PAH	Pyrene	0-2	210	74	35%	0.0008	J	82		MG/KG	SB22A1-2	0	2
PAH	Pyrene	2-4	133	38	29%	0.003	J	58	D	MG/KG	SB09B3-1	2.75	4.75
PAH	Pyrene	4-15	125	25	20%	0.001	J	11		MG/KG	SB29A1-3	4.58	6.58
PCBs	PCB 1016	0-2	184	1	1%	0.091		0.091		MG/KG	SB22A1-1	0.5	2.5
PCBs	PCB 1248	2-4	30	1	3%	0.7		0.7		MG/KG	WC-6S	2.5	4.5
PCBs	PCB 1254	0-2	184	13	7%	0.044		10.7	J	MG/KG	SB09C2-1	0.83	2.83
PCBs	PCB 1260	0-2	186	80	43%	0.00682		74	J	MG/KG	SB09A1-4	0.67	2.67
PCBs	PCB 1260	2-4	30	13	43%	0.019	J	3.7		MG/KG	DB-99-08	2	4
RSR Inorganics	Antimony	0-2	193	42	22%	0.2	J	69		MG/KG	BR-4	1	3
RSR Inorganics	Antimony	2-4	127	31	24%	0.216		35.2		MG/KG	SB09B4-1	2.5	4.5
RSR Inorganics	Antimony	4-15	119	32	27%	0.29	J	11		MG/KG	BR-2	3	7
RSR Inorganics	Arsenic	0-2	201	201	100%	0.588	J	22.9		MG/KG	BR-4	1	3
RSR Inorganics	Arsenic	2-4	134	129	96%	0.634	J	54.6		MG/KG	SB27E1-1	2.33	4.33
RSR Inorganics	Arsenic	4-15	124	112	90%	0.57		3550		MG/KG	SB13G1-1	5	7
RSR Inorganics	Barium	0-2	202	202	100%	8.81		1891		MG/KG	WC-10S	0.5	2.5
RSR Inorganics	Barium	2-4	134	134	100%	6.56		521		MG/KG	BR-3	3	5

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Barium	4-15	123	123	100%	6.02		109		MG/KG	BR-2	3	7
RSR Inorganics	Beryllium	0-2	183	181	99%	0.0985	J	1.9		MG/KG	BR-9	1	3
RSR Inorganics	Beryllium	2-4	115	105	91%	0.143	J	3.19		MG/KG	SB09B4-1	2.5	4.5
RSR Inorganics	Beryllium	4-15	119	108	91%	0.0792	J	0.85	J	MG/KG	SB01A1-2	4.33	6.4
RSR Inorganics	Cadmium	0-2	187	84	45%	0.08	J	883		MG/KG	WC-8S	0.5	2.5
RSR Inorganics	Cadmium	2-4	122	45	37%	0.0912	J	1110		MG/KG	WC-8S	2.5	4.5
RSR Inorganics	Cadmium	4-15	121	37	31%	0.032		17.4		MG/KG	SB13D1-1	5	7
RSR Inorganics	Chromium	0-2	250	249	100%	3.43		2460		MG/KG	C-1	1	2
RSR Inorganics	Chromium	2-4	142	142	100%	3.86		252		MG/KG	SB09B4-1	2.5	4.5
RSR Inorganics	Chromium	4-15	174	173	99%	2.92		2218		MG/KG	C-1	7	8
RSR Inorganics	Copper	0-2	202	202	100%	5.93		3691		MG/KG	WC-10S	0.5	2.5
RSR Inorganics	Copper	2-4	137	137	100%	4.5		238		MG/KG	SB09B4-1	2.5	4.5
RSR Inorganics	Copper	4-15	124	124	100%	4.63		275	J	MG/KG	DB-99-02	9	11
RSR Inorganics	Cyanide	0-2	203	10	5%	0.495		230		MG/KG	SP-98-03	0.25	2
RSR Inorganics	Cyanide	2-4	118	3	3%	0.416		4		MG/KG	SB29A1-4	2.67	4.67
RSR Inorganics	Cyanide	4-15	139	5	4%	0.55		3.93		MG/KG	SP-99-20	5	7
RSR Inorganics	Cyanide, Reactive	0-2	13	3	23%	0.495		11.2		MG/KG	SP-99-19	0	2
RSR Inorganics	Cyanide, Reactive	2-4	4	1	25%	0.416		0.416		MG/KG	SP-99-05	0	4
RSR Inorganics	Cyanide, Reactive	4-15	20	2	10%	1.43		3.93		MG/KG	SP-99-20	5	7
RSR Inorganics	Hexavalent Chromium	0-2	18	14	78%	0.534	J	640	J	MG/KG	SP-99-11	0	2
RSR Inorganics	Hexavalent Chromium	2-4	4	3	75%	8.29	J	39.8		MG/KG	SP-99-05	0	4
RSR Inorganics	Hexavalent Chromium	4-15	32	25	78%	0.582	J	513	J	MG/KG	SP-99-11	6	8
RSR Inorganics	Lead	0-2	202	202	100%	2.84		7870		MG/KG	SB09A1-4	0.67	2.67
RSR Inorganics	Lead	2-4	138	137	99%	1.78		19700		MG/KG	BR-3	3	5
RSR Inorganics	Lead	4-15	124	124	100%	0.27		326		MG/KG	SB13D1-1	5	7
RSR Inorganics	Mercury	0-2	190	79	42%	0.018		6.5	J	MG/KG	HA-99-07	0	1
RSR Inorganics	Mercury	2-4	126	55	44%	0.01		4.9		MG/KG	DB-99-01	2	4
RSR Inorganics	Mercury	4-15	120	31	26%	0.011		0.856		MG/KG	SB28A2-1	5.25	7.25
RSR Inorganics	Nickel	0-2	208	207	100%	3.36		801		MG/KG	HA-99-07	0	1
RSR Inorganics	Nickel	2-4	138	138	100%	3.15		8052		MG/KG	SB16A1-2	2.5	4.5
RSR Inorganics	Nickel	4-15	123	117	95%	2.43	J	47.6		MG/KG	SB17A2-4	5.17	7.17
RSR Inorganics	Selenium	0-2	183	7	4%	0.21		1.12		MG/KG	SB24A1-1	0.5	2.5

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Selenium	2-4	115	11	10%	0.18		1.51		MG/KG	SB09B3-1	2.75	4.75
RSR Inorganics	Selenium	4-15	119	4	3%	0.31		0.44		MG/KG	DB-99-04	9	11
RSR Inorganics	Silver	0-2	182	15	8%	0.38		9.9	J	MG/KG	HA-99-07	0	1
RSR Inorganics	Silver	2-4	115	5	4%	0.39		5.61		MG/KG	SB09C2-1	2.83	4.83
RSR Inorganics	Silver	4-15	119	7	6%	0.081		3.07		MG/KG	SB05A2	4.33	6.33
RSR Inorganics	Thallium	0-2	183	13	7%	0.593	J	2		MG/KG	DB-99-14	0	2
RSR Inorganics	Thallium	2-4	115	11	10%	0.9		2.5		MG/KG	DB-99-11	2	4
RSR Inorganics	Thallium	4-15	119	16	13%	0.53		2.3		MG/KG	DB-99-15	8	10
RSR Inorganics	Vanadium	0-2	202	202	100%	5.39		657		MG/KG	SB08C4-1	0.5	2.5
RSR Inorganics	Vanadium	2-4	134	134	100%	3.45		66.6		MG/KG	WC-6S	2.5	4.5
RSR Inorganics	Vanadium	4-15	122	122	100%	4.13		205		MG/KG	DB-99-07	8	10
RSR Inorganics	Zinc	0-2	202	202	100%	13.4		8580		MG/KG	SB13D1-1	0.5	2.5
RSR Inorganics	Zinc	2-4	137	137	100%	9.52		19100		MG/KG	BR-3	3	5
RSR Inorganics	Zinc	4-15	124	124	100%	7.88		867		MG/KG	SB13D1-1	5	7
SVOC	1,2-Dichlorobenzene	2-4	117	5	4%	0.026	J	0.99	J	MG/KG	WC-5S	2.8	4.8
SVOC	1,2-Dichlorobenzene	4-15	122	1	1%	0.67	J	0.67	J	MG/KG	DB-99-12	9	11
SVOC	1,4-Dichlorobenzene	2-4	116	2	2%	0.014	J	0.54	J	MG/KG	WC-9S	2	4
SVOC	2,4,5-Trichlorophenol	2-4	116	1	1%	0.56	J	0.56	J	MG/KG	WC-9S	2	4
SVOC	2,4,6-Trichlorophenol	2-4	116	1	1%	0.53	J	0.53	J	MG/KG	WC-9S	2	4
SVOC	2,4-Dichlorophenol	2-4	116	1	1%	0.55	J	0.55	J	MG/KG	WC-9S	2	4
SVOC	2,4-Dimethylphenol	0-2	190	2	1%	0.011	J	0.016	J	MG/KG	SB08K1-2	1	3
SVOC	2,4-Dimethylphenol	2-4	116	1	1%	0.46	J	0.46	J	MG/KG	WC-9S	2	4
SVOC	2,4-Dinitrotoluene	2-4	117	2	2%	0.003	J	0.66	J	MG/KG	WC-9S	2	4
SVOC	2,4-Dinitrotoluene	4-15	122	1	1%	0.0685	J	0.0685	J	MG/KG	SB22A1-2	4	6
SVOC	2,6-Dinitrotoluene	2-4	116	1	1%	0.66	J	0.66	J	MG/KG	WC-9S	2	4
SVOC	2-Chloronaphthalene	2-4	116	1	1%	0.71		0.71		MG/KG	WC-9S	2	4
SVOC	2-chlorophenol	2-4	116	1	1%	0.54	J	0.54	J	MG/KG	WC-9S	2	4
SVOC	2-Methylphenol	0-2	190	1	1%	0.007	J	0.007	J	MG/KG	SB12B3-2	0.5	2.5
SVOC	2-Methylphenol	2-4	116	1	1%	0.51	J	0.51	J	MG/KG	WC-9S	2	4
SVOC	2-Nitroaniline	2-4	116	1	1%	0.65	J	0.65	J	MG/KG	WC-9S	2	4
SVOC	2-Nitrophenol	2-4	116	1	1%	0.55	J	0.55	J	MG/KG	WC-9S	2	4
SVOC	3,3'-Dichlorobenzidine	2-4	116	1	1%	0.18		0.18		MG/KG	WC-9S	2	4

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
SVOC	4,6-Dinitro-2-cresol	2-4	116	1	1%	0.25	J	0.25	J	MG/KG	WC-9S	2	4
SVOC	4-Chloro-3-cresol	0-2	190	1	1%	0.01	J	0.01	J	MG/KG	SB29A1-4	0.67	2.67
SVOC	4-Chloro-3-cresol	2-4	116	1	1%	0.54	J	0.54	J	MG/KG	WC-9S	2	4
SVOC	4-methylphenol	0-2	184	4	2%	0.014	J	0.063	J	MG/KG	SB08K1-2	1	3
SVOC	4-methylphenol	2-4	106	5	5%	0.023	J	0.57	J	MG/KG	WC-9S	2	4
SVOC	4-methylphenol	4-15	104	1	1%	0.43		0.43		MG/KG	SB17A2-2	4.67	6.67
SVOC	4-Nitroaniline	2-4	116	1	1%	0.47	J	0.47	J	MG/KG	WC-9S	2	4
SVOC	4-Nitroaniline	4-15	122	1	1%	0.109		0.109		MG/KG	SB22A1-2	4	6
SVOC	Benzoic acid	0-2	49	7	14%	0.007	J	0.17	J	MG/KG	SB08A-3	0.67	2.67
SVOC	Benzoic acid	2-4	35	4	11%	0.035	J	0.29	J	MG/KG	WC-9S	2	4
SVOC	Benzoic acid	4-15	27	1	4%	0.049	J	0.049	J	MG/KG	SB09B2-1	4.58	6.58
SVOC	bis(2-chloroethoxy) Methane	2-4	116	1	1%	0.56	J	0.56	J	MG/KG	WC-9S	2	4
SVOC	Bis(2-ethylhexyl) phthalate	0-2	194	14	7%	0.055	J	96		MG/KG	HA-99-07	0	1
SVOC	Bis(2-ethylhexyl) phthalate	2-4	117	6	5%	0.034	JB	2.8		MG/KG	WC-9S	2	4
SVOC	Bis(2-ethylhexyl) phthalate	4-15	123	12	10%	0.064	JB	11		MG/KG	WC-9S	4	6
SVOC	Butylbenzyl phthalate	0-2	194	4	2%	0.001	J	0.26	J	MG/KG	WC-8S	0.5	2.5
SVOC	Butylbenzyl phthalate	2-4	120	6	5%	0.059	J	170		MG/KG	WC-10S	2.5	4.5
SVOC	Butylbenzyl phthalate	4-15	122	5	4%	0.002	J	0.18	J	MG/KG	SB23A1-3	4	6
SVOC	Carbazole	0-2	191	26	14%	0.005	J	7.1		MG/KG	SB22A1-2	0	2
SVOC	Carbazole	2-4	115	5	4%	0.004	J	0.21	J	MG/KG	SB09B3-1	2.75	4.75
SVOC	Carbazole	4-15	122	5	4%	0.007	J	0.99		MG/KG	SB29A1-3	4.5	6.5
SVOC	Dibenzofuran	0-2	199	28	14%	0.005	J	8.7		MG/KG	SB22A1-2	0	2
SVOC	Dibenzofuran	2-4	120	9	8%	0.006	J	0.79	J	MG/KG	WC-9S	2	4
SVOC	Dibenzofuran	4-15	123	7	6%	0.002	J	1.11		MG/KG	SB23A1-3	4	6
SVOC	Diethyl phthalate	0-2	194	14	7%	0.005	JB	0.457		MG/KG	SB19A1-1	0.5	2.5
SVOC	Diethyl phthalate	2-4	119	8	7%	0.005	JB	0.84	J	MG/KG	WC-9S	2	4
SVOC	Diethyl phthalate	4-15	122	3	2%	0.007	JB	0.011	J	MG/KG	SB08A-1	4.58	6.58
SVOC	Dimethyl phthalate	0-2	191	2	1%	0.005	J	0.047	J	MG/KG	HA-99-01	0	1
SVOC	Dimethyl phthalate	2-4	116	2	2%	0.006	J	0.84	J	MG/KG	WC-9S	2	4
SVOC	Di-n-butyl phthalate	0-2	205	24	12%	0.013	JB	2.5		MG/KG	WC-7S	0.5	2.5
SVOC	Di-n-butyl phthalate	2-4	129	22	17%	0.014	JB	2.8		MG/KG	WC-7S	2.5	4.5
SVOC	Di-n-butyl phthalate	4-15	123	20	16%	0.019	JB	1.5		MG/KG	DB-99-06	9	11

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
SVOC	Di-n-octyl phthalate	0-2	194	6	3%	0.006	JB	0.49	J	MG/KG	SB22A1-3	0	2
SVOC	Di-n-octyl phthalate	2-4	121	8	7%	0.006	J	1.3	J	MG/KG	WC-10S	2.5	4.5
SVOC	Di-n-octyl phthalate	4-15	122	3	2%	0.007	JB	0.451		MG/KG	SB22A1-2	4	6
SVOC	Hexachlorobenzene	2-4	116	1	1%	0.77		0.77		MG/KG	WC-9S	2	4
SVOC	Hexachlorobutadiene	2-4	116	1	1%	0.67		0.67		MG/KG	WC-9S	2	4
SVOC	Hexachloroethane	2-4	116	1	1%	0.53	J	0.53	J	MG/KG	WC-9S	2	4
SVOC	Isophorone	2-4	116	1	1%	0.67		0.67		MG/KG	WC-9S	2	4
SVOC	Nitrobenzene	2-4	116	1	1%	0.6		0.6		MG/KG	WC-9S	2	4
SVOC	N-Nitrosodi-n-propylamine	2-4	116	1	1%	0.56		0.56		MG/KG	WC-9S	2	4
SVOC	N-Nitrosodi-n-propylamine	4-15	122	1	1%	0.214		0.214		MG/KG	SB22A1-2	4	6
SVOC	N-Nitrosodiphenylamine	2-4	118	3	3%	0.039	J	0.26	J	MG/KG	WC-2D	2.5	4.5
SVOC	N-Nitrosodiphenylamine	4-15	123	1	1%	1.3		1.3		MG/KG	BR-7	4.5	6.5
SVOC	Pentachlorophenol	0-2	190	2	1%	0.25	J	0.47	J	MG/KG	SB08A-1	0.58	2.58
SVOC	Pentachlorophenol	2-4	115	1	1%	0.23	J	0.23	J	MG/KG	SB08A-2	2.58	4.58
SVOC	Phenol	0-2	190	7	4%	0.004	J	0.027	J	MG/KG	SB08K1-2	1	3
SVOC	Phenol	2-4	116	3	3%	0.008	J	0.53	J	MG/KG	WC-9S	2	4
SVOC	Tetrachloronaphthalene Isomer-	0-2	1	1	100%	140	J	140	J	MG/KG	HA-99-07	0	1
TPH	TPHC	0-2	63	43	68%	11.1		10400		MG/KG	SB27E1-3	0.5	1.42
TPH	TPHC	2-4	4	2	50%	26		2080		MG/KG	SB09A1-1	0.5	4.5
VOC	2-Butanone	0-2	186	42	23%	0.001	J	2.4		MG/KG	SB31A2-2	0.58	2.58
VOC	2-Butanone	2-4	115	26	23%	0.002	J	0.33	J	MG/KG	DB-99-04	2	4
VOC	2-Butanone	4-15	122	22	18%	0.003	J	0.79	J	MG/KG	WC-2D	4.5	6.5
VOC	Acetone	0-2	190	42	22%	0.01		26	EB	MG/KG	SB27E11-2	0.5	2.5
VOC	Acetone	2-4	116	21	18%	0.008	J	0.92	J	MG/KG	SB24B1-1	2.33	4.33
VOC	Acetone	4-15	122	18	15%	0.008	JB	2.1	B	MG/KG	SB27E10-1	4.5	6.5
VOC	Bromomethane	0-2	178	3	2%	0.005	J	0.11	J	MG/KG	SB12B3-2	0.5	2.5
VOC	Bromomethane	4-15	116	1	1%	0.48		0.48		MG/KG	DB-99-18	11	13
VOC	Carbon disulfide	0-2	185	27	15%	0.0003	J	0.009		MG/KG	SB03A1-1	0.5	2.5
VOC	Carbon disulfide	2-4	114	18	16%	0.0002	J	0.032		MG/KG	SB06A2-1	2.17	4.17
VOC	Carbon disulfide	4-15	121	27	22%	0.0005	J	0.006		MG/KG	SB05A1-1	4.17	6.17
VOC	Methyl Isobutyl Ketone / 4-methyl-2-pentanone	0-2	185	63	34%	0.0007	J	0.19	J	MG/KG	SB08A-2	0.58	2.58
VOC	Methyl Isobutyl Ketone / 4-methyl-2-pentanone	2-4	115	30	26%	0.001	J	0.005	J	MG/KG	SB16A1-1	2.5	4.5

TABLE 8-1
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES (TOTAL)

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STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
VOC	Methyl Isobutyl Ketone / 4-methyl-2-pentanone	4-15	121	52	43%	0.001	J	0.28	J	MG/KG	SB31A1-2	4.67	6.67
VOC	Methyl n-butyl ketone	0-2	185	5	3%	0.002	J	0.008	J	MG/KG	SB27E1-1	0	2
VOC	Methyl n-butyl ketone	4-15	121	5	4%	0.001	J	8.4	J	MG/KG	SB31A1-2	4.67	6.67
VOC	Styrene	0-2	185	2	1%	0.003	J	0.86	J	MG/KG	SB09A1-4	0.67	2.67
VOC	Styrene	2-4	114	2	2%	0.26	J	0.58	J	MG/KG	SB09A1-3	2.67	4.67
VOC	Styrene	4-15	121	1	1%	0.0003	J	0.0003	J	MG/KG	SB24C1-1	3.5	5.5
VOC	Vinyl Acetate	2-4	104	2	2%	0.002	J	0.008	J	MG/KG	SB24A2-1	3	5

Notes:

J = estimated value
E = exceeds calibration range
D = dilution
B = detected in blank
N = tentatively identified compound
MG/KG = milligrams per kilogram
BGS = below ground surface

VOC = volatile organic compound
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbon
PAHs = polynuclear aromatic hydrocarbons
PCBs = polychlorinated biphenyls
RSR = Connecticut Remediation Standard Regulation
BTEX = benzene, toluene, ethylbenzene, xylenes
cVOC = chlorinated volatile organic compound

Prepared by: RTB
Checked by: DRP

TABLE 8-2
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES BY SPLP METHOD

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
BTEX	Benzene	0-2	17	2	12%	0.001	J	0.003	J	MG/L	EBS01-1	1	3
BTEX	Benzene	2-4	9	4	44%	0.004	J	0.013	J	MG/L	SB09A1-4	2.5	4.5
BTEX	Benzene	4-15	13	1	8%	0.003	J	0.003	J	MG/L	EBS12-2	4	6
BTEX	Ethylbenzene	0-2	17	5	29%	0.001	J	0.071		MG/L	SB09A1-3	0.5	2.5
BTEX	Ethylbenzene	2-4	9	3	33%	0.056	J	0.12		MG/L	SB09C1-1	3	5
BTEX	Ethylbenzene	4-15	13	4	31%	0.005	J	0.055		MG/L	EBS12-1	4	6
BTEX	Toluene	0-2	17	7	41%	0.001	J	0.015		MG/L	EBS01-1	1	3
BTEX	Toluene	2-4	9	5	56%	0.001	J	0.6		MG/L	SB09C2-1	3	5
BTEX	Toluene	4-15	13	9	69%	0.001	J	0.087		MG/L	EBS12-2	4	6
BTEX	Xylenes	0-2	17	7	41%	0.004	J	0.97		MG/L	SB09A1-3	0.5	2.5
BTEX	Xylenes	2-4	9	4	44%	0.02	J	0.83		MG/L	SB09C1-1	3	5
BTEX	Xylenes	4-15	13	6	46%	0.001	J	0.29		MG/L	EBS12-1	4	6
cVOC	1,1,1-Trichloroethane	0-2	17	4	24%	0.001	J	0.007	J	MG/L	SB09B8-1	0.5	2.5
cVOC	1,1,1-Trichloroethane	2-4	9	1	11%	0.002	J	0.002	J	MG/L	SB09B8-1	2.5	4.5
cVOC	1,1,1-Trichloroethane	4-15	13	1	8%	0.001	J	0.001	J	MG/L	EBS12-2	4	6
cVOC	1,1-Dichloroethane	0-2	17	5	29%	0.001	J	0.051		MG/L	EBS01-1	1	3
cVOC	1,1-Dichloroethane	2-4	9	4	44%	0.001	J	0.021	J	MG/L	SB09A1-4	2.5	4.5
cVOC	1,1-Dichloroethane	4-15	13	3	23%	0.003	J	0.009		MG/L	EBS12-2	4	6
cVOC	1,1-Dichloroethene	2-4	9	1	11%	0.011	J	0.011	J	MG/L	SB09A1-4	2.5	4.5
cVOC	1,2-Dichloroethane	4-15	13	2	15%	0.006		0.073	J	MG/L	SB13D1-3	4.5	6.5
cVOC	Chlorobenzene	2-4	9	2	22%	0.046	J	0.35		MG/L	SB09C2-1	3	5
cVOC	Chlorobenzene	4-15	13	1	8%	0.003	J	0.003	J	MG/L	SB06A3-1	4.5	6.5
cVOC	Chloroethane	0-2	17	3	18%	0.001	J	0.12		MG/L	EBS01-2	1	3
cVOC	Chloroethane	2-4	9	3	33%	0.021	J	0.082		MG/L	SB09C1-1	3	5
cVOC	Chloroethane	4-15	13	4	31%	0.002	J	0.31		MG/L	EBS12-2	4	6
cVOC	cis-1,2-Dichloroethene	0-2	17	11	65%	0.0008	J	0.18	J	MG/L	EBS01-1	1	3
cVOC	cis-1,2-Dichloroethene	2-4	9	7	78%	0.005	J	3.7	J	MG/L	SB09A1-4	2.5	4.5
cVOC	cis-1,2-Dichloroethene	4-15	13	3	23%	0.007	J	0.044		MG/L	SB06A3-1	4.5	6.5
cVOC	Dichloromethane	0-2	17	12	71%	0.002	J	37		MG/L	EBS01-1	1	3
cVOC	Dichloromethane	2-4	9	6	67%	0.003	J	3		MG/L	SB24B1-1	2	4
cVOC	Dichloromethane	4-15	13	12	92%	0.002	J	5.1		MG/L	SB13D1-3	4.5	6.5
cVOC	Tetrachloroethene	0-2	17	2	12%	0.002	J	0.003	J	MG/L	SB09A2-1	1	3
cVOC	Tetrachloroethene	2-4	9	4	44%	0.001	J	0.05		MG/L	SB09A1-1	2.5	4.5

TABLE 8-2
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES BY SPLP METHOD

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CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
cVOC	Tetrachloroethene	4-15	13	2	15%	0.001	J	0.002	J	MG/L	EBS01-1	4	6
cVOC	trans-1,2-Dichloroethene	0-2	17	2	12%	0.01		0.026		MG/L	EBS01-1	1	3
cVOC	trans-1,2-Dichloroethene	2-4	9	3	33%	0.004	J	0.049	J	MG/L	SB09A1-4	2.5	4.5
cVOC	trans-1,2-Dichloroethene	4-15	13	2	15%	0.003	J	0.009		MG/L	EBS12-2	4	6
cVOC	Trichloroethene	0-2	17	7	41%	0.002	J	0.31		MG/L	SB09B8-1	0.5	2.5
cVOC	Trichloroethene	2-4	9	2	22%	0.048		0.14		MG/L	SB09B8-1	2.5	4.5
cVOC	Trichloroethene	4-15	13	3	23%	0.001	J	0.006	J	MG/L	EBS12-1	4	6
cVOC	Vinyl Chloride	0-2	17	1	6%	0.005	J	0.005	J	MG/L	EBS01-1	1	3
cVOC	Vinyl Chloride	2-4	9	4	44%	0.004	J	0.27	J	MG/L	SB09A1-4	2.5	4.5
cVOC	Vinyl Chloride	4-15	13	2	15%	0.008	J	0.019		MG/L	EBS12-2	4	6
Inorganics	Aluminum	0-2	10	10	100%	0.175		3.47		MG/L	SB09A1-4	0.5	2.5
Inorganics	Aluminum	2-4	8	6	75%	0.0504	J	8.02		MG/L	SB09B4-1	2.5	4.5
Inorganics	Aluminum	4-15	6	4	67%	0.207	J	1.54	J	MG/L	SB13G1-1	5	7
Inorganics	Calcium	0-2	10	10	100%	0.446	J	96	J	MG/L	SB17A2-6	1	3
Inorganics	Calcium	2-4	8	8	100%	2.4200001		139		MG/L	SB09B4-1	2.5	4.5
Inorganics	Calcium	4-15	6	6	100%	0.405	J	40.7	J	MG/L	SB23A1-3	4	6
Inorganics	Cobalt	0-2	10	6	60%	0.00073	J	0.0011	J	MG/L	SB12D1-1	0.5	2.5
Inorganics	Cobalt	2-4	8	3	38%	0.00071	J	0.0085		MG/L	SB27E1-1	2.5	4.5
Inorganics	Cobalt	4-15	6	3	50%	0.001	J	0.0029	J	MG/L	EBS14-1	4	6
Inorganics	Iron	0-2	10	6	60%	0.0597	J	1.18	J	MG/L	EBS14-1	1	3
Inorganics	Iron	2-4	8	4	50%	0.063	J	0.645		MG/L	SB29A1-4	2	4
Inorganics	Iron	4-15	6	5	83%	0.112		1.75		MG/L	SB01A1-1	4.5	6.5
Inorganics	Magnesium	0-2	10	3	30%	0.67	J	4.57		MG/L	SB12D1-1	0.5	2.5
Inorganics	Magnesium	2-4	8	4	50%	0.378	J	0.847	J	MG/L	SB12B3-2	2.5	4.5
Inorganics	Manganese	2-4	9	7	78%	0.0079	J	233		MG/L	SP-99-09	0	4
Inorganics	Manganese	0-2	10	7	70%	0.003	J	0.058		MG/L	SB12D1-1	0.5	2.5
Inorganics	Manganese	4-15	6	6	100%	0.0043	J	0.0752		MG/L	EBS14-1	4	6
Inorganics	Potassium	0-2	10	10	100%	0.696	J	16.4		MG/L	SB08C4-1	0.5	2.5
Inorganics	Potassium	2-4	8	7	88%	0.661	J	11.6		MG/L	SB27E1-1	2.5	4.5
Inorganics	Potassium	4-15	6	5	83%	0.181	J	1.93		MG/L	SB23A1-3	4	6
Inorganics	Sodium	0-2	10	10	100%	2.55		13.3		MG/L	SB12D1-1	0.5	2.5
Inorganics	Sodium	2-4	8	7	88%	1	J	10.3		MG/L	SB27E1-1	2.5	4.5
Inorganics	Sodium	4-15	6	5	83%	1.85	J	18.8		MG/L	SB23A1-3	4	6

TABLE 8-2
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES BY SPLP METHOD

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CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
PAH	2-Methylnaphthalene	0-2	21	5	24%	0.002	J	0.02		MG/L	EBS01-1	1	3
PAH	2-Methylnaphthalene	4-15	12	5	42%	0.006	NJ	0.04		MG/L	EBS12-2	4	6
PAH	9H-Fluorene	0-2	21	6	29%	0.0009	J	0.005	J	MG/L	EBS01-2	1	3
PAH	9H-Fluorene	4-15	12	5	42%	0.001	J	0.006	J	MG/L	EBS01-2	4	6
PAH	Acenaphthene	0-2	21	5	24%	0.0007	J	0.01	J	MG/L	EBS01-2	1	3
PAH	Acenaphthene	4-15	12	6	50%	0.0008	J	0.013		MG/L	EBS01-2	4	6
PAH	Acenaphthylene	0-2	21	1	5%	0.001	J	0.001	J	MG/L	SB22A1-2	0	2
PAH	Acenaphthylene	4-15	12	1	8%	0.0009	J	0.0009	J	MG/L	SB23A1-3	4	6
PAH	Anthracene	0-2	21	1	5%	0.0007	J	0.0007	J	MG/L	SB22A1-1	0	2
PAH	Anthracene	4-15	12	2	17%	0.0008	J	0.001	J	MG/L	SB23A1-3	4	6
PAH	Fluoranthene	0-2	21	2	10%	0.001	J	0.001	J	MG/L	SB22A1-2	0	2
PAH	Fluoranthene	4-15	12	2	17%	0.001	J	0.002	J	MG/L	SB29A1-3	4.5	6.5
PAH	Naphthalene	0-2	21	4	19%	0.007	J	0.075		MG/L	EBS01-2	1	3
PAH	Naphthalene	4-15	12	5	42%	0.001	J	0.096		MG/L	EBS12-2	4	6
PAH	Phenanthrene	0-2	21	6	29%	0.002	J	0.005	J	MG/L	SB22A1-2	0	2
PAH	Phenanthrene	4-15	12	6	50%	0.001	J	0.008	J	MG/L	SB23A1-3	4	6
PAH	Pyrene	0-2	21	2	10%	0.0008	J	0.0009	J	MG/L	SB22A1-2	0	2
PAH	Pyrene	4-15	12	2	17%	0.001	J	0.001	J	MG/L	SB23A1-3	4	6
RSR Inorganics	Antimony	0-2	19	4	21%	0.0023	J	0.0084	J	MG/L	SB09B4-1	0.5	2.5
RSR Inorganics	Antimony	2-4	19	3	16%	0.0033	J	0.0073	J	MG/L	SB09B4-1	2.5	4.5
RSR Inorganics	Antimony	4-15	9	2	22%	0.0038	J	0.0041	J	MG/L	SB01A1-1	4.5	6.5
RSR Inorganics	Arsenic	0-2	23	5	22%	0.0025	J	0.035		MG/L	SB09B4-1	0.5	2.5
RSR Inorganics	Arsenic	2-4	20	8	40%	0.002	J	0.0048	J	MG/L	DB-99-04	2	4
RSR Inorganics	Arsenic	4-15	9	4	44%	0.0034	J	0.0179		MG/L	SB01A1-1	4.5	6.5
RSR Inorganics	Barium	0-2	19	16	84%	0.0077	B	0.219		MG/L	SB12A1-1	1	3
RSR Inorganics	Barium	2-4	19	8	42%	0.0053	J	0.034		MG/L	SB09B4-1	2.5	4.5
RSR Inorganics	Barium	4-15	9	9	100%	0.0039	J	0.143	J	MG/L	SB23A1-3	4	6
RSR Inorganics	Beryllium	0-2	20	2	10%	0.002	J	0.0023	J	MG/L	DB-99-15	0	2
RSR Inorganics	Beryllium	2-4	19	2	11%	0.0026	J	0.0027	J	MG/L	DB-99-12	2	4
RSR Inorganics	Beryllium	4-15	9	3	33%	0.0024	J	0.0027	J	MG/L	DB-99-13	9	11
RSR Inorganics	Cadmium	0-2	33	8	24%	0.0011	J	0.112	J	MG/L	SB22A1-1	0.5	2.5
RSR Inorganics	Cadmium	2-4	35	3	9%	0.00044	J	0.0013	J	MG/L	SB09A1-1	2.5	4.5
RSR Inorganics	Chromium	0-2	49	28	57%	0.00095	B	25.5		MG/L	SP-99-11	0	2

TABLE 8-2
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES BY SPLP METHOD

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CONTAMINANT CLASS	ANALYTE	DEPTH INTERVAL (FEET BGS)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Chromium	2-4	38	8	21%	0.00094	J	1.31		MG/L	SP-99-05	0	4
RSR Inorganics	Chromium	4-15	26	16	62%	0.00041	J	2.09		MG/L	SP-99-14	5	7
RSR Inorganics	Copper	0-2	19	12	63%	0.0025	B	0.0194	J	MG/L	EBS11-1	1	3
RSR Inorganics	Copper	2-4	19	10	53%	0.0017	J	0.0525	J	MG/L	SB27E1-1	2.5	4.5
RSR Inorganics	Copper	4-15	9	2	22%	0.0016	J	0.0356	J	MG/L	SB23A1-3	4	6
RSR Inorganics	Lead	0-2	33	6	18%	0.0021	B	0.0081	J	MG/L	DB-99-05	0	2
RSR Inorganics	Lead	2-4	35	11	31%	0.0013	J	0.0055	J	MG/L	DB-99-01	2	4
RSR Inorganics	Lead	4-15	13	4	31%	0.0011	J	0.0093		MG/L	SB23A1-3	4	6
RSR Inorganics	Mercury	0-2	18	1	6%	0.00022		0.00022		MG/L	SB08C4-1	0.5	2.5
RSR Inorganics	Mercury	2-4	19	3	16%	8.2E-05	J	0.0023		MG/L	DB-99-01	2	4
RSR Inorganics	Mercury	4-15	9	3	33%	0.00011	J	0.00034	J	MG/L	SB01A1-2	4.5	6.5
RSR Inorganics	Nickel	0-2	33	12	36%	0.00094	J	0.0596		MG/L	HA-99-02	0	1
RSR Inorganics	Nickel	2-4	35	4	11%	0.0023	J	0.16		MG/L	DB-99-12	2	4
RSR Inorganics	Nickel	4-15	13	1	8%	0.0032	J	0.0032	J	MG/L	SB01A1-1	4.5	6.5
RSR Inorganics	Selenium	0-2	19	3	16%	0.0016	J	0.0026	J	MG/L	DB-99-05	0	2
RSR Inorganics	Selenium	2-4	19	1	5%	0.0017	J	0.0017	J	MG/L	DB-99-12	2	4
RSR Inorganics	Selenium	4-15	9	2	22%	0.0024	J	0.0034	J	MG/L	DB-99-13	9	11
RSR Inorganics	Vanadium	0-2	33	17	52%	0.00066	J	0.203		MG/L	SB09A1-4	0.5	2.5
RSR Inorganics	Vanadium	2-4	35	14	40%	0.001	J	0.023	J	MG/L	DB-99-11	2	4
RSR Inorganics	Vanadium	4-15	13	7	54%	0.0046		0.0431		MG/L	SB01A1-1	4.5	6.5
RSR Inorganics	Zinc	0-2	19	13	68%	0.0024	J	1.77		MG/L	HA-99-03	0	1
RSR Inorganics	Zinc	2-4	19	8	42%	0.0022	J	0.0508		MG/L	SB09A1-1	2.5	4.5
RSR Inorganics	Zinc	4-15	9	6	67%	0.0026	J	0.0888		MG/L	SB23A1-3	4	6
SVOC	1,2-Dichlorobenzene	0-2	21	2	10%	0.005	J	0.02		MG/L	EBS01-1	1	3
SVOC	1,2-Dichlorobenzene	4-15	12	4	33%	0.004	J	0.028		MG/L	EBS12-2	4	6
SVOC	1,4-Dichlorobenzene	0-2	21	1	5%	0.002	J	0.002	J	MG/L	EBS01-1	1	3
SVOC	1,4-Dichlorobenzene	4-15	12	4	33%	0.001	J	0.005	J	MG/L	SB09B3-1	5	7
SVOC	2,4-Dimethylphenol	0-2	21	1	5%	0.002	J	0.002	J	MG/L	EBS12-2	1	3
SVOC	2,4-Dimethylphenol	4-15	12	1	8%	0.003	J	0.003	J	MG/L	EBS12-2	4	6
SVOC	2-Methylphenol	0-2	21	1	5%	0.001	J	0.001	J	MG/L	EBS12-1	1	3
SVOC	2-Methylphenol	4-15	12	1	8%	0.002	J	0.002	J	MG/L	EBS12-2	4	6
SVOC	2-Nitrophenol	0-2	21	1	5%	0.008	J	0.008	J	MG/L	SB22A1-2	0	2
SVOC	2-Nitrophenol	4-15	12	1	8%	0.017		0.017		MG/L	EBS12-1	4	6

TABLE 8-2
SITE-WIDE SOIL CONTAMINATION
SUMMARY OF DETECTED ANALYTES BY SPLP METHOD

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SVOC	4-methylphenol	0-2	21	3	14%	0.003	J	0.008	J	MG/L	EBS12-2	1	3
SVOC	4-methylphenol	4-15	12	1	8%	0.016		0.016		MG/L	EBS12-2	4	6
SVOC	4-Nitrophenol	4-15	12	1	8%	0.014	J	0.014	J	MG/L	EBS12-1	4	6
SVOC	Bis(2-ethylhexyl) phthalate	0-2	21	2	10%	0.0009	J	0.001	J	MG/L	EBS73-1	1	3
SVOC	Bis(2-ethylhexyl) phthalate	4-15	12	1	8%	0.2	J	0.2	J	MG/L	EBS14-1	4	6
SVOC	Butylbenzyl phthalate	0-2	21	1	5%	0.0005	J	0.0005	J	MG/L	EBS01-2	1	3
SVOC	Butylbenzyl phthalate	4-15	12	1	8%	0.0006	J	0.0006	J	MG/L	EBS12-1	4	6
SVOC	Carbazole	0-2	17	5	29%	0.001	J	0.011		MG/L	EBS01-2	1	3
SVOC	Carbazole	4-15	12	4	33%	0.001	J	0.013		MG/L	EBS01-2	4	6
SVOC	Dibenzofuran	0-2	21	5	24%	0.001	J	0.008	J	MG/L	EBS01-2	1	3
SVOC	Dibenzofuran	4-15	12	4	33%	0.002	J	0.011		MG/L	EBS01-2	4	6
SVOC	Diethyl phthalate	4-15	12	1	8%	0.0008	J	0.0008	J	MG/L	EBS43-1	4	6
SVOC	Pentachlorophenol	4-15	12	1	8%	0.004	J	0.004	J	MG/L	EBS12-2	4	6
SVOC	Phenol	4-15	12	2	17%	0.002	J	0.003	J	MG/L	EBS12-1	4	6
VOC	2-Butanone	4-15	13	1	8%	0.003	J	0.003	J	MG/L	EBS12-2	4	6
VOC	Acetone	0-2	17	1	6%	0.052		0.052		MG/L	EBS01-1	1	3
VOC	Carbon disulfide	0-2	17	1	6%	0.004	J	0.004	J	MG/L	EBS01-1	1	3

Notes:

J = estimated value
B = detected in blank
N = tentatively identified comp
MG/L = milligrams per liter
BGS = below ground surface

VOC = volatile organic compound
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbon
PAHs = polynuclear aromatic hydrocarbons
PCBs = polychlorinated biphenyls
RSR = Connecticut Remediation Standard Regulation
BTEX = benzene, toluene, ethylbenzene, xylenes
cVOC = chlorinated volatile organic compound

Prepared by: RTB
Checked by: DRP

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
BTEX	Benzene	SB09C2-1	0.24	J	MG/KG	0.2	GB PMC	2.83	4.83		X	
BTEX	Benzene	SB09A2-1	0.38	J	MG/KG	0.2	GB PMC	5	7			X
BTEX	Benzene	SB27E10-1	0.45	J	MG/KG	0.2	GB PMC	4.5	6.5			X
BTEX	Benzene	SB09A1-4	0.74	J	MG/KG	0.2	GB PMC	0.67	2.67	X		
BTEX	Benzene	SB09A1-3	2.3	J	MG/KG	0.2	GB PMC	2.67	4.67		X	
BTEX	Benzene	HA-99-07	3.8	J	MG/KG	0.2	GB PMC	0	1	X		
BTEX	Ethylbenzene	SB09C2-1	11		MG/KG	10.1	GB PMC	2.83	4.83		X	
BTEX	Ethylbenzene	SB09A1-3	12		MG/KG	10.1	GB PMC	2.67	4.67		X	
BTEX	Toluene	HA-99-07	180	J	MG/KG	67	GB PMC	0	1	X		
BTEX	Xylenes	SB09A1-3	22		MG/KG	19.5	GB PMC	0.67	2.67	X		
BTEX	Xylenes	HA-99-07	26	J	MG/KG	19.5	GB PMC	0	1	X		
BTEX	Xylenes	SB09A1-4	27		MG/KG	19.5	GB PMC	2.67	4.67		X	
BTEX	Xylenes	SB09C1-1	60		MG/KG	19.5	GB PMC	3	5		X	
BTEX	Xylenes	SB09C2-1	64		MG/KG	19.5	GB PMC	2.83	4.83		X	
BTEX	Xylenes	SB09A1-3	76		MG/KG	19.5	GB PMC	2.67	4.67		X	
BTEX	Xylenes	SB09A2-1	78		MG/KG	19.5	GB PMC	5	7			X
BTEX	Xylenes	SB09A1-4	91	J	MG/KG	19.5	GB PMC	0.67	2.67	X		
cVOC	1,1,1-Trichloroethane	HA-99-07	340		MG/KG	40	GB PMC	0	1	X		
cVOC	1,1,2,2-Tetrachloroethane	SB31A1-1	0.14	J	MG/KG	0.1	GB PMC	4.67	6.67			X
cVOC	1,1,2,2-Tetrachloroethane	SB31A1-2	0.5	J	MG/KG	0.1	GB PMC	4.67	6.67			X
cVOC	1,1,2,2-Tetrachloroethane	SB24B1-1	0.59	J	MG/KG	0.1	GB PMC	2.33	4.33		X	
cVOC	1,1,2,2-Tetrachloroethane	SB13D1-3	21	J	MG/KG	0.1	GB PMC	4.5	6.5			X
cVOC	1,1,2,2-Tetrachloroethane	SB13D1-3	21	J	MG/KG	3.1	RES DEC	4.5	6.5			X
cVOC	1,1-Dichloroethane	HA-99-07	120	J	MG/KG	14	GB PMC	0	1	X		
cVOC	1,1-Dichloroethene	SB09A1-3	1.2	J	MG/KG	1	RES DEC	2.67	4.67		X	
cVOC	1,1-Dichloroethene	SB24B1-1	3		MG/KG	1	RES DEC	2.33	4.33		X	
cVOC	1,1-Dichloroethene	SB24B1-1	3		MG/KG	1.4	GB PMC	2.33	4.33		X	
cVOC	1,1-Dichloroethene	HA-99-07	12	J	MG/KG	1	RES DEC	0	1	X		
cVOC	1,1-Dichloroethene	HA-99-07	12	J	MG/KG	9.5	I/C DEC	0	1	X		
cVOC	1,1-Dichloroethene	HA-99-07	12	J	MG/KG	1.4	GB PMC	0	1	X		
cVOC	1,2-Dichloroethane	SB24B1-1	0.21	J	MG/KG	0.2	GB PMC	2.33	4.33		X	
cVOC	Carbon tetrachloride	SB12B3-2	2.8		MG/KG	1	GB PMC	0.5	2.5	X		
cVOC	cis-1,2-Dichloroethene	SB09A1-4	16		MG/KG	14	GB PMC	2.67	4.67		X	
cVOC	cis-1,2-Dichloroethene	SB09C1-1	20		MG/KG	14	GB PMC	3	5		X	
cVOC	cis-1,2-Dichloroethene	SB09A2-1	32		MG/KG	14	GB PMC	5	7			X
cVOC	cis-1,2-Dichloroethene	SB06A3-1	33		MG/KG	14	GB PMC	4.5	6.5			X
cVOC	cis-1,2-Dichloroethene	SB09A2-1	46		MG/KG	14	GB PMC	1	3	X		

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
cVOC	cis-1,2-Dichloroethene	SB09A1-3	86		MG/KG	14	GB PMC	2.67	4.67		X	
cVOC	cis-1,2-Dichloroethene	HA-99-07	3300		MG/KG	1000	I/C DEC	0	1	X		
cVOC	cis-1,2-Dichloroethene	HA-99-07	3300		MG/KG	500	RES DEC	0	1	X		
cVOC	cis-1,2-Dichloroethene	HA-99-07	3300		MG/KG	14	GB PMC	0	1	X		
cVOC	Dichloromethane	WC-5S	1.3		MG/KG	1	GB PMC	0.8	2.8	X		
cVOC	Dichloromethane	SB09A2-1	3	J	MG/KG	1	GB PMC	1	3	X		
cVOC	Dichloromethane	WC-5S	6.6		MG/KG	1	GB PMC	2.8	4.8		X	
cVOC	Tetrachloroethene	SB09A1-2	2.8		MG/KG	1	GB PMC	0.5	2.5	X		
cVOC	Tetrachloroethene	SB09A2-1	16		MG/KG	12	RES DEC	1	3	X		
cVOC	Tetrachloroethene	SB09A2-1	16		MG/KG	1	GB PMC	1	3	X		
cVOC	Tetrachloroethene	SB09A1-1	21		MG/KG	12	RES DEC	2.5	4.5		X	
cVOC	Tetrachloroethene	SB09A1-1	21		MG/KG	1	GB PMC	2.5	4.5		X	
cVOC	Tetrachloroethene	HA-99-07	1200		MG/KG	12	RES DEC	0	1	X		
cVOC	Tetrachloroethene	HA-99-07	1200		MG/KG	110	I/C DEC	0	1	X		
cVOC	Tetrachloroethene	HA-99-07	1200		MG/KG	1	GB PMC	0	1	X		
cVOC	Trichloroethene	BR-3	1.1		MG/KG	1	GB PMC	3	5		X	
cVOC	Trichloroethene	SB09A1-2	1.3	E	MG/KG	1	GB PMC	2.5	4.5		X	
cVOC	Trichloroethene	SB09A1-2	1.4		MG/KG	1	GB PMC	0.5	2.5	X		
cVOC	Trichloroethene	SB09B4-1	1.4		MG/KG	1	GB PMC	0.5	2.5	X		
cVOC	Trichloroethene	SB12B3-2	6.3		MG/KG	1	GB PMC	0.5	2.5	X		
cVOC	Trichloroethene	SB13D1-1	11		MG/KG	1	GB PMC	0.5	2.5	X		
cVOC	Trichloroethene	SB09A2-1	18		MG/KG	1	GB PMC	1	3	X		
cVOC	Trichloroethene	SB09A1-1	25		MG/KG	1	GB PMC	2.5	4.5		X	
cVOC	Trichloroethene	SB09B8-1	29		MG/KG	1	GB PMC	2.25	4.25		X	
cVOC	Trichloroethene	SB09B8-1	95		MG/KG	1	GB PMC	0.25	2.25	X		
cVOC	Trichloroethene	SB09B8-1	95		MG/KG	56	RES DEC	0.25	2.25	X		
cVOC	Trichloroethene	HA-99-07	560		MG/KG	520	I/C DEC	0	1	X		
cVOC	Trichloroethene	HA-99-07	560		MG/KG	1	GB PMC	0	1	X		
cVOC	Trichloroethene	HA-99-07	560		MG/KG	56	RES DEC	0	1	X		
cVOC	Vinyl Chloride	SB24B1-1	0.79	J	MG/KG	0.4	GB PMC	2.33	4.33		X	
cVOC	Vinyl Chloride	SB24B1-1	0.79	J	MG/KG	0.32	RES DEC	2.33	4.33		X	
cVOC	Vinyl Chloride	SB09A1-4	2	J	MG/KG	0.4	GB PMC	2.67	4.67		X	
cVOC	Vinyl Chloride	SB09A1-4	2	J	MG/KG	0.32	RES DEC	2.67	4.67		X	
cVOC	Vinyl Chloride	SB09A1-3	2.3		MG/KG	0.4	GB PMC	0.67	2.67	X		
cVOC	Vinyl Chloride	SB09A1-3	2.3		MG/KG	0.32	RES DEC	0.67	2.67	X		
cVOC	Vinyl Chloride	SB09A1-3	7.7		MG/KG	0.4	GB PMC	2.67	4.67		X	
cVOC	Vinyl Chloride	SB09A1-3	7.7		MG/KG	0.32	RES DEC	2.67	4.67		X	

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STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
cVOC	Vinyl Chloride	SB09A1-3	7.7		MG/KG	3	I/C DEC	2.67	4.67		X	
cVOC	Vinyl Chloride	HA-99-07	36	J	MG/KG	0.4	GB PMC	0	1	X		
cVOC	Vinyl Chloride	HA-99-07	36	J	MG/KG	0.32	RES DEC	0	1	X		
cVOC	Vinyl Chloride	HA-99-07	36	J	MG/KG	3	I/C DEC	0	1	X		
PAH	2-Methylnaphthalene	SB22A1-2	16		MG/KG	9.8	GB PMC	0	2	X		
PAH	2-Methylnaphthalene	HA-99-07	25	J	MG/KG	9.8	GB PMC	0	1	X		
PAH	Benzo[a]anthracene	SB29A1-3	2		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB29A1-3	2		MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB29A1-3	2.7		MG/KG	1	GB PMC	0.58	2.58	X		
PAH	Benzo[a]anthracene	SB29A1-3	2.7		MG/KG	1	RES DEC	0.58	2.58	X		
PAH	Benzo[a]anthracene	SB29A1-2	2.8		MG/KG	1	GB PMC	0.83	2.83	X		
PAH	Benzo[a]anthracene	SB29A1-2	2.8		MG/KG	1	RES DEC	0.83	2.83	X		
PAH	Benzo[a]anthracene	SB15A1-1	4.2		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB15A1-1	4.2		MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB29A1-3	4.2		MG/KG	1	GB PMC	4.5	6.5			X
PAH	Benzo[a]anthracene	SB29A1-3	4.2		MG/KG	1	RES DEC	4.5	6.5			X
PAH	Benzo[a]anthracene	SB29A1-3	4.9		MG/KG	1	GB PMC	4.58	6.58			X
PAH	Benzo[a]anthracene	SB29A1-3	4.9		MG/KG	1	RES DEC	4.58	6.58			X
PAH	Benzo[a]anthracene	SB22A1-3	5.44	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB22A1-3	5.44	J	MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB22A1-1	7.8		MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[a]anthracene	SB22A1-1	7.8		MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[a]anthracene	BR-2	8.3		MG/KG	7.8	I/C DEC	1	3	X		
PAH	Benzo[a]anthracene	BR-2	8.3		MG/KG	1	GB PMC	1	3	X		
PAH	Benzo[a]anthracene	BR-2	8.3		MG/KG	1	RES DEC	1	3	X		
PAH	Benzo[a]anthracene	HA-99-03	13		MG/KG	7.8	I/C DEC	0	1	X		
PAH	Benzo[a]anthracene	HA-99-03	13		MG/KG	1	GB PMC	0	1	X		
PAH	Benzo[a]anthracene	HA-99-03	13		MG/KG	1	RES DEC	0	1	X		
PAH	Benzo[a]anthracene	SB09B3-1	20	D	MG/KG	7.8	I/C DEC	2.75	4.75		X	
PAH	Benzo[a]anthracene	SB09B3-1	20	D	MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Benzo[a]anthracene	SB09B3-1	20	D	MG/KG	1	RES DEC	2.75	4.75		X	
PAH	Benzo[a]anthracene	SB22A1-2	20.5	J	MG/KG	7.8	I/C DEC	0	2	X		
PAH	Benzo[a]anthracene	SB22A1-2	20.5	J	MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[a]anthracene	SB22A1-2	20.5	J	MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[a]anthracene	SB22A1-1	25	J	MG/KG	7.8	I/C DEC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB22A1-1	25	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]anthracene	SB22A1-1	25	J	MG/KG	1	RES DEC	0.5	2.5	X		

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STRATFORD ARMY ENGINE PLANT
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CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
PAH	Benzo[a]anthracene	SB22A1-2	39		MG/KG	7.8	I/C DEC	0	2	X		
PAH	Benzo[a]anthracene	SB22A1-2	39		MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[a]anthracene	SB22A1-2	39		MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[a]pyrene	SB29A1-3	1.4		MG/KG	1	I/C DEC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB29A1-3	1.4		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB29A1-3	1.4		MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB23A1-3	1.49	J	MG/KG	1	I/C DEC	4	6			X
PAH	Benzo[a]pyrene	SB23A1-3	1.49	J	MG/KG	1	GB PMC	4	6			X
PAH	Benzo[a]pyrene	SB23A1-3	1.49	J	MG/KG	1	RES DEC	4	6			X
PAH	Benzo[a]pyrene	SB29A1-3	2.3		MG/KG	1	I/C DEC	0.58	2.58	X		
PAH	Benzo[a]pyrene	SB29A1-3	2.3		MG/KG	1	GB PMC	0.58	2.58	X		
PAH	Benzo[a]pyrene	SB29A1-3	2.3		MG/KG	1	RES DEC	0.58	2.58	X		
PAH	Benzo[a]pyrene	SB29A1-2	2.6		MG/KG	1	I/C DEC	0.83	2.83	X		
PAH	Benzo[a]pyrene	SB29A1-2	2.6		MG/KG	1	GB PMC	0.83	2.83	X		
PAH	Benzo[a]pyrene	SB29A1-2	2.6		MG/KG	1	RES DEC	0.83	2.83	X		
PAH	Benzo[a]pyrene	SB29A1-3	2.9		MG/KG	1	I/C DEC	4.5	6.5			X
PAH	Benzo[a]pyrene	SB29A1-3	2.9		MG/KG	1	GB PMC	4.5	6.5			X
PAH	Benzo[a]pyrene	SB29A1-3	2.9		MG/KG	1	RES DEC	4.5	6.5			X
PAH	Benzo[a]pyrene	SB15A1-1	3.3		MG/KG	1	I/C DEC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB15A1-1	3.3		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB15A1-1	3.3		MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB29A1-3	3.6		MG/KG	1	I/C DEC	4.58	6.58			X
PAH	Benzo[a]pyrene	SB29A1-3	3.6		MG/KG	1	GB PMC	4.58	6.58			X
PAH	Benzo[a]pyrene	SB29A1-3	3.6		MG/KG	1	RES DEC	4.58	6.58			X
PAH	Benzo[a]pyrene	SB22A1-3	4.28	J	MG/KG	1	I/C DEC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB22A1-3	4.28	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB22A1-3	4.28	J	MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[a]pyrene	SB22A1-1	6.1		MG/KG	1	I/C DEC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-1	6.1		MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-1	6.1		MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[a]pyrene	BR-2	7.2		MG/KG	1	I/C DEC	1	3	X		
PAH	Benzo[a]pyrene	BR-2	7.2		MG/KG	1	GB PMC	1	3	X		
PAH	Benzo[a]pyrene	BR-2	7.2		MG/KG	1	RES DEC	1	3	X		
PAH	Benzo[a]pyrene	HA-99-03	13		MG/KG	1	I/C DEC	0	1	X		
PAH	Benzo[a]pyrene	HA-99-03	13		MG/KG	1	GB PMC	0	1	X		
PAH	Benzo[a]pyrene	HA-99-03	13		MG/KG	1	RES DEC	0	1	X		
PAH	Benzo[a]pyrene	SB09B3-1	16	D	MG/KG	1	I/C DEC	2.75	4.75		X	

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CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
PAH	Benzo[a]pyrene	SB09B3-1	16	D	MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Benzo[a]pyrene	SB09B3-1	16	D	MG/KG	1	RES DEC	2.75	4.75		X	
PAH	Benzo[a]pyrene	SB22A1-1	19	J	MG/KG	1	I/C DEC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-1	19	J	MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-1	19	J	MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-2	32		MG/KG	1	I/C DEC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-2	32		MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[a]pyrene	SB22A1-2	32		MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[b]fluoranthene	SB29A1-2	1.1	J	MG/KG	1	GB PMC	1	3	X		
PAH	Benzo[b]fluoranthene	SB29A1-2	1.1	J	MG/KG	1	RES DEC	1	3	X		
PAH	Benzo[b]fluoranthene	SB29A1-3	2.2		MG/KG	1	GB PMC	0.58	2.58	X		
PAH	Benzo[b]fluoranthene	SB29A1-3	2.2		MG/KG	1	RES DEC	0.58	2.58	X		
PAH	Benzo[b]fluoranthene	SB29A1-3	2.3	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB29A1-3	2.3	J	MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB29A1-2	2.7		MG/KG	1	GB PMC	0.83	2.83	X		
PAH	Benzo[b]fluoranthene	SB29A1-2	2.7		MG/KG	1	RES DEC	0.83	2.83	X		
PAH	Benzo[b]fluoranthene	SB23A1-3	3.06		MG/KG	1	GB PMC	4	6			X
PAH	Benzo[b]fluoranthene	SB23A1-3	3.06		MG/KG	1	RES DEC	4	6			X
PAH	Benzo[b]fluoranthene	SB29A1-3	3.7		MG/KG	1	GB PMC	4.58	6.58			X
PAH	Benzo[b]fluoranthene	SB29A1-3	3.7		MG/KG	1	RES DEC	4.58	6.58			X
PAH	Benzo[b]fluoranthene	SB29A1-3	4.2	J	MG/KG	1	GB PMC	4.5	6.5			X
PAH	Benzo[b]fluoranthene	SB29A1-3	4.2	J	MG/KG	1	RES DEC	4.5	6.5			X
PAH	Benzo[b]fluoranthene	SB15A1-1	4.8	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB15A1-1	4.8	J	MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	BR-2	5.2		MG/KG	1	GB PMC	1	3	X		
PAH	Benzo[b]fluoranthene	BR-2	5.2		MG/KG	1	RES DEC	1	3	X		
PAH	Benzo[b]fluoranthene	SB22A1-3	5.71	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB22A1-3	5.71	J	MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB22A1-1	8.6	J	MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[b]fluoranthene	SB22A1-1	8.6	J	MG/KG	7.8	I/C DEC	0	2	X		
PAH	Benzo[b]fluoranthene	SB22A1-1	8.6	J	MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[b]fluoranthene	HA-99-03	9.9		MG/KG	1	GB PMC	0	1	X		
PAH	Benzo[b]fluoranthene	HA-99-03	9.9		MG/KG	7.8	I/C DEC	0	1	X		
PAH	Benzo[b]fluoranthene	HA-99-03	9.9		MG/KG	1	RES DEC	0	1	X		
PAH	Benzo[b]fluoranthene	SB09B3-1	15	D	MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Benzo[b]fluoranthene	SB09B3-1	15	D	MG/KG	7.8	I/C DEC	2.75	4.75		X	
PAH	Benzo[b]fluoranthene	SB09B3-1	15	D	MG/KG	1	RES DEC	2.75	4.75		X	

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
PAH	Benzo[b]fluoranthene	SB22A1-1	21.1	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB22A1-1	21.1	J	MG/KG	7.8	I/C DEC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB22A1-1	21.1	J	MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Benzo[b]fluoranthene	SB22A1-2	42	J	MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[b]fluoranthene	SB22A1-2	42	J	MG/KG	7.8	I/C DEC	0	2	X		
PAH	Benzo[b]fluoranthene	SB22A1-2	42	J	MG/KG	1	RES DEC	0	2	X		
PAH	Benzo[k]fluoranthene	SB29A1-2	1.3	J	MG/KG	1	GB PMC	1	3	X		
PAH	Benzo[k]fluoranthene	SB29A1-2	2.4		MG/KG	1	GB PMC	0.83	2.83	X		
PAH	Benzo[k]fluoranthene	SB29A1-3	2.5	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[k]fluoranthene	SB29A1-3	2.8		MG/KG	1	GB PMC	0.58	2.58	X		
PAH	Benzo[k]fluoranthene	SB29A1-3	3.3		MG/KG	1	GB PMC	4.58	6.58			X
PAH	Benzo[k]fluoranthene	SB29A1-3	4.6	J	MG/KG	1	GB PMC	4.5	6.5			X
PAH	Benzo[k]fluoranthene	SB15A1-1	5.3	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Benzo[k]fluoranthene	BR-2	5.5		MG/KG	1	GB PMC	1	3	X		
PAH	Benzo[k]fluoranthene	SB22A1-1	9.4	J	MG/KG	8.4	RES DEC	0	2	X		
PAH	Benzo[k]fluoranthene	SB22A1-1	9.4	J	MG/KG	1	GB PMC	0	2	X		
PAH	Benzo[k]fluoranthene	HA-99-03	12		MG/KG	8.4	RES DEC	0	1	X		
PAH	Benzo[k]fluoranthene	HA-99-03	12		MG/KG	1	GB PMC	0	1	X		
PAH	Benzo[k]fluoranthene	SB09B3-1	12	D	MG/KG	8.4	RES DEC	2.75	4.75		X	
PAH	Benzo[k]fluoranthene	SB09B3-1	12	D	MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Benzo[k]fluoranthene	SB22A1-2	27	NJ	MG/KG	8.4	RES DEC	0	2	X		
PAH	Benzo[k]fluoranthene	SB22A1-2	27	NJ	MG/KG	1	GB PMC	0	2	X		
PAH	Chrysene	SB08H1-1	1.1		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Chrysene	SB09B3-1	1.1		MG/KG	1	GB PMC	0.75	2.75	X		
PAH	Chrysene	WC-11S	1.4	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Chrysene	SB12B3-2	1.5		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Chrysene	SB23A1-3	1.89		MG/KG	1	GB PMC	4	6			X
PAH	Chrysene	SB29A1-3	2.1		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Chrysene	SB29A1-3	3.3		MG/KG	1	GB PMC	0.58	2.58	X		
PAH	Chrysene	SB29A1-2	3.5		MG/KG	1	GB PMC	0.83	2.83	X		
PAH	Chrysene	SB15A1-1	3.9		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Chrysene	SB29A1-3	4.2		MG/KG	1	GB PMC	4.5	6.5			X
PAH	Chrysene	SB29A1-3	6		MG/KG	1	GB PMC	4.58	6.58			X
PAH	Chrysene	SB22A1-1	8		MG/KG	1	GB PMC	0	2	X		
PAH	Chrysene	BR-2	11		MG/KG	1	GB PMC	1	3	X		
PAH	Chrysene	SB22A1-3	12.8	J	MG/KG	1	GB PMC	0	2	X		
PAH	Chrysene	HA-99-03	14		MG/KG	1	GB PMC	0	1	X		

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

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STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
PAH	Chrysene	SB22A1-2	17.7	J	MG/KG	1	GB PMC	0	2	X		
PAH	Chrysene	SB22A1-1	20.7	J	MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Chrysene	SB09B3-1	22	D	MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Chrysene	SB22A1-2	39		MG/KG	1	GB PMC	0	2	X		
PAH	Dibenz[ah]anthracene	BR-2	1.2	J	MG/KG	1	I/C DEC	1	3	X		
PAH	Dibenz[ah]anthracene	BR-2	1.2	J	MG/KG	1	GB PMC	1	3	X		
PAH	Dibenz[ah]anthracene	BR-2	1.2	J	MG/KG	1	RES DEC	1	3	X		
PAH	Dibenz[ah]anthracene	SB22A1-1	1.3	J	MG/KG	1	I/C DEC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-1	1.3	J	MG/KG	1	GB PMC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-1	1.3	J	MG/KG	1	RES DEC	0	2	X		
PAH	Dibenz[ah]anthracene	SB09B3-1	1.4		MG/KG	1	I/C DEC	2.75	4.75		X	
PAH	Dibenz[ah]anthracene	SB09B3-1	1.4		MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Dibenz[ah]anthracene	SB09B3-1	1.4		MG/KG	1	RES DEC	2.75	4.75		X	
PAH	Dibenz[ah]anthracene	SB22A1-1	1.91	J	MG/KG	1	I/C DEC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-1	1.91	J	MG/KG	1	GB PMC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-1	1.91	J	MG/KG	1	RES DEC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-2	7.4		MG/KG	1	I/C DEC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-2	7.4		MG/KG	1	GB PMC	0	2	X		
PAH	Dibenz[ah]anthracene	SB22A1-2	7.4		MG/KG	1	RES DEC	0	2	X		
PAH	Fluoranthene	SB22A1-2	76		MG/KG	56	GB PMC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	1.1		MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	1.1		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	1.3	J	MG/KG	1	RES DEC	0.58	2.58	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	1.3	J	MG/KG	1	GB PMC	0.58	2.58	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-2	1.4		MG/KG	1	RES DEC	0.83	2.83	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-2	1.4		MG/KG	1	GB PMC	0.83	2.83	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	1.7	J	MG/KG	1	RES DEC	4.58	6.58			X
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	1.7	J	MG/KG	1	GB PMC	4.58	6.58			X
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	2.1		MG/KG	1	RES DEC	4.5	6.5			X
PAH	Indeno[1,2,3-c,d]pyrene	SB29A1-3	2.1		MG/KG	1	GB PMC	4.5	6.5			X
PAH	Indeno[1,2,3-c,d]pyrene	SB15A1-1	2.4		MG/KG	1	RES DEC	0.5	2.5	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB15A1-1	2.4		MG/KG	1	GB PMC	0.5	2.5	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB09B3-1	3.2		MG/KG	1	RES DEC	2.75	4.75		X	
PAH	Indeno[1,2,3-c,d]pyrene	SB09B3-1	3.2		MG/KG	1	GB PMC	2.75	4.75		X	
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-3	3.45	J	MG/KG	1	RES DEC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-3	3.45	J	MG/KG	1	GB PMC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-1	3.7		MG/KG	1	RES DEC	0	2	X		

TABLE 8-3
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STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-1	3.7		MG/KG	1	GB PMC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-2	4.14	J	MG/KG	1	RES DEC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-2	4.14	J	MG/KG	1	GB PMC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-1	4.75	J	MG/KG	1	RES DEC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-1	4.75	J	MG/KG	1	GB PMC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	BR-2	4.8		MG/KG	1	RES DEC	1	3	X		
PAH	Indeno[1,2,3-c,d]pyrene	BR-2	4.8		MG/KG	1	GB PMC	1	3	X		
PAH	Indeno[1,2,3-c,d]pyrene	HA-99-03	9		MG/KG	1	RES DEC	0	1	X		
PAH	Indeno[1,2,3-c,d]pyrene	HA-99-03	9		MG/KG	7.8	I/C DEC	0	1	X		
PAH	Indeno[1,2,3-c,d]pyrene	HA-99-03	9		MG/KG	1	GB PMC	0	1	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-2	22		MG/KG	1	RES DEC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-2	22		MG/KG	7.8	I/C DEC	0	2	X		
PAH	Indeno[1,2,3-c,d]pyrene	SB22A1-2	22		MG/KG	1	GB PMC	0	2	X		
PAH	Phenanthrene	SB22A1-1	47	J	MG/KG	40	GB PMC	0.5	2.5	X		
PAH	Phenanthrene	SB22A1-2	81		MG/KG	40	GB PMC	0	2	X		
PAH	Pyrene	SB22A1-1	54	J	MG/KG	40	GB PMC	0.5	2.5	X		
PAH	Pyrene	SB09B3-1	58	D	MG/KG	40	GB PMC	2.75	4.75		X	
PAH	Pyrene	SB22A1-2	82		MG/KG	40	GB PMC	0	2	X		
PCBs	PCB 1254	SB09C2-1	10.7	J	MG/KG	1	RES DEC	0.83	2.83	X		
PCBs	PCB 1254	SB09C2-1	10.7	J	MG/KG	10	I/C DEC	0.83	2.83	X		
PCBs	PCB 1260	SB17A3-3	1.03	J	MG/KG	1	RES DEC	0.75	2.75	X		
PCBs	PCB 1260	SB17A3-4	1.07	J	MG/KG	1	RES DEC	0.5	2.5	X		
PCBs	PCB 1260	SB17A2-1	1.29		MG/KG	1	RES DEC	0.92	2.92	X		
PCBs	PCB 1260	SB08L1-7	1.3	J	MG/KG	1	RES DEC	0.83	2.83	X		
PCBs	PCB 1260	DB-99-08	3.7		MG/KG	1	RES DEC	2	4		X	
PCBs	PCB 1260	SB09C2-1	13.7	J	MG/KG	1	RES DEC	0.83	2.83	X		
PCBs	PCB 1260	SB09C2-1	13.7	J	MG/KG	10	I/C DEC	0.83	2.83	X		
PCBs	PCB 1260	SB09A1-4	74	J	MG/KG	1	RES DEC	0.67	2.67	X		
PCBs	PCB 1260	SB09A1-4	74	J	MG/KG	10	I/C DEC	0.67	2.67	X		
RSR Inorganics	Antimony	WC-10S	30		MG/KG	27	RES DEC	0.5	2.5	X		
RSR Inorganics	Antimony	SB09B4-1	35.2		MG/KG	27	RES DEC	2.5	4.5		X	
RSR Inorganics	Antimony	SB13D1-1	65.3		MG/KG	27	RES DEC	0.5	2.5	X		
RSR Inorganics	Antimony	BR-4	69		MG/KG	27	RES DEC	1	3	X		
RSR Inorganics	Arsenic	SB17A3-8	11.1		MG/KG	10	RES DEC	2.75	4.75		X	
RSR Inorganics	Arsenic	SB17A3-8	11.1		MG/KG	10	I/C DEC	2.75	4.75		X	
RSR Inorganics	Arsenic	WC-10S	12		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	WC-10S	12		MG/KG	10	I/C DEC	0.5	2.5	X		

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

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STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
RSR Inorganics	Arsenic	SB13C1-1	12		MG/KG	10	RES DEC	2.5	4.5		X	
RSR Inorganics	Arsenic	SB13C1-1	12		MG/KG	10	I/C DEC	2.5	4.5		X	
RSR Inorganics	Arsenic	SB12B6-2	12.9		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB12B6-2	12.9		MG/KG	10	I/C DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB14A2-2	13		MG/KG	10	RES DEC	0.25	2	X		
RSR Inorganics	Arsenic	SB14A2-2	13		MG/KG	10	I/C DEC	0.25	2	X		
RSR Inorganics	Arsenic	SB24A1-1	15.2		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB24A1-1	15.2		MG/KG	10	I/C DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB08C4-1	15.6		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB08C4-1	15.6		MG/KG	10	I/C DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	HA-99-08	15.7		MG/KG	10	RES DEC	0	1	X		
RSR Inorganics	Arsenic	HA-99-08	15.7		MG/KG	10	I/C DEC	0	1	X		
RSR Inorganics	Arsenic	SB13D1-1	17		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB13D1-1	17		MG/KG	10	I/C DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB01A1-2	17.1		MG/KG	10	RES DEC	4.33	6.4			X
RSR Inorganics	Arsenic	SB01A1-2	17.1		MG/KG	10	I/C DEC	4.33	6.4			X
RSR Inorganics	Arsenic	SB16A1-1	18.2		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB16A1-1	18.2		MG/KG	10	I/C DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB09B4-1	19.7		MG/KG	10	RES DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	SB09B4-1	19.7		MG/KG	10	I/C DEC	0.5	2.5	X		
RSR Inorganics	Arsenic	BR-4	22.9		MG/KG	10	RES DEC	1	3	X		
RSR Inorganics	Arsenic	BR-4	22.9		MG/KG	10	I/C DEC	1	3	X		
RSR Inorganics	Arsenic	SB01A1-1	29.4		MG/KG	10	RES DEC	4.33	6.33			X
RSR Inorganics	Arsenic	SB01A1-1	29.4		MG/KG	10	I/C DEC	4.33	6.33			X
RSR Inorganics	Arsenic	SB27E1-1	54.6		MG/KG	10	RES DEC	2.33	4.33		X	
RSR Inorganics	Arsenic	SB27E1-1	54.6		MG/KG	10	I/C DEC	2.33	4.33		X	
RSR Inorganics	Arsenic	SB13G1-1	3550		MG/KG	10	RES DEC	5	7			X
RSR Inorganics	Arsenic	SB13G1-1	3550		MG/KG	10	I/C DEC	5	7			X
RSR Inorganics	Beryllium	SB09B4-1	3.19		MG/KG	2	RES DEC	2.5	4.5		X	
RSR Inorganics	Beryllium	SB09B4-1	3.19		MG/KG	2	I/C DEC	2.5	4.5		X	
RSR Inorganics	Cadmium	SB19A1-4	0.0529	J	MG/L	0.05	GB PMC	0.5	2.5	X		
RSR Inorganics	Cadmium	SB19A1-3	0.0599	J	MG/L	0.05	GB PMC	0.5	2.5	X		
RSR Inorganics	Cadmium	SB22A1-1	0.112	J	MG/L	0.05	GB PMC	0.5	2.5	X		
RSR Inorganics	Cadmium	SB29A1-4	38.9		MG/KG	34	RES DEC	2.67	4.67		X	
RSR Inorganics	Cadmium	SB13D1-1	40.9		MG/KG	34	RES DEC	0.5	2.5	X		
RSR Inorganics	Cadmium	WC-10S	92.4		MG/KG	34	RES DEC	0.5	2.5	X		
RSR Inorganics	Cadmium	SB12A1-1	554		MG/KG	34	RES DEC	1	3	X		

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CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
RSR Inorganics	Cadmium	WC-8S	883		MG/KG	34	RES DEC	0.5	2.5	X		
RSR Inorganics	Cadmium	WC-8S	1110		MG/KG	1000	I/C DEC	2.5	4.5		X	
RSR Inorganics	Cadmium	WC-8S	1110		MG/KG	34	RES DEC	2.5	4.5		X	
RSR Inorganics	Chromium	SP-99-09	0.865		MG/L	0.5	GB PMC	0	4	X		
RSR Inorganics	Chromium	SP-98-03	1.1		MG/L	0.5	GB PMC	0.25	2	X		
RSR Inorganics	Chromium	SP-99-09	1.3		MG/L	0.5	GB PMC	0	4	X		
RSR Inorganics	Chromium	SP-99-05	1.31		MG/L	0.5	GB PMC	0	4	X		
RSR Inorganics	Chromium	SP-PILOT-01	1.6		MG/L	0.5	GB PMC	2	7		X	
RSR Inorganics	Chromium	SP-PILOT-04	1.6		MG/L	0.5	GB PMC	4	9			X
RSR Inorganics	Chromium	SP-99-12	1.82		MG/L	0.5	GB PMC	0	2	X		
RSR Inorganics	Chromium	SP-PILOT-03	2.01		MG/L	0.5	GB PMC	3	8		X	
RSR Inorganics	Chromium	SP-99-14	2.09		MG/L	0.5	GB PMC	5	7			X
RSR Inorganics	Chromium	SP-98-02	3.7		MG/L	0.5	GB PMC	0.33	2	X		
RSR Inorganics	Chromium	SP-98-01	7.3		MG/L	0.5	GB PMC	0.25	2	X		
RSR Inorganics	Chromium	C-1	9.3		MG/L	0.5	GB PMC	1	2	X		
RSR Inorganics	Chromium	SP-98-05	21.8		MG/L	0.5	GB PMC	0.33	2	X		
RSR Inorganics	Chromium	SP-99-11	25.5		MG/L	0.5	GB PMC	0	2	X		
RSR Inorganics	Copper	WC-10S	3691		MG/KG	2500	RES DEC	0.5	2.5	X		
RSR Inorganics	Hexavalent Chromium	SP-99-14	304		MG/KG	100	RES DEC	5	7			X
RSR Inorganics	Hexavalent Chromium	SP-99-14	304		MG/KG	100	I/C DEC	5	7			X
RSR Inorganics	Hexavalent Chromium	SP-99-14	486		MG/KG	100	RES DEC	0	2	X		
RSR Inorganics	Hexavalent Chromium	SP-99-14	486		MG/KG	100	I/C DEC	0	2	X		
RSR Inorganics	Hexavalent Chromium	SP-99-11	513	J	MG/KG	100	RES DEC	6	8			X
RSR Inorganics	Hexavalent Chromium	SP-99-11	513	J	MG/KG	100	I/C DEC	6	8			X
RSR Inorganics	Hexavalent Chromium	SP-99-11	640	J	MG/KG	100	RES DEC	0	2	X		
RSR Inorganics	Hexavalent Chromium	SP-99-11	640	J	MG/KG	100	I/C DEC	0	2	X		
RSR Inorganics	Lead	SB09B4-1	527		MG/KG	400	RES DEC	2.5	4.5		X	
RSR Inorganics	Lead	SB17A3-2	631		MG/KG	400	RES DEC	0.75	2.75	X		
RSR Inorganics	Lead	SB09A1-4	745		MG/KG	400	RES DEC	2.67	4.67		X	
RSR Inorganics	Lead	SB13J1-1	1150		MG/KG	400	RES DEC	0.75	2.75	X		
RSR Inorganics	Lead	SB13J1-1	1150		MG/KG	1000	I/C DEC	0.75	2.75	X		
RSR Inorganics	Lead	WC-10S	1681		MG/KG	400	RES DEC	0.5	2.5	X		
RSR Inorganics	Lead	WC-10S	1681		MG/KG	1000	I/C DEC	0.5	2.5	X		
RSR Inorganics	Lead	SB17A2-6	3880		MG/KG	400	RES DEC	1	3	X		
RSR Inorganics	Lead	SB17A2-6	3880		MG/KG	1000	I/C DEC	1	3	X		
RSR Inorganics	Lead	SB13D1-1	4000		MG/KG	400	RES DEC	0.5	2.5	X		
RSR Inorganics	Lead	SB13D1-1	4000		MG/KG	1000	I/C DEC	0.5	2.5	X		

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
RSR Inorganics	Lead	SB09A1-4	7870		MG/KG	400	RES DEC	0.67	2.67	X		
RSR Inorganics	Lead	SB09A1-4	7870		MG/KG	1000	I/C DEC	0.67	2.67	X		
RSR Inorganics	Lead	BR-3	19700		MG/KG	400	RES DEC	3	5		X	
RSR Inorganics	Lead	BR-3	19700		MG/KG	1000	I/C DEC	3	5		X	
RSR Inorganics	Nickel	SB16A1-2	8052		MG/KG	7500	I/C DEC	2.5	4.5		X	
RSR Inorganics	Nickel	SB16A1-2	8052		MG/KG	1400	RES DEC	2.5	4.5		X	
RSR Inorganics	Vanadium	SB08C4-1	657		MG/KG	470	RES DEC	0.5	2.5	X		
SVOC	Bis(2-ethylhexyl) phthalate	HA-99-07	96		MG/KG	44	RES DEC	0	1	X		
SVOC	Bis(2-ethylhexyl) phthalate	HA-99-07	96		MG/KG	11	GB PMC	0	1	X		
SVOC	Carbazole	SB22A1-1	1.1	J	MG/KG	1	GB PMC	0	2	X		
SVOC	Carbazole	SB22A1-3	1.54	J	MG/KG	1	GB PMC	0	2	X		
SVOC	Carbazole	SB22A1-1	2.93	J	MG/KG	1	GB PMC	0	2	X		
SVOC	Carbazole	HA-99-03	4.2	J	MG/KG	1	GB PMC	0	1	X		
SVOC	Carbazole	SB22A1-2	7.1		MG/KG	1	GB PMC	0	2	X		
SVOC	Dibenzofuran	SB22A1-2	8.7		MG/KG	5.6	GB PMC	0	2	X		
TPH	TPHC	SB06A2-2	673		MG/KG	500	RES DEC	0.33	2.33	X		
TPH	TPHC	SB09B3-1	804		MG/KG	500	RES DEC	0.75	2.75	X		
TPH	TPHC	SB27C1-1	872		MG/KG	500	RES DEC	0.5	2.5	X		
TPH	TPHC	SB08A-2	1300		MG/KG	500	RES DEC	0.58	2.58	X		
TPH	TPHC	SB12E1-1	1310		MG/KG	500	RES DEC	0.42	2.42	X		
TPH	TPHC	SB08A-1	1610		MG/KG	500	RES DEC	0.58	2.58	X		
TPH	TPHC	SB09A1-1	2080		MG/KG	500	RES DEC	0.5	4.5	X		
TPH	TPHC	SB06A3-1	2130		MG/KG	500	RES DEC	0.5	2.5	X		
TPH	TPHC	SB17A3-1	2820		MG/KG	2500	GB PMC	0.75	2.75	X		
TPH	TPHC	SB17A3-1	2820		MG/KG	500	RES DEC	0.75	2.75	X		
TPH	TPHC	SB17A3-1	2820		MG/KG	2500	I/C DEC	0.75	2.75	X		
TPH	TPHC	SB17A3-6	3440		MG/KG	2500	GB PMC	0.75	2.75	X		
TPH	TPHC	SB17A3-6	3440		MG/KG	500	RES DEC	0.75	2.75	X		
TPH	TPHC	SB17A3-6	3440		MG/KG	2500	I/C DEC	0.75	2.75	X		
TPH	TPHC	SB07A1-1	4050		MG/KG	2500	GB PMC	0	2	X		
TPH	TPHC	SB07A1-1	4050		MG/KG	500	RES DEC	0	2	X		
TPH	TPHC	SB07A1-1	4050		MG/KG	2500	I/C DEC	0	2	X		
TPH	TPHC	SB01A1-1	4700		MG/KG	2500	GB PMC	0.33	2.33	X		
TPH	TPHC	SB01A1-1	4700		MG/KG	500	RES DEC	0.33	2.33	X		
TPH	TPHC	SB01A1-1	4700		MG/KG	2500	I/C DEC	0.33	2.33	X		
TPH	TPHC	SB09C2-1	5420		MG/KG	2500	GB PMC	0.83	2.83	X		
TPH	TPHC	SB09C2-1	5420		MG/KG	500	RES DEC	0.83	2.83	X		

TABLE 8-3
SOIL CONCENTRATIONS GREATER THAN RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)		0-2 FEET BGS	2-4 FEET BGS	4-15 FEET BGS
TPH	TPHC	SB09C2-1	5420		MG/KG	2500	I/C DEC	0.83	2.83	X		
TPH	TPHC	SB17A2-6	5950		MG/KG	2500	GB PMC	1	3	X		
TPH	TPHC	SB17A2-6	5950		MG/KG	500	RES DEC	1	3	X		
TPH	TPHC	SB17A2-6	5950		MG/KG	2500	I/C DEC	1	3	X		
TPH	TPHC	SB09B4-1	8500		MG/KG	2500	GB PMC	0.5	2.5	X		
TPH	TPHC	SB09B4-1	8500		MG/KG	500	RES DEC	0.5	2.5	X		
TPH	TPHC	SB09B4-1	8500		MG/KG	2500	I/C DEC	0.5	2.5	X		
TPH	TPHC	SB27E1-3	10400		MG/KG	2500	GB PMC	0.5	1.42	X		
TPH	TPHC	SB27E1-3	10400		MG/KG	500	RES DEC	0.5	1.42	X		
TPH	TPHC	SB27E1-3	10400		MG/KG	2500	I/C DEC	0.5	1.42	X		

Notes:

B = detected in blank
BGS = below ground surface
BTEX = benzene, toluene, ethylbenzene, xylenes
cVOC = chlorinated volatile organic compound
D = dilution
E = exceeds calibration range
GB PMC = GB Classified Aquifer Pollutant Mobility Criteria
I/C DEC = Industrial/Commerical Direct Exposure Criteria
J = estimated value
MG/KG = milligrams per kilogram
N = tentatively identified compound
PAHs = polynuclear aromatic hydrocarbons
PCBs = polychlorinated biphenyls
RES DEC = Residential Direct Exposure Criteria
RSR = Connecticut Remediation Standard Regulations
SVOC = semivolatile organic compound
TPHC = total petroleum hydrocarbon
VOC = volatile organic compound

Prepared by: RTB
Checked by: DRP

TABLE 8-4
SOIL SPLP ORGANICS CONCENTRATIONS GREATER THAN RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

LOC ID	SAMPLE ID	DEPTH INTERVAL (FEET BGS)		SAMPLE DATE	ANALYTICAL CLASS	ANALYTE	RESULT	QUAL	UNITS	CRITERIA VALUE	CRITERIA
SB22A1-2	SB22A1200XX	0	2	2002-04-17	SPLP SVOA	1,1,2,2-Tetrachloroethane	0.02	NJ	MG/L	0.005	GA GWPC x10
EBS01-1	EBS01101XX	1	3	2002-05-02	SPLP VOA	Dichloromethane	37		MG/L	0.05	GA GWPC x10
EBS01-2	EBS01201XX	1	3	2002-05-02	SPLP VOA	Dichloromethane	0.052		MG/L	0.05	GA GWPC x10
EBS14-1	EBS14104XX	4	6	2002-04-18	SPLP VOA	Bis(2-ethylhexyl) phthalate	0.2	J	MG/L	0.02	GA GWPC x10
EBS29-1	EBS29101XX	1	3	2002-04-18	SPLP VOA	Dichloromethane	0.38		MG/L	0.05	GA GWPC x10
EBS29-2	EBS29201XX	1	3	2002-05-02	SPLP VOA	Dichloromethane	5.4		MG/L	0.05	GA GWPC x10
EBS29-2	EBS29204XX	4	6	2002-05-02	SPLP VOA	Dichloromethane	0.4		MG/L	0.05	GA GWPC x10
EBS43-1	EBS43104XX	4	6	2002-04-18	SPLP VOA	Dichloromethane	1.2		MG/L	0.05	GA GWPC x10
SB06A3-1	SB06A3105XX	4.5	6.5	2002-04-16	SPLP VOA	Dichloromethane	0.38		MG/L	0.05	GA GWPC x10
SB09A1-4	SB09A1403XX	2.5	4.5	2002-04-17	SPLP VOA	Benzene	0.013	J	MG/L	0.01	GA GWPC x10
SB09A1-4	SB09A1403XX	2.5	4.5	2002-04-17	SPLP VOA	cis-1,2-Dichloroethene	3.7	J	MG/L	0.7	GA GWPC x10
SB09A1-4	SB09A1401XX	0.5	2.5	2002-04-17	SPLP VOA	Dichloromethane	0.4		MG/L	0.05	GA GWPC x10
SB09A1-4	SB09A1403XX	2.5	4.5	2002-04-17	SPLP VOA	Vinyl Chloride	0.27	J	MG/L	0.02	GA GWPC x10
SB09A2-1	SB09A2101XX	1	3	2002-04-17	SPLP VOA	Dichloromethane	0.24		MG/L	0.05	GA GWPC x10
SB09A2-1	SB09A2103XX	3	5	2002-04-17	SPLP VOA	Dichloromethane	1.6		MG/L	0.05	GA GWPC x10
SB09B8-1	SB09B8100XX	0.5	2.5	2002-04-16	SPLP VOA	Trichloroethene	0.31		MG/L	0.05	GA GWPC x10
SB09B8-1	SB09B8102XX	2.5	4.5	2002-04-16	SPLP VOA	Trichloroethene	0.14		MG/L	0.05	GA GWPC x10
SB12B3-2	SB12B3201XX	0.5	2.5	2002-04-17	SPLP VOA	Dichloromethane	1.4		MG/L	0.05	GA GWPC x10
SB13D1-3	SB13D1305XX	4.5	6.5	2002-04-18	SPLP VOA	1,2-Dichloroethane	0.073	J	MG/L	0.01	GA GWPC x10
SB13D1-3	SB13D1305XX	4.5	6.5	2002-04-18	SPLP VOA	Dichloromethane	5.1		MG/L	0.05	GA GWPC x10
SB24B1-1	SB24B1102XX	2	4	2002-04-18	SPLP VOA	Dichloromethane	3		MG/L	0.05	GA GWPC x10

Notes:

BGS = below ground surface
GA GWPCx10 = GA Classified Aquifer Groundwater Protection Criteria times 10
J = estimated value
MG/L = milligrams per liter
N = tentatively identified compound
SPLP SVOA = Synthetic Precipitate Leaching Procedure Semi-Volatile Organic Analysis
SPLP VOA = Synthetic Precipitate Leaching Procedure Volatile Organic Analysis

Prepared by: RTB
Checked by: DRP

TABLE 8-5
SITE-WIDE GROUNDWATER CONTAMINATION

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH (Note 1)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
BTEX	Benzene	SHALLOW	201	25	12%	0.00083	J	0.042		MG/L	DP2-8	5	8
BTEX	Benzene	DEEP	228	26	11%	0.00041	J	0.135		MG/L	DP3-2	32	35
BTEX	Ethylbenzene	SHALLOW	201	11	5%	0.0006		0.051	J	MG/L	D-4-3	1.5	1.5
BTEX	Ethylbenzene	DEEP	228	2	1%	0.001		0.002		MG/L	LW-5D	89.5	99.5
BTEX	Toluene	SHALLOW	201	29	14%	0.00016	J	2.3		MG/L	CP-99-17	18	20
BTEX	Toluene	DEEP	228	32	14%	0.00023	J	2.7		MG/L	HESE-01-12I	34.4	44.4
BTEX	Xylenes	SHALLOW	175	11	6%	0.0005	J	0.083	J	MG/L	WC-5S	3	13
BTEX	Xylenes	DEEP	198	4	2%	0.0007		0.065		MG/L	DP3-2	32	35
cVOC	1,1,1-Trichloroethane	SHALLOW	252	60	24%	0	J	100		MG/L	WP-99-48	5	9
cVOC	1,1,1-Trichloroethane	DEEP	226	59	26%	0.0007	J	680	J	MG/L	HESE-01-12I	34.4	44.4
cVOC	1,1,2,2-Tetrachloroethane	DEEP	188	1	1%	0.01		0.01		MG/L	DP6-1	57	60
cVOC	1,1,2-Trichloroethane	SHALLOW	173	12	7%	0.0005		1.6		MG/L	CP-99-17	18	20
cVOC	1,1,2-Trichloroethane	DEEP	188	17	9%	0.0005	J	1.7		MG/L	CP-99-17	30	32
cVOC	1,1-Dichloroethane	SHALLOW	173	91	53%	0.0005		11	E	MG/L	CP-99-17	18	20
cVOC	1,1-Dichloroethane	DEEP	188	87	46%	0.0005		15	E	MG/L	CP-99-17	30	32
cVOC	1,1-Dichloroethene	SHALLOW	280	115	41%	0	J	14		MG/L	WP-99-48	15	19
cVOC	1,1-Dichloroethene	DEEP	266	117	44%	0	J	42		MG/L	HESE-01-12I	34.4	44.4
cVOC	1,2-Dichloroethane	SHALLOW	172	18	10%	0.00054	J	0.048		MG/L	PZ-11D	24	34
cVOC	1,2-Dichloroethane	DEEP	188	25	13%	0.0005		3.9000001	J	MG/L	HESE-01-12I	34.4	44.4
cVOC	1,2-Dichloroethylenes (cis and trans)	SHALLOW	14	4	29%	0.0039		3.3		MG/L	LW-5S	0	10
cVOC	1,2-Dichloroethylenes (cis and trans)	DEEP	4	3	75%	0.0014		0.0095		MG/L	LW-10I	38	48
cVOC	1,2-Dichloropropane	SHALLOW	98	2	2%	0.0006		0.003		MG/L	HESE-01-06I	19.8	29.8
cVOC	1,2-Dichloropropane	DEEP	126	2	2%	0.0005		0.0006		MG/L	WC3-1I	30	40
cVOC	1,3-Dichlorobenzene	SHALLOW	110	2	2%	0.00059	J	0.0015		MG/L	LW-2	6	16
cVOC	Bromodichloromethane	SHALLOW	104	1	1%	0.00094	J	0.00094	J	MG/L	DP2-4	22	25
cVOC	Bromodichloromethane	DEEP	133	3	2%	0.001		0.006		MG/L	PZ-99-02B	30	35
cVOC	Carbon tetrachloride	SHALLOW	173	1	1%	0.0045		0.0045		MG/L	DP2-2	5	8
cVOC	Carbon tetrachloride	DEEP	188	1	1%	0.009		0.009		MG/L	PZ-99-04I	30	35
cVOC	Chlorobenzene	SHALLOW	104	18	17%	0.0007		2		MG/L	LW-2	6	16
cVOC	Chlorobenzene	DEEP	133	2	2%	0.0002	J	0.0006		MG/L	WC2-2I	45	55
cVOC	Chloroform	SHALLOW	173	13	8%	0.0005	J	0.22	J	MG/L	HESE-01-16I	23.9	33.9
cVOC	Chloroform	DEEP	188	20	11%	0.0004	J	0.25		MG/L	DP3-2	32	35
cVOC	Chloromethane	SHALLOW	104	2	2%	0.00036	J	0.0008		MG/L	PZ-TF-05A	4	14
cVOC	Chloromethane	DEEP	133	2	2%	0.00034	J	0.002	J	MG/L	PZ-99-04I	30	35

TABLE 8-5
SITE-WIDE GROUNDWATER CONTAMINATION

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH (Note 1)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
cVOC	cis-1,2-Dichloroethene	SHALLOW	266	135	51%	0.0005	J	46		MG/L	D-4	1.5	1.5
cVOC	cis-1,2-Dichloroethene	DEEP	262	112	43%	0.0005	J	5.0999999		MG/L	CP-99-09	33	35
cVOC	Dichloromethane	SHALLOW	172	3	2%	0.0005		0.0008		MG/L	D-4	1.5	1.5
cVOC	Dichloromethane	DEEP	188	4	2%	0.0008	J	4.3000002		MG/L	DP3-2	32	35
cVOC	Tetrachloroethene	SHALLOW	280	133	48%	0.00022	J	4.3000002		MG/L	DP3-2	5	8
cVOC	Tetrachloroethene	DEEP	266	111	42%	0.001		2.4000001		MG/L	DP3-2	32	35
cVOC	trans-1,2-Dichloroethene	SHALLOW	266	29	11%	0.0005	J	1.3		MG/L	DP3-2	5	8
cVOC	trans-1,2-Dichloroethene	DEEP	262	32	12%	0.0005	J	0.2		MG/L	DP3-2	32	35
cVOC	Trichloroethene	SHALLOW	280	196	70%	0.00053	J	830		MG/L	WP-99-33	26	30
cVOC	Trichloroethene	DEEP	266	211	79%	0.00029	J	246		MG/L	WP-99-45	36	40
cVOC	Trichlorofluoromethane	SHALLOW	38	4	11%	0.00056	J	0.003	J	MG/L	HESE-01-GP01	8	12
cVOC	Trichlorofluoromethane	DEEP	77	1	1%	0.00083	J	0.00083	J	MG/L	LW-5DI	38	48
cVOC	Vinyl Chloride	SHALLOW	249	66	27%	0.0005	J	3		MG/L	D-4	1.5	1.5
cVOC	Vinyl Chloride	DEEP	223	46	21%	0.0005	J	2.0999999		MG/L	PZ-4D	29	39
Inorganics	Aluminum	SHALLOW	54	16	30%	0.028	J	1.7		MG/L	PZ-17D	22	32
Inorganics	Aluminum	DEEP	40	19	48%	0.0317		15	J	MG/L	PZ-4D	29	39
Inorganics	Calcium	SHALLOW	54	54	100%	8.41		293		MG/L	PZ-17D	22	32
Inorganics	Calcium	DEEP	40	40	100%	10.9		976		MG/L	WC5-1D	74.5	84.5
Inorganics	Chloride	SHALLOW	81	80	99%	2.21		10900		MG/L	MWCD-99-02A	5	10
Inorganics	Chloride	DEEP	58	58	100%	109		31400		MG/L	WC5-1D	74.5	84.5
Inorganics	Cobalt	SHALLOW	54	2	4%	0.0087		0.011		MG/L	PZ-17D	22	32
Inorganics	Cobalt	DEEP	40	21	53%	0.007		0.116		MG/L	WC5-1D	74.5	84.5
Inorganics	Ferrous Iron	SHALLOW	104	60	58%	0.15		10.4		MG/L	WP-98-01	6.5	11.5
Inorganics	Ferrous Iron	DEEP	77	66	86%	0.2		2.5		MG/L	WP-99-24	46	50
Inorganics	Iron	SHALLOW	58	44	76%	0.0066		31.799999		MG/L	WC-5S	3	13
Inorganics	Iron	DEEP	39	38	97%	0.015	J	65.900002		MG/L	WC-9D2	140	150
Inorganics	Magnesium	SHALLOW	54	54	100%	0.961		670		MG/L	MWCD-99-02A	5	10
Inorganics	Magnesium	DEEP	40	40	100%	10		1020		MG/L	WC5-1D	74.5	84.5
Inorganics	Manganese	SHALLOW	54	53	98%	0.0017		19.4		MG/L	PZ-17D	22	32
Inorganics	Manganese	DEEP	40	40	100%	0.193		17.4		MG/L	MWCD-99-01B	50	60
Inorganics	Potassium	SHALLOW	54	51	94%	3	J	197		MG/L	MWCD-99-02A	5	10
Inorganics	Potassium	DEEP	40	40	100%	4.17		230		MG/L	WC5-1D	74.5	84.5
Inorganics	Sodium	SHALLOW	54	54	100%	23		6190		MG/L	MWCD-99-02A	5	10
Inorganics	Sodium	DEEP	40	40	100%	238		6740		MG/L	WC5-1D	74.5	84.5

TABLE 8-5
SITE-WIDE GROUNDWATER CONTAMINATION

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH (Note 1)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
Inorganics	Sulfate	SHALLOW	2	2	100%	37		43		MG/L	WP-98-02	7	12
PAH	2-Methylnaphthalene	SHALLOW	72	5	7%	0.00212	J	0.0265	J	MG/L	DP2-1	4	7
PAH	9H-Fluorene	SHALLOW	75	2	3%	0.0035	J	0.0038	J	MG/L	MW-2	2	15
PAH	Acenaphthene	SHALLOW	75	8	11%	0.0018	J	0.00867	J	MG/L	MW-2	2	15
PAH	Acenaphthene	DEEP	55	2	4%	0.012		0.035	J	MG/L	PZ-5D	33	43
PAH	Anthracene	SHALLOW	75	1	1%	0.00136	J	0.00136	J	MG/L	WC-5S	3	13
PAH	Anthracene	DEEP	56	1	2%	0.0031	J	0.0031	J	MG/L	WC2-6I	40	50
PAH	Naphthalene	SHALLOW	75	4	5%	0.00474	J	0.0459	J	MG/L	DP2-1	4	7
PAH	Naphthalene	DEEP	56	1	2%	0.0097	J	0.0097	J	MG/L	PZ-5D	33	43
PAH	Phenanthrene	SHALLOW	75	1	1%	0.0153	J	0.0153	J	MG/L	DP2-1	4	7
RSR Inorganics	Antimony	DEEP	39	5	13%	0.00283	J	0.0674		MG/L	WC5-1D	74.5	84.5
RSR Inorganics	Arsenic	SHALLOW	68	22	32%	0.0032	B	0.0674		MG/L	WC2-4I	25	35
RSR Inorganics	Arsenic	DEEP	43	22	51%	0.0059	J	0.0651		MG/L	WC-9D2	140	150
RSR Inorganics	Barium	SHALLOW	54	54	100%	0.003		0.5		MG/L	MW-4	5	15
RSR Inorganics	Barium	DEEP	40	40	100%	0.0317		0.633		MG/L	PZ-5D	33	43
RSR Inorganics	Beryllium	SHALLOW	54	4	7%	1E-04		0.0002	J	MG/L	PZ-1D	24	34
RSR Inorganics	Beryllium	DEEP	40	8	20%	1E-04	J	0.0018		MG/L	PZ-4D	29	39
RSR Inorganics	Cadmium	SHALLOW	85	17	20%	0.00061	B	0.0173		MG/L	WP-99-15	26	30
RSR Inorganics	Cadmium	DEEP	57	10	18%	0.0011	B	0.0066		MG/L	WP-99-11	47	51
RSR Inorganics	Chromium	SHALLOW	185	76	41%	0.0014	B	700		MG/L	WP-99-04	22	26
RSR Inorganics	Chromium	DEEP	132	31	23%	0.0055	B	950		MG/L	WP-99-15	30	34
RSR Inorganics	Copper	SHALLOW	85	13	15%	0.0056	B	0.423		MG/L	WP-99-12	7	9
RSR Inorganics	Copper	DEEP	57	6	11%	0.0036	B	0.0442		MG/L	WC3-1I	30	40
RSR Inorganics	Cyanide	SHALLOW	54	12	22%	0.008		0.535		MG/L	WP-99-15	26	30
RSR Inorganics	Cyanide	DEEP	40	2	5%	0.091		0.092		MG/L	WP-99-11	30	34
RSR Inorganics	Hexavalent Chromium	SHALLOW	118	47	40%	0.15		700		MG/L	WP-99-04	22	26
RSR Inorganics	Hexavalent Chromium	DEEP	88	17	19%	0.15		950		MG/L	WP-99-15	30	34
RSR Inorganics	Lead	SHALLOW	68	6	9%	0.0016	J	0.0086	J	MG/L	PZ-8D	24	34
RSR Inorganics	Lead	DEEP	43	5	12%	0.0014		0.0248		MG/L	WC3-1I	30	40
RSR Inorganics	Mercury	SHALLOW	54	1	2%	0.000318	J	0.000318	J	MG/L	PZ-16D	21	31
RSR Inorganics	Mercury	DEEP	39	2	5%	0.000242	J	0.000309	J	MG/L	WC2-2I	45	55
RSR Inorganics	Nickel	SHALLOW	89	21	24%	0.0034	B	0.25		MG/L	WP-99-15	26	30
RSR Inorganics	Nickel	DEEP	57	21	37%	0.0036	B	0.157		MG/L	WC2-2D	51.5	61.5
RSR Inorganics	Selenium	SHALLOW	54	3	6%	0.0043	J	0.0072		MG/L	WC-4S	3	13

TABLE 8-5
SITE-WIDE GROUNDWATER CONTAMINATION

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH (Note 1)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Silver	SHALLOW	54	3	6%	0.005	J	0.009	J	MG/L	WC5-1S	1.5	11.5
RSR Inorganics	Silver	DEEP	40	7	18%	0.0054		0.05		MG/L	WC5-1D	74.5	84.5
RSR Inorganics	Thallium	SHALLOW	54	15	28%	0.0034		0.0147		MG/L	PZ-17D	22	32
RSR Inorganics	Thallium	DEEP	39	21	54%	0.0036		0.023		MG/L	PZ-5D	33	43
RSR Inorganics	Vanadium	SHALLOW	54	6	11%	0.0088		0.0642		MG/L	WC-12S	3	13
RSR Inorganics	Vanadium	DEEP	40	12	30%	0.0052		0.0593		MG/L	WC3-1I	30	40
RSR Inorganics	Zinc	SHALLOW	85	30	35%	0.0028		0.0953		MG/L	LW-12	4	14
RSR Inorganics	Zinc	DEEP	57	25	44%	0.0069		0.133		MG/L	WC3-1I	30	40
SVOC	1,2-Dichlorobenzene	SHALLOW	110	11	10%	0.00064	J	0.15		MG/L	LW-3S	0	10
SVOC	1,2-Dichlorobenzene	DEEP	129	3	2%	0.0011		0.006		MG/L	LW-5DI	38	48
SVOC	1,4-Dichlorobenzene	SHALLOW	110	5	5%	0.0007	J	0.058		MG/L	LW-2	6	16
SVOC	1,4-Dichlorobenzene	DEEP	129	1	1%	0.00082	J	0.00082	J	MG/L	LW-5DI	38	48
SVOC	Bis(2-ethylhexyl) phthalate	SHALLOW	75	5	7%	0.00235	J	0.0195	J	MG/L	DP2-1	4	7
SVOC	Bis(2-ethylhexyl) phthalate	DEEP	56	2	4%	0.00192	J	0.00231	J	MG/L	DP2-1	47	50
SVOC	Dibenzofuran	SHALLOW	72	3	4%	0.000921	J	0.00207	J	MG/L	WC-2D	24.5	34.5
SVOC	Di-n-butyl phthalate	SHALLOW	75	1	1%	0.00413	J	0.00413	J	MG/L	WC2-3S	2	12
SVOC	Di-n-octyl phthalate	SHALLOW	75	1	1%	0.00159	J	0.00159	J	MG/L	DP2-1	12	15
SVOC	Nitrobenzene	SHALLOW	75	3	4%	0.00156	J	0.00292	J	MG/L	WC2-1S	2	12
VOC	2-Butanone	SHALLOW	62	19	31%	0.0008	J	78		MG/L	WP-99-34	26	30
VOC	2-Butanone	DEEP	103	12	12%	0.0006	J	0.042	E	MG/L	CP-99-05	30	32
VOC	2-Methoxy-2-methylpropane	SHALLOW	24	4	17%	0.002	J	0.0074		MG/L	CP-99-18	11	13
VOC	2-Methoxy-2-methylpropane	DEEP	73	1	1%	0.0014		0.0014		MG/L	CP-99-11	45	47
VOC	Acetone	SHALLOW	37	4	11%	0.0051	J	0.42	E	MG/L	CP-99-02	4	6
VOC	Acetone	DEEP	85	2	2%	0.037		0.041	J	MG/L	PZ-99-04I	30	35
VOC	Carbon disulfide	SHALLOW	84	13	15%	0.0006		0.01	J	MG/L	D-4	1.5	1.5
VOC	Carbon disulfide	DEEP	122	4	3%	0.0007		0.003		MG/L	HESE-01-08D	113	123

Notes:

1. Shallow infers 0-30 feet bgs; deep infers greater than 30 feet bgs. Determination based upon mid-point of sample interval.

B = detected in blank
BGS = below ground surface
BTEX = benzene, toluene, ethylbenzene, xylenes
cVOC = chlorinated volatile organic compound
E = exceeds calibration range
J = estimated value

Prepared by: RTB
Checked by: DRP

TABLE 8-5
SITE-WIDE GROUNDWATER CONTAMINATION

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	DEPTH (Note 1)	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	FREQUENCY OF DETECTION	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	MAX DETECT LOC	MAX DETECT DEPTH INTERVAL (FEET BGS)

MG/L = milligrams per liter
PAHs = polynuclear aromatic hydrocarbons
PCBs = polychlorinated biphenyls
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbon
VOC = volatile organic compound

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	1,1,1-Trichloroethane	WP-99-47	8.6		MG/L	6.5	GW RES VC	17	21
cVOC	1,1,1-Trichloroethane	WP-99-47	9.8		MG/L	6.5	GW RES VC	17	21
cVOC	1,1,1-Trichloroethane	HESE-01-07I	27	J	MG/L	16	GW I/C VC	19.7	29.7
cVOC	1,1,1-Trichloroethane	HESE-01-07I	27	J	MG/L	6.5	GW RES VC	19.7	29.7
cVOC	1,1,1-Trichloroethane	PZ-99-03	30		MG/L	16	GW I/C VC	4	9
cVOC	1,1,1-Trichloroethane	PZ-99-03	30		MG/L	6.5	GW RES VC	4	9
cVOC	1,1,1-Trichloroethane	WP-99-48	82		MG/L	16	GW I/C VC	15	19
cVOC	1,1,1-Trichloroethane	WP-99-48	82		MG/L	6.5	GW RES VC	15	19
cVOC	1,1,1-Trichloroethane	WP-99-48	82		MG/L	62	SWPC	15	19
cVOC	1,1,1-Trichloroethane	CP-99-17	93	E	MG/L	16	GW I/C VC	18	20
cVOC	1,1,1-Trichloroethane	CP-99-17	93	E	MG/L	6.5	GW RES VC	18	20
cVOC	1,1,1-Trichloroethane	CP-99-17	93	E	MG/L	62	SWPC	18	20
cVOC	1,1,1-Trichloroethane	CP-99-17	97	E	MG/L	62	SWPC	30	32
cVOC	1,1,1-Trichloroethane	WP-99-48	100		MG/L	16	GW I/C VC	5	9
cVOC	1,1,1-Trichloroethane	WP-99-48	100		MG/L	6.5	GW RES VC	5	9
cVOC	1,1,1-Trichloroethane	WP-99-48	100		MG/L	62	SWPC	5	9
cVOC	1,1,1-Trichloroethane	CP-99-08	160		MG/L	62	SWPC	133	135
cVOC	1,1,1-Trichloroethane	CP-99-08	170	E	MG/L	62	SWPC	44	46
cVOC	1,1,1-Trichloroethane	CP-99-08	210		MG/L	62	SWPC	156	158
cVOC	1,1,1-Trichloroethane	CP-99-08	280	E	MG/L	62	SWPC	32	34
cVOC	1,1,1-Trichloroethane	HESE-01-12I	680	J	MG/L	62	SWPC	34.4	44.4
cVOC	1,1,2-Trichloroethane	CP-99-17	1.6		MG/L	0.22	GW RES VC	18	20
cVOC	1,1,2-Trichloroethane	CP-99-17	1.6		MG/L	1.26	SWPC	18	20
cVOC	1,1,2-Trichloroethane	CP-99-17	1.7		MG/L	1.26	SWPC	30	32
cVOC	1,1-Dichloroethane	CP-99-17	11	E	MG/L	3	GW RES VC	18	20
cVOC	1,1-Dichloroethene	CP-99-18	0.097		MG/L	0.096	SWPC	98	100
cVOC	1,1-Dichloroethene	WP-99-33	0.1		MG/L	0.096	SWPC	76	80
cVOC	1,1-Dichloroethene	DP6-3	0.11		MG/L	0.096	SWPC	47	50
cVOC	1,1-Dichloroethene	CP-99-18	0.11		MG/L	0.096	SWPC	146	148
cVOC	1,1-Dichloroethene	CP-99-18	0.11		MG/L	0.096	SWPC	132	134
cVOC	1,1-Dichloroethene	WP-99-41	0.11		MG/L	0.096	SWPC	26	30
cVOC	1,1-Dichloroethene	WP-99-53	0.11		MG/L	0.096	SWPC	28	32
cVOC	1,1-Dichloroethene	WP-99-62	0.12		MG/L	0.096	SWPC	46	50
cVOC	1,1-Dichloroethene	PZ-1D	0.12	J	MG/L	0.096	SWPC	24	34

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	1,1-Dichloroethene	DP6-4	0.124		MG/L	0.096	SWPC	27	30
cVOC	1,1-Dichloroethene	CP-99-08	0.13		MG/L	0.096	SWPC	99	101
cVOC	1,1-Dichloroethene	DP2-8	0.155		MG/L	0.096	SWPC	27	30
cVOC	1,1-Dichloroethene	WP-99-61	0.16		MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	WP-99-42	0.16		MG/L	0.096	SWPC	19	23
cVOC	1,1-Dichloroethene	PZ-16D	0.16		MG/L	0.096	SWPC	21	31
cVOC	1,1-Dichloroethene	DP5-4	0.165		MG/L	0.096	SWPC	37	40
cVOC	1,1-Dichloroethene	DP5-5	0.175		MG/L	0.096	SWPC	37	40
cVOC	1,1-Dichloroethene	DP2-8	0.175		MG/L	0.096	SWPC	17	20
cVOC	1,1-Dichloroethene	WC-4S	0.19		MG/L	0.096	SWPC	3	13
cVOC	1,1-Dichloroethene	WP-99-44	0.2		MG/L	0.19	GW RES VC	25	29
cVOC	1,1-Dichloroethene	WP-99-44	0.2		MG/L	0.096	SWPC	25	29
cVOC	1,1-Dichloroethene	WP-99-68	0.21		MG/L	0.19	GW RES VC	6	10
cVOC	1,1-Dichloroethene	DP2-6	0.21		MG/L	0.19	GW RES VC	17	20
cVOC	1,1-Dichloroethene	DP2-7	0.21		MG/L	0.096	SWPC	37	40
cVOC	1,1-Dichloroethene	WP-99-68	0.21		MG/L	0.096	SWPC	6	10
cVOC	1,1-Dichloroethene	DP2-6	0.21		MG/L	0.096	SWPC	17	20
cVOC	1,1-Dichloroethene	DP2-2	0.22		MG/L	0.19	GW RES VC	5	8
cVOC	1,1-Dichloroethene	DP2-2	0.22		MG/L	0.096	SWPC	5	8
cVOC	1,1-Dichloroethene	DP2-7	0.225		MG/L	0.19	GW RES VC	27	30
cVOC	1,1-Dichloroethene	DP2-7	0.225		MG/L	0.096	SWPC	27	30
cVOC	1,1-Dichloroethene	DP3-4	0.24		MG/L	0.096	SWPC	30	33
cVOC	1,1-Dichloroethene	WP-99-33	0.24		MG/L	0.096	SWPC	76	80
cVOC	1,1-Dichloroethene	CP-99-10	0.24		MG/L	0.096	SWPC	34	36
cVOC	1,1-Dichloroethene	WP-99-49	0.25		MG/L	0.19	GW RES VC	17	21
cVOC	1,1-Dichloroethene	WP-99-49	0.25		MG/L	0.096	SWPC	17	21
cVOC	1,1-Dichloroethene	DP2-5	0.265		MG/L	0.096	SWPC	37	40
cVOC	1,1-Dichloroethene	HESE-01-10D	0.28		MG/L	0.096	SWPC	101.5	111.5
cVOC	1,1-Dichloroethene	DP3-14	0.29		MG/L	0.096	SWPC	37	40
cVOC	1,1-Dichloroethene	DP2-6	0.32		MG/L	0.19	GW RES VC	27	30
cVOC	1,1-Dichloroethene	DP2-6	0.32		MG/L	0.096	SWPC	37	40
cVOC	1,1-Dichloroethene	DP2-6	0.32		MG/L	0.096	SWPC	27	30
cVOC	1,1-Dichloroethene	DP2-5	0.335		MG/L	0.19	GW RES VC	17	20
cVOC	1,1-Dichloroethene	DP2-5	0.335		MG/L	0.096	SWPC	17	20

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	1,1-Dichloroethene	WP-99-69	0.34		MG/L	0.19	GW RES VC	6	10
cVOC	1,1-Dichloroethene	WP-99-69	0.34		MG/L	0.096	SWPC	6	10
cVOC	1,1-Dichloroethene	HESE-01-18D	0.38		MG/L	0.096	SWPC	38.9	48.9
cVOC	1,1-Dichloroethene	WP-99-53	0.41		MG/L	0.19	GW RES VC	6	10
cVOC	1,1-Dichloroethene	DP2-9	0.41		MG/L	0.19	GW RES VC	20	23
cVOC	1,1-Dichloroethene	DP2-9	0.41		MG/L	0.096	SWPC	20	23
cVOC	1,1-Dichloroethene	WP-99-53	0.41		MG/L	0.096	SWPC	6	10
cVOC	1,1-Dichloroethene	PZ-11D	0.43		MG/L	0.19	GW RES VC	24	34
cVOC	1,1-Dichloroethene	HESE-01-14I	0.43	J	MG/L	0.096	SWPC	36.9	46.9
cVOC	1,1-Dichloroethene	HESE-01-09D	0.43		MG/L	0.096	SWPC	102.3	112.3
cVOC	1,1-Dichloroethene	PZ-11D	0.43		MG/L	0.096	SWPC	24	34
cVOC	1,1-Dichloroethene	WP-99-43	0.44		MG/L	0.19	GW RES VC	26	30
cVOC	1,1-Dichloroethene	WP-99-43	0.44		MG/L	0.096	SWPC	26	30
cVOC	1,1-Dichloroethene	PZ-99-04I	0.48	J	MG/L	0.096	SWPC	30	35
cVOC	1,1-Dichloroethene	HESE-01-16I	0.51	J	MG/L	0.19	GW RES VC	23.9	33.9
cVOC	1,1-Dichloroethene	HESE-01-16I	0.51	J	MG/L	0.096	SWPC	23.9	33.9
cVOC	1,1-Dichloroethene	WP-99-61	0.53		MG/L	0.19	GW RES VC	24	28
cVOC	1,1-Dichloroethene	WP-99-61	0.53		MG/L	0.096	SWPC	24	28
cVOC	1,1-Dichloroethene	CP-99-10	0.55	E	MG/L	0.096	SWPC	73	75
cVOC	1,1-Dichloroethene	WC-12S	0.59		MG/L	0.19	GW RES VC	3	13
cVOC	1,1-Dichloroethene	WC-12S	0.59		MG/L	0.096	SWPC	3	13
cVOC	1,1-Dichloroethene	WP-99-69	0.64		MG/L	0.19	GW RES VC	16	20
cVOC	1,1-Dichloroethene	WP-99-69	0.64		MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	CP-99-10	0.67		MG/L	0.096	SWPC	41	43
cVOC	1,1-Dichloroethene	CP-99-08	0.71		MG/L	0.096	SWPC	60	62
cVOC	1,1-Dichloroethene	WP-99-68	0.74		MG/L	0.19	GW RES VC	16	20
cVOC	1,1-Dichloroethene	WP-99-68	0.74		MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	WP-99-69	0.75		MG/L	0.19	GW RES VC	26	30
cVOC	1,1-Dichloroethene	DP3-6	0.75		MG/L	0.096	SWPC	33	36
cVOC	1,1-Dichloroethene	WP-99-69	0.75		MG/L	0.096	SWPC	26	30
cVOC	1,1-Dichloroethene	CP-99-06	0.76		MG/L	0.19	GW RES VC	28	30
cVOC	1,1-Dichloroethene	CP-99-06	0.76		MG/L	0.096	SWPC	28	30
cVOC	1,1-Dichloroethene	WP-99-70	0.85		MG/L	0.19	GW RES VC	26	30
cVOC	1,1-Dichloroethene	WP-99-70	0.85		MG/L	0.096	SWPC	26	30

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	1,1-Dichloroethene	WP-99-37	1	J	MG/L	0.92	GW I/C VC	16	20
cVOC	1,1-Dichloroethene	WP-99-37	1	J	MG/L	0.19	GW RES VC	16	20
cVOC	1,1-Dichloroethene	WP-99-37	1	J	MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	WP-99-71	1.2		MG/L	0.92	GW I/C VC	16	20
cVOC	1,1-Dichloroethene	WP-99-71	1.2		MG/L	0.19	GW RES VC	16	20
cVOC	1,1-Dichloroethene	WP-99-71	1.2		MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	WP-99-41	1.4		MG/L	0.92	GW I/C VC	6	10
cVOC	1,1-Dichloroethene	WP-99-41	1.4		MG/L	0.19	GW RES VC	6	10
cVOC	1,1-Dichloroethene	WP-99-41	1.4		MG/L	0.096	SWPC	6	10
cVOC	1,1-Dichloroethene	WP-99-43	1.5		MG/L	0.92	GW I/C VC	6	10
cVOC	1,1-Dichloroethene	WP-99-43	1.5		MG/L	0.19	GW RES VC	6	10
cVOC	1,1-Dichloroethene	WP-99-43	1.5		MG/L	0.096	SWPC	6	10
cVOC	1,1-Dichloroethene	WC3-1I	1.8		MG/L	0.096	SWPC	30	40
cVOC	1,1-Dichloroethene	WP-99-47	2.2		MG/L	0.92	GW I/C VC	6	10
cVOC	1,1-Dichloroethene	WP-99-47	2.2		MG/L	0.19	GW RES VC	6	10
cVOC	1,1-Dichloroethene	CP-99-08	2.2		MG/L	0.096	SWPC	133	135
cVOC	1,1-Dichloroethene	WP-99-47	2.2		MG/L	0.096	SWPC	6	10
cVOC	1,1-Dichloroethene	WP-99-43	2.4		MG/L	0.92	GW I/C VC	16	20
cVOC	1,1-Dichloroethene	WP-99-43	2.4		MG/L	0.19	GW RES VC	16	20
cVOC	1,1-Dichloroethene	WP-99-43	2.4		MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	WP-99-35	2.5		MG/L	0.92	GW I/C VC	22	26
cVOC	1,1-Dichloroethene	WP-99-35	2.5		MG/L	0.19	GW RES VC	22	26
cVOC	1,1-Dichloroethene	WP-99-35	2.5		MG/L	0.096	SWPC	22	26
cVOC	1,1-Dichloroethene	CP-99-08	3.1		MG/L	0.096	SWPC	156	158
cVOC	1,1-Dichloroethene	PZ-99-03	3.5		MG/L	0.92	GW I/C VC	4	9
cVOC	1,1-Dichloroethene	PZ-99-03	3.5		MG/L	0.19	GW RES VC	4	9
cVOC	1,1-Dichloroethene	PZ-99-03	3.5		MG/L	0.096	SWPC	4	9
cVOC	1,1-Dichloroethene	WP-99-41	3.7		MG/L	0.92	GW I/C VC	18	22
cVOC	1,1-Dichloroethene	WP-99-41	3.7		MG/L	0.19	GW RES VC	18	22
cVOC	1,1-Dichloroethene	WP-99-41	3.7		MG/L	0.096	SWPC	18	22
cVOC	1,1-Dichloroethene	DP6-3	3.9		MG/L	0.92	GW I/C VC	5	8
cVOC	1,1-Dichloroethene	WP-99-47	3.9		MG/L	0.92	GW I/C VC	17	21
cVOC	1,1-Dichloroethene	DP6-3	3.9		MG/L	0.19	GW RES VC	5	8
cVOC	1,1-Dichloroethene	WP-99-47	3.9		MG/L	0.19	GW RES VC	17	21

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	1,1-Dichloroethene	WP-99-47	3.9		MG/L	0.096	SWPC	17	21
cVOC	1,1-Dichloroethene	DP6-3	3.9		MG/L	0.096	SWPC	5	8
cVOC	1,1-Dichloroethene	HESE-01-06I	4.4		MG/L	0.92	GW I/C VC	19.8	29.8
cVOC	1,1-Dichloroethene	WP-99-53	4.4		MG/L	0.92	GW I/C VC	16	20
cVOC	1,1-Dichloroethene	WP-99-53	4.4		MG/L	0.19	GW RES VC	16	20
cVOC	1,1-Dichloroethene	HESE-01-06I	4.4		MG/L	0.19	GW RES VC	19.8	29.8
cVOC	1,1-Dichloroethene	HESE-01-06I	4.4		MG/L	0.096	SWPC	19.8	29.8
cVOC	1,1-Dichloroethene	WP-99-53	4.4		MG/L	0.096	SWPC	16	20
cVOC	1,1-Dichloroethene	WP-99-45	4.5		MG/L	0.92	GW I/C VC	11	15
cVOC	1,1-Dichloroethene	WP-99-45	4.5		MG/L	0.19	GW RES VC	11	15
cVOC	1,1-Dichloroethene	WP-99-45	4.5		MG/L	0.096	SWPC	11	15
cVOC	1,1-Dichloroethene	WP-99-47	4.8		MG/L	0.92	GW I/C VC	17	21
cVOC	1,1-Dichloroethene	WP-99-47	4.8		MG/L	0.19	GW RES VC	17	21
cVOC	1,1-Dichloroethene	WP-99-47	4.8		MG/L	0.096	SWPC	17	21
cVOC	1,1-Dichloroethene	CP-99-08	7.5		MG/L	0.096	SWPC	44	46
cVOC	1,1-Dichloroethene	HESE-01-07I	7.7		MG/L	0.92	GW I/C VC	19.7	29.7
cVOC	1,1-Dichloroethene	HESE-01-07I	7.7		MG/L	0.19	GW RES VC	19.7	29.7
cVOC	1,1-Dichloroethene	HESE-01-07I	7.7		MG/L	0.096	SWPC	19.7	29.7
cVOC	1,1-Dichloroethene	DP3-2	7.8		MG/L	0.096	SWPC	32	35
cVOC	1,1-Dichloroethene	CP-99-17	8.1	E	MG/L	0.096	SWPC	30	32
cVOC	1,1-Dichloroethene	WP-99-48	8.5		MG/L	0.92	GW I/C VC	5	9
cVOC	1,1-Dichloroethene	WP-99-48	8.5		MG/L	0.19	GW RES VC	5	9
cVOC	1,1-Dichloroethene	WP-99-48	8.5		MG/L	0.096	SWPC	5	9
cVOC	1,1-Dichloroethene	CP-99-17	8.9	E	MG/L	0.92	GW I/C VC	18	20
cVOC	1,1-Dichloroethene	CP-99-17	8.9	E	MG/L	0.19	GW RES VC	18	20
cVOC	1,1-Dichloroethene	HESE-01-12D	8.9		MG/L	0.096	SWPC	145.8	155.8
cVOC	1,1-Dichloroethene	CP-99-17	8.9	E	MG/L	0.096	SWPC	18	20
cVOC	1,1-Dichloroethene	CP-99-08	9		MG/L	0.096	SWPC	32	34
cVOC	1,1-Dichloroethene	WP-99-48	14		MG/L	0.92	GW I/C VC	15	19
cVOC	1,1-Dichloroethene	WP-99-48	14		MG/L	0.19	GW RES VC	15	19
cVOC	1,1-Dichloroethene	WP-99-48	14		MG/L	0.096	SWPC	15	19
cVOC	1,1-Dichloroethene	HESE-01-12I	42		MG/L	0.096	SWPC	34.4	44.4
cVOC	1,2-Dichloroethane	DP2-9	0.013		MG/L	0.0065	GW RES VC	20	23
cVOC	1,2-Dichloroethane	CP-99-06	0.017	E	MG/L	0.0065	GW RES VC	28	30

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	1,2-Dichloroethane	HESE-01-06I	0.024		MG/L	0.0065	GW RES VC	19.8	29.8
cVOC	1,2-Dichloroethane	PZ-11D	0.048		MG/L	0.0065	GW RES VC	24	34
cVOC	1,2-Dichloroethane	HESE-01-12I	3.9	J	MG/L	2.97	SWPC	34.4	44.4
cVOC	Chloroform	WP-99-09	0.14		MG/L	0.062	GW I/C VC	25	29
cVOC	Chloroform	WP-99-09	0.14		MG/L	0.026	GW RES VC	25	29
cVOC	Chloroform	HESE-01-16I	0.22	J	MG/L	0.062	GW I/C VC	23.9	33.9
cVOC	Chloroform	HESE-01-16I	0.22	J	MG/L	0.026	GW RES VC	23.9	33.9
cVOC	cis-1,2-Dichloroethene	WP-99-61	0.84		MG/L	0.83	GW RES VC	24	28
cVOC	cis-1,2-Dichloroethene	DP2-6	0.9		MG/L	0.83	GW RES VC	27	30
cVOC	cis-1,2-Dichloroethene	PZ-16D	0.93		MG/L	0.83	GW RES VC	21	31
cVOC	cis-1,2-Dichloroethene	PZ-9D	0.96		MG/L	0.83	GW RES VC	24	34
cVOC	cis-1,2-Dichloroethene	DP3-9	0.97		MG/L	0.83	GW RES VC	17	20
cVOC	cis-1,2-Dichloroethene	WP-99-37	1	J	MG/L	0.83	GW RES VC	16	20
cVOC	cis-1,2-Dichloroethene	WC-2D	1		MG/L	0.83	GW RES VC	24.5	34.5
cVOC	cis-1,2-Dichloroethene	WP-99-45	1.2		MG/L	0.83	GW RES VC	11	15
cVOC	cis-1,2-Dichloroethene	WP-99-48	1.2		MG/L	0.83	GW RES VC	15	19
cVOC	cis-1,2-Dichloroethene	DP2-8	1.275		MG/L	0.83	GW RES VC	27	30
cVOC	cis-1,2-Dichloroethene	WP-99-70	1.3		MG/L	0.83	GW RES VC	26	30
cVOC	cis-1,2-Dichloroethene	DP2-8	1.575		MG/L	0.83	GW RES VC	17	20
cVOC	cis-1,2-Dichloroethene	WP-99-69	2.1		MG/L	0.83	GW RES VC	16	20
cVOC	cis-1,2-Dichloroethene	DP2-7	2.7		MG/L	0.83	GW RES VC	27	30
cVOC	cis-1,2-Dichloroethene	WP-99-69	2.7		MG/L	0.83	GW RES VC	26	30
cVOC	cis-1,2-Dichloroethene	CP-99-06	3.5		MG/L	0.83	GW RES VC	28	30
cVOC	cis-1,2-Dichloroethene	WP-99-68	5.5		MG/L	0.83	GW RES VC	26	30
cVOC	cis-1,2-Dichloroethene	D-4-3	6.6		MG/L	0.83	GW RES VC	1.5	1.5
cVOC	cis-1,2-Dichloroethene	HESE-01-07I	6.7		MG/L	0.83	GW RES VC	19.7	29.7
cVOC	cis-1,2-Dichloroethene	HESE-01-06I	9.4		MG/L	0.83	GW RES VC	19.8	29.8
cVOC	cis-1,2-Dichloroethene	HESE-01-16I	14		MG/L	11	GW I/C VC	23.9	33.9
cVOC	cis-1,2-Dichloroethene	HESE-01-16I	14		MG/L	0.83	GW RES VC	23.9	33.9
cVOC	cis-1,2-Dichloroethene	D-4	46		MG/L	11	GW I/C VC	1.5	1.5
cVOC	cis-1,2-Dichloroethene	D-4	46		MG/L	0.83	GW RES VC	1.5	1.5
cVOC	Tetrachloroethene	DP3-8	0.09		MG/L	0.088	SWPC	17	20
cVOC	Tetrachloroethene	DP2-4	0.095		MG/L	0.088	SWPC	52	55
cVOC	Tetrachloroethene	DP5-1	0.096		MG/L	0.088	SWPC	57	60

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Tetrachloroethene	DP5-5	0.1		MG/L	0.088	SWPC	47	50
cVOC	Tetrachloroethene	WP-99-61	0.1		MG/L	0.088	SWPC	24	28
cVOC	Tetrachloroethene	DP5-1	0.102		MG/L	0.088	SWPC	28	31
cVOC	Tetrachloroethene	DP3-5	0.11		MG/L	0.088	SWPC	17	20
cVOC	Tetrachloroethene	WC-19S	0.11		MG/L	0.088	SWPC	3	13
cVOC	Tetrachloroethene	WP-99-43	0.12		MG/L	0.088	SWPC	36	40
cVOC	Tetrachloroethene	DP5-3	0.12		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	WP-99-43	0.12		MG/L	0.088	SWPC	16	20
cVOC	Tetrachloroethene	WP-99-09	0.12		MG/L	0.088	SWPC	25	29
cVOC	Tetrachloroethene	DP5-7	0.125		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	PZ-99-04I	0.13		MG/L	0.088	SWPC	30	35
cVOC	Tetrachloroethene	WP-99-62	0.13		MG/L	0.088	SWPC	16	20
cVOC	Tetrachloroethene	WP-99-47	0.13		MG/L	0.088	SWPC	6	10
cVOC	Tetrachloroethene	WP-99-56	0.14		MG/L	0.088	SWPC	48	52
cVOC	Tetrachloroethene	DP5-2	0.14		MG/L	0.088	SWPC	17	20
cVOC	Tetrachloroethene	DP5-5	0.15		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	WP-99-62	0.15		MG/L	0.088	SWPC	26	30
cVOC	Tetrachloroethene	DP3-9	0.15		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	WP-99-50	0.16		MG/L	0.088	SWPC	51	55
cVOC	Tetrachloroethene	WP-99-50	0.16		MG/L	0.088	SWPC	50	54
cVOC	Tetrachloroethene	DP5-3	0.16		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	DP5-10	0.165		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	DP2-9	0.165		MG/L	0.088	SWPC	20	23
cVOC	Tetrachloroethene	PZ-TF-10B	0.17		MG/L	0.088	SWPC	38	48
cVOC	Tetrachloroethene	DP3-8	0.17		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	DP5-8	0.18		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	WP-99-54	0.21		MG/L	0.088	SWPC	16	20
cVOC	Tetrachloroethene	DP5-9	0.215		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	DP2-8	0.24		MG/L	0.088	SWPC	47	50
cVOC	Tetrachloroethene	DP5-1	0.244		MG/L	0.088	SWPC	5	8
cVOC	Tetrachloroethene	WC3-2I	0.25		MG/L	0.088	SWPC	30	40
cVOC	Tetrachloroethene	WP-99-36	0.26		MG/L	0.088	SWPC	44	48
cVOC	Tetrachloroethene	DP3-9	0.26		MG/L	0.088	SWPC	17	20
cVOC	Tetrachloroethene	DP2-7	0.275		MG/L	0.088	SWPC	17	20

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Tetrachloroethene	DP3-3	0.275		MG/L	0.088	SWPC	21	24
cVOC	Tetrachloroethene	DP2-7	0.29		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	WC-19D1	0.29		MG/L	0.088	SWPC	30	40
cVOC	Tetrachloroethene	WP-99-41	0.3		MG/L	0.088	SWPC	36	40
cVOC	Tetrachloroethene	DP6-2	0.325		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	DP2-4	0.33		MG/L	0.088	SWPC	32	35
cVOC	Tetrachloroethene	WC2-6I	0.33		MG/L	0.088	SWPC	40	50
cVOC	Tetrachloroethene	DP5-7	0.34		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	DP2-8	0.35		MG/L	0.34	GW RES VC	17	20
cVOC	Tetrachloroethene	DP5-6	0.35		MG/L	0.088	SWPC	57	60
cVOC	Tetrachloroethene	DP2-8	0.35		MG/L	0.088	SWPC	17	20
cVOC	Tetrachloroethene	HESE-01-16I	0.36	J	MG/L	0.34	GW RES VC	23.9	33.9
cVOC	Tetrachloroethene	HESE-01-16I	0.36	J	MG/L	0.088	SWPC	23.9	33.9
cVOC	Tetrachloroethene	DP2-4	0.39		MG/L	0.088	SWPC	42	45
cVOC	Tetrachloroethene	WP-99-54	0.4		MG/L	0.34	GW RES VC	26	30
cVOC	Tetrachloroethene	HESE-01-18D	0.4		MG/L	0.088	SWPC	38.9	48.9
cVOC	Tetrachloroethene	WP-99-54	0.4		MG/L	0.088	SWPC	26	30
cVOC	Tetrachloroethene	DP5-4	0.41		MG/L	0.34	GW RES VC	27	30
cVOC	Tetrachloroethene	DP2-4	0.41		MG/L	0.34	GW RES VC	22	25
cVOC	Tetrachloroethene	DP2-4	0.41		MG/L	0.088	SWPC	22	25
cVOC	Tetrachloroethene	DP5-4	0.41		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	WP-99-43	0.42		MG/L	0.34	GW RES VC	26	30
cVOC	Tetrachloroethene	WP-99-41	0.42		MG/L	0.34	GW RES VC	26	30
cVOC	Tetrachloroethene	DP2-7	0.42		MG/L	0.34	GW RES VC	27	30
cVOC	Tetrachloroethene	WP-99-41	0.42		MG/L	0.088	SWPC	26	30
cVOC	Tetrachloroethene	WP-99-43	0.42		MG/L	0.088	SWPC	26	30
cVOC	Tetrachloroethene	DP2-7	0.42		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	DP3-6	0.428		MG/L	0.088	SWPC	33	36
cVOC	Tetrachloroethene	PZ-11D	0.43		MG/L	0.34	GW RES VC	24	34
cVOC	Tetrachloroethene	PZ-11D	0.43		MG/L	0.088	SWPC	24	34
cVOC	Tetrachloroethene	PZ-1D	0.44		MG/L	0.34	GW RES VC	24	34
cVOC	Tetrachloroethene	PZ-1D	0.44		MG/L	0.088	SWPC	24	34
cVOC	Tetrachloroethene	DP5-2	0.45		MG/L	0.34	GW RES VC	27	30
cVOC	Tetrachloroethene	DP5-2	0.45		MG/L	0.088	SWPC	27	30

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Tetrachloroethene	DP2-8	0.51		MG/L	0.088	SWPC	57	60
cVOC	Tetrachloroethene	DP3-2	0.56		MG/L	0.34	GW RES VC	18	21
cVOC	Tetrachloroethene	DP3-2	0.56		MG/L	0.088	SWPC	18	21
cVOC	Tetrachloroethene	WP-99-44	0.58		MG/L	0.34	GW RES VC	25	29
cVOC	Tetrachloroethene	WP-99-44	0.58		MG/L	0.088	SWPC	25	29
cVOC	Tetrachloroethene	DP2-8	0.585		MG/L	0.088	SWPC	37	40
cVOC	Tetrachloroethene	PZ-13D	0.59		MG/L	0.34	GW RES VC	21.5	31.5
cVOC	Tetrachloroethene	PZ-13D	0.59		MG/L	0.088	SWPC	21.5	31.5
cVOC	Tetrachloroethene	DP3-7	0.6		MG/L	0.34	GW RES VC	27	30
cVOC	Tetrachloroethene	DP3-7	0.6		MG/L	0.34	GW RES VC	27	30
cVOC	Tetrachloroethene	DP3-7	0.6		MG/L	0.34	GW RES VC	17	20
cVOC	Tetrachloroethene	DP3-7	0.6		MG/L	0.088	SWPC	17	20
cVOC	Tetrachloroethene	DP3-7	0.6		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	DP3-7	0.6		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	WP-99-53	0.67		MG/L	0.34	GW RES VC	28	32
cVOC	Tetrachloroethene	WP-99-53	0.67		MG/L	0.088	SWPC	28	32
cVOC	Tetrachloroethene	DP3-4	0.71		MG/L	0.34	GW RES VC	18	21
cVOC	Tetrachloroethene	DP3-4	0.71		MG/L	0.088	SWPC	18	21
cVOC	Tetrachloroethene	DP2-8	0.75		MG/L	0.34	GW RES VC	27	30
cVOC	Tetrachloroethene	DP2-8	0.75		MG/L	0.088	SWPC	27	30
cVOC	Tetrachloroethene	WP-99-37	1	J	MG/L	0.81	GW I/C VC	16	20
cVOC	Tetrachloroethene	WP-99-37	1	J	MG/L	0.34	GW RES VC	16	20
cVOC	Tetrachloroethene	WP-99-37	1	J	MG/L	0.088	SWPC	16	20
cVOC	Tetrachloroethene	WP-99-47	1.1		MG/L	0.81	GW I/C VC	17	21
cVOC	Tetrachloroethene	WP-99-47	1.1		MG/L	0.34	GW RES VC	17	21
cVOC	Tetrachloroethene	WP-99-62	1.1		MG/L	0.088	SWPC	46	50
cVOC	Tetrachloroethene	WP-99-47	1.1		MG/L	0.088	SWPC	17	21
cVOC	Tetrachloroethene	DP3-4	1.2		MG/L	0.088	SWPC	30	33
cVOC	Tetrachloroethene	WC3-1I	1.4		MG/L	0.088	SWPC	30	40
cVOC	Tetrachloroethene	DP2-7	1.6		MG/L	0.088	SWPC	47	50
cVOC	Tetrachloroethene	WP-99-45	1.9		MG/L	0.81	GW I/C VC	11	15
cVOC	Tetrachloroethene	WP-99-45	1.9		MG/L	0.34	GW RES VC	11	15
cVOC	Tetrachloroethene	WP-99-45	1.9		MG/L	0.088	SWPC	11	15
cVOC	Tetrachloroethene	DP3-2	2.4		MG/L	0.088	SWPC	32	35

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Tetrachloroethene	DP3-2	4.3		MG/L	0.81	GW I/C VC	5	8
cVOC	Tetrachloroethene	DP3-2	4.3		MG/L	0.34	GW RES VC	5	8
cVOC	Tetrachloroethene	DP3-2	4.3		MG/L	0.088	SWPC	5	8
cVOC	trans-1,2-Dichloroethene	DP3-2	1.3		MG/L	1	GW RES VC	5	8
cVOC	Trichloroethene	WP-99-49	0.028		MG/L	0.027	GW RES VC	4	8
cVOC	Trichloroethene	DP5-6	0.028		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	HESE-01-GP01	0.029		MG/L	0.027	GW RES VC	28	32
cVOC	Trichloroethene	DP3-5	0.032		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	CP-99-18	0.035		MG/L	0.027	GW RES VC	11	13
cVOC	Trichloroethene	WC5-1S	0.036		MG/L	0.027	GW RES VC	1.5	11.5
cVOC	Trichloroethene	DP3-4	0.036		MG/L	0.027	GW RES VC	18	21
cVOC	Trichloroethene	DP5-8	0.036		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	DP2-2	0.04	J	MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	DP5-9	0.04		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	PZ-TF-02A	0.042		MG/L	0.027	GW RES VC	4	14
cVOC	Trichloroethene	DP5-8	0.043		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP3-9	0.046		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP3-9	0.046		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP3-8	0.047		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP3-8	0.047		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP6-4	0.05		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP5-10	0.05		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	DP5-3	0.055		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP5-10	0.055		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP2-2	0.058	J	MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP2-9	0.058		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	DP5-9	0.063		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP5-2	0.066		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	DP3-2	0.07		MG/L	0.067	GW I/C VC	18	21
cVOC	Trichloroethene	DP3-2	0.07		MG/L	0.027	GW RES VC	18	21
cVOC	Trichloroethene	DP5-1	0.071		MG/L	0.067	GW I/C VC	5	8
cVOC	Trichloroethene	DP5-1	0.071		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	WC-12S	0.081		MG/L	0.067	GW I/C VC	3	13
cVOC	Trichloroethene	WC-12S	0.081		MG/L	0.027	GW RES VC	3	13

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	DP5-1	0.094		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	DP5-1	0.094		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	MW-1	0.095		MG/L	0.067	GW I/C VC	5	15
cVOC	Trichloroethene	MW-1	0.095		MG/L	0.027	GW RES VC	5	15
cVOC	Trichloroethene	DP5-8	0.098		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP5-8	0.098		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP5-3	0.11		MG/L	0.067	GW I/C VC	7	10
cVOC	Trichloroethene	WP-99-08	0.11	H	MG/L	0.067	GW I/C VC	8	12
cVOC	Trichloroethene	WP-99-08	0.11	H	MG/L	0.027	GW RES VC	8	12
cVOC	Trichloroethene	DP5-3	0.11		MG/L	0.027	GW RES VC	7	10
cVOC	Trichloroethene	WP-99-64	0.12		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-64	0.12		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	DP3-2	0.13		MG/L	0.067	GW I/C VC	5	8
cVOC	Trichloroethene	DP3-2	0.13		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	WP-99-61	0.15		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-56	0.15		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	DP6-3	0.15		MG/L	0.067	GW I/C VC	5	8
cVOC	Trichloroethene	DP2-6	0.15		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	WP-99-56	0.15		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-61	0.15		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP2-6	0.15		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP6-3	0.15		MG/L	0.027	GW RES VC	5	8
cVOC	Trichloroethene	WP-99-49	0.16		MG/L	0.067	GW I/C VC	17	21
cVOC	Trichloroethene	WP-99-62	0.16		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-62	0.16		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	WP-99-49	0.16		MG/L	0.027	GW RES VC	17	21
cVOC	Trichloroethene	WP-99-53	0.17		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-53	0.17		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	DP5-1	0.176		MG/L	0.067	GW I/C VC	28	31
cVOC	Trichloroethene	DP5-1	0.176		MG/L	0.027	GW RES VC	28	31
cVOC	Trichloroethene	WP-99-47	0.18		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-47	0.18		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	DP5-2	0.2		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	WP-99-70	0.2		MG/L	0.067	GW I/C VC	16	20

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	WP-99-70	0.2		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP5-2	0.2		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	WP-99-62	0.21		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-62	0.21		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	DP5-7	0.23		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP5-7	0.23		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	WP-99-54	0.25		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-71	0.25		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-71	0.25		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	WP-99-54	0.25		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	WP-99-55	0.27		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-39	0.27		MG/L	0.067	GW I/C VC	23	27
cVOC	Trichloroethene	WP-99-69	0.27		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-69	0.27		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	WP-99-55	0.27		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	WP-99-39	0.27		MG/L	0.027	GW RES VC	23	27
cVOC	Trichloroethene	PZ-11D	0.28		MG/L	0.067	GW I/C VC	24	34
cVOC	Trichloroethene	PZ-11D	0.28		MG/L	0.027	GW RES VC	24	34
cVOC	Trichloroethene	WC-5S	0.29	J	MG/L	0.067	GW I/C VC	3	13
cVOC	Trichloroethene	WC-5S	0.29	J	MG/L	0.027	GW RES VC	3	13
cVOC	Trichloroethene	WP-99-61	0.3		MG/L	0.067	GW I/C VC	24	28
cVOC	Trichloroethene	WP-99-61	0.3		MG/L	0.027	GW RES VC	24	28
cVOC	Trichloroethene	HESE-01-06I	0.31		MG/L	0.067	GW I/C VC	19.8	29.8
cVOC	Trichloroethene	HESE-01-06I	0.31		MG/L	0.027	GW RES VC	19.8	29.8
cVOC	Trichloroethene	WP-99-68	0.32		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-68	0.32		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	DP2-9	0.333		MG/L	0.067	GW I/C VC	20	23
cVOC	Trichloroethene	DP2-9	0.333		MG/L	0.027	GW RES VC	20	23
cVOC	Trichloroethene	DP5-3	0.35		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	WP-99-58	0.35		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	DP5-3	0.35		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	WP-99-58	0.35		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	WP-99-68	0.38		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-68	0.38		MG/L	0.027	GW RES VC	16	20

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	WP-99-42	0.4		MG/L	0.067	GW I/C VC	19	23
cVOC	Trichloroethene	WP-99-42	0.4		MG/L	0.027	GW RES VC	19	23
cVOC	Trichloroethene	WP-99-71	0.42		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-71	0.42		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	WP-99-71	0.44		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-71	0.44		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	DP2-7	0.475		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	DP2-7	0.475		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	WP-99-54	0.5		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-54	0.5		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	DP5-4	0.53		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP5-4	0.53		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	WP-99-34	0.6		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-34	0.6		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	WP-99-68	0.61		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-68	0.61		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-34	0.63		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-34	0.63		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP5-2	0.65		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP5-2	0.65		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP2-4	0.74		MG/L	0.067	GW I/C VC	22	25
cVOC	Trichloroethene	DP2-4	0.74		MG/L	0.027	GW RES VC	22	25
cVOC	Trichloroethene	DP3-7	0.94		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	DP3-7	0.94		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	WP-99-41	0.98		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-41	0.98		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	WP-99-37	1	J	MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-37	1	J	MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP2-8	1.05		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	DP2-8	1.05		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP3-7	1.1		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP3-7	1.1		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	DP3-7	1.1		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	PZ-13D	1.1		MG/L	0.067	GW I/C VC	21.5	31.5

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	WP-99-40	1.1		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-40	1.1		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP3-7	1.1		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP3-7	1.1		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP3-7	1.1		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	PZ-13D	1.1		MG/L	0.027	GW RES VC	21.5	31.5
cVOC	Trichloroethene	WP-99-43	1.2		MG/L	0.067	GW I/C VC	6	10
cVOC	Trichloroethene	WP-99-43	1.2		MG/L	0.027	GW RES VC	6	10
cVOC	Trichloroethene	WP-99-53	1.3		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-53	1.3		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	WP-99-36	1.4		MG/L	0.067	GW I/C VC	18	22
cVOC	Trichloroethene	WP-99-70	1.4		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-70	1.4		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-36	1.4		MG/L	0.027	GW RES VC	18	22
cVOC	Trichloroethene	WP-99-48	1.5		MG/L	0.067	GW I/C VC	5	9
cVOC	Trichloroethene	WP-99-48	1.5		MG/L	0.027	GW RES VC	5	9
cVOC	Trichloroethene	DP3-8	1.6		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	CP-99-06	1.6		MG/L	0.067	GW I/C VC	28	30
cVOC	Trichloroethene	CP-99-06	1.6		MG/L	0.027	GW RES VC	28	30
cVOC	Trichloroethene	DP3-8	1.6		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	WP-99-43	1.7		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-43	1.7		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-43	1.8		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-43	1.8		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP3-10	1.9		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	WP-99-41	1.9		MG/L	0.067	GW I/C VC	18	22
cVOC	Trichloroethene	WP-99-47	1.9		MG/L	0.067	GW I/C VC	17	21
cVOC	Trichloroethene	WP-99-47	1.9		MG/L	0.027	GW RES VC	17	21
cVOC	Trichloroethene	WP-99-41	1.9		MG/L	0.027	GW RES VC	18	22
cVOC	Trichloroethene	DP3-10	1.9		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	WP-99-69	2.3		MG/L	0.067	GW I/C VC	16	20
cVOC	Trichloroethene	WP-99-69	2.3		MG/L	0.027	GW RES VC	16	20
cVOC	Trichloroethene	DP2-8	2.4		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP2-8	2.4		MG/L	0.027	GW RES VC	27	30

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	DP2-8	2.4		MG/L	2.34	SWPC	27	30
cVOC	Trichloroethene	PZ-9D	2.5		MG/L	0.067	GW I/C VC	24	34
cVOC	Trichloroethene	WP-99-69	2.5		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-69	2.5		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	PZ-9D	2.5		MG/L	0.027	GW RES VC	24	34
cVOC	Trichloroethene	DP3-10	2.5		MG/L	2.34	SWPC	37	40
cVOC	Trichloroethene	WP-99-69	2.5		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	PZ-9D	2.5		MG/L	2.34	SWPC	24	34
cVOC	Trichloroethene	DP3-11	2.6		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP3-11	2.6		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP3-11	2.6		MG/L	2.34	SWPC	27	30
cVOC	Trichloroethene	WC2-6I	2.7		MG/L	2.34	SWPC	40	50
cVOC	Trichloroethene	HESE-01-12D	2.8		MG/L	2.34	SWPC	145.8	155.8
cVOC	Trichloroethene	WP-99-33	2.9		MG/L	2.34	SWPC	46	50
cVOC	Trichloroethene	WP-99-54	3		MG/L	2.34	SWPC	46	50
cVOC	Trichloroethene	DP2-7	3.1		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP2-7	3.1		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP2-7	3.1		MG/L	2.34	SWPC	27	30
cVOC	Trichloroethene	HESE-01-GP01	3.3	D	MG/L	2.34	SWPC	38	42
cVOC	Trichloroethene	PZ-TF-10B	3.8		MG/L	2.34	SWPC	38	48
cVOC	Trichloroethene	DP2-7	3.9		MG/L	2.34	SWPC	47	50
cVOC	Trichloroethene	DP2-7	4.1		MG/L	2.34	SWPC	37	40
cVOC	Trichloroethene	WP-99-63	4.4		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-63	4.4		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-63	4.4		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	DP3-9	4.7		MG/L	0.067	GW I/C VC	17	20
cVOC	Trichloroethene	DP3-9	4.7		MG/L	0.027	GW RES VC	17	20
cVOC	Trichloroethene	DP3-9	4.7		MG/L	2.34	SWPC	17	20
cVOC	Trichloroethene	WP-99-44	4.9		MG/L	0.067	GW I/C VC	25	29
cVOC	Trichloroethene	WP-99-44	4.9		MG/L	0.027	GW RES VC	25	29
cVOC	Trichloroethene	WP-99-44	4.9		MG/L	2.34	SWPC	25	29
cVOC	Trichloroethene	WP-99-38	5		MG/L	0.067	GW I/C VC	22	26
cVOC	Trichloroethene	WP-99-38	5		MG/L	0.027	GW RES VC	22	26
cVOC	Trichloroethene	WP-99-38	5		MG/L	2.34	SWPC	22	26

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	DP3-11	5.3		MG/L	2.34	SWPC	37	40
cVOC	Trichloroethene	WP-99-45	5.9		MG/L	0.067	GW I/C VC	11	15
cVOC	Trichloroethene	WP-99-48	5.9		MG/L	0.067	GW I/C VC	15	19
cVOC	Trichloroethene	WP-99-48	5.9		MG/L	0.027	GW RES VC	15	19
cVOC	Trichloroethene	WP-99-45	5.9		MG/L	0.027	GW RES VC	11	15
cVOC	Trichloroethene	WP-99-48	5.9		MG/L	2.34	SWPC	15	19
cVOC	Trichloroethene	WP-99-45	5.9		MG/L	2.34	SWPC	11	15
cVOC	Trichloroethene	PZ-1D	6.6		MG/L	0.067	GW I/C VC	24	34
cVOC	Trichloroethene	PZ-1D	6.6		MG/L	0.027	GW RES VC	24	34
cVOC	Trichloroethene	PZ-1D	6.6		MG/L	2.34	SWPC	24	34
cVOC	Trichloroethene	DP3-9	7		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP3-9	7		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP3-9	7		MG/L	2.34	SWPC	27	30
cVOC	Trichloroethene	WP-99-49	7.1		MG/L	2.34	SWPC	39	43
cVOC	Trichloroethene	WP-99-41	7.6		MG/L	2.34	SWPC	36	40
cVOC	Trichloroethene	WP-99-53	7.9		MG/L	0.067	GW I/C VC	28	32
cVOC	Trichloroethene	WP-99-53	7.9		MG/L	0.027	GW RES VC	28	32
cVOC	Trichloroethene	WP-99-53	7.9		MG/L	2.34	SWPC	28	32
cVOC	Trichloroethene	WP-99-50	8.4		MG/L	0.067	GW I/C VC	9	13
cVOC	Trichloroethene	WP-99-50	8.4		MG/L	0.027	GW RES VC	9	13
cVOC	Trichloroethene	WP-99-50	8.4		MG/L	2.34	SWPC	9	13
cVOC	Trichloroethene	HESE-01-18D	9.4		MG/L	2.34	SWPC	38.9	48.9
cVOC	Trichloroethene	HESE-01-07I	9.8		MG/L	0.067	GW I/C VC	19.7	29.7
cVOC	Trichloroethene	HESE-01-07I	9.8		MG/L	0.027	GW RES VC	19.7	29.7
cVOC	Trichloroethene	HESE-01-07I	9.8		MG/L	2.34	SWPC	19.7	29.7
cVOC	Trichloroethene	PZ-99-02B	10	J	MG/L	2.34	SWPC	30	35
cVOC	Trichloroethene	CP-99-17	10	E	MG/L	2.34	SWPC	44	46
cVOC	Trichloroethene	WP-99-62	11		MG/L	2.34	SWPC	46	50
cVOC	Trichloroethene	WP-99-36	11		MG/L	2.34	SWPC	44	48
cVOC	Trichloroethene	WP-99-35	12		MG/L	0.067	GW I/C VC	22	26
cVOC	Trichloroethene	WP-99-35	12		MG/L	0.027	GW RES VC	22	26
cVOC	Trichloroethene	WP-99-33	12		MG/L	2.34	SWPC	36	40
cVOC	Trichloroethene	WP-99-35	12		MG/L	2.34	SWPC	22	26
cVOC	Trichloroethene	HESE-01-14I	15		MG/L	2.34	SWPC	36.9	46.9

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	DP3-8	16		MG/L	0.067	GW I/C VC	27	30
cVOC	Trichloroethene	DP3-8	16		MG/L	0.027	GW RES VC	27	30
cVOC	Trichloroethene	DP3-8	16		MG/L	2.34	SWPC	27	30
cVOC	Trichloroethene	WP-99-37	17		MG/L	2.34	SWPC	40	44
cVOC	Trichloroethene	WP-99-37	18		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-37	18		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-37	18		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	CP-99-08	19		MG/L	2.34	SWPC	44	46
cVOC	Trichloroethene	CP-99-08	19	E	MG/L	2.34	SWPC	133	135
cVOC	Trichloroethene	CP-99-08	20	E	MG/L	2.34	SWPC	156	158
cVOC	Trichloroethene	CP-99-10	21	E	MG/L	0.067	GW I/C VC	27	29
cVOC	Trichloroethene	CP-99-10	21	E	MG/L	0.027	GW RES VC	27	29
cVOC	Trichloroethene	CP-99-10	21	E	MG/L	2.34	SWPC	27	29
cVOC	Trichloroethene	WP-99-41	23		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-41	23		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-36	23		MG/L	2.34	SWPC	30	34
cVOC	Trichloroethene	WP-99-41	23		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	CP-99-08	28		MG/L	2.34	SWPC	32	34
cVOC	Trichloroethene	WP-99-72	28		MG/L	2.34	SWPC	30	34
cVOC	Trichloroethene	WP-99-40	29		MG/L	0.067	GW I/C VC	27	31
cVOC	Trichloroethene	WP-99-40	29		MG/L	0.027	GW RES VC	27	31
cVOC	Trichloroethene	WP-99-34	29	E	MG/L	2.34	SWPC	36	40
cVOC	Trichloroethene	WP-99-40	29		MG/L	2.34	SWPC	27	31
cVOC	Trichloroethene	WP-99-34	31		MG/L	2.34	SWPC	36	40
cVOC	Trichloroethene	WP-99-50	44		MG/L	2.34	SWPC	50	54
cVOC	Trichloroethene	WP-99-41	48		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-41	48		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-41	48		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	HESE-01-12I	90		MG/L	2.34	SWPC	34.4	44.4
cVOC	Trichloroethene	CP-99-17	92	E	MG/L	2.34	SWPC	30	32
cVOC	Trichloroethene	CP-99-17	94	E	MG/L	0.067	GW I/C VC	18	20
cVOC	Trichloroethene	CP-99-17	94	E	MG/L	0.027	GW RES VC	18	20
cVOC	Trichloroethene	CP-99-17	94	E	MG/L	2.34	SWPC	18	20
cVOC	Trichloroethene	WP-99-08	110	H	MG/L	0.067	GW I/C VC	26	30

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Trichloroethene	WP-99-08	110	H	MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-08	110	H	MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	WP-99-09	130	H	MG/L	0.067	GW I/C VC	25	29
cVOC	Trichloroethene	HESE-01-16I	130		MG/L	0.067	GW I/C VC	23.9	33.9
cVOC	Trichloroethene	WP-99-09	130	H	MG/L	0.027	GW RES VC	25	29
cVOC	Trichloroethene	HESE-01-16I	130		MG/L	0.027	GW RES VC	23.9	33.9
cVOC	Trichloroethene	WP-99-09	130	H	MG/L	2.34	SWPC	25	29
cVOC	Trichloroethene	HESE-01-16I	130		MG/L	2.34	SWPC	23.9	33.9
cVOC	Trichloroethene	PZ-99-04I	150		MG/L	2.34	SWPC	30	35
cVOC	Trichloroethene	WP-99-34	170	E	MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-34	170	E	MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-34	170	E	MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	WP-99-34	220		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-34	220		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-34	220		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	WP-99-45	246		MG/L	2.34	SWPC	36	40
cVOC	Trichloroethene	WP-99-45	264		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-45	264		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-45	264		MG/L	2.34	SWPC	26	30
cVOC	Trichloroethene	WP-99-33	830		MG/L	0.067	GW I/C VC	26	30
cVOC	Trichloroethene	WP-99-33	830		MG/L	0.027	GW RES VC	26	30
cVOC	Trichloroethene	WP-99-33	830		MG/L	2.34	SWPC	26	30
cVOC	Vinyl Chloride	PZ-13D	0.002		MG/L	0.0016	GW RES VC	21.5	31.5
cVOC	Vinyl Chloride	WC-10S	0.002		MG/L	0.0016	GW RES VC	3	13
cVOC	Vinyl Chloride	LW-4	0.0031		MG/L	0.0016	GW RES VC	24	34
cVOC	Vinyl Chloride	CP-99-11	0.0038		MG/L	0.0016	GW RES VC	14	16
cVOC	Vinyl Chloride	WP-99-35	0.004		MG/L	0.0016	GW RES VC	22	26
cVOC	Vinyl Chloride	PZ-9D	0.004		MG/L	0.0016	GW RES VC	24	34
cVOC	Vinyl Chloride	LW-3S	0.0044		MG/L	0.0016	GW RES VC	0	10
cVOC	Vinyl Chloride	DP5-4	0.005		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	CP-99-14	0.0057		MG/L	0.0016	GW RES VC	16	18
cVOC	Vinyl Chloride	LW-5SI	0.0069		MG/L	0.0016	GW RES VC	17	27
cVOC	Vinyl Chloride	WC-12S	0.008		MG/L	0.0016	GW RES VC	3	13
cVOC	Vinyl Chloride	DP2-4	0.0089		MG/L	0.0016	GW RES VC	22	25

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Vinyl Chloride	DP2-6	0.01		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	HESE-01-06I	0.01		MG/L	0.0016	GW RES VC	19.8	29.8
cVOC	Vinyl Chloride	DP2-1	0.011		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	DP2-3	0.013		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	WC2-4S	0.013		MG/L	0.0016	GW RES VC	2	12
cVOC	Vinyl Chloride	DP2-5	0.014		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	CP-99-06	0.014		MG/L	0.0016	GW RES VC	28	30
cVOC	Vinyl Chloride	MW-2	0.016		MG/L	0.0016	GW RES VC	5	15
cVOC	Vinyl Chloride	DP6-1	0.016		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	PZ-1D	0.018		MG/L	0.0016	GW RES VC	24	34
cVOC	Vinyl Chloride	DP6-3	0.02		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	DP2-2	0.02		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	DP2-8	0.021		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	DP5-3	0.024		MG/L	0.0016	GW RES VC	7	10
cVOC	Vinyl Chloride	DP2-9	0.03		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	WC2-4I	0.03		MG/L	0.0016	GW RES VC	25	35
cVOC	Vinyl Chloride	WC-4S	0.032		MG/L	0.0016	GW RES VC	3	13
cVOC	Vinyl Chloride	DP5-8	0.04		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	DP3-5	0.044		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	DP3-3	0.044		MG/L	0.0016	GW RES VC	21	24
cVOC	Vinyl Chloride	CP-99-12	0.047	EJ	MG/L	0.0016	GW RES VC	9	11
cVOC	Vinyl Chloride	CP-99-09	0.054	E	MG/L	0.052	GW I/C VC	9	11
cVOC	Vinyl Chloride	CP-99-09	0.054	E	MG/L	0.0016	GW RES VC	9	11
cVOC	Vinyl Chloride	DP2-7	0.062		MG/L	0.052	GW I/C VC	5	8
cVOC	Vinyl Chloride	DP2-7	0.062		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	CP-99-14	0.065		MG/L	0.052	GW I/C VC	29	31
cVOC	Vinyl Chloride	DP6-4	0.065		MG/L	0.052	GW I/C VC	17	20
cVOC	Vinyl Chloride	DP6-4	0.065		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	CP-99-14	0.065		MG/L	0.0016	GW RES VC	29	31
cVOC	Vinyl Chloride	DP2-7	0.075		MG/L	0.052	GW I/C VC	27	30
cVOC	Vinyl Chloride	DP2-7	0.075		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	DP2-6	0.078		MG/L	0.052	GW I/C VC	27	30
cVOC	Vinyl Chloride	DP2-6	0.078		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	DP2-6	0.09		MG/L	0.052	GW I/C VC	17	20

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Vinyl Chloride	DP2-6	0.09		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	DP2-8	0.107		MG/L	0.052	GW I/C VC	27	30
cVOC	Vinyl Chloride	DP2-8	0.107		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	WP-99-44	0.11		MG/L	0.052	GW I/C VC	25	29
cVOC	Vinyl Chloride	WP-99-44	0.11		MG/L	0.0016	GW RES VC	25	29
cVOC	Vinyl Chloride	DP2-5	0.13		MG/L	0.052	GW I/C VC	5	8
cVOC	Vinyl Chloride	DP2-5	0.13		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	WP-99-60	0.15		MG/L	0.052	GW I/C VC	16	20
cVOC	Vinyl Chloride	DP2-9	0.15		MG/L	0.052	GW I/C VC	20	23
cVOC	Vinyl Chloride	WP-99-60	0.15		MG/L	0.0016	GW RES VC	16	20
cVOC	Vinyl Chloride	DP2-9	0.15		MG/L	0.0016	GW RES VC	20	23
cVOC	Vinyl Chloride	CP-99-12	0.16	EJ	MG/L	0.052	GW I/C VC	19	21
cVOC	Vinyl Chloride	PZ-16D	0.16		MG/L	0.052	GW I/C VC	21	31
cVOC	Vinyl Chloride	PZ-16D	0.16		MG/L	0.0016	GW RES VC	21	31
cVOC	Vinyl Chloride	CP-99-12	0.16	EJ	MG/L	0.0016	GW RES VC	19	21
cVOC	Vinyl Chloride	DP2-8	0.175		MG/L	0.052	GW I/C VC	17	20
cVOC	Vinyl Chloride	DP2-8	0.175		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	DP6-4	0.2		MG/L	0.052	GW I/C VC	27	30
cVOC	Vinyl Chloride	DP6-4	0.2		MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	DP2-5	0.235		MG/L	0.052	GW I/C VC	17	20
cVOC	Vinyl Chloride	DP2-5	0.235		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	DP3-2	0.24		MG/L	0.052	GW I/C VC	5	8
cVOC	Vinyl Chloride	DP3-2	0.24		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	DP2-2	0.62		MG/L	0.052	GW I/C VC	17	20
cVOC	Vinyl Chloride	DP2-2	0.62		MG/L	0.0016	GW RES VC	17	20
cVOC	Vinyl Chloride	WC-2D	0.69		MG/L	0.052	GW I/C VC	24.5	34.5
cVOC	Vinyl Chloride	WC-2D	0.69		MG/L	0.0016	GW RES VC	24.5	34.5
cVOC	Vinyl Chloride	DP6-3	0.97		MG/L	0.052	GW I/C VC	5	8
cVOC	Vinyl Chloride	DP6-3	0.97		MG/L	0.0016	GW RES VC	5	8
cVOC	Vinyl Chloride	HESE-01-16I	0.98	J	MG/L	0.052	GW I/C VC	23.9	33.9
cVOC	Vinyl Chloride	HESE-01-16I	0.98	J	MG/L	0.0016	GW RES VC	23.9	33.9
cVOC	Vinyl Chloride	WP-99-37	1	J	MG/L	0.052	GW I/C VC	16	20
cVOC	Vinyl Chloride	WP-99-37	1	J	MG/L	0.0016	GW RES VC	16	20
cVOC	Vinyl Chloride	LW-5S	1.2		MG/L	0.052	GW I/C VC	0	10

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
cVOC	Vinyl Chloride	LW-5S	1.2		MG/L	0.0016	GW RES VC	0	10
cVOC	Vinyl Chloride	DP2-2	1.4	J	MG/L	0.052	GW I/C VC	27	30
cVOC	Vinyl Chloride	DP2-2	1.4	J	MG/L	0.0016	GW RES VC	27	30
cVOC	Vinyl Chloride	D-4-3	2.4		MG/L	0.052	GW I/C VC	1.5	1.5
cVOC	Vinyl Chloride	D-4-3	2.4		MG/L	0.0016	GW RES VC	1.5	1.5
cVOC	Vinyl Chloride	D-4	3		MG/L	0.052	GW I/C VC	1.5	1.5
cVOC	Vinyl Chloride	D-4	3		MG/L	0.0016	GW RES VC	1.5	1.5
PAH	Phenanthrene	DP2-1	0.0153	J	MG/L	0.000077	SWPC	4	7
RSR Inorganics	Arsenic	LW-1SI	0.0041	B	MG/L	0.004	SWPC	6.5	16.5
RSR Inorganics	Arsenic	PZ-1D	0.0047	J	MG/L	0.004	SWPC	24	34
RSR Inorganics	Arsenic	PZ-1D	0.0047	J	MG/L	0.004	SWPC	24	34
RSR Inorganics	Arsenic	WC-3S	0.005	J	MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC-3S	0.005	J	MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	PZ-16D	0.0051	J	MG/L	0.004	SWPC	21	31
RSR Inorganics	Arsenic	PZ-16D	0.0051	J	MG/L	0.004	SWPC	21	31
RSR Inorganics	Arsenic	LW-8	0.0054	B	MG/L	0.004	SWPC	0	10
RSR Inorganics	Arsenic	WC-4S	0.0055		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC-4S	0.0055		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC-5S	0.0057		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC-5S	0.0057		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC2-3I	0.0059	J	MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC2-3I	0.0059	J	MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC-1S	0.0061	J	MG/L	0.004	SWPC	4	14
RSR Inorganics	Arsenic	PZ-16D	0.0061		MG/L	0.004	SWPC	21	31
RSR Inorganics	Arsenic	WC-1S	0.0061	J	MG/L	0.004	SWPC	4	14
RSR Inorganics	Arsenic	PZ-16D	0.0061		MG/L	0.004	SWPC	21	31
RSR Inorganics	Arsenic	WC-4S	0.0066		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC-4S	0.0066		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC5-1D	0.0069		MG/L	0.004	SWPC	74.5	84.5
RSR Inorganics	Arsenic	WC5-1D	0.0069		MG/L	0.004	SWPC	74.5	84.5
RSR Inorganics	Arsenic	WC5-1D	0.0069		MG/L	0.004	SWPC	74.5	84.5
RSR Inorganics	Arsenic	WC5-1D	0.0069		MG/L	0.004	SWPC	74.5	84.5
RSR Inorganics	Arsenic	LW-5SI	0.007	B	MG/L	0.004	SWPC	17	27
RSR Inorganics	Arsenic	LW-3S	0.0072	B	MG/L	0.004	SWPC	0	10

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Arsenic	WC-14S	0.0074		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	WC2-2I	0.0074	J	MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC-1S	0.0074		MG/L	0.004	SWPC	4	14
RSR Inorganics	Arsenic	WC2-2I	0.0074	J	MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC-1S	0.0074		MG/L	0.004	SWPC	4	14
RSR Inorganics	Arsenic	WC-14S	0.0074		MG/L	0.004	SWPC	3	13
RSR Inorganics	Arsenic	LW-10S	0.0082	B	MG/L	0.004	SWPC	4	14
RSR Inorganics	Arsenic	WC2-5I	0.0083		MG/L	0.004	SWPC	30	40
RSR Inorganics	Arsenic	WC2-3I	0.0083		MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC2-5I	0.0083		MG/L	0.004	SWPC	30	40
RSR Inorganics	Arsenic	WC2-3I	0.0083		MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC2-1I	0.0086		MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC2-1I	0.0086		MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	LW-1S	0.0097	B	MG/L	0.004	SWPC	0	10
RSR Inorganics	Arsenic	LW-10D	0.0106		MG/L	0.004	SWPC	70	80
RSR Inorganics	Arsenic	WC-20D1	0.0119		MG/L	0.004	SWPC	30	50
RSR Inorganics	Arsenic	WC-20D1	0.0119		MG/L	0.004	SWPC	30	50
RSR Inorganics	Arsenic	LW-5D	0.012	B	MG/L	0.004	SWPC	89.5	99.5
RSR Inorganics	Arsenic	WC2-2I	0.0134		MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC2-2I	0.0134		MG/L	0.004	SWPC	45	55
RSR Inorganics	Arsenic	WC3-1I	0.0138		MG/L	0.004	SWPC	30	40
RSR Inorganics	Arsenic	WC3-1I	0.0138		MG/L	0.004	SWPC	30	40
RSR Inorganics	Arsenic	MWCD-99-01B	0.0154		MG/L	0.004	SWPC	50	60
RSR Inorganics	Arsenic	MWCD-99-01B	0.0154		MG/L	0.004	SWPC	50	60
RSR Inorganics	Arsenic	MW-2	0.017		MG/L	0.004	SWPC	2	15
RSR Inorganics	Arsenic	MW-2	0.017000001		MG/L	0.004	SWPC	2	15
RSR Inorganics	Arsenic	PZ-4D	0.017999999		MG/L	0.004	SWPC	29	39
RSR Inorganics	Arsenic	PZ-4D	0.018		MG/L	0.004	SWPC	29	39
RSR Inorganics	Arsenic	WC2-2D	0.02		MG/L	0.004	SWPC	51.5	61.5
RSR Inorganics	Arsenic	WC2-2D	0.02		MG/L	0.004	SWPC	51.5	61.5
RSR Inorganics	Arsenic	WC2-1D	0.024		MG/L	0.004	SWPC	140	150
RSR Inorganics	Arsenic	WC2-1D	0.024		MG/L	0.004	SWPC	140	150
RSR Inorganics	Arsenic	WC2-2D	0.0274		MG/L	0.004	SWPC	51.5	61.5
RSR Inorganics	Arsenic	WC2-2D	0.0274		MG/L	0.004	SWPC	51.5	61.5

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Arsenic	PZ-5D	0.037999999		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.037999999		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.037999999		MG/L	0.004	SWPC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.038		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.038		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.038		MG/L	0.004	SWPC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.0495		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.0495		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.0495		MG/L	0.004	SWPC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.0495		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.0495		MG/L	0.036	AWQC-SWCHRONIC	33	43
RSR Inorganics	Arsenic	PZ-5D	0.0495		MG/L	0.004	SWPC	33	43
RSR Inorganics	Arsenic	WC-9D2	0.05		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.05		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.05		MG/L	0.004	SWPC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.050000001		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.050000001		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.050000001		MG/L	0.004	SWPC	140	150
RSR Inorganics	Arsenic	LW-5S	0.052400002		MG/L	0.036	AWQC-SWCHRONIC	0	10
RSR Inorganics	Arsenic	LW-5S	0.052400002		MG/L	0.036	AWQC-SWCHRONIC	0	10
RSR Inorganics	Arsenic	LW-5S	0.052400002		MG/L	0.004	SWPC	0	10
RSR Inorganics	Arsenic	WC-20D2	0.0544		MG/L	0.036	AWQC-SWCHRONIC	30	50
RSR Inorganics	Arsenic	WC-20D2	0.0544		MG/L	0.036	AWQC-SWCHRONIC	30	50
RSR Inorganics	Arsenic	WC-20D2	0.0544		MG/L	0.004	SWPC	30	50
RSR Inorganics	Arsenic	WC-20D2	0.054400001		MG/L	0.036	AWQC-SWCHRONIC	30	50
RSR Inorganics	Arsenic	WC-20D2	0.054400001		MG/L	0.036	AWQC-SWCHRONIC	30	50
RSR Inorganics	Arsenic	WC-20D2	0.054400001		MG/L	0.004	SWPC	30	50
RSR Inorganics	Arsenic	WC-9D2	0.065099999		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.065099999		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.065099999		MG/L	0.004	SWPC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.0651		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.0651		MG/L	0.036	AWQC-SWCHRONIC	140	150
RSR Inorganics	Arsenic	WC-9D2	0.0651		MG/L	0.004	SWPC	140	150
RSR Inorganics	Arsenic	WC2-4I	0.0674		MG/L	0.036	AWQC-SWCHRONIC	25	35

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Arsenic	WC2-4I	0.0674		MG/L	0.036	AWQC-SWCHRONIC	25	35
RSR Inorganics	Arsenic	WC2-4I	0.0674		MG/L	0.004	SWPC	25	35
RSR Inorganics	Arsenic	WC2-4I	0.067400001		MG/L	0.036	AWQC-SWCHRONIC	25	35
RSR Inorganics	Arsenic	WC2-4I	0.067400001		MG/L	0.036	AWQC-SWCHRONIC	25	35
RSR Inorganics	Arsenic	WC2-4I	0.067400001		MG/L	0.004	SWPC	25	35
RSR Inorganics	Cadmium	WP-99-11	0.0066		MG/L	0.006	SWPC	47	51
RSR Inorganics	Cadmium	WP-99-15	0.0173		MG/L	0.0093	AWQC-SWCHRONIC	26	30
RSR Inorganics	Cadmium	WP-99-15	0.0173		MG/L	0.006	SWPC	26	30
RSR Inorganics	Chromium	WP-99-18	1.200000048		MG/L	1.2	SWPC	15	19
RSR Inorganics	Chromium	WP-99-02	1.5		MG/L	1.2	SWPC	16	20
RSR Inorganics	Chromium	WP-99-18	1.559999943		MG/L	1.2	SWPC	15	19
RSR Inorganics	Chromium	WP-99-18	2.25		MG/L	1.2	SWPC	8	12
RSR Inorganics	Chromium	WP-99-31	2.5		MG/L	1.2	SWPC	8	12
RSR Inorganics	Chromium	WP-99-15	3		MG/L	1.2	SWPC	11	15
RSR Inorganics	Chromium	WP-99-27	3.200000048		MG/L	1.2	SWPC	8	12
RSR Inorganics	Chromium	WP-99-10	4		MG/L	1.2	SWPC	20	24
RSR Inorganics	Chromium	WP-99-15	4		MG/L	1.2	SWPC	9	11
RSR Inorganics	Chromium	WP-99-04	4.5		MG/L	1.2	SWPC	6	10
RSR Inorganics	Chromium	WP-99-10	4.5		MG/L	1.2	SWPC	25	29
RSR Inorganics	Chromium	WP-99-27	4.5		MG/L	1.2	SWPC	12	16
RSR Inorganics	Chromium	WP-99-31	4.5		MG/L	1.2	SWPC	15	19
RSR Inorganics	Chromium	WP-99-08	5		MG/L	1.2	SWPC	15	19
RSR Inorganics	Chromium	WP-98-01	5.199999809		MG/L	1.2	SWPC	6.5	11.5
RSR Inorganics	Chromium	WP-98-01	5.199999809		MG/L	1.2	SWPC	5	7
RSR Inorganics	Chromium	WP-99-20	5.940000057		MG/L	1.2	SWPC	25	29
RSR Inorganics	Chromium	WP-99-03	7		MG/L	1.2	SWPC	5	9
RSR Inorganics	Chromium	WP-99-08	7		MG/L	1.2	SWPC	8	12
RSR Inorganics	Chromium	WP-99-03	7.170000076		MG/L	1.2	SWPC	21	25
RSR Inorganics	Chromium	WP-99-03	8		MG/L	1.2	SWPC	26	30
RSR Inorganics	Chromium	WP-99-15	8		MG/L	1.2	SWPC	16	20
RSR Inorganics	Chromium	WP-99-03	9		MG/L	1.2	SWPC	11	15
RSR Inorganics	Chromium	WP-99-29	11		MG/L	1.2	SWPC	36	40
RSR Inorganics	Chromium	WP-99-26	12		MG/L	1.2	SWPC	22	26
RSR Inorganics	Chromium	WP-99-15	13		MG/L	1.2	SWPC	46	50

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Chromium	WP-99-07	13.80000019		MG/L	1.2	SWPC	7	9
RSR Inorganics	Chromium	WP-99-20	15		MG/L	1.2	SWPC	25	29
RSR Inorganics	Chromium	WP-99-08	16		MG/L	1.2	SWPC	41	45
RSR Inorganics	Chromium	WP-99-15	17		MG/L	1.2	SWPC	7	9
RSR Inorganics	Chromium	WP-99-20	35		MG/L	1.2	SWPC	15	19
RSR Inorganics	Chromium	WP-99-23	40		MG/L	1.2	SWPC	21	25
RSR Inorganics	Chromium	WP-99-11	41.20000076		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-11	41.70000076		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-11	42.09999847		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-11	50		MG/L	1.2	SWPC	24	28
RSR Inorganics	Chromium	WP-99-02	53.09999847		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-11	55.20000076		MG/L	1.2	SWPC	24	28
RSR Inorganics	Chromium	WP-99-11	60		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-02	75		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-20	95		MG/L	1.2	SWPC	36	40
RSR Inorganics	Chromium	WP-99-04	95		MG/L	1.2	SWPC	16	20
RSR Inorganics	Chromium	WP-99-15	150		MG/L	1.2	SWPC	21	25
RSR Inorganics	Chromium	WP-99-08	300		MG/L	1.2	SWPC	31	35
RSR Inorganics	Chromium	WP-99-08	300		MG/L	1.2	SWPC	26	30
RSR Inorganics	Chromium	WP-99-20	300		MG/L	1.2	SWPC	20	24
RSR Inorganics	Chromium	WP-99-02	350		MG/L	1.2	SWPC	24	28
RSR Inorganics	Chromium	WP-99-15	360		MG/L	1.2	SWPC	26	30
RSR Inorganics	Chromium	WP-99-15	433		MG/L	1.2	SWPC	26	30
RSR Inorganics	Chromium	WP-99-20	450		MG/L	1.2	SWPC	30	34
RSR Inorganics	Chromium	WP-99-08	500		MG/L	1.2	SWPC	36	40
RSR Inorganics	Chromium	WP-99-08	500		MG/L	1.2	SWPC	21	25
RSR Inorganics	Chromium	WP-99-15	700		MG/L	1.2	SWPC	40	44
RSR Inorganics	Chromium	WP-99-04	700		MG/L	1.2	SWPC	22	26
RSR Inorganics	Chromium	WP-99-15	900		MG/L	1.2	SWPC	36	40
RSR Inorganics	Chromium	WP-99-15	950		MG/L	1.2	SWPC	30	34
RSR Inorganics	Copper	LW-10I	0.0036	B	MG/L	0.0031	AWQC-SWCHRONIC	38	48
RSR Inorganics	Copper	LW-7	0.0056	B	MG/L	0.0048	AWQC-SWACUTE	20	30
RSR Inorganics	Copper	LW-7	0.0056	B	MG/L	0.0031	AWQC-SWCHRONIC	20	30
RSR Inorganics	Copper	WC-20S	0.0065		MG/L	0.0048	AWQC-SWACUTE	5	15

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Copper	WC-20S	0.0065		MG/L	0.0031	AWQC-SWCHRONIC	5	15
RSR Inorganics	Copper	WC-20S	0.0065		MG/L	0.0048	AWQC-SWACUTE	5	15
RSR Inorganics	Copper	WC-20S	0.0065		MG/L	0.0031	AWQC-SWCHRONIC	5	15
RSR Inorganics	Copper	LW-2	0.0066	B	MG/L	0.0048	AWQC-SWACUTE	6	16
RSR Inorganics	Copper	LW-2	0.0066	B	MG/L	0.0031	AWQC-SWCHRONIC	6	16
RSR Inorganics	Copper	LW-5SI	0.0068	B	MG/L	0.0048	AWQC-SWACUTE	17	27
RSR Inorganics	Copper	LW-5SI	0.0068	B	MG/L	0.0031	AWQC-SWCHRONIC	17	27
RSR Inorganics	Copper	WC2-5I	0.007		MG/L	0.0048	AWQC-SWACUTE	30	40
RSR Inorganics	Copper	WC2-5I	0.007		MG/L	0.0031	AWQC-SWCHRONIC	30	40
RSR Inorganics	Copper	WC2-5I	0.007		MG/L	0.0048	AWQC-SWACUTE	30	40
RSR Inorganics	Copper	WC2-5I	0.007		MG/L	0.0031	AWQC-SWCHRONIC	30	40
RSR Inorganics	Copper	WC2-4I	0.0072		MG/L	0.0048	AWQC-SWACUTE	25	35
RSR Inorganics	Copper	WC2-4I	0.0072		MG/L	0.0031	AWQC-SWCHRONIC	25	35
RSR Inorganics	Copper	WC2-4I	0.0072		MG/L	0.0048	AWQC-SWACUTE	25	35
RSR Inorganics	Copper	WC2-4I	0.0072		MG/L	0.0031	AWQC-SWCHRONIC	25	35
RSR Inorganics	Copper	WC5-3S	0.0076		MG/L	0.0048	AWQC-SWACUTE	2	12
RSR Inorganics	Copper	WC5-3S	0.0076		MG/L	0.0031	AWQC-SWCHRONIC	2	12
RSR Inorganics	Copper	WC5-3S	0.0076		MG/L	0.0048	AWQC-SWACUTE	2	12
RSR Inorganics	Copper	WC5-3S	0.0076		MG/L	0.0031	AWQC-SWCHRONIC	2	12
RSR Inorganics	Copper	PZ-1D	0.01	J	MG/L	0.0048	AWQC-SWACUTE	24	34
RSR Inorganics	Copper	PZ-1D	0.01	J	MG/L	0.0031	AWQC-SWCHRONIC	24	34
RSR Inorganics	Copper	PZ-1D	0.01	J	MG/L	0.0048	AWQC-SWACUTE	24	34
RSR Inorganics	Copper	PZ-1D	0.01	J	MG/L	0.0031	AWQC-SWCHRONIC	24	34
RSR Inorganics	Copper	WC-21D2	0.0105		MG/L	0.0048	AWQC-SWACUTE	140	150
RSR Inorganics	Copper	WC-21D2	0.0105		MG/L	0.0031	AWQC-SWCHRONIC	140	150
RSR Inorganics	Copper	WC-21D2	0.0105		MG/L	0.0048	AWQC-SWACUTE	140	150
RSR Inorganics	Copper	WC-21D2	0.0105		MG/L	0.0031	AWQC-SWCHRONIC	140	150
RSR Inorganics	Copper	WC2-4S	0.0108		MG/L	0.0048	AWQC-SWACUTE	2	12
RSR Inorganics	Copper	WC2-4S	0.0108		MG/L	0.0031	AWQC-SWCHRONIC	2	12
RSR Inorganics	Copper	WC2-4S	0.0108		MG/L	0.0048	AWQC-SWACUTE	2	12
RSR Inorganics	Copper	WC2-4S	0.0108		MG/L	0.0031	AWQC-SWCHRONIC	2	12
RSR Inorganics	Copper	PZ-8D	0.011	J	MG/L	0.0048	AWQC-SWACUTE	24	34
RSR Inorganics	Copper	PZ-8D	0.011	J	MG/L	0.0031	AWQC-SWCHRONIC	24	34
RSR Inorganics	Copper	PZ-8D	0.011	J	MG/L	0.0048	AWQC-SWACUTE	24	34

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Copper	PZ-8D	0.011	J	MG/L	0.0031	AWQC-SWCHRONIC	24	34
RSR Inorganics	Copper	LW-5D	0.035299999	B	MG/L	0.0048	AWQC-SWACUTE	89.5	99.5
RSR Inorganics	Copper	LW-5D	0.035299999	B	MG/L	0.0031	AWQC-SWCHRONIC	89.5	99.5
RSR Inorganics	Copper	PZ-4D	0.041		MG/L	0.0048	AWQC-SWACUTE	29	39
RSR Inorganics	Copper	PZ-4D	0.041		MG/L	0.0031	AWQC-SWCHRONIC	29	39
RSR Inorganics	Copper	PZ-4D	0.041000001		MG/L	0.0048	AWQC-SWACUTE	29	39
RSR Inorganics	Copper	PZ-4D	0.041000001		MG/L	0.0031	AWQC-SWCHRONIC	29	39
RSR Inorganics	Copper	WC3-1I	0.044199999		MG/L	0.0048	AWQC-SWACUTE	30	40
RSR Inorganics	Copper	WC3-1I	0.044199999		MG/L	0.0031	AWQC-SWCHRONIC	30	40
RSR Inorganics	Copper	WC3-1I	0.0442		MG/L	0.0048	AWQC-SWACUTE	30	40
RSR Inorganics	Copper	WC3-1I	0.0442		MG/L	0.0031	AWQC-SWCHRONIC	30	40
RSR Inorganics	Copper	WP-99-12	0.046999998		MG/L	0.0048	AWQC-SWACUTE	20	24
RSR Inorganics	Copper	WP-99-12	0.046999998		MG/L	0.0031	AWQC-SWCHRONIC	20	24
RSR Inorganics	Copper	WP-99-01	0.061000001		MG/L	0.0048	AWQC-SWACUTE	8	10
RSR Inorganics	Copper	WP-99-01	0.061000001		MG/L	0.0031	AWQC-SWCHRONIC	8	10
RSR Inorganics	Copper	WP-99-01	0.061000001		MG/L	0.048	SWPC	8	10
RSR Inorganics	Copper	WP-99-09	0.085000001		MG/L	0.0048	AWQC-SWACUTE	7	11
RSR Inorganics	Copper	WP-99-09	0.085000001		MG/L	0.0031	AWQC-SWCHRONIC	7	11
RSR Inorganics	Copper	WP-99-09	0.085000001		MG/L	0.048	SWPC	7	11
RSR Inorganics	Copper	WP-99-12	0.423000008		MG/L	0.0048	AWQC-SWACUTE	7	9
RSR Inorganics	Copper	WP-99-12	0.423000008		MG/L	0.0031	AWQC-SWCHRONIC	7	9
RSR Inorganics	Copper	WP-99-12	0.423000008		MG/L	0.048	SWPC	7	9
RSR Inorganics	Cyanide	WP-99-11	0.008		MG/L	0.001	AWQC-SWACUTE	7	9
RSR Inorganics	Cyanide	WP-99-11	0.008		MG/L	0.001	AWQC-SWCHRONIC	7	9
RSR Inorganics	Cyanide	WP-99-18	0.009		MG/L	0.001	AWQC-SWACUTE	15	19
RSR Inorganics	Cyanide	WP-99-28	0.009		MG/L	0.001	AWQC-SWACUTE	20	24
RSR Inorganics	Cyanide	WP-99-28	0.009		MG/L	0.001	AWQC-SWCHRONIC	20	24
RSR Inorganics	Cyanide	WP-99-18	0.009		MG/L	0.001	AWQC-SWCHRONIC	15	19
RSR Inorganics	Cyanide	WP-99-09	0.011		MG/L	0.001	AWQC-SWACUTE	25	29
RSR Inorganics	Cyanide	WP-99-09	0.011		MG/L	0.001	AWQC-SWCHRONIC	25	29
RSR Inorganics	Cyanide	WC2-3S	0.012		MG/L	0.001	AWQC-SWACUTE	2	12
RSR Inorganics	Cyanide	WC2-3S	0.012		MG/L	0.001	AWQC-SWCHRONIC	2	12
RSR Inorganics	Cyanide	WP-99-12	0.013		MG/L	0.001	AWQC-SWACUTE	7	9
RSR Inorganics	Cyanide	WC-5S	0.013		MG/L	0.001	AWQC-SWACUTE	3	13

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Cyanide	WC-5S	0.013		MG/L	0.001	AWQC-SWCHRONIC	3	13
RSR Inorganics	Cyanide	WP-99-12	0.013		MG/L	0.001	AWQC-SWCHRONIC	7	9
RSR Inorganics	Cyanide	WP-99-09	0.044		MG/L	0.001	AWQC-SWACUTE	7	11
RSR Inorganics	Cyanide	WP-99-09	0.044		MG/L	0.001	AWQC-SWCHRONIC	7	11
RSR Inorganics	Cyanide	WC-12S	0.078000002		MG/L	0.001	AWQC-SWACUTE	3	13
RSR Inorganics	Cyanide	WC-12S	0.078000002		MG/L	0.001	AWQC-SWCHRONIC	3	13
RSR Inorganics	Cyanide	WC-12S	0.078000002		MG/L	0.052	SWPC	3	13
RSR Inorganics	Cyanide	WP-99-11	0.090999998		MG/L	0.001	AWQC-SWACUTE	30	34
RSR Inorganics	Cyanide	WP-99-11	0.090999998		MG/L	0.001	AWQC-SWCHRONIC	30	34
RSR Inorganics	Cyanide	WP-99-11	0.090999998		MG/L	0.052	SWPC	30	34
RSR Inorganics	Cyanide	WP-99-11	0.092		MG/L	0.001	AWQC-SWACUTE	30	34
RSR Inorganics	Cyanide	WP-99-11	0.092		MG/L	0.001	AWQC-SWCHRONIC	30	34
RSR Inorganics	Cyanide	WP-99-11	0.092		MG/L	0.052	SWPC	30	34
RSR Inorganics	Cyanide	WP-99-12	0.181999996		MG/L	0.001	AWQC-SWACUTE	20	24
RSR Inorganics	Cyanide	WP-99-12	0.181999996		MG/L	0.001	AWQC-SWCHRONIC	20	24
RSR Inorganics	Cyanide	WP-99-12	0.181999996		MG/L	0.052	SWPC	20	24
RSR Inorganics	Cyanide	WC-12S	0.221000001		MG/L	0.001	AWQC-SWACUTE	3	13
RSR Inorganics	Cyanide	WC-12S	0.221000001		MG/L	0.001	AWQC-SWCHRONIC	3	13
RSR Inorganics	Cyanide	WC-12S	0.221000001		MG/L	0.052	SWPC	3	13
RSR Inorganics	Cyanide	WP-99-15	0.535000026		MG/L	0.001	AWQC-SWACUTE	26	30
RSR Inorganics	Cyanide	WP-99-15	0.535000026		MG/L	0.001	AWQC-SWCHRONIC	26	30
RSR Inorganics	Cyanide	WP-99-15	0.535000026		MG/L	0.052	SWPC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-05	0.150000006		MG/L	0.05	AWQC-SWCHRONIC	56	60
RSR Inorganics	Hexavalent Chromium	WP-99-31	0.150000006		MG/L	0.05	AWQC-SWCHRONIC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-23	0.150000006		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-05	0.150000006		MG/L	0.11	SWPC	56	60
RSR Inorganics	Hexavalent Chromium	WP-99-23	0.150000006		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-31	0.150000006		MG/L	0.11	SWPC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-18	0.25		MG/L	0.05	AWQC-SWCHRONIC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-11	0.25		MG/L	0.05	AWQC-SWCHRONIC	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-18	0.25		MG/L	0.11	SWPC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-11	0.25		MG/L	0.11	SWPC	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-26	0.300000012		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-26	0.300000012		MG/L	0.11	SWPC	8	12

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Hexavalent Chromium	WP-99-10	0.600000024		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-26	0.600000024		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-26	0.600000024		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-10	0.600000024		MG/L	0.11	SWPC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-09	0.66900003		MG/L	0.05	AWQC-SWCHRONIC	7	11
RSR Inorganics	Hexavalent Chromium	WP-99-09	0.66900003		MG/L	0.11	SWPC	7	11
RSR Inorganics	Hexavalent Chromium	WP-99-10	0.899999976		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-10	0.899999976		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-02	1		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-02	1		MG/L	0.11	SWPC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-18	1.200000048		MG/L	1.1	AWQC-SWACUTE	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-18	1.200000048		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-18	1.200000048		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-02	1.5		MG/L	1.1	AWQC-SWACUTE	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-02	1.5		MG/L	0.05	AWQC-SWCHRONIC	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-02	1.5		MG/L	0.11	SWPC	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-18	1.570000052		MG/L	1.1	AWQC-SWACUTE	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-18	1.570000052		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-18	1.570000052		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-18	2.25		MG/L	1.1	AWQC-SWACUTE	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-18	2.25		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-18	2.25		MG/L	0.11	SWPC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-31	2.5		MG/L	1.1	AWQC-SWACUTE	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-31	2.5		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-31	2.5		MG/L	0.11	SWPC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-15	3		MG/L	1.1	AWQC-SWACUTE	11	15
RSR Inorganics	Hexavalent Chromium	WP-99-15	3		MG/L	0.05	AWQC-SWCHRONIC	11	15
RSR Inorganics	Hexavalent Chromium	WP-99-15	3		MG/L	0.11	SWPC	11	15
RSR Inorganics	Hexavalent Chromium	WP-99-27	3.200000048		MG/L	1.1	AWQC-SWACUTE	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-27	3.200000048		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-27	3.200000048		MG/L	0.11	SWPC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-15	4		MG/L	1.1	AWQC-SWACUTE	9	11
RSR Inorganics	Hexavalent Chromium	WP-99-10	4		MG/L	1.1	AWQC-SWACUTE	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-10	4		MG/L	0.05	AWQC-SWCHRONIC	20	24

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Hexavalent Chromium	WP-99-15	4		MG/L	0.05	AWQC-SWCHRONIC	9	11
RSR Inorganics	Hexavalent Chromium	WP-99-15	4		MG/L	0.11	SWPC	9	11
RSR Inorganics	Hexavalent Chromium	WP-99-10	4		MG/L	0.11	SWPC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-04	4.5		MG/L	1.1	AWQC-SWACUTE	6	10
RSR Inorganics	Hexavalent Chromium	WP-99-31	4.5		MG/L	1.1	AWQC-SWACUTE	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-10	4.5		MG/L	1.1	AWQC-SWACUTE	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-27	4.5		MG/L	1.1	AWQC-SWACUTE	12	16
RSR Inorganics	Hexavalent Chromium	WP-99-10	4.5		MG/L	0.05	AWQC-SWCHRONIC	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-31	4.5		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-27	4.5		MG/L	0.05	AWQC-SWCHRONIC	12	16
RSR Inorganics	Hexavalent Chromium	WP-99-04	4.5		MG/L	0.05	AWQC-SWCHRONIC	6	10
RSR Inorganics	Hexavalent Chromium	WP-99-27	4.5		MG/L	0.11	SWPC	12	16
RSR Inorganics	Hexavalent Chromium	WP-99-04	4.5		MG/L	0.11	SWPC	6	10
RSR Inorganics	Hexavalent Chromium	WP-99-10	4.5		MG/L	0.11	SWPC	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-31	4.5		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-08	5		MG/L	1.1	AWQC-SWACUTE	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-08	5		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-08	5		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-20	6.320000172		MG/L	1.1	AWQC-SWACUTE	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-20	6.320000172		MG/L	0.05	AWQC-SWCHRONIC	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-20	6.320000172		MG/L	0.11	SWPC	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-03	7		MG/L	1.1	AWQC-SWACUTE	5	9
RSR Inorganics	Hexavalent Chromium	WP-99-08	7		MG/L	1.1	AWQC-SWACUTE	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-03	7		MG/L	0.05	AWQC-SWCHRONIC	5	9
RSR Inorganics	Hexavalent Chromium	WP-99-08	7		MG/L	0.05	AWQC-SWCHRONIC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-03	7		MG/L	0.11	SWPC	5	9
RSR Inorganics	Hexavalent Chromium	WP-99-08	7		MG/L	0.11	SWPC	8	12
RSR Inorganics	Hexavalent Chromium	WP-99-15	8		MG/L	1.1	AWQC-SWACUTE	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-03	8		MG/L	1.1	AWQC-SWACUTE	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-03	8		MG/L	0.05	AWQC-SWCHRONIC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-15	8		MG/L	0.05	AWQC-SWCHRONIC	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-15	8		MG/L	0.11	SWPC	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-03	8		MG/L	0.11	SWPC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-03	8.390000343		MG/L	1.1	AWQC-SWACUTE	21	25

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Hexavalent Chromium	WP-99-03	8.390000343		MG/L	0.05	AWQC-SWCHRONIC	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-03	8.390000343		MG/L	0.11	SWPC	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-03	9		MG/L	1.1	AWQC-SWACUTE	11	15
RSR Inorganics	Hexavalent Chromium	WP-99-03	9		MG/L	0.05	AWQC-SWCHRONIC	11	15
RSR Inorganics	Hexavalent Chromium	WP-99-03	9		MG/L	0.11	SWPC	11	15
RSR Inorganics	Hexavalent Chromium	WP-98-01	10.39999962		MG/L	1.1	AWQC-SWACUTE	5	7
RSR Inorganics	Hexavalent Chromium	WP-98-01	10.39999962		MG/L	0.05	AWQC-SWCHRONIC	5	7
RSR Inorganics	Hexavalent Chromium	WP-98-01	10.39999962		MG/L	0.11	SWPC	5	7
RSR Inorganics	Hexavalent Chromium	WP-99-29	11		MG/L	1.1	AWQC-SWACUTE	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-29	11		MG/L	0.05	AWQC-SWCHRONIC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-29	11		MG/L	0.11	SWPC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-26	12		MG/L	1.1	AWQC-SWACUTE	22	26
RSR Inorganics	Hexavalent Chromium	WP-99-26	12		MG/L	0.05	AWQC-SWCHRONIC	22	26
RSR Inorganics	Hexavalent Chromium	WP-99-26	12		MG/L	0.11	SWPC	22	26
RSR Inorganics	Hexavalent Chromium	WP-99-15	13		MG/L	1.1	AWQC-SWACUTE	46	50
RSR Inorganics	Hexavalent Chromium	WP-99-15	13		MG/L	0.05	AWQC-SWCHRONIC	46	50
RSR Inorganics	Hexavalent Chromium	WP-99-15	13		MG/L	0.11	SWPC	46	50
RSR Inorganics	Hexavalent Chromium	WP-99-07	13.19999981		MG/L	1.1	AWQC-SWACUTE	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-07	13.19999981		MG/L	0.05	AWQC-SWCHRONIC	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-07	13.19999981		MG/L	0.11	SWPC	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-20	15		MG/L	1.1	AWQC-SWACUTE	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-20	15		MG/L	0.05	AWQC-SWCHRONIC	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-20	15		MG/L	0.11	SWPC	25	29
RSR Inorganics	Hexavalent Chromium	WP-99-08	16		MG/L	1.1	AWQC-SWACUTE	41	45
RSR Inorganics	Hexavalent Chromium	WP-99-08	16		MG/L	0.05	AWQC-SWCHRONIC	41	45
RSR Inorganics	Hexavalent Chromium	WP-99-08	16		MG/L	0.11	SWPC	41	45
RSR Inorganics	Hexavalent Chromium	WP-99-15	17		MG/L	1.1	AWQC-SWACUTE	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-15	17		MG/L	0.05	AWQC-SWCHRONIC	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-15	17		MG/L	0.11	SWPC	7	9
RSR Inorganics	Hexavalent Chromium	WP-99-20	35		MG/L	1.1	AWQC-SWACUTE	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-20	35		MG/L	0.05	AWQC-SWCHRONIC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-20	35		MG/L	0.11	SWPC	15	19
RSR Inorganics	Hexavalent Chromium	WP-99-23	40		MG/L	1.1	AWQC-SWACUTE	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-23	40		MG/L	0.05	AWQC-SWCHRONIC	21	25

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Hexavalent Chromium	WP-99-23	40		MG/L	0.11	SWPC	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-11	42.09999847		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	42.09999847		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	42.09999847		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	50		MG/L	1.1	AWQC-SWACUTE	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-11	50		MG/L	0.05	AWQC-SWCHRONIC	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-11	50		MG/L	0.11	SWPC	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-02	50.90000153		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-02	50.90000153		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-02	50.90000153		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	54.20000076		MG/L	1.1	AWQC-SWACUTE	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-11	54.20000076		MG/L	0.05	AWQC-SWCHRONIC	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-11	54.20000076		MG/L	0.11	SWPC	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-11	60		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	60		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	60		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	67.5		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	67.5		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	67.5		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	68.09999847		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	68.09999847		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-11	68.09999847		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-02	75		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-02	75		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-02	75		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-20	95		MG/L	1.1	AWQC-SWACUTE	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-04	95		MG/L	1.1	AWQC-SWACUTE	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-20	95		MG/L	0.05	AWQC-SWCHRONIC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-04	95		MG/L	0.05	AWQC-SWCHRONIC	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-20	95		MG/L	0.11	SWPC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-04	95		MG/L	0.11	SWPC	16	20
RSR Inorganics	Hexavalent Chromium	WP-99-15	150		MG/L	1.1	AWQC-SWACUTE	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-15	150		MG/L	0.05	AWQC-SWCHRONIC	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-15	150		MG/L	0.11	SWPC	21	25

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Hexavalent Chromium	WP-99-08	300		MG/L	1.1	AWQC-SWACUTE	31	35
RSR Inorganics	Hexavalent Chromium	WP-99-08	300		MG/L	1.1	AWQC-SWACUTE	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-20	300		MG/L	1.1	AWQC-SWACUTE	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-08	300		MG/L	0.05	AWQC-SWCHRONIC	31	35
RSR Inorganics	Hexavalent Chromium	WP-99-08	300		MG/L	0.05	AWQC-SWCHRONIC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-20	300		MG/L	0.05	AWQC-SWCHRONIC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-08	300		MG/L	0.11	SWPC	31	35
RSR Inorganics	Hexavalent Chromium	WP-99-08	300		MG/L	0.11	SWPC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-20	300		MG/L	0.11	SWPC	20	24
RSR Inorganics	Hexavalent Chromium	WP-99-15	347		MG/L	1.1	AWQC-SWACUTE	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-15	347		MG/L	0.05	AWQC-SWCHRONIC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-15	347		MG/L	0.11	SWPC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-02	350		MG/L	1.1	AWQC-SWACUTE	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-02	350		MG/L	0.05	AWQC-SWCHRONIC	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-02	350		MG/L	0.11	SWPC	24	28
RSR Inorganics	Hexavalent Chromium	WP-99-15	360		MG/L	1.1	AWQC-SWACUTE	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-15	360		MG/L	0.05	AWQC-SWCHRONIC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-15	360		MG/L	0.11	SWPC	26	30
RSR Inorganics	Hexavalent Chromium	WP-99-20	450		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-20	450		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-20	450		MG/L	0.11	SWPC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-08	500		MG/L	1.1	AWQC-SWACUTE	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-08	500		MG/L	1.1	AWQC-SWACUTE	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-08	500		MG/L	0.05	AWQC-SWCHRONIC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-08	500		MG/L	0.05	AWQC-SWCHRONIC	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-08	500		MG/L	0.11	SWPC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-08	500		MG/L	0.11	SWPC	21	25
RSR Inorganics	Hexavalent Chromium	WP-99-15	700		MG/L	1.1	AWQC-SWACUTE	40	44
RSR Inorganics	Hexavalent Chromium	WP-99-04	700		MG/L	1.1	AWQC-SWACUTE	22	26
RSR Inorganics	Hexavalent Chromium	WP-99-15	700		MG/L	0.05	AWQC-SWCHRONIC	40	44
RSR Inorganics	Hexavalent Chromium	WP-99-04	700		MG/L	0.05	AWQC-SWCHRONIC	22	26
RSR Inorganics	Hexavalent Chromium	WP-99-15	700		MG/L	0.11	SWPC	40	44
RSR Inorganics	Hexavalent Chromium	WP-99-04	700		MG/L	0.11	SWPC	22	26
RSR Inorganics	Hexavalent Chromium	WP-99-15	900		MG/L	1.1	AWQC-SWACUTE	36	40

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Hexavalent Chromium	WP-99-15	900		MG/L	0.05	AWQC-SWCHRONIC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-15	900		MG/L	0.11	SWPC	36	40
RSR Inorganics	Hexavalent Chromium	WP-99-15	950		MG/L	1.1	AWQC-SWACUTE	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-15	950		MG/L	0.05	AWQC-SWCHRONIC	30	34
RSR Inorganics	Hexavalent Chromium	WP-99-15	950		MG/L	0.11	SWPC	30	34
RSR Inorganics	Lead	PZ-8D	0.0086	J	MG/L	0.0081	AWQC-SWCHRONIC	24	34
RSR Inorganics	Lead	PZ-8D	0.0086	J	MG/L	0.0081	AWQC-SWCHRONIC	24	34
RSR Inorganics	Lead	PZ-4D	0.018999999		MG/L	0.0081	AWQC-SWCHRONIC	29	39
RSR Inorganics	Lead	PZ-4D	0.018999999		MG/L	0.013	SWPC	29	39
RSR Inorganics	Lead	PZ-4D	0.019		MG/L	0.0081	AWQC-SWCHRONIC	29	39
RSR Inorganics	Lead	PZ-4D	0.019		MG/L	0.013	SWPC	29	39
RSR Inorganics	Lead	PZ-4D	0.023499999		MG/L	0.0081	AWQC-SWCHRONIC	29	39
RSR Inorganics	Lead	PZ-4D	0.023499999		MG/L	0.013	SWPC	29	39
RSR Inorganics	Lead	PZ-4D	0.0235		MG/L	0.0081	AWQC-SWCHRONIC	29	39
RSR Inorganics	Lead	PZ-4D	0.0235		MG/L	0.013	SWPC	29	39
RSR Inorganics	Lead	WC3-1I	0.0248		MG/L	0.0081	AWQC-SWCHRONIC	30	40
RSR Inorganics	Lead	WC3-1I	0.0248		MG/L	0.013	SWPC	30	40
RSR Inorganics	Lead	WC3-1I	0.024800001		MG/L	0.0081	AWQC-SWCHRONIC	30	40
RSR Inorganics	Lead	WC3-1I	0.024800001		MG/L	0.013	SWPC	30	40
RSR Inorganics	Nickel	LW-3S	0.0084	B	MG/L	0.0082	AWQC-SWCHRONIC	0	10
RSR Inorganics	Nickel	WC2-1I	0.0087		MG/L	0.0082	AWQC-SWCHRONIC	45	55
RSR Inorganics	Nickel	WC2-1I	0.0087		MG/L	0.0082	AWQC-SWCHRONIC	45	55
RSR Inorganics	Nickel	WC-21S	0.0098		MG/L	0.0082	AWQC-SWCHRONIC	5	15
RSR Inorganics	Nickel	WC-21S	0.0098		MG/L	0.0082	AWQC-SWCHRONIC	5	15
RSR Inorganics	Nickel	PZ-4D	0.011		MG/L	0.0082	AWQC-SWCHRONIC	29	39
RSR Inorganics	Nickel	PZ-1D	0.011	J	MG/L	0.0082	AWQC-SWCHRONIC	24	34
RSR Inorganics	Nickel	PZ-4D	0.011		MG/L	0.0082	AWQC-SWCHRONIC	29	39
RSR Inorganics	Nickel	PZ-1D	0.011	J	MG/L	0.0082	AWQC-SWCHRONIC	24	34
RSR Inorganics	Nickel	LW-5DI	0.0119	B	MG/L	0.0082	AWQC-SWCHRONIC	38	48
RSR Inorganics	Nickel	WC2-3D	0.012	J	MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC2-3D	0.012	J	MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	PZ-17D	0.013		MG/L	0.0082	AWQC-SWCHRONIC	22	32
RSR Inorganics	Nickel	PZ-17D	0.013		MG/L	0.0082	AWQC-SWCHRONIC	22	32
RSR Inorganics	Nickel	PZ-5D	0.0135		MG/L	0.0082	AWQC-SWCHRONIC	33	43

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Nickel	PZ-5D	0.0135		MG/L	0.0082	AWQC-SWCHRONIC	33	43
RSR Inorganics	Nickel	LW-3SI	0.018799999	B	MG/L	0.0082	AWQC-SWCHRONIC	8.5	18.5
RSR Inorganics	Nickel	PZ-4D	0.022		MG/L	0.0082	AWQC-SWCHRONIC	29	39
RSR Inorganics	Nickel	PZ-4D	0.022		MG/L	0.0082	AWQC-SWCHRONIC	29	39
RSR Inorganics	Nickel	WC3-1D	0.024		MG/L	0.0082	AWQC-SWCHRONIC	75	85
RSR Inorganics	Nickel	WC3-1D	0.024		MG/L	0.0082	AWQC-SWCHRONIC	75	85
RSR Inorganics	Nickel	WC-21D2	0.0261		MG/L	0.0082	AWQC-SWCHRONIC	140	150
RSR Inorganics	Nickel	WC-21D2	0.0261		MG/L	0.0082	AWQC-SWCHRONIC	140	150
RSR Inorganics	Nickel	WC3-1I	0.0275		MG/L	0.0082	AWQC-SWCHRONIC	30	40
RSR Inorganics	Nickel	WC3-1I	0.0275		MG/L	0.0082	AWQC-SWCHRONIC	30	40
RSR Inorganics	Nickel	WC-18D1	0.0319		MG/L	0.0082	AWQC-SWCHRONIC	30	50
RSR Inorganics	Nickel	WC-18D1	0.0319		MG/L	0.0082	AWQC-SWCHRONIC	30	50
RSR Inorganics	Nickel	LW-5SI	0.038	B	MG/L	0.0082	AWQC-SWCHRONIC	17	27
RSR Inorganics	Nickel	WC2-2D	0.0401		MG/L	0.0082	AWQC-SWCHRONIC	51.5	61.5
RSR Inorganics	Nickel	WC2-2D	0.040100001		MG/L	0.0082	AWQC-SWCHRONIC	51.5	61.5
RSR Inorganics	Nickel	WC5-1D	0.061099999		MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC5-1D	0.061099999		MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC5-1D	0.0611		MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC5-1D	0.0611		MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC5-1D	0.063		MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC5-1D	0.063000001		MG/L	0.0082	AWQC-SWCHRONIC	74.5	84.5
RSR Inorganics	Nickel	WC2-2D	0.157		MG/L	0.074	AWQC-SWACUTE	51.5	61.5
RSR Inorganics	Nickel	WC2-2D	0.157		MG/L	0.0082	AWQC-SWCHRONIC	51.5	61.5
RSR Inorganics	Nickel	WC2-2D	0.157000005		MG/L	0.074	AWQC-SWACUTE	51.5	61.5
RSR Inorganics	Nickel	WC2-2D	0.157000005		MG/L	0.0082	AWQC-SWCHRONIC	51.5	61.5
RSR Inorganics	Nickel	WP-99-12	0.170000002		MG/L	0.074	AWQC-SWACUTE	20	24
RSR Inorganics	Nickel	WP-99-12	0.170000002		MG/L	0.0082	AWQC-SWCHRONIC	20	24
RSR Inorganics	Nickel	WP-99-15	` 0.25		MG/L	0.074	AWQC-SWACUTE	26	30
RSR Inorganics	Nickel	WP-99-15	0.25		MG/L	0.0082	AWQC-SWCHRONIC	26	30
RSR Inorganics	Silver	PZ-1D	0.005	J	MG/L	0.00196	AWQC-SWACUTE	24	34
RSR Inorganics	Silver	PZ-1D	0.005	J	MG/L	0.00196	AWQC-SWACUTE	24	34
RSR Inorganics	Silver	WC2-2D	0.0054		MG/L	0.00196	AWQC-SWACUTE	51.5	61.5
RSR Inorganics	Silver	WC2-2D	0.0054		MG/L	0.00196	AWQC-SWACUTE	51.5	61.5
RSR Inorganics	Silver	WC-20D1	0.0055		MG/L	0.00196	AWQC-SWACUTE	30	50

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Silver	WC-20D1	0.0055		MG/L	0.00196	AWQC-SWACUTE	30	50
RSR Inorganics	Silver	WC-20D2	0.0057		MG/L	0.00196	AWQC-SWACUTE	30	50
RSR Inorganics	Silver	WC-20D2	0.0057		MG/L	0.00196	AWQC-SWACUTE	30	50
RSR Inorganics	Silver	WC-21D1	0.0059		MG/L	0.00196	AWQC-SWACUTE	30	50
RSR Inorganics	Silver	WC-21D1	0.0059		MG/L	0.00196	AWQC-SWACUTE	30	50
RSR Inorganics	Silver	WC2-1D	0.0064		MG/L	0.00196	AWQC-SWACUTE	140	150
RSR Inorganics	Silver	WC2-1D	0.0064		MG/L	0.00196	AWQC-SWACUTE	140	150
RSR Inorganics	Silver	MWCD-99-02A	0.0078		MG/L	0.00196	AWQC-SWACUTE	5	10
RSR Inorganics	Silver	MWCD-99-02A	0.0078		MG/L	0.00196	AWQC-SWACUTE	5	10
RSR Inorganics	Silver	WC-21D2	0.0086		MG/L	0.00196	AWQC-SWACUTE	140	150
RSR Inorganics	Silver	WC-21D2	0.0086		MG/L	0.00196	AWQC-SWACUTE	140	150
RSR Inorganics	Silver	WC5-1S	0.009	J	MG/L	0.00196	AWQC-SWACUTE	1.5	11.5
RSR Inorganics	Silver	WC5-1S	0.009	J	MG/L	0.00196	AWQC-SWACUTE	1.5	11.5
RSR Inorganics	Silver	WC5-1D	0.05		MG/L	0.00196	AWQC-SWACUTE	74.5	84.5
RSR Inorganics	Silver	WC5-1D	0.05		MG/L	0.012	SWPC	74.5	84.5
RSR Inorganics	Silver	WC5-1D	0.050000001		MG/L	0.00196	AWQC-SWACUTE	74.5	84.5
RSR Inorganics	Silver	WC5-1D	0.050000001		MG/L	0.012	SWPC	74.5	84.5
RSR Inorganics	Zinc	WC-12S	0.090599999		MG/L	0.09	AWQC-SWACUTE	3	13
RSR Inorganics	Zinc	WC-12S	0.090599999		MG/L	0.081	AWQC-SWCHRONIC	3	13
RSR Inorganics	Zinc	WC-12S	0.0906		MG/L	0.09	AWQC-SWACUTE	3	13
RSR Inorganics	Zinc	WC-12S	0.0906		MG/L	0.081	AWQC-SWCHRONIC	3	13
RSR Inorganics	Zinc	LW-12	0.095300003		MG/L	0.09	AWQC-SWACUTE	4	14
RSR Inorganics	Zinc	LW-12	0.095300003		MG/L	0.081	AWQC-SWCHRONIC	4	14
RSR Inorganics	Zinc	WC-19D1	0.1		MG/L	0.09	AWQC-SWACUTE	30	50
RSR Inorganics	Zinc	PZ-4D	0.1	J	MG/L	0.09	AWQC-SWACUTE	29	39
RSR Inorganics	Zinc	WC-19D1	0.1		MG/L	0.081	AWQC-SWCHRONIC	30	50
RSR Inorganics	Zinc	PZ-4D	0.1	J	MG/L	0.081	AWQC-SWCHRONIC	29	39
RSR Inorganics	Zinc	WC-19D1	0.100000001		MG/L	0.09	AWQC-SWACUTE	30	50
RSR Inorganics	Zinc	PZ-4D	0.100000001	J	MG/L	0.09	AWQC-SWACUTE	29	39
RSR Inorganics	Zinc	PZ-4D	0.100000001	J	MG/L	0.081	AWQC-SWCHRONIC	29	39
RSR Inorganics	Zinc	WC-19D1	0.100000001		MG/L	0.081	AWQC-SWCHRONIC	30	50
RSR Inorganics	Zinc	WC2-2D	0.126		MG/L	0.09	AWQC-SWACUTE	51.5	61.5
RSR Inorganics	Zinc	WC2-2D	0.126		MG/L	0.081	AWQC-SWCHRONIC	51.5	61.5
RSR Inorganics	Zinc	WC2-2D	0.126		MG/L	0.123	SWPC	51.5	61.5

TABLE 8-6
GROUNDWATER CONCENTRATIONS GREATER THAN CRITERIA

REMEDIAL INVESTIGATION REPORT STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CONTAMINANT CLASS	ANALYTE	LOCATION	CONCEN-TRATION	QUAL	UNITS	CRITERIA VALUE	CRITERIA	DEPTH INTERVAL (FEET BGS)	
RSR Inorganics	Zinc	WC2-2D	0.126000002		MG/L	0.09	AWQC-SWACUTE	51.5	61.5
RSR Inorganics	Zinc	WC2-2D	0.126000002		MG/L	0.081	AWQC-SWCHRONIC	51.5	61.5
RSR Inorganics	Zinc	WC2-2D	0.126000002		MG/L	0.123	SWPC	51.5	61.5
RSR Inorganics	Zinc	WC3-1I	0.133		MG/L	0.09	AWQC-SWACUTE	30	40
RSR Inorganics	Zinc	WC3-1I	0.133		MG/L	0.081	AWQC-SWCHRONIC	30	40
RSR Inorganics	Zinc	WC3-1I	0.133		MG/L	0.123	SWPC	30	40
RSR Inorganics	Zinc	WC3-1I	0.133000001		MG/L	0.09	AWQC-SWACUTE	30	40
RSR Inorganics	Zinc	WC3-1I	0.133000001		MG/L	0.081	AWQC-SWCHRONIC	30	40
RSR Inorganics	Zinc	WC3-1I	0.133000001		MG/L	0.123	SWPC	30	40
VOC	2-Butanone	WP-99-34	78		MG/L	50	GW I/C VC	26	30
VOC	2-Butanone	WP-99-34	78		MG/L	50	GW RES VC	26	30
VOC	Chlorobenzene	LW-2	2		MG/L	1.8	GW RES VC	6	16

Notes:

AWQC = Ambient Water Quality Criteria
B = detected in blank
BGS = below ground surface
BTEX = benzene, toluene, ethylbenzene, xylenes
cVOC = chlorinated volatile organic compound
D = dilution
E = exceeds calibration range
GW I/C VC = Groundwater Industrial/Commercial Volatilization Criteria
GW RES VC = Groundwater Residential Volatilization Criteria
J = estimated value
MG/L = milligrams per liter
N = tentatively identified compound

Created By: RTB
Checked By: DRP

PAHs = polynuclear aromatic hydrocarbons
PCBs = polychlorinated biphenyls
RSR = Connecticut Remediation Standard Regulations
SVOC = semivolatile organic compound
SWACUTE = Saltwater Acute
SWCHRONIC = Saltwater Chronic
SWPC = Surface Water Protection Criteria
TPH = total petroleum hydrocarbon
VOC = volatile organic compound

TABLE 8-7
RESULTS OF SOIL JAR FREE-PHASE TEST
MARCH 2004

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

Exploration Area	Location ID of Soils in Jar	Sample Depth Interval (FT BGS)	PID READINGS OF SOIL JARS[1] (ppmv)	Is Free-Phase Apparent After Adding Water and Agitating?[2]
WC-5S Vicinity	LNAP-04-01	8 -9	84	NO
	LNAP-04-01	9	12	NO
	LNAP-04-01	6	101	NO
	LNAP-04-03	10	11	NO
	LNAP-04-03	5	26	NO
	LNAP-04-04	2 -3	49	NO
	LNAP-04-05	7 -8	17	NO
	LNAP-04-06	6 -7	383	NO
	LNAP-04-06	4.5 -5	159	NO
	LNAP-04-07	7	54	NO
	LNAP-04-08	6 -7	125	NO
	LNAP-04-08	8 -9	30	NO
	LNAP-04-09	5 -6	7	NO
	LNAP-04-10	4 -5	5	NO
	LNAP-04-10	9 -10	7	NO
	LNAP-04-11	3 -4	20	NO
	LNAP-04-12	5	182	YES
	LNAP-04-24	4	89	NO
MW-3 Vicinity	LNAP-04-13	7.5	7	NO
	LNAP-04-14	<10	181	NO
	LNAP-04-14	4.5 -5	133	NO
	LNAP-04-15	6	490	YES
	LNAP-04-15	4.5 -5	309	YES
	LNAP-04-16	5	106	YES
LW-5S Vicinity	LNAP-04-18	5	<1	NO
	LNAP-04-19	4.5 -5	<1	NO
	LNAP-04-20	8.5 -9	39	NO
	LNAP-04-20	4 -4.5	<1	NO
	LNAP-04-21	9.8	41	NO
	LNAP-04-21	1.5	<1	NO
	LNAP-04-21	7.5 -8	29	YES
	LNAP-04-22	8.4	76	NO
	LNAP-04-23	4	50	YES

Notes:
1. Soils in jars were allowed to equilibrate to approx. 65 degrees F prior to taking PID readings.
2. For LNAPL shake-tests: water was added to cover the soils in the jars; the jars were agitated, and allowed to equilibrate for approx. 48 hours prior to noting the results.

ppmv = parts per million by volume
FT BGS = feet bgs

Completed by: TL/RTB
Checked by: DRP

TABLE 8-8
SUMMARY OF LNAPL MEASUREMENTS TAKEN ON 5/17/04

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

EXPLORATION AREA	LOCATION ID	PID READINGS (ppmv)	DEPTH TO WATER (FT below TOR)	DEPTH TO LNAPL (FT below TOR)	APPARENT LNAPL THICKNESS (FT)
WC-5S Vicinity	WC-5S[1]	9.0	3.515	3.510	0.005
	LNAP-04-01	BKGD	3.42	N.A.	N.A.
	LNAP-04-02	BKGD	3.56	N.A.	N.A.
	LNAP-04-03	BKGD	3.91	N.A.	N.A.
	LNAP-04-05	5.0	5.82	N.A.	N.A.
	LNAP-04-06	141.0	4.38	N.A.	N.A.
	LNAP-04-07	BKGD	4.49	N.A.	N.A.
	LNAP-04-08	BKGD	5.19	N.A.	N.A.
	LNAP-04-09	3.0	4.92	N.A.	N.A.
	LNAP-04-10	BKGD	4.50	N.A.	N.A.
	LNAP-04-11	BKGD	3.50	N.A.	N.A.
	LNAP-04-12	43.0	4.65	N.A.	N.A.
	LNAP-04-24	24.0	3.70	3.67	0.03
MW-3 Vicinity	MW-3[2]	N.A.	N.A.	N.A.	N.A.
	LNAP-04-13	139.0	4.69	N.A.	N.A.
	LNAP-04-14	2.0	4.75	N.A.	N.A.
	LNAP-04-15	BKGD	4.77	N.A.	N.A.
	LNAP-04-16	47.0	4.48	N.A.	N.A.
LW-5S Vicinity	LW-5S	14.0	5.08	4.83	0.25
	LNAP-04-20	0.6	5.11	N.A.	N.A.
	LNAP-04-21	2.0	5.28	N.A.	N.A.
	LNAP-04-22	BKGD	5.98	N.A.	N.A.
	LNAP-04-23	38.0	6.04	N.A.	N.A.

Notes:

1. Only a thin skimming was noted at time of measurement.
2. MW-3 could not be opened for measurement.

Completed by: TL/RTB
Checked by: DRP

TOR = top of riser
FT = feet
LNAPL = light non-aqueous phase liquid

ppmv = parts per million by volume
BKGD = background

TABLE 8-9
SUMMARY OF DNAPL MEASUREMENTS TAKEN ON 5/18/2004

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

LOCATION ID	PID READINGS (ppmv)	DEPTH TO WATER (FT below TOR)	DEPTH TO NAPL (FT below TOR)	TOTAL WELL DEPTH	APPARENT NAPL THICKNESS (FT)	COMMENTS
HESE-01-05D	BKGD	4.900	N.A.	166.8	N.A.	
HESE-01-06D	BKGD	5.10	N.A.	151.7	N.A.	
HESE-01-07D	0.3	4.97	N.A.	1287.0	N.A.	
HESE-01-08D	BKGD	4.46	N.A.	122.8	N.A.	
HESE-01-09D	1.0	4.95	N.A.	111.6	N.A.	
HESE-01-10D	1.3	5.20	N.A.	108.8	N.A.	
HESE-01-12D	1.0	4.99	154.5	155.7	1.2	difficult to measure
HESE-01-17D	2.2	3.83	N.A.	123.5	N.A.	
HESE-01-18D	N.A.	4.56	N.A.	49.0	N.A.	

Notes:

TOR = top of riser
NAPL = non-aqueous phase liquid
FT = feet
ppmv = parts per million by volume
N.A. = not applicable
BKGD = background

Completed by: TL/RTB
Checked by: DRP

TABLE 8-10
1999 SOIL VAPOR ANALYTICAL RESULTS
SUMMARY OF DETECTED ANALYTES AND CONCENTRATIONS EXCEEDING RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	NUMBER OF SAMPLES EXCEEDING RES VC	NUMBER OF SAMPLES EXCEEDING I/C VC	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	RES VC VALUE	I/C VC VALUE	MAX DETECT LOC ID	MAX DET DEPTH INTERVAL (FT, BGS)	
VOCs	1,1-Dichloroethene	54	17	6	0	0.041		5.06		ppmv	1.9	7	SG-99-49	3	3.5
VOCs	Tetrachloroethene	54	30	7	5	0.026		3.53		ppmv	0.56	1	SG-99-25	3	3.5
VOCs	Trichloroethene	54	45	34	28	0.019		210		ppmv	0.14	0.26	SG-99-04	3	3.5
VOCs	Vinyl chloride	54	21	3	2	0.01		1.69		ppmv	0.42	1	SG-99-48	3	3.5

Notes:
ppmv =parts per million by volume
FT, BGS = feet below ground surface
I/C VC = Proposed March 2003 Industrial/Commercial Volatilization Criteria
VOCs = volatile organic compounds

Prepared by: WCG
Checked by: DRP

TABLE 8-11
2004 SOIL VAPOR ANALYTICAL RESULTS
SUMMARY OF DETECTED ANALYTES AND CONCENTRATIONS EXCEEDING RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	NUMBER OF SAMPLES EXCEEDING RES VC	NUMBER OF SAMPLES EXCEEDING I/C VC	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	RES VC VALUE	I/C VC VALUE	MAX DETECT LOC ID	MAX DET DEPTH INTERVAL (IN, BGS)	
VOCs	1,1,1-Trichloroethane	68	56	0	0	0.0051		6.1		ppmv	70	130	SVM-04-21	10	31
VOCs	1,1-Dichloroethene	68	39	0	0	0.0053		1.6		ppmv	1.9	7	SVM-04-10	9	30
VOCs	Cis-1,2-Dichloroethene	68	35	2	0	0.0053		18		ppmv	3.4	35	SVM-04-23	10	31
VOCs	Tetrachloroethene	68	61	7	3	0.006		1.9		ppmv	0.56	1	SVM-04-29	10	31
VOCs	trans-1,2-Dichloroethene	68	9	0	0	0.0058		0.47		ppmv	7.1	70	SVM-04-23	10	31
VOCs	Trichloroethene	68	66	37	27	0.007		130		ppmv	0.14	0.26	SVM-04-21	10	31
VOCs	Vinyl chloride	68	7	2	0	0.0063		0.71		ppmv	0.041	1	SVM-04-18	10	31

Notes:
ppmv =parts per million by volume
IN, BGS = inches below ground surface
I/C VC = Proposed March 2003 Industrial/Commercial Volatilization Criteria
RES VC = Residential Volatilization Criteria
VOCs = volatile organic compounds

Prepared by: RTB
Checked by: DRP

TABLE 8-12
1999-2003 INDOOR AIR ANALYTICAL RESULTS
SUMMARY OF DETECTED ANALYTES AND CONCENTRATIONS EXCEEDING RSR CRITERIA

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	NUMBER OF SAMPLES	NUMBER OF DETECTIONS	NUMBER OF SAMPLES EXCEEDING RES IATC	NUMBER OF SAMPLES EXCEEDING I/C IATC	MIN DETECT	MIN QUAL	MAX DETECT	MAX QUAL	UNITS	RES IATC VALUE	I/C IATC VALUE	MAX DET LOC ID
VOCs	1,1,1-Trichloroethane	453	377	0	0	0.033		5		ppbv	91	91	IA-B6-02
VOCs	1,1-Dichloroethene	453	216	0	0	0.015		1.9		ppbv	2.5	5	IA-B12-01
VOCs	Cis-1,2-Dichloroethene	212	87	1	0	0.034		9.4		ppbv	4.46	24.8	IA-B6-02
VOCs	Tetrachloroethene	453	348	19	19	0.028		20		ppbv	0.73	0.73	IA-ML-01
VOCs	Trichloroethene	453	359	144	144	0.028		11		ppbv	0.18	0.18	IA-99-04
VOCs	Vinyl chloride	453	119	22	1	0.013		0.99		ppbv	0.0545	0.74	IA-99-01

Notes:
Data includes Rounds 1-35 of indoor air sampling
ppbv = parts per billion by volume
J = estimated value
I/C IATC = Proposed March 2003 Indoor Air Target Concentrations
RES IATC = Residential Indoor Air Target Concentrations
VOCs = volatile organic compounds

Prepared by: RTB
Checked by: DRP

TABLE 8-13
SEDIMENT DATA SUMMARY
REFERENCE LOCATIONS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
SVOCs	2-Methylnaphthalene	3/ 3	0.026		0.13		mg/kg	SDUS003A	0	0.5
SVOCs	Acenaphthene	3/ 3	0.04	P	0.24	P	mg/kg	SDUS003A	0	0.5
SVOCs	Anthracene	4/ 7	0.0064		0.11	J	mg/kg	U2-0-6	0	0.5
SVOCs	Benzo[a]anthracene	3/ 3	0.022		0.1		mg/kg	SDUS003A	0	0.5
SVOCs	Benzo[a]pyrene	4/ 7	0.035		0.22	J	mg/kg	U1-24-48	2	4
SVOCs	Benzo[b]fluoranthene	3/ 3	0.03	P	0.14	P	mg/kg	SDUS003A	0	0.5
SVOCs	Benzo[ghi]perylene	3/ 3	0.019	P	0.11		mg/kg	SDUS003A	0	0.5
SVOCs	Benzo[k]fluoranthene	3/ 3	0.017		0.079	P	mg/kg	SDUS003A	0	0.5
SVOCs	Chrysene	3/ 3	0.024		0.12		mg/kg	SDUS001A	0	0.5
SVOCs	Dibenz[a,h]anthracene	2/ 3	0.013		0.019		mg/kg	SDUS003A	0	0.5
SVOCs	Di-n-butylphthalate	2/ 2	0.87	J	1.2		mg/kg	IBG-0-12	0	1
SVOCs	Fluoranthene	3/ 3	0.036	P	0.25		mg/kg	SDUS003A	0	0.5
SVOCs	Fluorene	3/ 3	0.0032	P	0.011	P	mg/kg	SDUS003A	0	0.5
SVOCs	Indeno[1,2,3-cd]pyrene	3/ 3	0.019		0.089		mg/kg	SDUS003A	0	0.5
SVOCs	Naphthalene	2/ 3	0.02	P	0.035		mg/kg	SDUS001A	0	0.5
SVOCs	Phenanthrene	3/ 3	0.018		0.13		mg/kg	SDUS001A	0	0.5
SVOCs	Pyrene	3/ 3	0.045		0.27		mg/kg	SDUS003A	0	0.5
PCBs	Aroclor-1248	1/ 7	0.29	J	0.29	J	mg/kg	U2-0-6	0	0.5
PCBs	Aroclor-1260	3/ 7	0.03		0.084	J	mg/kg	U2-0-6	0	0.5
Metals	Aluminum	5/ 5	1790	J	11000		mg/kg	IBG-0-12	0	1
Metals	Antimony	4/ 8	0.61	BN	15.1		mg/kg	IBG-0-12	0	1
Metals	Arsenic	12/ 12	0.74	B	1123		mg/kg	SDUS003A	0	0.5
Metals	Barium	5/ 5	6.5	B	25.8	B	mg/kg	SDUS001A	0	0.5
Metals	Beryllium	7/ 9	0.08	B	0.71		mg/kg	U1-24-48	2	4
Metals	Cadmium	5/ 7	0.3		0.74	B	mg/kg	SDUS001A	0	0.5
Metals	Calcium	5/ 5	1080		2910		mg/kg	IBG-0-12	0	1
Metals	Chromium	9/ 9	9.1	N	38.7	N	mg/kg	SDUS001A	0	0.5
Metals	Cobalt	5/ 5	2.2	B	13.5		mg/kg	IBG-0-12	0	1
Metals	Copper	9/ 9	3.2		129		mg/kg	SDUS003A	0	0.5
Metals	Iron	5/ 5	3660	J	20000		mg/kg	IBG-0-12	0	1
Metals	Lead	9/ 9	3.3		22.4		mg/kg	SDUS001A	0	0.5

TABLE 8-13
SEDIMENT DATA SUMMARY
REFERENCE LOCATIONS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
Metals	Magnesium	5/ 5	1690		6810		mg/kg	IBG-0-12	0	1
Metals	Manganese	5/ 5	55.2		242		mg/kg	IBG-0-12	0	1
Metals	Mercury	4/ 7	0.16	B	0.22		mg/kg	U1-0-6	0	0.5
Metals	Methyl mercury	3/ 3	7.1E-05		0.00164		mg/kg	SDUS001A	0	0.5
Metals	Nickel	9/ 9	3.5	BN	21.6		mg/kg	IBG-0-12	0	1
Metals	Potassium	5/ 5	812		2840		mg/kg	IBG-0-12	0	1
Metals	Selenium	3/ 3	0.52	BN	0.76	BN	mg/kg	SDUS003A	0	0.5
Metals	Sodium	5/ 5	2750		6410	*	mg/kg	SDUS001A	0	0.5
Metals	Trivalent Arsenic	3/ 3	103	J	297	J	mg/kg	SDUS001A	0	0.5
Metals	Vanadium	5/ 5	4.7	B	26.5		mg/kg	IBG-0-12	0	1
Metals	Zinc	9/ 9	26.3	N	89.5	N	mg/kg	SDUS001A	0	0.5
WC	Carbon	3/ 3	9280		37000		mg/kg	SDUS003A	0	0.5

Notes:
VOCs = Volatile Organic Compound
SVOCs = Semi Volatile Organic Compound
J = Value is estimated
N = tentatively identified compound
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit.
P = a greater than 25 percent difference was detected between GC columns
W = post-digestion spike is out of control limits (85% - 115%) while sample absorbance is 5 less than 50 percent of "spike" absorbance.
* = Sample duplicate results not within control limits
D = dilution
mg/kg = milligrams per kilogram
ft. bgs. = feet below ground surface

Prepared by: WCG
Checked by: DRP

TABLE 8-14
SEDIMENT DATA SUMMARY
TIDAL FLATS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
VOCs	1,2-Dichloroethene (total)	3/ 22	0.002	J	0.003	J	mg/kg	SDTD007A	0	0.5
VOCs	Acetone	8/ 22	0.007	J	0.09	J	mg/kg	SDTD006B	0.5	2
VOCs	Carbon disulfide	10/ 22	0.002	J	0.056	J	mg/kg	SDTC006B	0.5	2
VOCs	Chlorobenzene	1/ 23	0.012		0.012		mg/kg	02-12-24	1	2
VOCs	Ethyl benzene	3/ 24	0.045	J	0.17		mg/kg	02-0-12	0	1
VOCs	Methyl butyl ketone	2/ 22	0.01		0.017		mg/kg	SDTB006A	0	0.5
VOCs	Methyl ethyl ketone	1/ 22	0.027		0.027		mg/kg	SDTA006B	0.5	2
VOCs	Methylene chloride	6/ 27	0.023		0.16	B	mg/kg	SDTA006B	0.5	2
VOCs	Toluene	4/ 24	0.002	J	0.059		mg/kg	02-0-12	0	1
VOCs	Trichloroethene	2/ 22	0.004		0.024	J	mg/kg	SDTD006A	0	0.5
VOCs	Xylenes, Total	2/ 22	0.002	J	0.12	J	mg/kg	SDTD006B	0.5	2
SVOCs	1,2,4-Trichlorobenzene	1/ 1	0.021	J	0.021	J	mg/kg	07-0-12	0	1
SVOCs	1-Methylnaphthalene	2/ 22	0.065		0.75	J	mg/kg	SDTD006B	0.5	2
SVOCs	2-Chloronaphthalene	1/ 1	0.024	J	0.024	J	mg/kg	01-12-24	1	2
SVOCs	2-Methylnaphthalene	27/ 27	0.007	J	1	PDJ	mg/kg	SDTG004A	0	0.5
SVOCs	4-Methylphenol	1/ 1	0.026	J	0.026	J	mg/kg	LT2-0-12	0	1
SVOCs	Acenaphthene	44/ 80	0.009	J	3.1	DJ	mg/kg	SDTG004A	0	0.5
SVOCs	Acenaphthylene	16/ 67	0.014	J	0.21	J	mg/kg	TF3-0-6	0	0.5
SVOCs	Anthracene	50/ 72	0.007		3.2		mg/kg	06-0-12	0	1
SVOCs	Benzo[a]anthracene	61/ 93	0.016		6.5	D	mg/kg	TF1-0-6	0	0.5
SVOCs	Benzo[a]pyrene	55/ 81	0.015	J	3.4	DJ	mg/kg	TF1-0-6	0	0.5
SVOCs	Benzo[b]fluoranthene	55/ 91	0.017	P	2.8	DJ	mg/kg	TF1-0-6	0	0.5
SVOCs	Benzo[ghi]perylene	41/ 73	0.022		1.8	DJ	mg/kg	TF1-0-6	0	0.5
SVOCs	Benzo[k]fluoranthene	55/ 91	0.012	P	3	DJ	mg/kg	TF1-0-6	0	0.5
SVOCs	Benzoic Acid	4/ 4	0.02	J	0.065	J	mg/kg	07-12-24	1	2
SVOCs	Bis(2-Ethylhexyl)phthalate	11/ 11	0.073		5.6	J	mg/kg	02-0-12	0	1
SVOCs	Butylbenzylphthalate	6/ 6	0.092	J	0.7	J	mg/kg	LT1-0-12	0	1
SVOCs	Chrysene	63/ 92	0.017		6.5	D	mg/kg	TF1-0-6	0	0.5

TABLE 8-14
SEDIMENT DATA SUMMARY
TIDAL FLATS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
SVOCs	Dibenz[a,h]anthracene	21/ 23	0.0054		0.54	J	mg/kg	06-0-12	0	1
SVOCs	Dibenzofuran	8/ 8	0.004	J	0.83	J	mg/kg	06-0-12	0	1
SVOCs	Diethylphthalate	2/ 2	0.006	J	0.055	J	mg/kg	01-12-24	1	2
SVOCs	Di-n-butylphthalate	13/ 13	0.76	J	5.7		mg/kg	LT1-12-24	1	2
SVOCs	Di-n-octylphthalate	3/ 3	0.014	J	0.032	J	mg/kg	06-0-12	0	1
SVOCs	Fluoranthene	69/ 95	0.012	J	14	D	mg/kg	TF1-0-6	0	0.5
SVOCs	Fluorene	34/ 52	0.0023	P	1.8	DJ	mg/kg	TF1-0-6	0	0.5
SVOCs	Indeno[1,2,3-cd]pyrene	38/ 61	0.018		1.9	J	mg/kg	06-0-12	0	1
SVOCs	Naphthalene	22/ 25	0.021	PJ	0.7	J	mg/kg	06-0-12	0	1
SVOCs	N-Nitrosodiphenylamine	5/ 5	0.1	J	0.3	J	mg/kg	01-12-24	1	2
SVOCs	Phenanthrene	65/ 91	0.011		11.0	J	mg/kg	06-0-12	0	1
SVOCs	Pyrene	71/ 94	0.011	J	12	D	mg/kg	TF1-0-6	0	0.5
PCBs	Aroclor-1248	37/ 77	0.035		130	J	mg/kg	TC1-0-6	0	0.5
PCBs	Aroclor-1254	12/ 32	0.048		54		mg/kg	SDTD006B	0.5	2
PCBs	Aroclor-1260	37/ 78	0.04	P	0.9		mg/kg	TE4-0-6	0	0.5
Metals	Aluminum	42/ 42	4510		18600		mg/kg	01-0-12	0	1
Metals	Antimony	46/ 79	0.82	N	28.5		mg/kg	05-12-24	1	2
Metals	Arsenic	98/ 98	0.005		13.6		mg/kg	SDTA006B	0.5	2
Metals	Barium	42/ 42	14.5		209		mg/kg	02-0-12	0	1
Metals	Beryllium	78/ 82	0.19		4.7		mg/kg	02-0-12	0	1
Metals	Cadmium	75/ 77	0.25		13.8		mg/kg	SDTD006B	0.5	2
Metals	Calcium	42/ 42	783		25400		mg/kg	SDTG004A	0	0.5
Metals	Chromium	96/ 96	7.5		1050		mg/kg	SDTD006B	0.5	2
Metals	Cobalt	42/ 42	4.7	B	55.9		mg/kg	02-0-12	0	1
Metals	Copper	98/ 98	5.3		1680		mg/kg	SDTC006B	0.5	2
Metals	Cyanide, Total	1/ 22	0.79		0.79		mg/kg	SDTD006B	0.5	2
Metals	Hydrogen Cyanide	2/ 2	0.31		0.54		mg/kg	05-0-12	0	1
Metals	Iron	42/ 42	8160		32500		mg/kg	01-0-12	0	1

TABLE 8-14
SEDIMENT DATA SUMMARY
TIDAL FLATS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
Metals	Lead	93/ 98	0.29		173		mg/kg	01-0-12	0	1
Metals	Magnesium	42/ 42	2200		10100		mg/kg	01-0-12	0	1
Metals	Manganese	42/ 42	102		1200		mg/kg	05-12-24	1	2
Metals	Mercury	68/ 93	0.1	B	523		mg/kg	TC1-0-6	0	0.5
Metals	Methyl mercury	22/ 22	1.9E-05		0.002851		mg/kg	SDTA007A	0	0.5
Metals	Nickel	91/ 98	2.2		789		mg/kg	02-0-12	0	1
Metals	Potassium	42/ 42	886		5100		mg/kg	01-0-12	0	1
Metals	Selenium	22/ 22	0.56	B	1.8	NJ	mg/kg	SDTG001A	0	0.5
Metals	Silver	47/ 84	0.75	B	383	J	mg/kg	TC5-0-6	0	0.5
Metals	Sodium	42/ 42	1550		17400		mg/kg	01-0-12	0	1
Metals	Thallium	11/ 22	0.2	BW	0.5	B	mg/kg	SDTD007A	0	0.5
Metals	Trivalent Arsenic	22/ 22	210	J	1063	J	mg/kg	SDTA007A	0	0.5
Metals	Vanadium	42/ 42	12.2		781		mg/kg	02-0-12	0	1
Metals	Zinc	88/ 88	44.3		636		mg/kg	SDTC006B	0.5	2
WC	Carbon	31/ 31	13700		145000		mg/kg	SDTA001A	0	0.5

Notes:
VOCs = Volatile Organic Compound
SVOCs = Semi Volatile Organic Compound
J = Value is estimated
N = tentatively identified compound
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit.
P = a greater than 25 percent difference was detected between GC columns
W = post-digestion spike is out of control limits (85% - 115%) while sample absorbance is 5 less than 50 percent of "spike" absorbance.
* = Sample duplicate results not within control limits
D = dilution
mg/kg = milligrams per kilogram
ft. bgs. = feet below ground surface

Prepared by: WCG
Checked by: DRP

TABLE 8-15
SEDIMENT DATA SUMMARY
MARINE BASIN

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
VOCs	Acetone	5/ 6	0.075	J	0.24		mg/kg	SWMB001A	0	0.5
VOCs	Carbon disulfide	4/ 6	0.007	J	0.009		mg/kg	SWMB002A	0	0.5
VOCs	Methyl ethyl ketone	2/ 5	0.058		0.058		mg/kg	SWMB001A	0	0.5
VOCs	Methylene chloride	2/ 6	0.003		0.007		mg/kg	SWMB001A	0	0.5
SVOCs	2-Methylnaphthalene	6/ 6	0.23	P	0.5	PJ	mg/kg	SDMB004A	0	0.5
SVOCs	Acenaphthene	7/ 8	0.081	J	1.4	P	mg/kg	SWMB001A	0	0.5
SVOCs	Acenaphthylene	1/ 7	0.18	J	0.18	J	mg/kg	MB-24-48	2	4
SVOCs	Anthracene	8/ 8	0.036	P	0.25	J	mg/kg	MB-24-48	2	4
SVOCs	Benzo[a]anthracene	7/ 7	0.21		1.2		mg/kg	MB-0-6	0	0.5
SVOCs	Benzo[a]pyrene	6/ 6	0.34		0.92		mg/kg	MB-0-6	0	0.5
SVOCs	Benzo[b]fluoranthene	7/ 8	0.24	P	0.71		mg/kg	SWMB001A	0	0.5
SVOCs	Benzo[ghi]perylene	7/ 8	0.15	J	0.49		mg/kg	SWMB001A	0	0.5
SVOCs	Benzo[k]fluoranthene	7/ 8	0.15	P	0.43	J	mg/kg	MB-24-48	2	4
SVOCs	Chrysene	7/ 7	0.26		1.5		mg/kg	MB-0-6	0	0.5
SVOCs	Dibenz[a,h]anthracene	6/ 6	0.03	P	0.059	P	mg/kg	SWMB001A	0	0.5
SVOCs	Fluoranthene	7/ 7	0.46		1.4		mg/kg	MB-24-48	2	4
SVOCs	Fluorene	6/ 8	0.016	P	0.047	PJ	mg/kg	SDMB004A	0	0.5
SVOCs	Indeno[1,2,3-cd]pyrene	7/ 8	0.15		0.44	DJ	mg/kg	SDMB004A	0	0.5
SVOCs	Naphthalene	3/ 6	0.068	PJ	0.077	J	mg/kg	MB-24-48	2	4
SVOCs	Phenanthrene	7/ 7	0.19		0.86		mg/kg	MB-0-6	0	0.5
SVOCs	Pyrene	6/ 6	0.59		2		mg/kg	MB-24-48	2	4
PCBs	Aroclor-1248	1/ 6	0.03	P	0.032	P	mg/kg	SDMB004A	0	0.5
PCBs	Aroclor-1254	3/ 7	0.026		0.14		mg/kg	SDMB004A	0	0.5
PCBs	Aroclor-1260	8/ 8	0.03		0.18		mg/kg	SDMB003A	0	0.5
Metals	Aluminum	6/ 6	5790	J	14200		mg/kg	SWMB001A	0	0.5
Metals	Antimony	4/ 5	0.57	BN	1.5	BN	mg/kg	SDMB003A	0	0.5
Metals	Arsenic	12/ 12	1.8		3122		mg/kg	SDMB001A	0	0.5
Metals	Barium	6/ 6	23.7	B	57.6	B	mg/kg	SWMB001A	0	0.5
Metals	Beryllium	8/ 8	0.22	B	0.76	B	mg/kg	SWMB001A	0	0.5
Metals	Cadmium	8/ 8	0.58	B	2.3		mg/kg	SWMB001A	0	0.5
Metals	Calcium	6/ 6	2300		7270		mg/kg	SDMB004A	0	0.5

TABLE 8-15
SEDIMENT DATA SUMMARY
MARINE BASIN

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION		
								SAMPLE ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
Metals	Chromium	8/ 8	25.5	N	158		mg/kg	MB-24-48	2	4
Metals	Cobalt	6/ 6	5.6	B	10.9	B	mg/kg	SWMB001A	0	0.5
Metals	Copper	8/ 8	88.5		519		mg/kg	MB-24-48	2	4
Metals	Iron	6/ 6	9840	J	28300		mg/kg	SWMB001A	0	0.5
Metals	Lead	8/ 8	18.2		99.1		mg/kg	MB-0-6	0	0.5
Metals	Magnesium	6/ 6	5000		9960		mg/kg	SWMB001A	0	0.5
Metals	Manganese	6/ 6	39.4		377		mg/kg	SWMB001A	0	0.5
Metals	Mercury	7/ 8	0.21	B	1.3		mg/kg	MB-24-48	2	4
Metals	Methyl mercury	4/ 4	0.001		0.003322		mg/kg	SDMB003A	0	0.5
Metals	Nickel	8/ 8	9.8	N	33.3		mg/kg	MB-24-48	2	4
Metals	Potassium	6/ 6	2530		5850		mg/kg	SWMB001A	0	0.5
Metals	Selenium	6/ 6	0.66	BN	1.9		mg/kg	SWMB001A	0	0.5
Metals	Sodium	6/ 6	4690	*	23100	*	mg/kg	SWMB001A	0	0.5
Metals	Thallium	1/ 4	0.14	BNW	0.14	BNW	mg/kg	SDMB004A	0	0.5
Metals	Trivalent Arsenic	4/ 4	222	J	1303	J	mg/kg	SDMB001A	0	0.5
Metals	Vanadium	6/ 6	16.6		42.4		mg/kg	SWMB001A	0	0.5
Metals	Zinc	8/ 8	93.5	N	404		mg/kg	MB-24-48	2	4
WC	Carbon	4/ 4	10100		201000		mg/kg	SDMB003A	0	0.5

Notes:
VOCs = Volatile Organic Compound
SVOCs = Semi Volatile Organic Compound
J = Value is estimated
N = tentatively identified compound
* = Sample duplicate results not within control limits
D = dilution
mg/kg = milligrams per kilogram
ft. bgs. = feet below ground surface
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit.
P = a greater than 25 percent difference was detected between GC columns
W = post-digestion spike is out of control limits (85% - 115%) while sample absorbance is 5 less than 50 percent of "spike" absorbance.

Prepared by: WCG
Checked by: DRP

TABLE 8-16
SEDIMENT DATA SUMMARY
OUTFALL 008 DRAINAGE

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION			
								SAMPLE ID	LOC ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
VOCs	1,2-Dichloroethene (total)	1/ 3	0.004	J	0.004	J	mg/kg	SD08003A	SD08003A	0	0.5
VOCs	Acetone	3/ 3	0.074		0.42	D	mg/kg	SD08001A	SD08001A	0	0.5
VOCs	Carbon disulfide	2/ 3	0.004	J	0.005	J	mg/kg	SD08001A	SD08001A	0	0.5
VOCs	Chlorobenzene	1/ 3	0.032		0.032		mg/kg	SD08002A	SD08002A	0	0.5
VOCs	Methyl ethyl ketone	2/ 3	0.054		0.17		mg/kg	SD08001A	SD08001A	0	0.5
SVOCs	2,4-Dinitrotoluene	1/ 1	0.26	J	0.26	J	mg/kg	08-BG-0-12	008	0	1
SVOCs	2-Methylnaphthalene	4/ 4	0.15	P	6.5	PD	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Acenaphthene	6/ 7	0.23	J	11	PD	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Acenaphthylene	3/ 7	0.082	J	0.16	J	mg/kg	08-12-24	OF-008 (SD)	1	2
SVOCs	Anthracene	7/ 8	0.015	P	2.6	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Benzo[a]anthracene	8/ 8	0.094		7.5	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Benzo[a]pyrene	8/ 8	0.16		6.5	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Benzo[b]fluoranthene	8/ 8	0.18		7.4	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Benzo[ghi]perylene	5/ 6	0.097	P	3.1	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Benzo[k]fluoranthene	8/ 8	0.082		4	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Bis(2-Ethylhexyl)phthalate	4/ 4	0.42		1.6		mg/kg	08-0-12	OF-008 (SD)	0	1
SVOCs	Chrysene	8/ 8	0.097		7.4	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Dibenz[a,h]anthracene	3/ 3	0.019		0.56	PD	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Dibenzofuran	3/ 3	0.039	J	0.066	J	mg/kg	08-12-24	OF-008 (SD)	1	2
SVOCs	Di-n-octylphthalate	2/ 2	0.028	J	0.041	J	mg/kg	08-BG-12-24	008	1	2
SVOCs	Fluoranthene	8/ 8	0.24	P	22	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Fluorene	5/ 5	0.0091	P	1.1	PD	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Indeno[1,2,3-cd]pyrene	6/ 6	0.078		3.7	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Naphthalene	4/ 4	0.056	P	0.72	J	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	N-Nitrosodi-n-propylamine	2/ 2	0.18	J	1.10	J	mg/kg	08-12-24	OF-008 (SD)	1	2
SVOCs	N-Nitrosodiphenylamine	4/ 4	0.39	J	1.30		mg/kg	08-0-12	OF-008 (SD)	0	1
SVOCs	Phenanthrene	7/ 8	0.12		9.7	D	mg/kg	SD08003A	SD08003A	0	0.5
SVOCs	Pyrene	8/ 8	0.26		19	D	mg/kg	SD08003A	SD08003A	0	0.5
PCBs	Aroclor-1248	1/ 5	0.13	J	0.13	J	mg/kg	0005176-09A	008	0	0.5
PCBs	Aroclor-1254	2/ 6	0.76	J	1.1		mg/kg	08-0-12	OF-008 (SD)	0	1
PCBs	Aroclor-1260	5/ 6	0.076		1.5		mg/kg	SD08002A	SD08002A	0	0.5
Metals	Aluminum	7/ 7	7250		13300		mg/kg	SD08001A	SD08001A	0	0.5
Metals	Antimony	7/ 7	0.84	BN	69.7		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Arsenic	9/ 9	6.1		35.3		mg/kg	08-BG-0-12	008	0	1
Metals	Barium	7/ 7	41		135		mg/kg	SD08002A	SD08002A	0	0.5

TABLE 8-16
SEDIMENT DATA SUMMARY
OUTFALL 008 DRAINAGE

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	MAXIMUM CONCENTRATION			
								SAMPLE ID	LOC ID	TOP OF SAMPLE (FT BGS)	BOTTOM OF SAMPLE (FT BGS)
Metals	Beryllium	5/ 5	0.38	B	1.3		mg/kg	008-0-6	008	0	0.5
Metals	Cadmium	8/ 8	1.1		27.4		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Calcium	7/ 7	1310		19300		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Chromium	9/ 9	157		16200		mg/kg	008-0-6	008	0	0.5
Metals	Cobalt	7/ 7	6.6	B	13.7		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Copper	9/ 9	99.9		5520		mg/kg	008-0-6	008	0	0.5
Metals	Cyanide, Total	2/ 3	1		1.9		mg/kg	SD08002A	SD08002A	0	0.5
Metals	Hydrogen Cyanide	2/ 2	0.27		4.6		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Iron	7/ 7	17200		36200		mg/kg	SD08002A	SD08002A	0	0.5
Metals	Lead	9/ 9	47.8		385		mg/kg	008-0-6	008	0	0.5
Metals	Magnesium	7/ 7	4220		19200		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Manganese	7/ 7	178		772		mg/kg	08-0-12	OF-008 (SD)	0	1
Metals	Mercury	8/ 8	0.17	B	1		mg/kg	008-0-6	008	0	0.5
Metals	Methyl mercury	3/ 3	0.00138		0.00187		mg/kg	SD08003A	SD08003A	0	0.5
Metals	Nickel	9/ 9	24.5		1230		mg/kg	008-0-6	008	0	0.5
Metals	Potassium	7/ 7	1150		4600		mg/kg	SD08001A	SD08001A	0	0.5
Metals	Selenium	3/ 3	0.7	B	2.6		mg/kg	SD08002A	SD08002A	0	0.5
Metals	Silver	5/ 6	1		33.6		mg/kg	008-0-6	008	0	0.5
Metals	Sodium	7/ 7	971		23500	*	mg/kg	SD08001A	SD08001A	0	0.5
Metals	Thallium	1/ 3	0.4	B	0.4	B	mg/kg	SD08002A	SD08002A	0	0.5
Metals	Trivalent Arsenic	3/ 3	434	J	707	J	mg/kg	SD08001A	SD08001A	0	0.5
Metals	Vanadium	7/ 7	21.2		44		mg/kg	SD08002A	SD08002A	0	0.5
Metals	Zinc	9/ 9	93.8		743	J	mg/kg	008-0-6	008	0	0.5
WC	Carbon	3/ 3	71700		210000		mg/kg	SD08002A	SD08002A	0	0.5

Notes:
VOCs = Volatile Organic Compounds
SVOCs = Semi Volatile Organic Compounds
J = Value is estimated
N = tentatively identified compound
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit.
P = a greater than 25 percent difference was detected between GC columns
W = post-digestion spike is out of control limits (85% - 115%) while sample absorbance is 5 less than 50 percent of "spike" absorbance.
* = Sample duplicate results not within control limits
D = dilution
mg/kg = milligrams per kilogram
ft. bgs. = feet below ground surface

Prepared by: WCG
Checked by: DRP

TABLE 8-17
NEANTHES ARENACEODENTATA SEDIMENT TOXICITY ANALYSES

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

SAMPLING STATION	*NEANTHES ARENACEODENTATA*	
	SURVIVAL (%)	MEAN DRY WEIGHT (MG/SURVIVING ORGANISM + SD)
Laboratory Control		
Control	92	1.92 (±1.20)
Intertidal Mudflat		
SDTA006A	68	6.89 (±6.58)
SDTA007A	60[a]	8.13 (±8.07)
SDTB006A	68	7.10 (±9.19)
SDTB007A	68	8.96 (±11.64)
SDTC006A	60[a]	4.93 (±5.16)
SDTC007A	80	1.16 (±0.47)
SDTD006A	92	1.42 (±0.51)
SDTD007A	96	1.95 (±0.72)
SDTG002A	84	1.15 (±0.62)
SDTH001A	92	0.69 (±0.24)[b]
Marine Basin		
SDMB001A	100	4.01 (±1.34)
SDMB002A	100	6.61 (±2.53)
SDMB003A	88	3.53 (±1.89)
SDMB004A	92	3.65 (±1.49)
Outfall 008 Drainage		
SD08001A	100	2.03 (±0.65)
SD08002A	92	2.59 (±0.62)
SD08003A	92	2.31 (±0.75)
Reference Area		
SDUS001A	96	2.85 (±1.15)
SDUS002A	92	5.55 (±2.30)
SDUS003A	88	3.21 (±1.08)

Notes:
a - Significantly different from the control based on percent survival.
b - Significantly different from the control based on mean dry weight.

Source: URSGWC, 2000

TABLE 8-18
LEPTOCHEIRUS PLUMULOSUS SEDIMENT TOXICITY ANALYSIS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

SAMPLING STATION	*LEPTOCHEIRUS PLUMULOSUS*			
	SURVIVAL (%)	MEAN DRY WEIGHT MG/SURVIVING ORGANISM (± SD)	MEAN FECUNDITY (% FEMALES WITH EGGS)	MEAN OFFSPRING PRODUCTION (± SD)
Laboratory Control				
Control	88	0.68 (±0.25)	65	28.8 (±12.1)
Intertidal Mudflat				
SDTA006A	64[a]	0.23 (±0.09)[b]	38[b]	d
SDTA007A	29[a]	0.17 (±0.13)[b]	c	d
SDTB006A	36[a]	0.16 (±0.04)[b]	50[b]	d
SDTB007A	11[a]	0.05 (±0.03)[b]	c	d
SDTC006A	0[b]	--	c	d
SDTC007A	12[a]	0.09 (±0.06)[b]	100[b]	d
SDTD006A	5[a]	0.13 (±0.00)[b]	c	d
SDTD007A	14[a]	0.31 (±0.15)[b]	50[b]	d
SDTG002A	6[a]	0.09 (±0.05)[b]	c	d
SDTH001A	8[a]	0.17 (±0.08)[b]	c	d
Marine Basin				
SDMB001A	83	1.19 (±0.14)	81	30.2 (±12.8)
SDMB002A	8[a]	1.43 (±0.63)[b]	100[b]	d
SDMB003A	77	1.24 (±0.19)	76	59.8 (±40.6)
SDMB004A	83	0.67 (±0.29)	63	31.0 (±18.7)
Outfall 008 Drainage				
SD08001A	85	1.14 (±0.19)	93	64.0 (±26.2)
SD08002A	59[a]	0.29 (±0.12)[b]	25[b]	d
SD08003A	75	1.14 (±0.14)	93	35.6 (±6.4)
Reference Area				
SDUS001A	39[a]	1.10 (±0.19)[b]	86[b]	d
SDUS002A	90	0.87 (±0.11)	91	41.0 (±10.8)
SDUS003A	22[a]	0.72 (±0.15)[b]	38[b]	d

Notes:
a - Significantly different from the control based on percent survival.
b - Samples that had no surviving organisms or significantly less survival than the control are not included in statistical analyses.
c - Sample had no surviving mature females.
d - Sample was not analyzed for offspring production because sample was already significantly different from the control based on survival.

Source: URSGWC, 2000

TABLE 8-19
AQUATIC INVERTEBRATE BIOACCUMULATION SUMMARY FOR SITE AREAS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

PARAMETER	TIDAL FLATS									
	SDTA006	SDTA007	SDTB006	SDTB007	SDTC006	SDTC007	SDTD006	SDTD007	SDTG002	SDTH001
PESTICIDES/PCB (µg/kg)										
PCB-1248 (AROCLOR 1248)	17	U	15	15	80	24	**170**	41	49	26
PCB-1254 (AROCLOR 1254)	33	U	29	24	77	28	**130**	33	38	28
PCB-1260 (AROCLOR 1260)	U	U	U	U	U	U	U	U	U	U
METALS (mg/kg)										
ALUMINUM	U	U	U	14.1	U	U	U	U	U	**18.3**
ARSENIC	3	3.3	3.1	3.1	3.2	**3.6**	3.2	2.9	3.1	2.7
CADMIUM	0.16	0.14	0.15	0.15	**0.22**	0.13	0.18	0.14	0.13	0.19
CALCIUM	293	279	273	269	284	274	280	276	276	**313**
CHROMIUM, TOTAL	U	U	U	U	U	U	**2.8**	U	U	U
COPPER	4.9	11.5	3.4	**21.1**	11.8	5.7	6.5	3	6.5	9
IRON	52	58.8	51.1	95.7	59.7	55.8	61.2	50.7	63.7	**99.6**
LEAD	0.73	**0.89**	0.62	0.79	0.74	0.66	0.67	0.63	0.63	0.68
MAGNESIUM	546	544	507	547	550	556	558	538	542	**618**
MERCURY	U	U	U	U	**1.3**	U	U	U	U	U
NICKEL	U	U	U	0.52	0.9	0.83	**2.8**	0.5	U	U
POTASSIUM	2820	2710	2700	2730	2770	2660	2640	2760	2730	**2980**
SILVER	U	U	U	0.73	**0.99**	0.44	0.77	0.45	0.6	0.88
SODIUM	4190	3750	4280	3750	4070	3900	4210	4190	4090	**4690**
ZINC	**54.1**	27.7	15.9	35.9	29.9	37	18.4	34.1	30	36.5

Notes:
U - Nondetect
Maximum values for each sampling area are bolded.

Source: URSGWC, 2000

TABLE 8-19
AQUATIC INVERTEBRATE BIOACCUMULATION SUMMARY FOR SITE AREAS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

PARAMETER	MARINE BASIN				OUTFALL 008 DRAINAGE			REFERENCE AREA		
	SDMB001	SDMB002	SDMB003	SDMB004	SD08001	SD08002	SD08003	SDUS001	SDUS002	SDUS003
PESTICIDES/PCB (µg/kg)										
PCB-1248 (AROCLOR 1248)	U	U	U	U	U	U	U	U	U	U
PCB-1254 (AROCLOR 1254)	U	U	U	U	U	U	U	U	U	U
PCB-1260 (AROCLOR 1260)	U	U	U	U	**33**	23	16	U	U	U
METALS (mg/kg)										
ALUMINUM	U	U	U	U	U	U	U	**32**	U	U
ARSENIC	1.8	1.6	**1.9**	1.7	**2.3**	1.8	1.7	1.9	**2.7**	1.9
CADMIUM	0.09	0.09	**0.12**	0.12	**0.11**	0.1	0.09	0.11	**0.13**	0.13
CALCIUM	282	285	**285**	285	271	**275**	269	279	313	**327**
CHROMIUM, TOTAL	U	U	**6.4**	3	**1.8**	U	U	U	**3.8**	U
COPPER	**3.6**	2.7	2.8	2.8	4.6	**5.7**	2.9	**4.5**	3.6	3.8
IRON	52.5	63.2	**74.4**	62.3	**66.6**	56.5	61.5	**124**	74.3	68.8
LEAD	0.39	0.53	**0.77**	0.63	**1.5**	0.95	0.42	**0.88**	0.54	0.76
MAGNESIUM	620	**988**	514	503	536	542	**611**	532	**572**	572
MERCURY	U	U	U	U	U	U	U	U	U	U
NICKEL	U	U	**6.3**	4.1	**2.8**	U	U	U	**5.2**	U
POTASSIUM	**2700**	2530	2580	2570	**2740**	2630	2700	2770	**2990**	2700
SILVER	U	U	U	U	**0.74**	U	U	U	U	U
SODIUM	**4210**	4000	4060	3890	3930	**4110**	3920	3980	4300	**4600**
ZINC	18.4	21.4	**34.7**	31.3	**50.7**	24.5	24.2	**52.6**	23.8	45.2

Notes:
U - Nondetect
Maximum values for each sampling

Source: URSGWC, 2000

TABLE 8-20
BENTHIC MACROINVERTEBRATE SUMMARY, MAY 1999

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

TAXON	UPSTREAM REFERENCE			INTERTIDAL MUDFLATS		MARINE BASIN				OUTFALL 008 DRAINAGE		
	US-1	US-2	US-3	TG-2	TH-1	MB-1	MB-2	MB-3	MB-4	08-1	08-2	08-3
ANNELIDA												
Oligochaeta												
Unid. Oligochaeta	91	5	78	311	172	2	103	849	141	313	560	750
Enchytraeidae											236	
Naididae											113	
Polychaeta												
Unid. Polychaeta								2				
Amphicorinidae												
Amphicora fabricii											3	
Capitellidae												
Capitella capitata										1		
Heteromastus filiformis												1
Mediomastus ambiseta					425		1					9
Cirratulidae												
Tharyx acutus									6			
Glyceridae												
Glycera sp.			1									
Nereidae												
Nereis succinea					4				2			
Nereis virens	6	2	2	52		15	28	104	3	7	12	46
Nereis sp.			3									
Orbiniidae												
Scoloplos robustus	1	1			3		10	3	1			
Phyllodocidae												
Eteone heteropoda	171	9	119	49	150	7	82	85	25			23
Sabellidae												
Potamilla neglecta										3		
Spionidae												
Polydora ligni												1
Pygospio elegans					1							
Scolecolepides viridis	29	308	97	21	2				28		1	7
Streblospio benedicti	11	4	282	120	234		91	289	39		14	72

TABLE 8-20
BENTHIC MACROINVERTEBRATE SUMMARY, MAY 1999

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

TAXON	UPSTREAM REFERENCE			INTERTIDAL MUDFLATS		MARINE BASIN				OUTFALL 008 DRAINAGE		
	US-1	US-2	US-3	TG-2	TH-1	MB-1	MB-2	MB-3	MB-4	08-1	08-2	08-3
ARTHROPODA												
Chelicerata												
Merostomata (Xiphosura)												
Limulus polyphemus									1			
Crustacea												
Lepadidae												
Lepas sp.						1						
Paguridae												
Paguris pubescens							1					
Pinnotheridae												
Pinnixa chaetoptera					8							
Portunidae												
Carcinus maenas		1										
Amphipoda												
Unid. Amphipoda (juveniles)	1		19		3	5			11			2
Ampeliscidae												
Ampelisca abdita			1				4					
Aoridae												
Leptocheirus plumulosus	88	9	21	2		1	28					1
Microdeutopus gryllotalpa	6											1
Corophiidae												
Corophium sp.												13
Gammaridae												
Gammarus mucronatus					7	1		5				2
Gammarus palustrus			7					1				
Oedicerotidae												
Monoculodes edwardsi	46	36	6	1		1					2	
Isopoda												
Idoteidae												
Edotea triloba	3	6	13	2	1							

TABLE 8-20
BENTHIC MACROINVERTEBRATE SUMMARY, MAY 1999

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

TAXON	UPSTREAM REFERENCE			INTERTIDAL MUDFLATS		MARINE BASIN				OUTFALL 008 DRAINAGE		
	US-1	US-2	US-3	TG-2	TH-1	MB-1	MB-2	MB-3	MB-4	08-1	08-2	08-3
COELENTERA												
Actinaria												
Unid. Actinaria								2				
MOLLUSCA												
Bivalva (Pelecypoda)												
Unid. Bivalva												1
Mactridae												
Mulinia lateralis					5							
Myacidae												
Mya arenaria				2	3			3		1		2
Mytilidae												
Modiolus sp. (juveniles)			1									
Tellinidae												
Tellina agilis									7			
Veneridae												
Chione purpurea												1
Gemma gemma			1	511	19		10	2	11			1
Gastropoda												
Atyidae												
Haminoea solitaria							43				1	
Hydrobiidae												
Hydrobia minuta			3	62	1			20		5	35	2
Nassariidae												
Illyanasa obsoleta				1	11		3		2			3
Pyramidellidae												
Odostomia bisuturalis				1								
Retusidae												
Retusa canaliculata						1						
PLATYHELMINTHES												
Turbellaria												
Unid. Turbellaria					3							
TOTAL Number of Taxa	11	10	16	13	18	9	12	12	13	6	10	19
TOTAL Number of Individuals	453	381	654	1135	1052	34	404	1365	277	330	977	938

SOURCE: URSGWC, 2000

TABLE 8-21
SURFACE WATER DATA SUMMARY
REFERENCE LOCATIONS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

AREA	CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	SAMPLE ID OF MAXIMUM CONCENTRATION
REF	SVOCs	Benzo[a]pyrene	1/ 6	8.8E-05		8.8E-05		mg/L	SWUS001L
REF	SVOCs	Benzo[b]fluoranthene	1/ 6	7.1E-05	JP	7.1E-05	JP	mg/L	SWUS001L
REF	SVOCs	Benzo[ghi]perylene	1/ 6	0.00014	JP	0.00014	JP	mg/L	SWUS001L
REF	SVOCs	Indeno[1,2,3-cd]pyrene	1/ 6	0.00017		0.00017		mg/L	SWUS001L
REF	Metals	Aluminum	13/ 13	0.111	B	0.356		mg/L	SWUS001L
REF	Metals	Antimony	13/ 13	0.0044	B	0.122		mg/L	IBG-SW
REF	Metals	Arsenic	11/ 18	0.0018	B	1	J	mg/L	SWUS001H
REF	Metals	Calcium	13/ 13	156	*	313	*	mg/L	SWUS001H
REF	Metals	Copper	1/ 13	0.007		0.007		mg/L	IBG-SW
REF	Metals	Iron	13/ 13	0.0688	B	0.472		mg/L	SWUS001L
REF	Metals	Lead	7/ 12	0.0011	B	0.004		mg/L	SWUS001L
REF	Metals	Magnesium	13/ 13	459	J	973	J	mg/L	SWUS002HD
REF	Metals	Manganese	13/ 13	0.0086	B	0.0854		mg/L	SWUS001L
REF	Metals	Methyl mercury	1/ 6	1.18E-07	J	1.18E-07	J	mg/L	SWUS001L
REF	Metals	Potassium	13/ 13	182	J	424	J	mg/L	SWUS002HD
REF	Metals	Sodium	12/ 12	3780	J	7970	J	mg/L	SWUS003HD
REF	Metals	Trivalent Arsenic	6/ 6	0.039		0.071		mg/L	SWUS002L
REF	Metals	Vanadium	1/ 13	0.016	J	0.016	J	mg/L	IBG-SW
REF	Metals	Zinc	6/ 12	0.0034	B	0.0109	B	mg/L	SWUS001L

Notes:

TF = Tidal Flats
MB = Marine Basin
OF8 = Outfall 008 Drainage
REF = Reference Locations
mg/L = milligrams per liter
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit
* = sample duplicate results not within control limits
J = value is estimated
P = a greater than 25 percent difference was detected between GC columns
E = concentration exceeds upper limit of calibration range

Prepared by: WCG
Checked by: DRP

TABLE 8-22
SURFACE WATER DATA SUMMARY
TIDAL FLATS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

AREA	CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	SAMPLE ID OF MAXIMUM CONCENTRATION
TF	VOCs	1,1,1-Trichloroethane	1/ 1	0.015		0.015		mg/L	07-SW
TF	VOCs	1,1-Dichloroethane	2/ 2	0.004	J	0.013		mg/L	07-SW
TF	VOCs	1,1-Dichloroethene	2/ 2	0.003	J	0.005		mg/L	04-SW
TF	VOCs	1,2-Dichloroethene (total)	6/ 6	0.001	J	0.048		mg/L	07-SW
TF	VOCs	Bromodichloromethane	1/ 1	0.005		0.005		mg/L	07-SW
TF	VOCs	Carbon disulfide	2/ 2	0.001	J	0.002	J	mg/L	LT2-SW
TF	VOCs	Chloroform	1/ 1	0.015		0.015		mg/L	07-SW
TF	VOCs	Toluene	1/ 1	0.001	J	0.001	J	mg/L	LT1-SW
TF	VOCs	Trichloroethene	2/ 2	0.002	J	0.008		mg/L	07-SW
TF	SVOCs	2-Methylnaphthalene	1/ 1	0.001	J	0.001	J	mg/L	07-SW
TF	SVOCs	4-Methylphenol	1/ 1	0.001	J	0.001	J	mg/L	07-SW
TF	SVOCs	Benzoic Acid	1/ 1	0.001	J	0.001	J	mg/L	07-SW
TF	SVOCs	Fluorene	1/ 1	0.001	J	0.001	J	mg/L	07-SW
TF	SVOCs	Naphthalene	2/ 2	0.001	J	0.001	J	mg/L	LT1-SW
TF	SVOCs	Phenanthrene	1/ 1	0.001	J	0.001	J	mg/L	07-SW
TF	Metals	Aluminum	10/ 10	0.096		7.7		mg/L	03-SW
TF	Metals	Antimony	9/ 9	0.055		0.107		mg/L	LT2-SW
TF	Metals	Arsenic	2/ 2	0.006		0.008		mg/L	LT3-SW
TF	Metals	Barium	8/ 8	0.012		0.046		mg/L	03-SW
TF	Metals	Cadmium	2/ 2	0.003		0.004		mg/L	LT1-SW
TF	Metals	Calcium	10/ 10	21		273		mg/L	LT3-SW
TF	Metals	Chromium	6/ 6	0.006		0.11		mg/L	03-SW
TF	Metals	Cobalt	1/ 1	0.006		0.006		mg/L	03-SW
TF	Metals	Copper	9/ 9	0.006		0.214		mg/L	03-SW
TF	Metals	Hydrogen Cyanide	1/ 1	1E-05		1E-05		mg/L	07-SW
TF	Metals	Iron	10/ 10	0.133		15		mg/L	03-SW
TF	Metals	Lead	3/ 3	0.02		0.052		mg/L	04-SW
TF	Metals	Magnesium	10/ 10	7		915		mg/L	LT3-SW
TF	Metals	Manganese	10/ 10	0.018		0.456		mg/L	03-SW
TF	Metals	Mercury	6/ 6	0.0002		0.0006		mg/L	03-SW
TF	Metals	Nickel	1/ 1	0.034		0.034		mg/L	LT2-SW
TF	Metals	Potassium	10/ 10	3.61		292		mg/L	LT3-SW
TF	Metals	Sodium	7/ 7	81.3		6880		mg/L	05-SW
TF	Metals	Vanadium	8/ 8	0.007		0.037		mg/L	03-SW
TF	Metals	Zinc	8/ 8	0.008		0.294		mg/L	07-SW

Notes:

TF = Tidal Flats
MB = Marine Basin
OF8 = Outfall 008 Drainage
REF = Reference Locations
mg/L = milligrams per liter
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit
* = sample duplicate results not within control limits
J = value is estimated
P = a greater than 25 percent difference was detected between GC columns
E = concentration exceeds upper limit of calibration range

Prepared by: WCG
Checked by: DRP

TABLE 8-23
SURFACE WATER DATA DATA SUMMARY
MARINE BASIN

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

AREA	CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	SAMPLE ID OF MAXIMUM CONCENTRATION
MB	VOCs	1,2-Dichloroethene (total)	1/ 8	0.001		0.001		mg/L	SWMB001L
MB	VOCs	Acetone	1/ 8	0.007	B	0.007	B	mg/L	SWMB002H
MB	VOCs	Methyl ethyl ketone	1/ 8	0.005		0.005		mg/L	SWMB002H
MB	VOCs	Methylene chloride	4/ 8	0.001	B	0.002	B	mg/L	SWMB002L
MB	Metals	Aluminum	16/ 16	0.0755	B	0.41		mg/L	SWMB003HD
MB	Metals	Antimony	14/ 16	0.003	B	0.0087		mg/L	SWMB003LD
MB	Metals	Arsenic	14/ 24	0.0017	B	1.03	J	mg/L	SWMB003H
MB	Metals	Barium	4/ 16	0.0097	B	0.0122	B	mg/L	SWMB002H
MB	Metals	Calcium	16/ 16	62.8	*	301	*	mg/L	SWMB004LD
MB	Metals	Chromium	5/ 16	0.00092	B	0.0032	B	mg/L	SWMB001L
MB	Metals	Copper	8/ 16	0.0059	B	0.0107		mg/L	SWMB001L
MB	Metals	Iron	16/ 16	0.0519	B	0.61		mg/L	SWMB003HD
MB	Metals	Lead	6/ 16	0.0011	B	0.0034		mg/L	SWMB003HD
MB	Metals	Magnesium	16/ 16	148	*	940	J	mg/L	SWMB004LD
MB	Metals	Manganese	16/ 16	0.0132	B	0.141		mg/L	SWMB002LD
MB	Metals	Methyl mercury	1/ 8	9.3E-08	J	9.3E-08	J	mg/L	SWMB003H
MB	Metals	Nickel	8/ 16	0.0024	B	0.0038	B	mg/L	SWMB001L
MB	Metals	Potassium	16/ 16	51.8	*	406	J	mg/L	SWMB004LD
MB	Metals	Silver	1/ 16	0.0058	B	0.0058	B	mg/L	SWMB003L
MB	Metals	Sodium	16/ 16	1140	E	7640	J	mg/L	SWMB004LD
MB	Metals	Trivalent Arsenic	9/ 9	0.041		0.104		mg/L	SWMB003L
MB	Metals	Vanadium	8/ 16	0.0053	B	0.0065	B	mg/L	SWMB001L
MB	Metals	Zinc	4/ 16	0.0033	B	0.0161	B	mg/L	SWMB003L

Notes:

TF = Tidal Flats
MB = Marine Basin
OF8 = Outfall 008 Drainage
REF = Reference Locations
mg/L = milligrams per liter
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit
* = sample duplicate results not within control limits
J = value is estimated
P = a greater than 25 percent difference was detected between GC columns
E = concentration exceeds upper limit of calibration range

Prepared by: WCG
Checked by: DRP

TABLE 8-24
SURFACE WATER DATA SUMMARY
OUTFALL 008

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHEMICAL CLASS	ANALYTE	DETECTION FREQUENCY	MINIMUM CONCENTRATION	QUAL.	MAXIMUM CONCENTRATION	QUAL.	UNITS	SAMPLE ID OF MAXIMUM CONCENTRATION
VOCs	1,1,1-Trichloroethane	2/ 8	0.002	J	0.013		mg/L	08-SW
VOCs	1,1-Dichloroethane	1/ 7	0.005		0.005		mg/L	08-BG-SW
VOCs	1,2-Dichloroethene (total)	5/ 7	0.007		0.058		mg/L	SW08001H
VOCs	Acetone	2/ 8	0.1		0.58	F	mg/L	08-SW
VOCs	Benzene	1/ 7	0.001	J	0.001	J	mg/L	08-BG-SW
VOCs	Bromodichloromethane	1/ 7	0.002	J	0.002	J	mg/L	08-SW
VOCs	Chloroform	2/ 8	0.002	J	0.011		mg/L	08-SW
VOCs	Tetrachloroethene	6/ 7	0.002		0.035		mg/L	SW08001H
VOCs	Trichloroethene	4/ 8	0.002	J	0.008		mg/L	SW08001H
VOCs	Vinyl chloride	5/ 7	0.002		0.014		mg/L	SW08001H
SVOCs	4-Nitrophenol	1/ 1	0.002	J	0.002	J	mg/L	08-SW
SVOCs	Fluoranthene	1/ 6	5.2E-05	P	5.2E-05	P	mg/L	SW08003H
Metals	Aluminum	14/ 14	0.077		0.546		mg/L	SW08003H
Metals	Antimony	11/ 13	0.0036	B	0.044		mg/L	08-BG-SW
Metals	Arsenic	7/ 18	0.0018	B	1.03	J	mg/L	SW08003H
Metals	Barium	8/ 13	0.0103	B	0.063		mg/L	08-BG-SW
Metals	Calcium	14/ 14	14.1		269	E	mg/L	SW08003HD
Metals	Chromium	8/ 12	0.0034	B	0.0504		mg/L	SW08001L
Metals	Copper	14/ 14	0.0075	B	0.0454		mg/L	SW08001L
Metals	Iron	14/ 14	0.045		12.6		mg/L	08-BG-SW
Metals	Lead	6/ 12	0.0017	B	0.0052		mg/L	SW08001H
Metals	Magnesium	13/ 13	171	E	827	E	mg/L	SW08003HD
Metals	Manganese	13/ 13	0.0738		1.12		mg/L	08-BG-SW
Metals	Mercury	2/ 14	0.0002		0.0002		mg/L	08-SW
Metals	Methyl mercury	5/ 6	8.2E-08	J	1.63E-07	J	mg/L	SW08001H
Metals	Nickel	12/ 12	0.0032	B	0.0181	B	mg/L	SW08001L
Metals	Potassium	14/ 14	4.07		392	E	mg/L	SW08003HD
Metals	Sodium	14/ 14	181		6930	E	mg/L	SW08003HD
Metals	Trivalent Arsenic	7/ 7	0.147		0.329		mg/L	SW08001H
Metals	Vanadium	1/ 12	0.0058	B	0.0058	B	mg/L	SW08001HD
Metals	Zinc	5/ 13	0.0042	B	0.0582		mg/L	SW08001L

Prepared by: WCG
Checked by: DRP

TF = Tidal Flats
MB = Marine Basin
OF8 = Outfall 008 Drainage
REF = Reference Locations
mg/L = milligrams per liter
B = reported value less than contract-required Detection Limit, but greater than or equal to the Instrument Detection Limit
* = sample duplicate results not within control limits
J = value is estimated
P = a greater than 25 percent difference was detected between GC columns
E = concentration exceeds upper limit of calibration range