TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA201-MW S2	RF-HA201G-MW S2	RF-HA201-MW S4	RF-HA201G-MW S4	RF-HA201-MW S5	RF-HA201-MW S6	RF-HA108-MWD S1
			Sample Date:	11/3/2004	11/3/2004	11/3/2004	11/3/2004	11/3/2004	11/3/2004	11/9/2004
			Sample Depth (ft. bgs):	2-4	2-4	4-6	4-6	8-10	10-12	9-11
			Soil Type:	MF	MF	MF	MF	MF	AD	AD
			Sample Type:		DUPLICATE		DUPLICATE			
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		--	--	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		--	--	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	26,000	1,500		--	--	ND	ND	ND	ND	ND
Ethylbenzene	500,000	10,100		--	--	ND	ND	ND	ND	ND
Isopropylbenzene	500,000	600		--	--	ND	ND	ND	ND	ND
m+p Xylenes	500,000	19,500		--	--	ND	ND	ND	ND	ND
Methylene Chloride	82,000	100		--	--	ND	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		--	--	ND	ND	ND	ND	ND
n-Propylbenzene	500,000	2,000		--	--	ND	ND	ND	ND	ND
o-Xylene	500,000	20,000		--	--	ND	ND	ND	ND	ND
Toluene	500,000	20,000		--	--	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	--	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	--	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	--	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	--	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	--	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	--	ND	ND	ND
Acenaphthylene	1,000,000	8,400		2900	1300	ND	--	ND	ND	ND
Anthracene	1,000,000	40,000		1700	720	ND	--	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		**6800**	**1700**	ND	--	ND	ND	ND
Benzo[a]pyrene	1,000	1,000		**10000**	**2500**	ND	--	ND	ND	ND
Benzo[b]fluoranthene	1,000	1,000		**15000**	**3900**	ND	--	ND	ND	ND
Benzo[g,h,i]perylene	1,000,000	4,200		**5600**	1900	ND	--	ND	ND	ND
Benzo[k]fluoranthene	8,400	1,000		**3800**	**1200**	ND	--	ND	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	--	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	--	ND	ND	ND
Carbazole	31,000	1,000		530	440	ND	--	ND	ND	ND
Chrysene	84,000	1,000		**4800**	**1900**	ND	--	ND	ND	ND
Dibenz[a,h]anthracene	1,000	1,000		**1700**	470	ND	--	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	--	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	--	ND	ND	ND
Fluoranthene	1,000,000	5,600		**11000**	3200	ND	--	ND	ND	ND
Fluorene	1,000,000	5,600		ND	ND	ND	--	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		**8300**	**2700**	ND	--	ND	ND	ND
Naphthalene	1,000,000	5,600		470	ND	ND	--	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	--	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	--	ND	ND	ND
Phenanthrene	1,000,000	4,000		2200	1400	ND	--	ND	ND	ND
Pyrene	1,000,000	4,000		**10000**	2900	ND	--	ND	ND	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		260	120	ND	--	ND	ND	ND
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	--	--	--
4,4-DDE	1,800	NE		--	--	--	--	--	--	--
4,4-DDT	1,800	NE		--	--	--	--	--	--	--
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	ND	--	ND	ND	--

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA201-MW S2	RF-HA201G-MW S2	RF-HA201-MW S4	RF-HA201G-MW S4	RF-HA201-MW S5	RF-HA201-MW S6	RF-HA108-MWD S1
			Sample Date:	11/3/2004	11/3/2004	11/3/2004	11/3/2004	11/3/2004	11/3/2004	11/9/2004
			Sample Depth (ft. bgs):	2-4	2-4	4-6	4-6	8-10	10-12	9-11
			Soil Type:	MF	MF	MF	MF	MF	AD	AD
			Sample Type:		DUPLICATE		DUPLICATE			
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	ND	--	ND	ND	ND
Arsenic	10	--		2.4	2.7	1.8	--	ND	ND	ND
Beryllium	2	--		ND	ND	ND	--	ND	ND	ND
Cadmium	34	--		ND	ND	ND	--	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		8.8	6.4	9	--	7	6.8	10
Copper	1,400	--		43	21	65	--	4.3	6.5	35
Lead	400	--		36	66	100	--	4.3	3.5	5.2
Mercury	20	--		ND	ND	5.9	--	ND	ND	ND
Nickel	1,400	--		5.7	5.1	5	--	4.8	4.9	7.8
Selenium	340	--		ND	ND	ND	--	ND	ND	ND
Silver	340	--		ND	ND	ND	--	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	--	ND	ND	ND
Zinc	20,000	--		67	68	52	--	10	13	21
SPLP Metals (mg/l):										
Antimony	--	0.006		ND	ND	ND	--	ND	ND	ND
Arsenic	--	0.05		ND	ND	ND	--	ND	ND	ND
Beryllium	--	0.004		ND	ND	ND	--	ND	ND	ND
Cadmium	--	0.005		ND	ND	ND	--	ND	ND	ND
Chromium	--	0.05		ND	ND	ND	--	ND	ND	ND
Copper	--	1.3		ND	ND	0.51	--	ND	ND	ND
Lead	--	0.015		ND	**0.024**	**0.38**	--	ND	ND	ND
Mercury	--	0.002		ND	ND	ND	--	ND	ND	ND
Nickel	--	0.1		ND	ND	ND	--	ND	ND	ND
Selenium	--	0.05		ND	ND	ND	--	ND	ND	ND
Silver	--	0.036		ND	ND	ND	--	ND	ND	ND
Thallium	--	0.005		ND	ND	ND	--	ND	ND	ND
Zinc	--	5		0.19	0.25	0.79	--	0.35	0.22	0.37
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fill

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA108-MWD S2	RF-HA108-MW-S1	RF-HA108-MW-S2	RF-HA108-MW-S3	RF-HA108-MW-S4	RF-HA108-MW-S4A	RF-HA202-MW S1
			Sample Date:	11/9/2004	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	11/4/2004
			Sample Depth (ft. bgs):	11-13	0-2	2-4	5-7	7-8.4	8.4-9	0-2
			Soil Type:	AD	EF	IWF	IWF	IWF	AD	EF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	190	67	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	250	55	--
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	ND	ND	--
Ethylbenzene	500,000	10,100		ND	ND	ND	ND	31	5.8	--
Isopropylbenzene	500,000	600		ND	ND	ND	ND	13	6.6	--
m+p Xylenes	500,000	19,500		ND	ND	ND	ND	26	12	--
Methylene Chloride	82,000	100		ND	ND	ND	ND	ND	ND	--
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	7400	3100	--
n-Propylbenzene	500,000	2,000		ND	ND	ND	ND	6.1	ND	--
o-Xylene	500,000	20,000		ND	ND	ND	ND	27	22	--
Toluene	500,000	20,000		ND	ND	ND	ND	ND	ND	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	400	300	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	34000	ND	ND
Acenaphthylene	1,000,000	8,400		ND	ND	ND	510	3400	ND	ND
Anthracene	1,000,000	40,000		ND	ND	ND	350	25000	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	ND	ND	1300*	17000*	ND	520
Benzo[a]pyrene	1,000	1,000		ND	ND	ND	1200*	10000*	ND	800
Benzo[b]fluoranthene	1,000	1,000		ND	ND	ND	2100*	11000*	ND	**1200**
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	ND	440	1600	ND	370
Benzo[k]fluoranthene	8,400	1,000		ND	ND	ND	1200*	5200*	ND	380
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		ND	ND	ND	ND	7500*	ND	ND
Chrysene	84,000	1,000		ND	ND	220	1700*	16000*	ND	540
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	880	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		ND	ND	ND	2600	48000*	240	800
Fluorene	1,000,000	5,600		ND	ND	ND	220	41000*	210	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	ND	ND	540	2300*	ND	530
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	49000*	1400	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		ND	ND	290	890	120000*	530	ND
Pyrene	1,000,000	4,000		ND	ND	ND	2800	47000*	270	770
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	ND	ND	43000*	9200*	670	120
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	ND	ND	ND	ND	ND	--
4,4-DDE	1,800	NE		--	ND	ND	ND	ND	ND	--
4,4-DDT	1,800	NE		--	ND	ND	ND	ND	ND	--
4,4-Methoxychlor	340,000	NE		--	ND	ND	ND	ND	ND	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	ND	ND	ND	ND	ND	ND

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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA108-MWD S2	RF-HA108-MW-S1	RF-HA108-MW-S2	RF-HA108-MW-S3	RF-HA108-MW-S4	RF-HA108-MW-S4A	RF-HA202-MW S1
			Sample Date:	11/9/2004	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	11/4/2004
			Sample Depth (ft. bgs):	11-13	0-2	2-4	5-7	7-8.4	8.4-9	0-2
			Soil Type:	AD	EF	IWF	IWF	IWF	AD	EF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	ND	12	4.5	ND	ND
Arsenic	10	--		ND	1.1	16	23	8.7	ND	2.2
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	5.1	ND	ND
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		7.8	8.6	5	120	16	2.7	7.9
Copper	1,400	--		11	11	32	480	3000	9	18
Lead	400	--		3.5	16	5.4	1800	290	5.3	34
Mercury	20	--		ND	ND	ND	2.3	4.2	0.32	ND
Nickel	1,400	--		6.1	6.6	7.1	240	61	2	5.7
Selenium	340	--		ND	ND	1.6	1.2	ND	ND	ND
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		20	25	8	790	2600	33	47
SPLP Metals (mg/l):										
Antimony	--	0.006		ND	--	--	--	--	--	ND
Arsenic	--	0.05		ND	--	--	--	--	--	ND
Beryllium	--	0.004		ND	--	--	--	--	--	ND
Cadmium	--	0.005		ND	--	--	--	--	--	ND
Chromium	--	0.05		ND	--	--	--	--	--	ND
Copper	--	1.3		ND	--	--	--	--	--	ND
Lead	--	0.015		ND	--	--	--	--	--	ND
Mercury	--	0.002		ND	--	--	--	--	--	ND
Nickel	--	0.1		ND	--	--	--	--	--	ND
Selenium	--	0.05		ND	--	--	--	--	--	ND
Silver	--	0.036		ND	--	--	--	--	--	ND
Thallium	--	0.005		ND	--	--	--	--	--	ND
Zinc	--	5		0.42	--	--	--	--	--	0.22
Total Cyanide (mg/kg):	1,400	NE		--	ND	ND	ND	ND	ND	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
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7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
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9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA202-MW S3	RF-HA202-MW S5	RF-HA202-MW S6	RF-HA214 S1	RF-HA214G S1	RF-HA214 S2	RF-HA214G S2
			Sample Date:	11/4/2004	11/4/2004	11/4/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004
			Sample Depth (ft. bgs):	4-6	9-10	10-12	0-2	0-2	2-4	2-4
			Soil Type:	MF	AD	AD	EF	EF	IWF	IWF
			Sample Type:					DUPLICATE		DUPLICATE
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		--	--	--	ND	--	ND	--
1,3,5-Trimethylbenzene	500,000	7,000		--	--	--	ND	--	ND	--
1,4-Dichlorobenzene	26,000	1,500		--	--	--	ND	--	ND	--
Ethylbenzene	500,000	10,100		--	--	--	ND	--	ND	--
Isopropylbenzene	500,000	600		--	--	--	ND	--	ND	--
m+p Xylenes	500,000	19,500		--	--	--	ND	--	ND	--
Methylene Chloride	82,000	100		--	--	--	ND	--	ND	--
Naphthalene	1,000,000	5,600		--	--	--	ND	--	ND	--
n-Propylbenzene	500,000	2,000		--	--	--	ND	--	ND	--
o-Xylene	500,000	20,000		--	--	--	ND	--	ND	--
Toluene	500,000	20,000		--	--	--	ND	--	ND	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	--	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	--	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	--	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	--	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	--	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	--	ND	ND	ND	ND
Acenaphthylene	1,000,000	8,400		380	ND	--	ND	ND	ND	ND
Anthracene	1,000,000	40,000		490	ND	--	ND	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		**3600**	ND	--	ND	ND	ND	ND
Benzo[a]pyrene	1,000	1,000		**4600**	ND	--	ND	ND	ND	ND
Benzo[b]fluoranthene	1,000	1,000		**6500**	ND	--	ND	ND	ND	ND
Benzo[g,h,i]perylene	1,000,000	4,200		1400	ND	--	ND	ND	ND	ND
Benzo[k]fluoranthene	8,400	1,000		**2000**	ND	--	ND	ND	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	--	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	--	ND	ND	ND	ND
Carbazole	31,000	1,000		670	ND	--	ND	ND	ND	ND
Chrysene	84,000	1,000		**3500**	ND	--	ND	ND	ND	ND
Dibenz[a,h]anthracene	1,000	1,000		490	ND	--	ND	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	--	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	--	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		**6000**	ND	--	ND	ND	ND	ND
Fluorene	1,000,000	5,600		ND	ND	--	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		**2400**	ND	--	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	--	ND	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	--	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	--	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		1700	ND	--	ND	ND	ND	ND
Pyrene	1,000,000	4,000		**5600**	ND	--	ND	ND	ND	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	ND	--	ND	ND	ND	190
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	--	--	--
4,4-DDE	1,800	NE		--	--	--	--	--	--	--
4,4-DDT	1,800	NE		--	--	--	--	--	--	--
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	--	--	--	--	--

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA202-MW S3	RF-HA202-MW S5	RF-HA202-MW S6	RF-HA214 S1	RF-HA214G S1	RF-HA214 S2	RF-HA214G S2
			Sample Date:	11/4/2004	11/4/2004	11/4/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004
			Sample Depth (ft. bgs):	4-6	9-10	10-12	0-2	0-2	2-4	2-4
			Soil Type:	MF	AD	AD	EF	EF	IWF	IWF
			Sample Type:					DUPLICATE		DUPLICATE
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	--	ND	--	ND	--
Arsenic	10	--		2.7	ND	--	34	--	47	--
Beryllium	2	--		ND	ND	--	ND	--	ND	--
Cadmium	34	--		ND	ND	--	ND	--	1.7	--
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		7.6	ND	--	21	--	16	--
Copper	1,400	--		19	12	--	27	--	90	--
Lead	400	--		77	ND	--	130	--	67	--
Mercury	20	--		0.32	ND	--	ND	--	ND	--
Nickel	1,400	--		5.6	ND	--	9.8	--	26	--
Selenium	340	--		ND	ND	--	ND	--	5.4	--
Silver	340	--		ND	ND	--	ND	--	ND	--
Thallium	5.4	--		ND	ND	--	ND	--	ND	--
Zinc	20,000	--		66	ND	--	50	--	350	--
SPLP Metals (mg/l):										
Antimony	--	0.006		ND	ND	--	ND	--	ND	--
Arsenic	--	0.05		ND	ND	--	0.0055	--	0.0041	--
Beryllium	--	0.004		ND	ND	--	ND	--	ND	--
Cadmium	--	0.005		ND	ND	--	ND	--	ND	--
Chromium	--	0.05		ND	ND	--	ND	--	ND	--
Copper	--	1.3		ND	ND	--	ND	--	ND	--
Lead	--	0.015		**0.016**	**0.028**	ND	ND	--	ND	--
Mercury	--	0.002		ND	ND	--	ND	--	ND	--
Nickel	--	0.1		ND	ND	--	ND	--	ND	--
Selenium	--	0.05		ND	ND	--	ND	--	ND	--
Silver	--	0.036		ND	ND	--	ND	--	ND	--
Thallium	--	0.005		ND	ND	--	ND	--	ND	--
Zinc	--	5		0.4	0.58	--	0.37	--	1.4	--
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA214 S3	RF-HA214 S5	RF-HA214G S5	RF-HATP-7	RF-HA109-S1	RF-HA109-S2	RF-HA109-S3
			Sample Date:	11/10/2004	11/10/2004	11/10/2004	11/18/2004	14-Aug-02	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	4-6	8-10	8-10	6-7	0-2	2-4	5-7
			Soil Type:	IWF	AD	AD	IWF	IWF	IWF	MF
			Sample Type:			DUPLICATE				
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	--	ND	ND	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	--	ND	ND	ND	ND
1,4-Dichlorobenzene	26,000	1,500		ND	ND	--	ND	ND	ND	ND
Ethylbenzene	500,000	10,100		ND	ND	--	ND	ND	ND	ND
Isopropylbenzene	500,000	600		ND	ND	--	ND	ND	ND	ND
m+p Xylenes	500,000	19,500		ND	ND	--	ND	ND	ND	ND
Methylene Chloride	82,000	100		ND	ND	--	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	--	110	190	23	ND
n-Propylbenzene	500,000	2,000		ND	ND	--	ND	ND	ND	ND
o-Xylene	500,000	20,000		ND	ND	--	ND	ND	ND	ND
Toluene	500,000	20,000		ND	ND	--	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	510
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000,000	40,000		1100	ND	ND	ND	ND	250	2300
Benzo[a]anthracene	1,000	1,000		**3300**	ND	ND	1500*	310	**3400**	**8800**
Benzo[a]pyrene	1,000	1,000		**3900**	ND	ND	ND	230	**3600**	**5500**
Benzo[b]fluoranthene	1,000	1,000		**5100**	ND	ND	1300*	540	**4300**	**8200**
Benzo[g,h,i]perylene	1,000,000	4,200		2100	ND	ND	ND	330	3300	3200
Benzo[k]fluoranthene	8,400	1,000		**1500**	ND	ND	ND	ND	**1700**	**3300**
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		**1100**	ND	ND	ND	ND	220	**2100**
Chrysene	84,000	1,000		**3200**	ND	ND	2100*	490	**3700**	**8200**
Dibenz[a,h]anthracene	1,000	1,000		640	ND	ND	ND	ND	540	600
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		**6400**	ND	ND	2700	910	2600	**10000**
Fluorene	1,000,000	5,600		550	ND	ND	ND	ND	ND	830
Indeno[1,2,3-cd]pyrene	1,000	1,000		**2800**	ND	ND	ND	330	**3300**	**4300**
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	ND	3000
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	2000*	ND	ND	ND
Phenanthrene	1,000,000	4,000		**5300**	ND	ND	3300	510	760	**9400**
Pyrene	1,000,000	4,000		**5800**	ND	ND	2900	720	3300	**9100**
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		380	ND	ND	--	200	**1300**	**620**
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	ND	ND	ND
4,4-DDE	1,800	NE		--	--	--	--	ND	ND	ND
4,4-DDT	1,800	NE		--	--	--	--	ND	ND	ND
4,4-Methoxychlor	340,000	NE		--	--	--	--	ND	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	ND	ND	ND

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA214 S3	RF-HA214 S5	RF-HA214G S5	RF-HATP-7	RF-HA109-S1	RF-HA109-S2	RF-HA109-S3
			Sample Date:	11/10/2004	11/10/2004	11/10/2004	11/18/2004	14-Aug-02	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	4-6	8-10	8-10	6-7	0-2	2-4	5-7
			Soil Type:	IWF	AD	AD	IWF	IWF	IWF	MF
			Sample Type:			DUPLICATE				
Total Metals (mg/kg):										
Antimony	27	--		6	ND	--	720	5.5	120	33
Arsenic	10	--		40	ND	--	290	51	16	33
Beryllium	2	--		ND	ND	--	ND	ND	ND	ND
Cadmium	34	--		2.1	ND	--	ND	1.2	ND	8.3
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		60	7.6	--	55	25	15	49
Copper	1,400	--		980	15	--	2000	180	1500	5600
Lead	400	--		300	5.6	--	37000	410	2100	2300
Mercury	20	--		1.5	ND	--	9.1	1.7	2.9	2.2
Nickel	1,400	--		94	6.9	--	490	30	30	380
Selenium	340	--		2.3	ND	--	ND	26	2.1	26
Silver	340	--		ND	ND	--	ND	5.1	ND	16
Thallium	5.4	--		ND	ND	--	ND	ND	ND	ND
Zinc	20,000	--		700	19	--	2800	680	440	11000
SPLP Metals (mg/l):										
Antimony	--	0.006		ND	ND	--	0.017*	--	--	**0.014**
Arsenic	--	0.05		0.0071	0.0044	--	0.022	--	--	ND
Beryllium	--	0.004		ND	ND	--	ND	--	--	ND
Cadmium	--	0.005		ND	ND	--	ND	--	--	ND
Chromium	--	0.05		ND	ND	--	ND	--	--	ND
Copper	--	1.3		ND	ND	--	0.079	--	--	0.27
Lead	--	0.015		ND	ND	--	0.26*	--	--	**0.065**
Mercury	--	0.002		ND	ND	--	ND	--	--	ND
Nickel	--	0.1		**0.28**	ND	--	0.18*	--	--	**0.15**
Selenium	--	0.05		ND	ND	--	ND	--	--	ND
Silver	--	0.036		ND	ND	--	ND	--	--	ND
Thallium	--	0.005		ND	ND	--	ND	--	--	ND
Zinc	--	5		2.5	0.36	--	1.7	--	--	**5.3**
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	ND	23	ND

Notes:
1. This table includes only those compounds which were detected.
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6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
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10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

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SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA109-S4	RF-HA208-MW S1	RF-HA208-MW S1A	RF-HA208-MW S2	RF-HA208-MW S3	RF-HA208-MW S4	RF-HA208-MW S5
			Sample Date:	14-Aug-02	11/9/2004	11/9/2004	11/9/2004	11/9/2004	11/9/2004	11/9/2004
			Sample Depth (ft. bgs):	7.8-9	0-2	1.7-2	2-4	4-6	6-8	8-10
			Soil Type:	AD	EF	IWF	IWF	IWF	AD	AD
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		--	ND	--	ND	ND	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		--	ND	--	ND	ND	ND	ND
1,4-Dichlorobenzene	26,000	1,500		--	ND	--	ND	ND	ND	ND
Ethylbenzene	500,000	10,100		--	ND	--	ND	ND	ND	ND
Isopropylbenzene	500,000	600		--	ND	--	ND	ND	ND	ND
m+p Xylenes	500,000	19,500		--	ND	--	ND	ND	ND	ND
Methylene Chloride	82,000	100		--	ND	--	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		--	ND	--	ND	ND	ND	ND
n-Propylbenzene	500,000	2,000		--	ND	--	ND	ND	ND	ND
o-Xylene	500,000	20,000		--	ND	--	ND	ND	ND	ND
Toluene	500,000	20,000		--	6.1	--	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		--	ND	--	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		--	ND	--	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		--	ND	--	490	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		--	ND	--	**370**	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		--	ND	--	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	--	530	1400	ND	ND
Acenaphthylene	1,000,000	8,400		ND	ND	--	900	ND	ND	ND
Anthracene	1,000,000	40,000		ND	ND	--	4400	3300	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	ND	--	**17000**	8100*	ND	ND
Benzo[a]pyrene	1,000	1,000		ND	ND	--	**21000**	9400*	ND	ND
Benzo[b]fluoranthene	1,000	1,000		ND	590	--	**34000**	11000*	ND	ND
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	--	**7400**	3400	ND	ND
Benzo[k]fluoranthene	8,400	1,000		ND	560	--	**11000**	4300*	ND	ND
Benzoic Acid	1,000,000	1,000,000		--	ND	--	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		--	ND	--	ND	ND	ND	ND
Carbazole	31,000	1,000		--	ND	--	**3000**	4100*	ND	ND
Chrysene	84,000	1,000		ND	360	--	**14000**	8100*	ND	ND
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	--	**2300**	920	ND	ND
Dibenzofuran	270,000	1,000		--	ND	--	**1600**	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		--	ND	--	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		ND	560	--	**37000**	21000*	ND	ND
Fluorene	1,000,000	5,600		ND	ND	--	1000	1200	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	ND	--	**7900**	3500*	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	--	1200	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		--	ND	--	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		--	ND	--	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		ND	390	--	**13000**	12000*	ND	ND
Pyrene	1,000,000	4,000		ND	480	--	**33000**	17000*	ND	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		--	94	--	99	2100*	590*	ND
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	--	--	--	--	--	--
4,4-DDE	1,800	NE		ND	--	--	--	--	--	--
4,4-DDT	1,800	NE		ND	--	--	--	--	--	--
4,4-Methoxychlor	340,000	NE		ND	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	--	--	--

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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA109-S4	RF-HA208-MW S1	RF-HA208-MW S1A	RF-HA208-MW S2	RF-HA208-MW S3	RF-HA208-MW S4	RF-HA208-MW S5
			Sample Date:	14-Aug-02	11/9/2004	11/9/2004	11/9/2004	11/9/2004	11/9/2004	11/9/2004
			Sample Depth (ft. bgs):	7.8-9	0-2	1.7-2	2-4	4-6	6-8	8-10
			Soil Type:	AD	EF	IWF	IWF	IWF	AD	AD
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	33	8.2	27	8.8	ND
Arsenic	10	--		1.7	12	25	15	49	16	1.7
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	1.7	ND	ND
Chromium (hexavalent)	100	--		ND	--	--	--	--	--	--
Chromium	NE	--		--	13	140	9.5	20	9.6	8.6
Copper	1,400	--		4.1	53	1300	330	610	220	62
Lead	400	--		4.3	85	4300	330	2200	1600	110
Mercury	20	--		ND	0.75	6.8	2.6	3.6	0.78	ND
Nickel	1,400	--		17	16	570	59	520	170	10
Selenium	340	--		ND	ND	6.6	ND	ND	ND	ND
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	140	ND	ND	ND	ND
Zinc	20,000	--		240	52	450	150	2900	980	80
SPLP Metals (mg/l):										
Antimony	--	0.006		--	ND	**0.012**	ND	ND	0.0073*	ND
Arsenic	--	0.05		--	0.0052	ND	ND	0.02	0.021	ND
Beryllium	--	0.004		--	ND	ND	ND	ND	ND	ND
Cadmium	--	0.005		--	ND	ND	ND	ND	ND	ND
Chromium	--	0.05		--	ND	ND	ND	ND	ND	ND
Copper	--	1.3		--	0.041	0.14	0.049	0.042	ND	ND
Lead	--	0.015		--	**0.031**	**0.16**	**0.063**	0.2*	0.15*	ND
Mercury	--	0.002		--	ND	ND	ND	ND	ND	ND
Nickel	--	0.1		--	ND	**0.17**	ND	0.27*	0.16*	ND
Selenium	--	0.05		--	ND	ND	ND	ND	ND	ND
Silver	--	0.036		--	ND	ND	ND	ND	ND	ND
Thallium	--	0.005		--	ND	ND	ND	ND	ND	ND
Zinc	--	5		--	0.56	0.67	0.49	2.7	1.9	0.6
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA117-S1	RF-HA117-S1A	RF-HA117-S2	RF-HA117-S3	RF-HA117-S4	RF-HA207-MW S1	RF-HA207G-MW S1
			Sample Date:	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	11/9/2004	11/9/2004
			Sample Depth (ft. bgs):	0-0.5	0.5-1.8	2-4	5-7	8-9	0-2	0-2
			Soil Type:	EF	MF	IWF	MF	AD	EF	EF
			Sample Type:							DUPLICATE
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	--	--	--
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	--	--	--
Ethylbenzene	500,000	10,100		ND	ND	ND	ND	--	--	--
Isopropylbenzene	500,000	600		ND	ND	ND	ND	--	--	--
m+p Xylenes	500,000	19,500		ND	ND	ND	ND	--	--	--
Methylene Chloride	82,000	100		ND	ND	ND	ND	--	--	--
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	--	--	--
n-Propylbenzene	500,000	2,000		ND	ND	ND	ND	--	--	--
o-Xylene	500,000	20,000		ND	ND	ND	ND	--	--	--
Toluene	500,000	20,000		ND	ND	ND	ND	--	--	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	--
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	ND	--
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	ND	--
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	--
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	--	ND	--
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	--
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	ND	890	--
Anthracene	1,000,000	40,000		ND	ND	220	220	ND	500	--
Benzo[a]anthracene	1,000	1,000		ND	ND	760	910	ND	710	--
Benzo[a]pyrene	1,000	1,000		ND	ND	710	**1100**	ND	**1100**	--
Benzo[b]fluoranthene	1,000	1,000		240	ND	990	**1400**	ND	**1700**	--
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	470	830	ND	610	--
Benzo[k]fluoranthene	8,400	1,000		ND	ND	370	590	ND	590	--
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	--
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	--	ND	--
Carbazole	31,000	1,000		ND	ND	ND	ND	ND	ND	--
Chrysene	84,000	1,000		ND	ND	850	990	ND	**1200**	--
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	ND	ND	--
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	ND	--
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	--	ND	--
Fluoranthene	1,000,000	5,600		280	ND	1400	2000	ND	1900	--
Fluorene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	--
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	ND	510	850	ND	590	--
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	--
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	--	ND	--
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	--	ND	--
Phenanthrene	1,000,000	4,000		ND	ND	1200	1000	ND	790	--
Pyrene	1,000,000	4,000		240	ND	1200	1600	ND	1800	--
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	ND	150	130	ND	71	--
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	--	--	--	--	ND	ND
4,4-DDE	1,800	NE		330	--	--	--	--	130	440
4,4-DDT	1,800	NE		140	--	--	--	--	ND	190
4,4-Methoxychlor	340,000	NE		ND	--	--	--	--	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	ND	ND	--	ND	ND

TABLE IV
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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA117-S1	RF-HA117-S1A	RF-HA117-S2	RF-HA117-S3	RF-HA117-S4	RF-HA207-MW S1	RF-HA207G-MW S1
			Sample Date:	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	11/9/2004	11/9/2004
			Sample Depth (ft. bgs):	0-0.5	0.5-1.8	2-4	5-7	8-9	0-2	0-2
			Soil Type:	EF	MF	IWF	MF	AD	EF	EF
			Sample Type:							DUPLICATE
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	4.3	20	ND	ND	--
Arsenic	10	--		31	1	19	30	ND	20	--
Beryllium	2	--		ND	ND	ND	ND	ND	ND	--
Cadmium	34	--		ND	ND	ND	ND	ND	ND	--
Chromium (hexavalent)	100	--		ND	ND		ND	--	--	--
Chromium	NE	--		--	--	--	--	3.4	13	--
Copper	1,400	--		65	11	300	760	6.6	18	--
Lead	400	--		140	6.4	170	1800	6.5	80	--
Mercury	20	--		0.92	ND	ND	0.95	ND	ND	--
Nickel	1,400	--		10	3.7	35	110	18	5.7	--
Selenium	340	--		ND	ND	2.1	5.2	ND	ND	--
Silver	340	--		ND	ND	ND	ND	ND	ND	--
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	--
Zinc	20,000	--		77	9.9	190	2500	400	44	--
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	ND	--
Arsenic	--	0.05		--	--	--	--	--	0.017	--
Beryllium	--	0.004		--	--	--	--	--	ND	--
Cadmium	--	0.005		--	--	--	--	--	ND	--
Chromium	--	0.05		--	--	--	--	--	ND	--
Copper	--	1.3		--	--	--	--	--	ND	--
Lead	--	0.015		--	--	--	--	--	**0.024**	--
Mercury	--	0.002		--	--	--	--	--	ND	--
Nickel	--	0.1		--	--	--	--	--	ND	--
Selenium	--	0.05		--	--	--	--	--	ND	--
Silver	--	0.036		--	--	--	--	--	ND	--
Thallium	--	0.005		--	--	--	--	--	ND	--
Zinc	--	5		--	--	--	--	--	1.3	--
Total Cyanide (mg/kg):	1,400	NE		ND	ND	ND	ND	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
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6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
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10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

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IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA207-MW S2	RF-HA207-MW S3	RF-HA207-MW S5	RF-HA207-MW S6	RF-HATP-6	RF-HA111-S1	RF-HA111-S2
			Sample Date:	11/9/2004	11/9/2004	11/9/2004	11/9/2004	11/18/2004	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	2-4	4-6	8-10	10-12	6-6.5	1-2	2-3
			Soil Type:	EF	IWF	IWF	AD	DRF/IWF	MF	MF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	23	ND	ND	ND	87
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	ND	ND	41
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	10	ND	ND
Ethylbenzene	500,000	10,100		ND	ND	ND	ND	ND	ND	7.4
Isopropylbenzene	500,000	600		ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	500,000	19,500		ND	ND	ND	ND	ND	ND	31
Methylene Chloride	82,000	100		ND	ND	ND	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		ND	65	ND	ND	ND	ND	ND
n-Propylbenzene	500,000	2,000		ND	ND	ND	ND	ND	ND	ND
o-Xylene	500,000	20,000		ND	ND	ND	ND	ND	ND	13
Toluene	500,000	20,000		ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	1200	ND	ND
2-Methyl Naphthalene	474,000	980		ND	630	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	880	ND	ND	ND	ND	ND
Acenaphthylene	1,000,000	8,400		ND	1700	ND	ND	ND	ND	ND
Anthracene	1,000,000	40,000		ND	7000	ND	ND	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	10000*	ND	ND	ND	ND	ND
Benzo[a]pyrene	1,000	1,000		ND	9500*	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	1,000	1,000		ND	13000*	ND	ND	540	220	220
Benzo[g,h,i]perylene	1,000,000	4,200		ND	2900	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	8,400	1,000		ND	4700*	ND	ND	ND	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		ND	19000*	ND	ND	ND	ND	ND
Chrysene	84,000	1,000		ND	9400*	ND	ND	ND	ND	450
Dibenz[a,h]anthracene	1,000	1,000		ND	1100*	ND	ND	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	3800*	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		ND	31000*	ND	ND	670	310	ND
Fluorene	1,000,000	5,600		ND	5700*	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	3400*	ND	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		ND	760	ND	ND	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		ND	32000*	ND	1600	ND	ND	340
Pyrene	1,000,000	4,000		ND	25000*	ND	ND	540	270	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	210	1300*	ND	370	ND	120
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	--	ND	ND
4,4-DDE	1,800	NE		--	--	--	--	--	57	ND
4,4-DDT	1,800	NE		--	--	--	--	--	ND	ND
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	--	ND	ND

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			Sample Date:	11/9/2004	11/9/2004	11/9/2004	11/9/2004	11/18/2004	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	2-4	4-6	8-10	10-12	6-6.5	1-2	2-3
			Soil Type:	EF	IWF	IWF	AD	DRF/IWF	MF	MF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	5.9	4.4	ND	16	ND	ND
Arsenic	10	--		1.5	23	20	ND	26	29	17
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		7	29	16	14	33	13	4.6
Copper	1,400	--		10	190	110	40	4400	37	18
Lead	400	--		5.4	630	280	12	1000	77	7.2
Mercury	20	--		ND	3.1	0.34	ND	6	0.2	0.35
Nickel	1,400	--		4.3	20	20	ND	350	9.4	9.4
Selenium	340	--		ND	1.8	3.1	ND	5.3	ND	2.1
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	91	ND	ND
Zinc	20,000	--		14	420	500	24	2300	52	12
SPLP Metals (mg/l):										
Antimony	--	0.006		ND	ND	ND	ND	ND	--	--
Arsenic	--	0.05		ND	0.0071	0.0068	ND	ND	--	--
Beryllium	--	0.004		ND	ND	ND	ND	ND	--	--
Cadmium	--	0.005		ND	ND	ND	ND	ND	--	--
Chromium	--	0.05		ND	ND	ND	ND	ND	--	--
Copper	--	1.3		ND	ND	ND	ND	ND	--	--
Lead	--	0.015		ND	0.025*	ND	ND	0.028*	--	--
Mercury	--	0.002		ND	ND	ND	ND	ND	--	--
Nickel	--	0.1		ND	ND	ND	ND	0.98*	--	--
Selenium	--	0.05		ND	ND	ND	ND	ND	--	--
Silver	--	0.036		ND	ND	ND	ND	ND	--	--
Thallium	--	0.005		ND	ND	ND	ND	ND	--	--
Zinc	--	5		0.57	0.43	0.29	0.64	3.8	--	--
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	ND	ND

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IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

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PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA111-S2A	RF-HA111-S2B	RF-HA111-S3	RF-HA111-S4	RF-HA111-S5	RF-HA112-S1	RF-HA112-S2
			Sample Date:	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	3-3.5	3.5-4	5-7	7-8.5	10-12	0.5-1.1	2-3.5
			Soil Type:	MF	IWF	IWF	IWF	AD	EF	EF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	18	22	710	--	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	19	ND	320	--	ND	ND
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	--	ND	ND
Ethylbenzene	500,000	10,100		ND	ND	ND	17	--	ND	ND
Isopropylbenzene	500,000	600		ND	ND	ND	6.1	--	ND	ND
m+p Xylenes	500,000	19,500		ND	ND	ND	20	--	ND	ND
Methylene Chloride	82,000	100		ND	ND	ND	ND	--	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	150	--	ND	ND
n-Propylbenzene	500,000	2,000		ND	ND	ND	40	--	ND	ND
o-Xylene	500,000	20,000		ND	ND	ND	22	--	ND	ND
Toluene	500,000	20,000		ND	ND	ND	ND	--	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	--	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	--	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	--	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	--	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	1200*	--	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	--	ND	ND
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	--	ND	ND
Anthracene	1,000,000	40,000		ND	ND	ND	ND	--	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	ND	ND	ND	--	230	ND
Benzo[a]pyrene	1,000	1,000		ND	ND	ND	ND	--	240	ND
Benzo[b]fluoranthene	1,000	1,000		ND	ND	ND	ND	--	360	ND
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	ND	ND	--	210	ND
Benzo[k]fluoranthene	8,400	1,000		ND	ND	ND	ND	--	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	--	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	--	ND	ND
Carbazole	31,000	1,000		ND	ND	ND	ND	--	ND	ND
Chrysene	84,000	1,000		ND	ND	ND	ND	--	310	ND
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	--	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	--	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	--	ND	ND
Fluoranthene	1,000,000	5,600		ND	ND	250	ND	--	540	ND
Fluorene	1,000,000	5,600		ND	ND	ND	260	--	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	ND	ND	ND	--	230	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	--	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	300	ND	--	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	--	ND	ND
Phenanthrene	1,000,000	4,000		ND	ND	ND	340	--	270	ND
Pyrene	1,000,000	4,000		ND	ND	ND	ND	--	460	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		**660**	ND	ND	ND	--	ND	ND
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	ND	ND	ND	--	ND	ND
4,4-DDE	1,800	NE		ND	ND	ND	ND	--	340	ND
4,4-DDT	1,800	NE		ND	ND	ND	ND	--	140	ND
4,4-Methoxychlor	340,000	NE		ND	ND	ND	ND	--	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	ND	ND	ND	ND	ND

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA111-S2A	RF-HA111-S2B	RF-HA111-S3	RF-HA111-S4	RF-HA111-S5	RF-HA112-S1	RF-HA112-S2
			Sample Date:	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	3-3.5	3.5-4	5-7	7-8.5	10-12	0.5-1.1	2-3.5
			Soil Type:	MF	IWF	IWF	IWF	AD	EF	EF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		13	3.3	240	4.3	ND	2.5	ND
Arsenic	10	--		11	60	63	8.3	ND	40	5.4
Beryllium	2	--		ND	1	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	--	--	ND	--	--
Chromium	NE	--		19	11	ND	3.4	--	19	7.4
Copper	1,400	--		320	510	1100	85	9.1	37	8.8
Lead	400	--		1400	62	14000	21	8	150	12
Mercury	20	--		0.81	2.9	3	0.54	ND	0.46	ND
Nickel	1,400	--		96	32	62	110	4.1	9.1	4.6
Selenium	340	--		ND	3.9	ND	ND	ND	ND	ND
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	2.5	ND	ND
Zinc	20,000	--		43	51	770	440	19	59	22
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	**0.012**	--	--	--	--
Arsenic	--	0.05		--	--	ND	--	--	--	--
Beryllium	--	0.004		--	--	ND	--	--	--	--
Cadmium	--	0.005		--	--	ND	--	--	--	--
Chromium	--	0.05		--	--	ND	--	--	--	--
Copper	--	1.3		--	--	ND	--	--	--	--
Lead	--	0.015		--	--	**0.53**	--	--	--	--
Mercury	--	0.002		--	--	ND	--	--	--	--
Nickel	--	0.1		--	--	ND	--	--	--	--
Selenium	--	0.05		--	--	ND	--	--	--	--
Silver	--	0.036		--	--	ND	--	--	--	--
Thallium	--	0.005		--	--	ND	--	--	--	--
Zinc	--	5		--	--	0.36	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		ND	ND	ND	ND	--	ND	ND

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA112-S2A	RF-HA112-S4	RF-HA213A S1	RF-HA213A S2	RF-HA213B S1	RF-HA213B S2	RF-HA213C S1
			Sample Date:	14-Aug-02	14-Aug-02	11/10/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004
			Sample Depth (ft. bgs):	3.5-4	4-6	0-1	1-2	0-1	1-2	0-1
			Soil Type:	IWF	AD	EF	IWF	EF	IWF	EF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	--
1,4-Dichlorobenzene	26,000	1,500		ND	--	--	--	--	--	--
Ethylbenzene	500,000	10,100		ND	--	--	--	--	--	--
Isopropylbenzene	500,000	600		ND	--	--	--	--	--	--
m+p Xylenes	500,000	19,500		ND	--	--	--	--	--	--
Methylene Chloride	82,000	100		ND	--	--	--	--	--	--
Naphthalene	1,000,000	5,600		ND	--	--	--	--	--	--
n-Propylbenzene	500,000	2,000		ND	--	--	--	--	--	--
o-Xylene	500,000	20,000		ND	--	--	--	--	--	--
Toluene	500,000	20,000		ND	--	--	--	--	--	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	--	--	--	--	--	--
1,3-Dichlorobenzene	500,000	12,000		ND	--	--	--	--	--	--
2-Methyl Naphthalene	474,000	980		ND	--	--	--	--	--	--
3,3-Dichlorobenzidine	1,400	330		ND	--	--	--	--	--	--
3+4 Methyl Phenol	340,000	1,000		ND	--	--	--	--	--	--
Acenaphthene	1,000,000	8,400		ND	--	--	--	--	--	--
Acenaphthylene	1,000,000	8,400		ND	--	--	--	--	--	--
Anthracene	1,000,000	40,000		ND	--	--	--	--	--	--
Benzo[a]anthracene	1,000	1,000		500	--	--	--	--	--	--
Benzo[a]pyrene	1,000	1,000		220	--	--	--	--	--	--
Benzo[b]fluoranthene	1,000	1,000		**1300**	--	--	--	--	--	--
Benzo[g,h,i]perylene	1,000,000	4,200		570	--	--	--	--	--	--
Benzo[k]fluoranthene	8,400	1,000		370	--	--	--	--	--	--
Benzoic Acid	1,000,000	1,000,000		ND	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	--	--	--	--	--	--
Carbazole	31,000	1,000		ND	--	--	--	--	--	--
Chrysene	84,000	1,000		880	--	--	--	--	--	--
Dibenz[a,h]anthracene	1,000	1,000		ND	--	--	--	--	--	--
Dibenzofuran	270,000	1,000		ND	--	--	--	--	--	--
Di-n-butylphthalate	1,000,000	14,000		ND	--	--	--	--	--	--
Fluoranthene	1,000,000	5,600		1300	--	--	--	--	--	--
Fluorene	1,000,000	5,600		ND	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	1,000	1,000		710	--	--	--	--	--	--
Naphthalene	1,000,000	5,600		450	--	--	--	--	--	--
n-Nitroso-dimethylamine	NE	NE		ND	--	--	--	--	--	--
n-Nitrosodiphenylamine	130,000	1,000		ND	--	--	--	--	--	--
Phenanthrene	1,000,000	4,000		800	--	--	--	--	--	--
Pyrene	1,000,000	4,000		1100	--	--	--	--	--	--
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		**1000**	ND	--	--	--	--	--
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	--	ND	ND	ND	ND	ND
4,4-DDE	1,800	NE		ND	--	310	ND	350	57	580
4,4-DDT	1,800	NE		ND	--	100	ND	140	ND	210
4,4-Methoxychlor	340,000	NE		ND	--	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	--	--	--	--	--	--

TABLE IV
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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA112-S2A	RF-HA112-S4	RF-HA213A S1	RF-HA213A S2	RF-HA213B S1	RF-HA213B S2	RF-HA213C S1
			Sample Date:	14-Aug-02	14-Aug-02	11/10/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004
			Sample Depth (ft. bgs):	3.5-4	4-6	0-1	1-2	0-1	1-2	0-1
			Soil Type:	IWF	AD	EF	IWF	EF	IWF	EF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		17	ND	--	--	--	--	--
Arsenic	10	--		13	ND	--	--	--	--	--
Beryllium	2	--		ND	ND	--	--	--	--	--
Cadmium	34	--		ND	ND	--	--	--	--	--
Chromium (hexavalent)	100	--		--	ND	--	--	--	--	--
Chromium	NE	--		16	--	--	--	--	--	--
Copper	1,400	--		450	6.6	--	--	--	--	--
Lead	400	--		370	4.3	--	--	--	--	--
Mercury	20	--		1.5	ND	--	--	--	--	--
Nickel	1,400	--		150	7.2	--	--	--	--	--
Selenium	340	--		1.7	ND	--	--	--	--	--
Silver	340	--		ND	ND	--	--	--	--	--
Thallium	5.4	--		ND	ND	--	--	--	--	--
Zinc	20,000	--		98	26	--	--	--	--	--
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	--	--
Arsenic	--	0.05		--	--	--	--	--	--	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	--	--	--
Lead	--	0.015		--	--	--	--	--	--	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	--	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		ND	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
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6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA213C S2	RF-HA213D S1	RF-HA213D S2	RF-HA213E S1	RF-HA213E S2	RF-HA213F S1	RF-HA213G S1
			Sample Date:	11/10/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004	1/5/2005	1/5/2005
			Sample Depth (ft. bgs):	1-2	0-1	1-2	0-1	1-2	2-3	0-1
			Soil Type:	IWF	EF	IWF	EF	EF	EF	EF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		--	--	--	--	--	--	--
1,4-Dichlorobenzene	26,000	1,500		--	--	--	--	--	--	--
Ethylbenzene	500,000	10,100		--	--	--	--	--	--	--
Isopropylbenzene	500,000	600		--	--	--	--	--	--	--
m+p Xylenes	500,000	19,500		--	--	--	--	--	--	--
Methylene Chloride	82,000	100		--	--	--	--	--	--	--
Naphthalene	1,000,000	5,600		--	--	--	--	--	--	--
n-Propylbenzene	500,000	2,000		--	--	--	--	--	--	--
o-Xylene	500,000	20,000		--	--	--	--	--	--	--
Toluene	500,000	20,000		--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		--	--	--	--	--	--	--
1,3-Dichlorobenzene	500,000	12,000		--	--	--	--	--	--	--
2-Methyl Naphthalene	474,000	980		--	--	--	--	--	--	--
3,3-Dichlorobenzidine	1,400	330		--	--	--	--	--	--	--
3+4 Methyl Phenol	340,000	1,000		--	--	--	--	--	--	--
Acenaphthene	1,000,000	8,400		--	--	--	--	--	--	--
Acenaphthylene	1,000,000	8,400		--	--	--	--	--	--	--
Anthracene	1,000,000	40,000		--	--	--	--	--	--	--
Benzo[a]anthracene	1,000	1,000		--	--	--	--	--	--	--
Benzo[a]pyrene	1,000	1,000		--	--	--	--	--	--	--
Benzo[b]fluoranthene	1,000	1,000		--	--	--	--	--	--	--
Benzo[g,h,i]perylene	1,000,000	4,200		--	--	--	--	--	--	--
Benzo[k]fluoranthene	8,400	1,000		--	--	--	--	--	--	--
Benzoic Acid	1,000,000	1,000,000		--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	44,000	1,000		--	--	--	--	--	--	--
Carbazole	31,000	1,000		--	--	--	--	--	--	--
Chrysene	84,000	1,000		--	--	--	--	--	--	--
Dibenz[a,h]anthracene	1,000	1,000		--	--	--	--	--	--	--
Dibenzofuran	270,000	1,000		--	--	--	--	--	--	--
Di-n-butylphthalate	1,000,000	14,000		--	--	--	--	--	--	--
Fluoranthene	1,000,000	5,600		--	--	--	--	--	--	--
Fluorene	1,000,000	5,600		--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	1,000	1,000		--	--	--	--	--	--	--
Naphthalene	1,000,000	5,600		--	--	--	--	--	--	--
n-Nitroso-dimethylamine	NE	NE		--	--	--	--	--	--	--
n-Nitrosodiphenylamine	130,000	1,000		--	--	--	--	--	--	--
Phenanthrene	1,000,000	4,000		--	--	--	--	--	--	--
Pyrene	1,000,000	4,000		--	--	--	--	--	--	--
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		--	--	--	--	--	--	--
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	ND	ND	ND	ND	ND	ND
4,4-DDE	1,800	NE		290	320	ND	500	230	ND	ND
4,4-DDT	1,800	NE		94	110	ND	170	39	ND	ND
4,4-Methoxychlor	340,000	NE		ND	ND	ND	ND	ND	ND	130
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	--	--	--

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SUMMARY OF ANALYTICAL RESULTS FOR SOIL
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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA213C S2	RF-HA213D S1	RF-HA213D S2	RF-HA213E S1	RF-HA213E S2	RF-HA213F S1	RF-HA213G S1
			Sample Date:	11/10/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004	1/5/2005	1/5/2005
			Sample Depth (ft. bgs):	1-2	0-1	1-2	0-1	1-2	2-3	0-1
			Soil Type:	IWF	EF	IWF	EF	EF	EF	EF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		--	--	--	--	--	--	--
Arsenic	10	--		--	--	--	--	--	--	--
Beryllium	2	--		--	--	--	--	--	--	--
Cadmium	34	--		--	--	--	--	--	--	--
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		--	--	--	--	--	--	--
Copper	1,400	--		--	--	--	--	--	--	--
Lead	400	--		--	--	--	--	--	--	--
Mercury	20	--		--	--	--	--	--	--	--
Nickel	1,400	--		--	--	--	--	--	--	--
Selenium	340	--		--	--	--	--	--	--	--
Silver	340	--		--	--	--	--	--	--	--
Thallium	5.4	--		--	--	--	--	--	--	--
Zinc	20,000	--		--	--	--	--	--	--	--
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	--	--
Arsenic	--	0.05		--	--	--	--	--	--	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	--	--	--
Lead	--	0.015		--	--	--	--	--	--	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	--	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA213G S2	RF-HA213G S3	RF-HA213H S1	RF-HA213I S1	RF-HA114-S1	RF-HA114-S2	RF-HA114-S3
			Sample Date:	1/5/2005	1/5/2005	1/5/2005	1/5/2005	14-Aug-02	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	1-2	2-3	2-3	2-3	0.8-1.5	2-4	5-7
			Soil Type:	EF	EF	EF	EF	EF	IWF	IWF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		--	--	--	--	ND	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		--	--	--	--	ND	ND	ND
1,4-Dichlorobenzene	26,000	1,500		--	--	--	--	ND	ND	ND
Ethylbenzene	500,000	10,100		--	--	--	--	ND	ND	ND
Isopropylbenzene	500,000	600		--	--	--	--	ND	ND	ND
m+p Xylenes	500,000	19,500		--	--	--	--	ND	ND	ND
Methylene Chloride	82,000	100		--	--	--	--	ND	ND	ND
Naphthalene	1,000,000	5,600		--	--	--	--	ND	ND	ND
n-Propylbenzene	500,000	2,000		--	--	--	--	ND	ND	ND
o-Xylene	500,000	20,000		--	--	--	--	ND	ND	ND
Toluene	500,000	20,000		--	--	--	--	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		--	--	--	--	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		--	--	--	--	ND	ND	ND
2-Methyl Naphthalene	474,000	980		--	--	--	--	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		--	--	--	--	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		--	--	--	--	ND	ND	ND
Acenaphthene	1,000,000	8,400		--	--	--	--	ND	ND	ND
Acenaphthylene	1,000,000	8,400		--	--	--	--	ND	ND	ND
Anthracene	1,000,000	40,000		--	--	--	--	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		--	--	--	--	ND	430	**4300**
Benzo[a]pyrene	1,000	1,000		--	--	--	--	ND	540	ND
Benzo[b]fluoranthene	1,000	1,000		--	--	--	--	ND	**1100**	**1700**
Benzo[g,h,i]perylene	1,000,000	4,200		--	--	--	--	ND	580	ND
Benzo[k]fluoranthene	8,400	1,000		--	--	--	--	ND	350	ND
Benzoic Acid	1,000,000	1,000,000		--	--	--	--	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		--	--	--	--	ND	ND	ND
Carbazole	31,000	1,000		--	--	--	--	ND	ND	ND
Chrysene	84,000	1,000		--	--	--	--	ND	770	**8000**
Dibenz[a,h]anthracene	1,000	1,000		--	--	--	--	ND	ND	ND
Dibenzofuran	270,000	1,000		--	--	--	--	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		--	--	--	--	ND	ND	ND
Fluoranthene	1,000,000	5,600		--	--	--	--	ND	870	2300
Fluorene	1,000,000	5,600		--	--	--	--	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		--	--	--	--	ND	610	ND
Naphthalene	1,000,000	5,600		--	--	--	--	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		--	--	--	--	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		--	--	--	--	ND	ND	ND
Phenanthrene	1,000,000	4,000		--	--	--	--	ND	590	3800
Pyrene	1,000,000	4,000		--	--	--	--	ND	710	**4900**
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		--	--	--	--	ND	260	**11000**
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	ND	ND	ND	53	ND	ND
4,4-DDE	1,800	NE		ND	ND	ND	ND	340	ND	ND
4,4-DDT	1,800	NE		ND	ND	ND	ND	55	ND	ND
4,4-Methoxychlor	340,000	NE		ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	ND	ND	ND

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA213G S2	RF-HA213G S3	RF-HA213H S1	RF-HA213I S1	RF-HA114-S1	RF-HA114-S2	RF-HA114-S3
			Sample Date:	1/5/2005	1/5/2005	1/5/2005	1/5/2005	14-Aug-02	14-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	1-2	2-3	2-3	2-3	0.8-1.5	2-4	5-7
			Soil Type:	EF	EF	EF	EF	EF	IWF	IWF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		--	--	--	--	ND	12	7.2
Arsenic	10	--		--	--	--	--	33	19	26
Beryllium	2	--		--	--	--	--	ND	ND	ND
Cadmium	34	--		--	--	--	--	ND	ND	0.71
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		--	--	--	--	16	11	23
Copper	1,400	--		--	--	--	--	26	140	630
Lead	400	--		--	--	--	--	130	500	400
Mercury	20	--		--	--	--	--	0.34	0.31	0.67
Nickel	1,400	--		--	--	--	--	7.6	41	160
Selenium	340	--		--	--	--	--	ND	ND	1.2
Silver	340	--		--	--	--	--	ND	ND	ND
Thallium	5.4	--		--	--	--	--	ND	ND	ND
Zinc	20,000	--		--	--	--	--	52	310	1400
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	--	--
Arsenic	--	0.05		--	--	--	--	--	--	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	--	--	--
Lead	--	0.015		--	--	--	--	--	--	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	--	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	ND	ND	ND

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

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TABLE IV
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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA114-S4	RF-HA114-S5	RF-HA123-MW-S1	RF-HA123-MW-S1A	RF-HA123-MW-S2	RF-HA123-MW-S2A	RF-HA123-MW-S3
			Sample Date:	14-Aug-02	14-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02
			Sample Depth (ft. bgs):	7-8.5	10-12	0-1	1-1.5	2-3.8	3.8-4	5-7
			Soil Type:	MF	GD	EF	EF	IWF	MF	MF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	--
1,4-Dichlorobenzene	26,000	1,500		ND	--	--	--	--	--	--
Ethylbenzene	500,000	10,100		ND	--	--	--	--	--	--
Isopropylbenzene	500,000	600		ND	--	--	--	--	--	--
m+p Xylenes	500,000	19,500		ND	--	--	--	--	--	--
Methylene Chloride	82,000	100		ND	--	--	--	--	--	--
Naphthalene	1,000,000	5,600		ND	--	--	--	--	--	--
n-Propylbenzene	500,000	2,000		ND	--	--	--	--	--	--
o-Xylene	500,000	20,000		ND	--	--	--	--	--	--
Toluene	500,000	20,000		ND	--	--	--	--	--	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	--	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	--	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	--	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	--	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	--	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	--	ND	ND	ND	ND	ND
Acenaphthylene	1,000,000	8,400		ND	--	ND	ND	310	ND	220
Anthracene	1,000,000	40,000		ND	--	ND	ND	250	210	260
Benzo[a]anthracene	1,000	1,000		ND	--	ND	ND	770	850	610
Benzo[a]pyrene	1,000	1,000		ND	--	ND	ND	910	860	620
Benzo[b]fluoranthene	1,000	1,000		ND	--	ND	ND	**1400**	1000	830
Benzo[g,h,i]perylene	1,000,000	4,200		ND	--	ND	ND	460	690	750
Benzo[k]fluoranthene	8,400	1,000		ND	--	ND	ND	540	480	270
Benzoic Acid	1,000,000	1,000,000		ND	--	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	--	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		ND	--	ND	ND	ND	ND	ND
Chrysene	84,000	1,000		ND	--	ND	ND	950	900	820
Dibenz[a,h]anthracene	1,000	1,000		ND	--	ND	ND	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	--	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	--	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		ND	--	250	ND	1500	1900	1000
Fluorene	1,000,000	5,600		ND	--	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	--	ND	ND	560	770	770
Naphthalene	1,000,000	5,600		ND	--	ND	ND	ND	ND	380
n-Nitroso-dimethylamine	NE	NE		ND	--	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	--	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		230	--	ND	ND	1000	830	710
Pyrene	1,000,000	4,000		200	--	220	ND	1300	1700	970
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		**930**	--	ND	ND	390	99	440
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	--	ND	--	--	--	--
4,4-DDE	1,800	NE		ND	--	460	--	--	--	--
4,4-DDT	1,800	NE		ND	--	140	--	--	--	--
4,4-Methoxychlor	340,000	NE		ND	--	ND	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	--	ND	ND	ND	ND	ND

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			Sample Date:	14-Aug-02	14-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02
			Sample Depth (ft. bgs):	7-8.5	10-12	0-1	1-1.5	2-3.8	3.8-4	5-7
			Soil Type:	MF	GD	EF	EF	IWF	MF	MF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	ND	ND	9.7	6	24
Arsenic	10	--		2.7	ND	37	1.3	17	25	18
Beryllium	2	--		ND	ND	ND	ND	1.1	ND	ND
Cadmium	34	--		40	ND	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	ND	ND	ND	ND	ND	17
Chromium	NE	--		4	--	--	--	--	--	--
Copper	1,400	--		730	10	32	13	170	1100	7500
Lead	400	--		16	2.6	150	9.1	620	3100	1400
Mercury	20	--		0.21	ND	0.24	ND	4.7	1.8	0.94
Nickel	1,400	--		75	6.9	6.3	3.9	98	48	38
Selenium	340	--		ND	ND	ND	ND	2.9	1.8	1.7
Silver	340	--		ND	ND	ND	ND	ND	6.3	ND
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		6000	80	55	14	160	1300	700
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	--	--
Arsenic	--	0.05		--	--	--	--	--	--	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	--	--	--
Lead	--	0.015		--	--	--	--	--	**0.086**	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	ND	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		ND	--	ND	ND	ND	ND	ND

Notes:
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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA123-MW-S4	RF-HA203 S1	RF-HA203 S3	RF-HA203 S5	RF-HA204 S1	RF-HA204 S2	RF-HA205 S1
			Sample Date:	23-Aug-02	11/5/2004	11/5/2004	11/5/2004	11/4/2004	11/4/2004	11/2/2004
			Sample Depth (ft. bgs):	8.5-9	0-2	4-6	8.8-10	0-2	2-4	0-2
			Soil Type:	MF	EF	IWF	AD	EF	GD	EF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	ND
1,4-Dichlorobenzene	26,000	1,500		ND	--	--	--	--	--	ND
Ethylbenzene	500,000	10,100		ND	--	--	--	--	--	ND
Isopropylbenzene	500,000	600		ND	--	--	--	--	--	ND
m+p Xylenes	500,000	19,500		ND	--	--	--	--	--	ND
Methylene Chloride	82,000	100		ND	--	--	--	--	--	33
Naphthalene	1,000,000	5,600		ND	--	--	--	--	--	ND
n-Propylbenzene	500,000	2,000		ND	--	--	--	--	--	ND
o-Xylene	500,000	20,000		ND	--	--	--	--	--	ND
Toluene	500,000	20,000		ND	--	--	--	--	--	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	420
Anthracene	1,000,000	40,000		ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	480	ND	ND	430	ND	570
Benzo[a]pyrene	1,000	1,000		ND	630	ND	ND	540	ND	840
Benzo[b]fluoranthene	1,000	1,000		ND	1000	ND	ND	830	ND	**1200**
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	ND	ND	ND	ND	490
Benzo[k]fluoranthene	8,400	1,000		ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		ND	ND	ND	ND	ND	ND	ND
Chrysene	84,000	1,000		ND	510	ND	ND	430	ND	640
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		ND	980	ND	ND	890	ND	990
Fluorene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	440	ND	ND	ND	ND	640
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		ND	450	ND	ND	610	ND	490
Pyrene	1,000,000	4,000		ND	840	ND	ND	740	ND	970
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	ND	ND	ND	ND	ND	250
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	ND	--	ND
4,4-DDE	1,800	NE		--	--	--	--	130	--	ND
4,4-DDT	1,800	NE		--	--	--	--	ND	--	ND
4,4-Methoxychlor	340,000	NE		--	--	--	--	ND	--	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	ND	ND	ND	ND	ND

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA123-MW-S4	RF-HA203 S1	RF-HA203 S3	RF-HA203 S5	RF-HA204 S1	RF-HA204 S2	RF-HA205 S1
			Sample Date:	23-Aug-02	11/5/2004	11/5/2004	11/5/2004	11/4/2004	11/4/2004	11/2/2004
			Sample Depth (ft. bgs):	8.5-9	0-2	4-6	8.8-10	0-2	2-4	0-2
			Soil Type:	MF	EF	IWF	AD	EF	GD	EF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	24	ND	3.8	ND	8.5
Arsenic	10	--		ND	4.8	18	ND	18	1.9	9.6
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		ND	--	--	--	--	--	--
Chromium	NE	--		--	8.8	7.4	7.1	18	10	25
Copper	1,400	--		43	19	350	ND	120	15	550
Lead	400	--		4.9	59	300	6.5	190	27	220
Mercury	20	--		ND	ND	ND	ND	1.7	ND	0.62
Nickel	1,400	--		24	5.1	73	6.6	17	7.7	45
Selenium	340	--		ND	ND	2.2	ND	ND	ND	ND
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		150	58	160	21	140	130	780
SPLP Metals (mg/l):										
Antimony	--	0.006		--	ND	ND	ND	ND	ND	ND
Arsenic	--	0.05		--	ND	ND	ND	0.0044	ND	ND
Beryllium	--	0.004		--	ND	ND	ND	ND	ND	ND
Cadmium	--	0.005		--	ND	ND	ND	ND	ND	ND
Chromium	--	0.05		--	ND	ND	ND	ND	ND	ND
Copper	--	1.3		--	ND	ND	ND	0.049	ND	0.099
Lead	--	0.015		--	**0.018**	ND	ND	**0.048**	ND	ND
Mercury	--	0.002		--	ND	ND	ND	ND	ND	ND
Nickel	--	0.1		--	ND	ND	ND	ND	ND	ND
Selenium	--	0.05		--	ND	ND	ND	ND	ND	ND
Silver	--	0.036		--	ND	ND	ND	ND	ND	ND
Thallium	--	0.005		--	ND	ND	ND	ND	ND	ND
Zinc	--	5		--	0.41	0.34	0.27	0.38	0.36	2.4
Total Cyanide (mg/kg):	1,400	NE		ND	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA205 S2	RF-HA205 S4	RF-HA205 S5	RF-HA205 S6	RF-HA115-MW-S1	RF-HA115-MW-S2	RF-HA115-MW-S3
			Sample Date:	11/2/2004	11/2/2004	11/2/2004	11/2/2004	13-Aug-02	13-Aug-02	13-Aug-02
			Sample Depth (ft. bgs):	2-4	6-8	8-10	10-12	0-2	2-4	5-7
			Soil Type:	DRF	DRF	GD	GD	MF	IWF	GD
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	--	ND	ND	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	--	ND	ND	--
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	--	ND	ND	--
Ethylbenzene	500,000	10,100		ND	ND	ND	--	ND	ND	--
Isopropylbenzene	500,000	600		ND	ND	ND	--	ND	ND	--
m+p Xylenes	500,000	19,500		ND	ND	ND	--	ND	ND	--
Methylene Chloride	82,000	100		ND	35	ND	--	ND	ND	--
Naphthalene	1,000,000	5,600		ND	ND	ND	--	ND	ND	--
n-Propylbenzene	500,000	2,000		ND	ND	ND	--	ND	ND	--
o-Xylene	500,000	20,000		ND	ND	ND	--	ND	ND	--
Toluene	500,000	20,000		ND	ND	ND	--	ND	ND	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	--	ND	ND	--
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	--	ND	ND	--
2-Methyl Naphthalene	474,000	980		ND	ND	ND	--	ND	ND	--
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	--	ND	ND	--
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	--	ND	ND	--
Acenaphthene	1,000,000	8,400		ND	ND	ND	--	ND	ND	--
Acenaphthylene	1,000,000	8,400		590	ND	ND	--	ND	ND	--
Anthracene	1,000,000	40,000		840	ND	ND	--	ND	ND	--
Benzo[a]anthracene	1,000	1,000		**1600**	ND	ND	--	ND	ND	--
Benzo[a]pyrene	1,000	1,000		**2000**	ND	ND	--	ND	ND	--
Benzo[b]fluoranthene	1,000	1,000		**2700**	ND	ND	--	ND	310	--
Benzo[g,h,i]perylene	1,000,000	4,200		1000	ND	ND	--	ND	ND	--
Benzo[k]fluoranthene	8,400	1,000		820	ND	ND	--	ND	ND	--
Benzoic Acid	1,000,000	1,000,000		ND	480	ND	--	ND	ND	--
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	--	ND	ND	--
Carbazole	31,000	1,000		790	ND	ND	--	ND	ND	--
Chrysene	84,000	1,000		**1500**	ND	ND	--	ND	200	--
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	--	ND	ND	--
Dibenzofuran	270,000	1,000		ND	ND	ND	--	ND	ND	--
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	--	ND	ND	--
Fluoranthene	1,000,000	5,600		3600	ND	ND	--	ND	240	--
Fluorene	1,000,000	5,600		ND	ND	ND	--	ND	ND	--
Indeno[1,2,3-cd]pyrene	1,000	1,000		**1400**	ND	ND	--	ND	ND	--
Naphthalene	1,000,000	5,600		ND	ND	ND	--	ND	ND	--
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	--	ND	ND	--
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	--	ND	ND	--
Phenanthrene	1,000,000	4,000		2700	ND	ND	--	ND	230	--
Pyrene	1,000,000	4,000		3200	ND	ND	--	ND	230	--
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		130	ND	ND	--	ND	110	--
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	ND	ND	--
4,4-DDE	1,800	NE		--	--	--	--	ND	ND	--
4,4-DDT	1,800	NE		--	--	--	--	ND	ND	--
4,4-Methoxychlor	340,000	NE		--	--	--	--	ND	ND	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	ND	ND	--

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA205 S2	RF-HA205 S4	RF-HA205 S5	RF-HA205 S6	RF-HA115-MW-S1	RF-HA115-MW-S2	RF-HA115-MW-S3
			Sample Date:	11/2/2004	11/2/2004	11/2/2004	11/2/2004	13-Aug-02	13-Aug-02	13-Aug-02
			Sample Depth (ft. bgs):	2-4	6-8	8-10	10-12	0-2	2-4	5-7
			Soil Type:	DRF	DRF	GD	GD	MF	IWF	GD
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		4	3.8	ND	--	2.2	26	ND
Arsenic	10	--		4.5	6.2	3.8	--	3.1	26	1.1
Beryllium	2	--		ND	ND	ND	--	ND	ND	ND
Cadmium	34	--		ND	ND	ND	--	ND	4.4	ND
Chromium (hexavalent)	100	--		--	--	--	--	--	--	ND
Chromium	NE	--		8.7	25	8.8	--	ND	ND	--
Copper	1,400	--		52	42	26	--	53	10000	8.3
Lead	400	--		380	260	200	--	93	77	3.6
Mercury	20	--		ND	0.81	ND	--	ND	ND	ND
Nickel	1,400	--		10	10	7.3	--	11	65	13
Selenium	340	--		ND	3.4	ND	--	61	420	ND
Silver	340	--		ND	ND	ND	--	ND	ND	ND
Thallium	5.4	--		ND	82	7.6	--	ND	ND	ND
Zinc	20,000	--		440	190	160	--	88	620	110
SPLP Metals (mg/l):										
Antimony	--	0.006		**0.0068**	ND	ND	--	--	ND	--
Arsenic	--	0.05		ND	ND	ND	--	--	ND	--
Beryllium	--	0.004		ND	ND	ND	--	--	ND	--
Cadmium	--	0.005		ND	ND	ND	--	--	ND	--
Chromium	--	0.05		ND	ND	ND	--	--	ND	--
Copper	--	1.3		ND	ND	ND	--	--	0.12	--
Lead	--	0.015		**0.049**	ND	ND	--	--	**0.089**	--
Mercury	--	0.002		ND	ND	ND	--	--	ND	--
Nickel	--	0.1		ND	ND	ND	--	--	ND	--
Selenium	--	0.05		ND	ND	ND	--	--	ND	--
Silver	--	0.036		ND	ND	ND	--	--	ND	--
Thallium	--	0.005		ND	ND	ND	--	--	ND	--
Zinc	--	5		0.4	0.21	0.29	--	--	0.3	--
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	ND	ND	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
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4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

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IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

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TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA116-S1A	RF-HA116-S1B	RF-HA116-S2	RF-HA116-S3A	RF-HA116-S3B	RF-HA124-S1	RF-HA124-S2
			Sample Date:	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	23-Aug-02	23-Aug-02
			Sample Depth (ft. bgs):	0.3-1	1-2	2-4	5-5.8	5.8-7	4-6	6-7.9
			Soil Type:	EF	IWF	IWF	IWF	GD	IWF	IWF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	--	--	--
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	--	--	--
Ethylbenzene	500,000	10,100		ND	ND	ND	ND	--	--	--
Isopropylbenzene	500,000	600		ND	ND	ND	ND	--	--	--
m+p Xylenes	500,000	19,500		ND	ND	ND	ND	--	--	--
Methylene Chloride	82,000	100		ND	ND	ND	ND	--	--	--
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	--	--	--
n-Propylbenzene	500,000	2,000		ND	ND	ND	ND	--	--	--
o-Xylene	500,000	20,000		ND	ND	ND	ND	--	--	--
Toluene	500,000	20,000		ND	ND	ND	ND	--	--	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	--	300	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	--	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	--	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	--	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	--	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	--	ND	ND
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	--	ND	ND
Anthracene	1,000,000	40,000		330	520	ND	ND	--	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	ND	ND	ND	--	ND	ND
Benzo[a]pyrene	1,000	1,000		ND	310	ND	ND	--	ND	ND
Benzo[b]fluoranthene	1,000	1,000		ND	ND	ND	ND	--	ND	ND
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	ND	ND	--	ND	ND
Benzo[k]fluoranthene	8,400	1,000		400	800	ND	ND	--	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	--	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		260	530	ND	ND	--	ND	ND
Carbazole	31,000	1,000		ND	ND	ND	ND	--	ND	ND
Chrysene	84,000	1,000		200	410	ND	ND	--	ND	ND
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	--	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	--	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	--	ND	ND
Fluoranthene	1,000,000	5,600		ND	ND	ND	ND	--	ND	ND
Fluorene	1,000,000	5,600		ND	ND	ND	ND	--	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		270	330	ND	ND	--	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	--	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	--	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	--	ND	ND
Phenanthrene	1,000,000	4,000		ND	ND	ND	ND	--	ND	ND
Pyrene	1,000,000	4,000		520	760	ND	ND	--	ND	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		74	440	210	130	--	ND	ND
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	ND	ND	ND	--	--	--
4,4-DDE	1,800	NE		ND	ND	ND	ND	--	--	--
4,4-DDT	1,800	NE		310	ND	ND	ND	--	--	--
4,4-Methoxychlor	340,000	NE		180	ND	ND	ND	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	ND	ND	ND	ND	ND

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA116-S1A	RF-HA116-S1B	RF-HA116-S2	RF-HA116-S3A	RF-HA116-S3B	RF-HA124-S1	RF-HA124-S2
			Sample Date:	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	23-Aug-02	23-Aug-02
			Sample Depth (ft. bgs):	0.3-1	1-2	2-4	5-5.8	5.8-7	4-6	6-7.9
			Soil Type:	EF	IWF	IWF	IWF	GD	IWF	IWF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	46	17	ND	ND	6
Arsenic	10	--		20	56	59	23	ND	88	28
Beryllium	2	--		85	1400	ND	ND	ND	ND	ND
Cadmium	34	--		ND	2.9	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	ND	ND	ND	ND	ND
Chromium	NE	--		ND	ND	140	61	--	--	--
Copper	1,400	--		ND	ND	1100	520	6	29	300
Lead	400	--		96	88	2100	1200	3.8	25	48
Mercury	20	--		ND	ND	2.7	3.2	ND	ND	1.6
Nickel	1,400	--		45	780	460	590	4	19	41
Selenium	340	--		120	880	6.7	6.5	ND	2.7	3
Silver	340	--		26	31	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	140	ND	ND	ND	ND	ND
Zinc	20,000	--		9.5	150	1300	680	8.5	480	220
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	--	--
Arsenic	--	0.05		--	--	--	--	--	ND	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	--	--	--
Lead	--	0.015		--	--	--	--	--	--	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	--	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		ND	ND	ND	ND	--	ND	ND

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA206 S1	RF-HA206 S2	RF-HA206 S4	RF-HA206 S5	RF-HA209-MW S1	RF-HA209-MW S2	RF-HA209-MW S3
			Sample Date:	11/2/2004	11/2/2004	11/2/2004	11/2/2004	11/9/2004	11/9/2004	11/9/2004
			Sample Depth (ft. bgs):	0-2	2.5-4	6-8	9-10	0-1.7	2-4	4-6
			Soil Type:	EF	DRF	DRF	AD	EF	IWF	IWF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	500,000	10,100		ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	500,000	600		ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	500,000	19,500		ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	82,000	100		ND	54	ND	95	ND	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	500,000	2,000		ND	ND	ND	ND	ND	ND	ND
o-Xylene	500,000	20,000		ND	ND	ND	ND	ND	ND	ND
Toluene	500,000	20,000		ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1,000,000	8,400		2500	6100	ND	ND	ND	ND	ND
Anthracene	1,000,000	40,000		1500	3000	ND	ND	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		**7100**	**8400**	510	ND	ND	420	ND
Benzo[a]pyrene	1,000	1,000		**7600**	**11000**	660	ND	ND	670	ND
Benzo[b]fluoranthene	1,000	1,000		**12000**	**26000**	**1100**	ND	ND	**1600**	ND
Benzo[g,h,i]perylene	1,000,000	4,200		3300	**5600**	ND	ND	ND	960	ND
Benzo[k]fluoranthene	8,400	1,000		**3400**	**6200**	ND	ND	ND	490	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		640	**2400**	ND	ND	ND	ND	ND
Chrysene	84,000	1,000		**7300**	**11000**	590	ND	ND	610	ND
Dibenz[a,h]anthracene	1,000	1,000		350	**1700**	ND	ND	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		**13000**	**17000**	930	ND	ND	730	ND
Fluorene	1,000,000	5,600		ND	610	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		**5000**	**7700**	520	ND	ND	800	ND
Naphthalene	1,000,000	5,600		ND	420	ND	ND	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		3500	**7600**	ND	ND	ND	800	ND
Pyrene	1,000,000	4,000		**11000**	**14000**	810	ND	ND	720	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		110	**1100**	190	ND	ND	**1100**	ND
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	--	--	--
4,4-DDE	1,800	NE		--	--	--	--	--	--	--
4,4-DDT	1,800	NE		--	--	--	--	--	--	--
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	--	--	--

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA206 S1	RF-HA206 S2	RF-HA206 S4	RF-HA206 S5	RF-HA209-MW S1	RF-HA209-MW S2	RF-HA209-MW S3
			Sample Date:	11/2/2004	11/2/2004	11/2/2004	11/2/2004	11/9/2004	11/9/2004	11/9/2004
			Sample Depth (ft. bgs):	0-2	2.5-4	6-8	9-10	0-1.7	2-4	4-6
			Soil Type:	EF	DRF	DRF	AD	EF	IWF	IWF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	10	ND	ND	130	5.4
Arsenic	10	--		1.9	2.8	8.4	ND	37	11	19
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--
Chromium	NE	--		7.2	7.3	8.6	21	21	8.1	8.2
Copper	1,400	--		17	30	270	9.1	30	8700	120
Lead	400	--		19	160	1000	20	140	510	110
Mercury	20	--		0.45	ND	ND	0.53	ND	55	0.67
Nickel	1,400	--		6	5.3	7.5	8.4	6.9	28	31
Selenium	340	--		ND	ND	ND	ND	ND	6.3	2.7
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		29	97	220	29	49	650	400
SPLP Metals (mg/l):										
Antimony	--	0.006		ND	ND	ND	ND	ND	**0.037**	ND
Arsenic	--	0.05		ND	ND	ND	ND	0.011	ND	ND
Beryllium	--	0.004		ND	ND	ND	ND	ND	ND	ND
Cadmium	--	0.005		ND	ND	ND	ND	ND	ND	ND
Chromium	--	0.05		ND	ND	ND	ND	ND	ND	ND
Copper	--	1.3		ND	ND	ND	ND	ND	**4.1**	ND
Lead	--	0.015		**0.018**	**0.055**	**0.019**	ND	**0.019**	**0.052**	ND
Mercury	--	0.002		ND	ND	ND	ND	ND	ND	ND
Nickel	--	0.1		ND	ND	ND	ND	ND	ND	0.097
Selenium	--	0.05		ND	ND	ND	ND	ND	ND	ND
Silver	--	0.036		ND	ND	ND	ND	ND	ND	ND
Thallium	--	0.005		ND	ND	ND	ND	ND	ND	ND
Zinc	--	5		0.36	0.31	0.27	0.68	0.46	4.1	2.1
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
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10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

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ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA209-MW S4	RF-HA209-MW S6	RF-HA209-MW S7	RF-HA121-S1	RF-HA121-S2	RF-HA121-S3	RF-HA113-S1
			Sample Date:	11/9/2004	11/9/2004	11/9/2004	23-Aug-02	23-Aug-02	23-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	6-8	10-11.6	12-14	4-6	6-8	8-10	1-2
			Soil Type:	IWF	IWF/AD	AD	IWF	MF	AD	IWF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	--	--	--	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	--	--	--	ND
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	--	--	--	ND
Ethylbenzene	500,000	10,100		ND	ND	ND	--	--	--	ND
Isopropylbenzene	500,000	600		ND	ND	ND	--	--	--	ND
m+p Xylenes	500,000	19,500		ND	ND	ND	--	--	--	ND
Methylene Chloride	82,000	100		ND	ND	ND	--	--	--	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	--	--	--	ND
n-Propylbenzene	500,000	2,000		ND	ND	ND	--	--	--	ND
o-Xylene	500,000	20,000		ND	ND	ND	--	--	--	ND
Toluene	500,000	20,000		13	ND	ND	--	--	--	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	--	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	--	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	--	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	--	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	ND	--	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	ND	--	ND
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	ND	--	ND
Anthracene	1,000,000	40,000		ND	ND	ND	ND	ND	--	ND
Benzo[a]anthracene	1,000	1,000		ND	ND	ND	ND	ND	--	ND
Benzo[a]pyrene	1,000	1,000		ND	ND	ND	ND	380	--	ND
Benzo[b]fluoranthene	1,000	1,000		ND	ND	ND	ND	320	--	ND
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	ND	ND	ND	--	ND
Benzo[k]fluoranthene	8,400	1,000		ND	ND	ND	ND	ND	--	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	--	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	--	ND
Carbazole	31,000	1,000		ND	ND	ND	ND	ND	--	ND
Chrysene	84,000	1,000		ND	ND	ND	ND	260	--	ND
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	ND	--	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	--	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	--	ND
Fluoranthene	1,000,000	5,600		ND	ND	ND	ND	350	--	ND
Fluorene	1,000,000	5,600		ND	ND	ND	ND	ND	--	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	ND	ND	ND	ND	--	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	--	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	--	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	ND	--	ND
Phenanthrene	1,000,000	4,000		ND	ND	ND	ND	210	--	ND
Pyrene	1,000,000	4,000		ND	ND	ND	ND	420	--	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	ND	ND	**680**	**9500**	ND	ND
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	--	--	ND
4,4-DDE	1,800	NE		--	--	--	--	--	--	ND
4,4-DDT	1,800	NE		--	--	--	--	--	--	ND
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	--	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	ND	ND	--	ND

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HAMDEN, CONNECTICUT

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			Sample Date:	11/9/2004	11/9/2004	11/9/2004	23-Aug-02	23-Aug-02	23-Aug-02	14-Aug-02
			Sample Depth (ft. bgs):	6-8	10-11.6	12-14	4-6	6-8	8-10	1-2
			Soil Type:	IWF	IWF/AD	AD	IWF	MF	AD	IWF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		ND	ND	ND	23	26	ND	ND
Arsenic	10	--		51	8.5	ND	42	8.4	ND	38
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	--	16	16	--	--
Chromium	NE	--		8.2	22	5.6	--	--	8	8.2
Copper	1,400	--		47	30	5.9	1400	9700	4.4	11
Lead	400	--		19	22	3.8	2100	1100	5.2	25
Mercury	20	--		0.34	0.55	ND	0.9	2.1	ND	ND
Nickel	1,400	--		49	28	3.3	400	300	ND	5.1
Selenium	340	--		3.1	ND	ND	5.3	2.8	ND	ND
Silver	340	--		ND	ND	ND	2.6	2.5	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		370	100	12	2400	2700	5.3	15
SPLP Metals (mg/l):										
Antimony	--	0.006		**0.0086**	ND	ND	--	--	--	--
Arsenic	--	0.05		ND	ND	ND	ND	--	--	--
Beryllium	--	0.004		ND	ND	ND	--	--	--	--
Cadmium	--	0.005		ND	ND	ND	--	--	--	--
Chromium	--	0.05		ND	ND	ND	--	--	--	--
Copper	--	1.3		ND	ND	ND	--	--	--	--
Lead	--	0.015		ND	ND	ND	--	--	--	--
Mercury	--	0.002		ND	ND	ND	--	--	--	--
Nickel	--	0.1		0.053	ND	ND	**0.28**	--	--	--
Selenium	--	0.05		ND	ND	ND	ND	--	--	--
Silver	--	0.036		ND	ND	ND	--	--	--	--
Thallium	--	0.005		ND	ND	ND	--	--	--	--
Zinc	--	5		1.1	1.1	0.33	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		--	--	--	ND	ND	--	ND

Notes:
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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA113-S2	RF-HA113-S2A	RF-HA113-S3	RF-HA113-S4	RF-HA212-MW S1	RF-HA212-MW S2	RF-HA212-MW S4
			Sample Date:	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	11/2/2004	11/2/2004	11/2/2004
			Sample Depth (ft. bgs):	2-3.5	3.5-4	5-6.5	7-9	0-2	2-4	6.4-8
			Soil Type:	IWF	IWF	IWF	GD	EF	DRF	MF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	--	ND	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	--	ND	ND	ND
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	--	ND	ND	ND
Ethylbenzene	500,000	10,100		ND	ND	ND	--	ND	ND	ND
Isopropylbenzene	500,000	600		ND	ND	ND	--	ND	ND	ND
m+p Xylenes	500,000	19,500		ND	ND	ND	--	ND	ND	ND
Methylene Chloride	82,000	100		ND	ND	ND	--	35	55	ND
Naphthalene	1,000,000	5,600		12	ND	ND	--	ND	6.7	ND
n-Propylbenzene	500,000	2,000		ND	ND	ND	--	ND	ND	ND
o-Xylene	500,000	20,000		ND	ND	ND	--	ND	ND	ND
Toluene	500,000	20,000		ND	ND	ND	--	ND	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	--	--	--	--
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	--	--	--	--
2-Methyl Naphthalene	474,000	980		ND	ND	ND	--	--	--	--
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	--	--	--	--
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	--	--	--	--
Acenaphthene	1,000,000	8,400		5000	250	ND	--	--	--	--
Acenaphthylene	1,000,000	8,400		**35000**	ND	ND	--	--	--	--
Anthracene	1,000,000	40,000		**58000**	750	400	--	--	--	--
Benzo[a]anthracene	1,000	1,000		**95000**	**1600**	680	--	--	--	--
Benzo[a]pyrene	1,000	1,000		**110000**	**1600**	690	--	--	--	--
Benzo[b]fluoranthene	1,000	1,000		**160000**	**2100**	**1400**	--	--	--	--
Benzo[g,h,i]perylene	1,000,000	4,200		**31000**	1000	600	--	--	--	--
Benzo[k]fluoranthene	8,400	1,000		**76000**	840	480	--	--	--	--
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	--	--	--	--
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	--	--	--	--
Carbazole	31,000	1,000		**36000**	660	ND	--	--	--	--
Chrysene	84,000	1,000		**86000**	**1800**	1000	--	--	--	--
Dibenz[a,h]anthracene	1,000	1,000		**9200**	270	220	--	--	--	--
Dibenzofuran	270,000	1,000		ND	ND	ND	--	--	--	--
Di-n-butylphthalate	1,000,000	14,000		ND	ND	1600	--	--	--	--
Fluoranthene	1,000,000	5,600		**240000**	3900	1600	--	--	--	--
Fluorene	1,000,000	5,600		**18000**	280	ND	--	--	--	--
Indeno[1,2,3-cd]pyrene	1,000	1,000		**39000**	**1100**	680	--	--	--	--
Naphthalene	1,000,000	5,600		**5900**	520	1500	--	--	--	--
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	--	--	--	--
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	--	--	--	--
Phenanthrene	1,000,000	4,000		**290000**	3800	2000	--	--	--	--
Pyrene	1,000,000	4,000		**190000**	3300	1100	--	--	--	--
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		**3700**	290	370	--	--	--	--
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	ND	ND	--	--	--	--
4,4-DDE	1,800	NE		ND	ND	ND	--	--	--	--
4,4-DDT	1,800	NE		ND	ND	ND	--	--	--	--
4,4-Methoxychlor	340,000	NE		ND	ND	ND	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	ND	ND	--	--	--	--

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA113-S2	RF-HA113-S2A	RF-HA113-S3	RF-HA113-S4	RF-HA212-MW S1	RF-HA212-MW S2	RF-HA212-MW S4
			Sample Date:	14-Aug-02	14-Aug-02	14-Aug-02	14-Aug-02	11/2/2004	11/2/2004	11/2/2004
			Sample Depth (ft. bgs):	2-3.5	3.5-4	5-6.5	7-9	0-2	2-4	6.4-8
			Soil Type:	IWF	IWF	IWF	GD	EF	DRF	MF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		3.3	170	4.6	ND	--	--	--
Arsenic	10	--		6.9	28	32	ND	--	--	--
Beryllium	2	--		ND	ND	ND	ND	--	--	--
Cadmium	34	--		ND	ND	ND	ND	--	--	--
Chromium (hexavalent)	100	--		--	--	--	ND	--	--	--
Chromium	NE	--		30	42	11	--	--	--	--
Copper	1,400	--		92	730	630	7.1	--	--	--
Lead	400	--		480	760	170	3.7	--	--	--
Mercury	20	--		2.5	2.7	2.1	ND	--	--	--
Nickel	1,400	--		76	74	36	4.8	--	--	--
Selenium	340	--		ND	2.6	ND	ND	--	--	--
Silver	340	--		ND	ND	ND	ND	--	--	--
Thallium	5.4	--		ND	ND	ND	ND	--	--	--
Zinc	20,000	--		590	390	1000	18	--	--	--
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	--	--	--
Arsenic	--	0.05		--	--	--	--	--	--	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	--	--	--
Lead	--	0.015		--	--	--	--	--	--	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	--	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		ND	ND	ND	--	--	--	--

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA212-MW S5	RF-HA212-MW S6	RF-HA119-S1	RF-HA119-S2	RF-HA119-S2A	RF-HA110-MW-S1	RF-HA110-MW-S2
			Sample Date:	11/2/2004	11/2/2004	23-Aug-02	23-Aug-02	23-Aug-02	13-Aug-02	13-Aug-02
			Sample Depth (ft. bgs):	8-10	10-12	4-6	6-7.9	6-7.9	0-2	2-4
			Soil Type:	GD	GD	IWF	IWF	IWF	EF	IWF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	--	--	--	ND	ND
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	--	--	--	ND	ND
1,4-Dichlorobenzene	26,000	1,500		ND	ND	--	--	--	ND	ND
Ethylbenzene	500,000	10,100		ND	ND	--	--	--	ND	ND
Isopropylbenzene	500,000	600		ND	ND	--	--	--	ND	ND
m+p Xylenes	500,000	19,500		ND	ND	--	--	--	ND	ND
Methylene Chloride	82,000	100		ND	ND	--	--	--	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	--	--	--	ND	ND
n-Propylbenzene	500,000	2,000		ND	ND	--	--	--	ND	ND
o-Xylene	500,000	20,000		ND	ND	--	--	--	ND	ND
Toluene	500,000	20,000		ND	ND	--	--	--	ND	ND
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		--	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		--	ND	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		--	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		--	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		--	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		--	ND	ND	6200	ND	ND	ND
Acenaphthylene	1,000,000	8,400		--	ND	ND	ND	ND	ND	ND
Anthracene	1,000,000	40,000		--	ND	ND	21000	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		--	ND	ND	**35000**	430	ND	340
Benzo[a]pyrene	1,000	1,000		--	ND	ND	**46000**	410	ND	660
Benzo[b]fluoranthene	1,000	1,000		--	ND	ND	**62000**	450	ND	**2100**
Benzo[g,h,i]perylene	1,000,000	4,200		--	ND	ND	**8700**	ND	ND	380
Benzo[k]fluoranthene	8,400	1,000		--	ND	ND	**20000**	220	ND	**1200**
Benzoic Acid	1,000,000	1,000,000		--	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		--	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		--	ND	ND	**26000**	ND	ND	ND
Chrysene	84,000	1,000		--	ND	ND	**31000**	400	ND	710
Dibenz[a,h]anthracene	1,000	1,000		--	ND	ND	**6000**	ND	ND	ND
Dibenzofuran	270,000	1,000		--	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		--	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		--	420	ND	**100000**	900	ND	420
Fluorene	1,000,000	5,600		--	ND	ND	**8600**	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		--	ND	ND	**13000**	ND	ND	450
Naphthalene	1,000,000	5,600		--	ND	ND	660	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		--	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		--	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		--	ND	ND	**93000**	950	ND	320
Pyrene	1,000,000	4,000		--	ND	ND	**77000**	670	ND	370
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		--	ND	**2600**	**2800**	88	ND	**4200**
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		--	--	--	--	--	ND	ND
4,4-DDE	1,800	NE		--	--	--	--	--	79	ND
4,4-DDT	1,800	NE		--	--	--	--	--	ND	ND
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	ND	ND
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	ND	ND	ND	ND	ND

TABLE IV
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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA212-MW S5	RF-HA212-MW S6	RF-HA119-S1	RF-HA119-S2	RF-HA119-S2A	RF-HA110-MW-S1	RF-HA110-MW-S2
			Sample Date:	11/2/2004	11/2/2004	23-Aug-02	23-Aug-02	23-Aug-02	13-Aug-02	13-Aug-02
			Sample Depth (ft. bgs):	8-10	10-12	4-6	6-7.9	6-7.9	0-2	2-4
			Soil Type:	GD	GD	IWF	IWF	IWF	EF	IWF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		--	ND	140	4.6	ND	ND	2.5
Arsenic	10	--		--	ND	21	4.7	ND	13	31
Beryllium	2	--		--	ND	ND	ND	ND	ND	1.6
Cadmium	34	--		--	ND	ND	ND	ND	ND	2.7
Chromium (hexavalent)	100	--		--	--	8.4	ND	ND	--	--
Chromium	NE	--		--	4.1	--	--	--	ND	ND
Copper	1,400	--		--	ND	2600	580	36	33	270
Lead	400	--		--	ND	1000	400	26	91	50
Mercury	20	--		--	ND	14	ND	ND	ND	ND
Nickel	1,400	--		--	ND	340	29	8.1	8.5	15
Selenium	340	--		--	ND	2	5.2	ND	54	71
Silver	340	--		--	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		--	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		--	5.6	3800	4700	290	45	75
SPLP Metals (mg/l):										
Antimony	--	0.006		--	ND	**0.0095**	--	--	--	--
Arsenic	--	0.05		--	ND	--	--	--	--	--
Beryllium	--	0.004		--	ND	--	--	--	--	--
Cadmium	--	0.005		--	ND	--	--	--	--	--
Chromium	--	0.05		--	ND	--	--	--	--	--
Copper	--	1.3		--	ND	--	--	--	--	--
Lead	--	0.015		--	ND	**4.7**	--	--	--	--
Mercury	--	0.002		--	ND	--	--	--	--	--
Nickel	--	0.1		--	ND	--	--	--	--	--
Selenium	--	0.05		--	ND	--	--	--	--	--
Silver	--	0.036		--	ND	--	--	--	--	--
Thallium	--	0.005		--	ND	--	--	--	--	--
Zinc	--	5		--	0.19	**81**	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		--	--	ND	ND	ND	ND	ND

Notes:
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7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

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IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA110-MW-S3	RF-HA110-MW-S4	RF-HA118-S1	RF-HA118-S2	RF-HA118-S2A	RF-HA118-S3	RF-HA118-S4A
			Sample Date:	13-Aug-02	13-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02
			Sample Depth (ft. bgs):	5-7	7-9	0-0.8	2-3.8	3.8-4	5-7	7-8.9
			Soil Type:	MF	GD	EF	IWF	MF	MF	MF
			Sample Type:							
Volatile Organic Compounds (ug/kg):										
1,2,4-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	--	--	--	--	--	--
1,4-Dichlorobenzene	26,000	1,500		ND	--	--	--	--	--	--
Ethylbenzene	500,000	10,100		ND	--	--	--	--	--	--
Isopropylbenzene	500,000	600		ND	--	--	--	--	--	--
m+p Xylenes	500,000	19,500		ND	--	--	--	--	--	--
Methylene Chloride	82,000	100		ND	--	--	--	--	--	--
Naphthalene	1,000,000	5,600		ND	--	--	--	--	--	--
n-Propylbenzene	500,000	2,000		ND	--	--	--	--	--	--
o-Xylene	500,000	20,000		ND	--	--	--	--	--	--
Toluene	500,000	20,000		ND	--	--	--	--	--	--
Semi-Volatile Organic Compounds (ug/kg):										
1,2,4-Trichlorobenzene	680,000	1,400		ND	--	ND	ND	ND	ND	--
1,3-Dichlorobenzene	500,000	12,000		ND	--	ND	ND	ND	ND	--
2-Methyl Naphthalene	474,000	980		ND	--	ND	ND	ND	ND	--
3,3-Dichlorobenzidine	1,400	330		ND	--	ND	ND	ND	ND	--
3+4 Methyl Phenol	340,000	1,000		ND	--	ND	ND	ND	ND	--
Acenaphthene	1,000,000	8,400		360	--	ND	ND	ND	ND	--
Acenaphthylene	1,000,000	8,400		270	--	ND	ND	ND	ND	--
Anthracene	1,000,000	40,000		660	--	ND	ND	ND	ND	--
Benzo[a]anthracene	1,000	1,000		1700*	--	ND	ND	360	200	--
Benzo[a]pyrene	1,000	1,000		2500*	--	ND	ND	300	ND	--
Benzo[b]fluoranthene	1,000	1,000		2700*	--	ND	ND	600	320	--
Benzo[g,h,i]perylene	1,000,000	4,200		660	--	ND	ND	ND		--
Benzo[k]fluoranthene	8,400	1,000		1700*	--	ND	ND	320	ND	--
Benzoic Acid	1,000,000	1,000,000		ND	--	ND	ND	ND	ND	--
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	--	ND	ND	ND	ND	--
Carbazole	31,000	1,000		ND	--	ND	ND	ND	ND	--
Chrysene	84,000	1,000		1600*	--	ND	ND	460	240	--
Dibenz[a,h]anthracene	1,000	1,000		310	--	ND	ND	ND	ND	--
Dibenzofuran	270,000	1,000		ND	--	ND	ND	ND	ND	--
Di-n-butylphthalate	1,000,000	14,000		ND	--	ND	ND	ND	ND	--
Fluoranthene	1,000,000	5,600		3300	--	ND	ND	220	380	--
Fluorene	1,000,000	5,600		450	--	ND	ND	ND	ND	--
Indeno[1,2,3-cd]pyrene	1,000	1,000		830	--	ND	ND	ND	ND	--
Naphthalene	1,000,000	5,600		320	--	ND	250	ND	ND	--
n-Nitroso-dimethylamine	NE	NE		ND	--	ND	ND	ND	ND	--
n-Nitrosodiphenylamine	130,000	1,000		2500*	--	ND	ND	ND	ND	--
Phenanthrene	1,000,000	4,000		4800*	--	ND	320	ND	220	--
Pyrene	1,000,000	4,000		1900	--	ND	ND	300	330	--
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		1900*	--	ND	71	**47000**	490	**3500**
Pesticides (ug/kg)										
4,4-DDD	2,600	NE		ND	--	54	--	--	--	--
4,4-DDE	1,800	NE		ND	--	550	--	--	--	--
4,4-DDT	1,800	NE		ND	--	240	--	--	--	--
4,4-Methoxychlor	340,000	NE		ND	--	ND	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		ND	--	ND	ND	ND	ND	--

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HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA110-MW-S3	RF-HA110-MW-S4	RF-HA118-S1	RF-HA118-S2	RF-HA118-S2A	RF-HA118-S3	RF-HA118-S4A
			Sample Date:	13-Aug-02	13-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02	23-Aug-02
			Sample Depth (ft. bgs):	5-7	7-9	0-0.8	2-3.8	3.8-4	5-7	7-8.9
			Soil Type:	MF	GD	EF	IWF	MF	MF	MF
			Sample Type:							
Total Metals (mg/kg):										
Antimony	27	--		22	ND	ND	23	54	6.9	16
Arsenic	10	--		14	ND	38	19	6.1	31	26
Beryllium	2	--		ND	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	ND	ND	ND	ND	2.7	0.51
Chromium (hexavalent)	100	--		--	ND	ND	ND	12	8.8	--
Chromium	NE	--		0.77	--	--	--	--	--	40
Copper	1,400	--		1200	3.9	38	450	12000	1700	2,800
Lead	400	--		54	3.7	140	780	3300	560	1,400
Mercury	20	--		ND	ND	0.51	20	10	3.9	0.4
Nickel	1,400	--		180	4.6	7.5	84	160	26	41
Selenium	340	--		1800	ND	ND	1.1	ND	ND	ND
Silver	340	--		ND	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		2800	150	42	280	700	330	540
SPLP Metals (mg/l):										
Antimony	--	0.006		--	--	--	--	**0.027**	--	--
Arsenic	--	0.05		--	--	--	--	--	--	--
Beryllium	--	0.004		--	--	--	--	--	--	--
Cadmium	--	0.005		--	--	--	--	--	--	--
Chromium	--	0.05		--	--	--	--	--	--	--
Copper	--	1.3		--	--	--	--	**5**	--	--
Lead	--	0.015		--	--	--	--	**0.41**	--	--
Mercury	--	0.002		--	--	--	--	--	--	--
Nickel	--	0.1		--	--	--	--	--	--	--
Selenium	--	0.05		--	--	--	--	--	--	--
Silver	--	0.036		--	--	--	--	--	--	--
Thallium	--	0.005		--	--	--	--	--	--	--
Zinc	--	5		--	--	--	--	--	--	--
Total Cyanide (mg/kg):	1,400	NE		ND	--	ND	ND	ND	ND	ND

Notes:
1. This table includes only those compounds which were detected.
2. RSR criteria means Remedial Standard Regulation criteria established by the CT DEP.
3. ND means the compound was not detected above minimum laboratory detection limit.
4. NE means no criteria established by CTDEP for listed compound.
5. '-- Compound not analyzed for or not applicable.
6. ug/kg means micrograms per kilogram; mg/kg means milligrams per kilogram; mg/l means milligram per litre
7. Analytical results as reported above the GAPMC are presented in bold type. Values in a box exceed RDEC.
8. RSR DEC for lead (400 mg/kg) is based on a proposed revision to the current 500 mg/kg DEC for lead.
9. * Indicates GAPMC does not apply; sample collected within groundwater table.
10. The above 'Soil Type' was described by Haley & Aldrich, Inc. as the following:

EF: Earthen Fill: Soil fill, including topsoil which typically does not contain man-made artifacts but at some locations may contain variable amounts of root matter, cobbles, boulders and construction/demolition debris such as concrete, asphalt and brick

DRF: Domestic Refuse Fill: Soil intermixed with products associated with household and/or on-site burning of paper/wood/coal (ash/cinders), intermixed with rusted metal cans and numerous whole bottles and and brick. broken glass, various broken ceramic items

IWF: Industrial Waste Fill: Black silt and sand sized particles of slag , with cinders and ash intermixed with wood fragments, sawdust and/or wood chips, batteries, Winchester-related products, Shell casings & furnace bricks.

MF: Miscellaneous Fill: Earthen Fill and/or Domestic Refuse Fill mixed with variable amounts of Industrial Waste Fi

AD: Alluvial Deposits: Organic rich deposits associated with former intermittent watercourse and wetlands.

GD: Glaciodeltaic Deposits: Glacial meltwater deposits consisting primarily of sand and silt.

TABLE IV
SUMMARY OF ANALYTICAL RESULTS FOR SOIL
ROCHFORD FIELD PHASE II & III INVESTIGATIONS
HAMDEN, CONNECTICUT

PARAMETER	Residential Direct Exposure Criteria	GA/GAA Pollutant Mobility Criteria	Sample ID:	RF-HA210 S1	RF-HA210G S1	RF-HA210 S2	RF-HA210 S3	RF-HA210 S4	RF-HA211-MW S1	RF-HA211-MW S2	RF-HA211-MW S5
			Sample Date:	11/10/2004	11/10/2004	11/10/2004	11/10/2004	11/10/2004	11/3/2004	11/3/2004	11/3/2004
			Sample Depth (ft. bgs):	0-2	0-2	2-4	4-6	6.8-8	0-2	2-4	8-10
			Soil Type:	EF	EF	IWF	IWF	GD	EF	MF	GD
			Sample Type:		DUPLICATE						
Volatile Organic Compounds (ug/kg):											
1,2,4-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	ND	--	--	--
1,3,5-Trimethylbenzene	500,000	7,000		ND	ND	ND	ND	ND	--	--	--
1,4-Dichlorobenzene	26,000	1,500		ND	ND	ND	ND	ND	--	--	--
Ethylbenzene	500,000	10,100		ND	ND	ND	ND	ND	--	--	--
Isopropylbenzene	500,000	600		ND	ND	ND	ND	ND	--	--	--
m+p Xylenes	500,000	19,500		ND	ND	ND	ND	ND	--	--	--
Methylene Chloride	82,000	100		ND	ND	ND	ND	ND	--	--	--
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	--	--	--
n-Propylbenzene	500,000	2,000		ND	ND	ND	ND	ND	--	--	--
o-Xylene	500,000	20,000		ND	ND	ND	ND	ND	--	--	--
Toluene	500,000	20,000		22	ND	ND	ND	ND	--	--	--
Semi-Volatile Organic Compounds (ug/kg):											
1,2,4-Trichlorobenzene	680,000	1,400		ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	500,000	12,000		ND	ND	ND	ND	ND	ND	ND	ND
2-Methyl Naphthalene	474,000	980		ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	330		ND	ND	ND	ND	ND	ND	ND	ND
3+4 Methyl Phenol	340,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1,000,000	8,400		ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000,000	40,000		ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1,000	1,000		ND	ND	ND	**2100**	ND	ND	ND	ND
Benzo[b]fluoranthene	1,000	1,000		ND	ND	ND	**3800**	ND	ND	ND	ND
Benzo[g,h,i]perylene	1,000,000	4,200		ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	8,400	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	1,000,000	1,000,000		ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	44,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	84,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Dibenz[a,h]anthracene	1,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	270,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	1,000,000	14,000		ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	5,600		ND	ND	ND	3000	ND	ND	ND	ND
Fluorene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	1,000	1,000		ND	ND	ND	**2100**	ND	ND	ND	ND
Naphthalene	1,000,000	5,600		ND	ND	ND	ND	ND	ND	ND	ND
n-Nitroso-dimethylamine	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	130,000	1,000		ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	4,000		ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,000,000	4,000		ND	ND	ND	2600	ND	ND	ND	ND
Extractable Total Petroleum Hydrocarbons (mg/kg)	500	500		ND	ND	**560**	**1600**	ND	ND	ND	ND
Pesticides (ug/kg)											
4,4-DDD	2,600	NE		--	--	--	--	--	--	--	--
4,4-DDE	1,800	NE		--	--	--	--	--	--	--	--
4,4-DDT	1,800	NE		--	--	--	--	--	--	--	--
4,4-Methoxychlor	340,000	NE		--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) (mg/kg):	1	0.0005		--	--	--	--	--	--	--	--

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			Sample Depth (ft. bgs):	0-2	0-2	2-4	4-6	6.8-8	0-2	2-4	8-10
			Soil Type:	EF	EF	IWF	IWF	GD	EF	MF	GD
			Sample Type:		DUPLICATE						
Total Metals (mg/kg):											
Antimony	27	--		ND	--	6.2	29	ND	ND	ND	ND
Arsenic	10	--		20	--	30	52	ND	17	ND	ND
Beryllium	2	--		ND	--	ND	ND	ND	ND	ND	ND
Cadmium	34	--		ND	--	ND	8.5	ND	ND	ND	ND
Chromium (hexavalent)	100	--		--	--	--	--	--	--	--	--
Chromium	NE	--		18	--	20	200	15	3.5	5.2	2.7
Copper	1,400	--		120	--	490	16000	22	53	2.7	7.3
Lead	400	--		140	--	280	1800	16	81	4.1	ND
Mercury	20	--		ND	--	0.89	2	ND	ND	ND	ND
Nickel	1,400	--		18	--	350	2300	15	8	ND	ND
Selenium	340	--		ND	--	ND	ND	ND	ND	ND	ND
Silver	340	--		ND	--	ND	ND	ND	ND	ND	ND
Thallium	5.4	--		ND	--	ND	ND	ND	ND	ND	ND
Zinc	20,000	--		91	--	150	4100	230	23	5.5	4.5
SPLP Metals (mg/l):											
Antimony	--	0.006		ND	--	ND	**0.015**	ND	ND	ND	ND
Arsenic	--	0.05		0.0082	--	0.0049	0.007	0.0054	ND	ND	ND
Beryllium	--	0.004		ND	--	ND	ND	ND	ND	ND	ND
Cadmium	--	0.005		ND	--	ND	ND	ND	ND	ND	ND
Chromium	--	0.05		ND	--	ND	ND	ND	ND	ND	ND
Copper	--	1.3		ND	--	0.13	**1.7**	ND	ND	ND	ND
Lead	--	0.015		ND	--	0.015	**0.53**	ND	ND	ND	ND
Mercury	--	0.002		ND	--	ND	ND	ND	ND	ND	ND
Nickel	--	0.1		ND	--	ND	**0.34**	0.056	ND	ND	ND
Selenium	--	0.05		ND	--	ND	ND	ND	ND	ND	ND
Silver	--	0.036		ND	--	ND	ND	ND	ND	ND	ND
Thallium	--	0.005		ND	--	ND	ND	ND	ND	ND	ND
Zinc	--	5		0.43	--	0.39	4.7	2.1	0.22	0.16	0.17
Total Cyanide (mg/kg):	1,400	NE		--	--	--	--	--	--	--	--

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