Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	C-SS-3 1 7/30/2004	C-SS-4 1 7/30/2004	C-SS-5 1 7/30/2004	C-SS-6 1 7/30/2004	C-SS-8 1 7/30/2004	D-SS-7 1 7/30/2004	E-SS-11 1 7/30/2004	E-SS-12 1 7/30/2004	ER-SD-01 2 8/18/2004	ER-SD-02 3 8/18/2004	HD-WPL-QC-01-02-01 0 - 1 7/31/2004	J-SS-14 1 8/20/2004	J-SS-15 1 8/20/2004
Cyanide, Total																	
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U		
Hexavalent Chromium																	
Hexavalent Chromium	190	420	190000	200	2 U	2 U	11	19.2	25.3	3.5	69.8	2 U			25.1		
Mercury																	
Mercury	10	840	190000	24	0.05	0.07	0.6	0.5	0.79	0.22	0.6	0.021 U	0.86	4.46	0.74		
Metal																	
Antimony	27	1100	190000	410	1.7	0.69 B	9.5	22.6	24.9	3	25.4	0.96 B	46	79	24.7		
Arsenic	150	53	190000	1.6	6	6	8.5	11	18.4	8	10.4	8.8	22	19	13.1		
Beryllium	320	5600	190000	2000	0.53	0.66	0.62	0.62	0.57	0.52	0.45	0.66	1.1 U	1.2 U	0.56		
Cadmium	38	210	190000	800	3.9	1	8.5	12	18.2	3.1	9.4	0.051 U	11.2	19.4	16		
Chromium				1400	26.5	21.7	218	284	431	100	231	46	5290	2230	404		
Copper	36000	100000	190000	41000	190	306	467	732	1590	226	653	25.4	1880	2310	776		
Lead	450	1000	190000	800	98.5	62.2	417	587	857	150	544	17.2	1270	1630	850		
Nickel	650	56000	190000	20000	19.8	17.2	45.1	61.7	98	26.6	180	16.3	625	769	82.4		
Selenium	26	14000	190000	5100	0.46 U	0.44 U	0.47 U	0.49 U	0.46 U	0.48 U	0.47 U	0.49 U	97 U	95 U	0.49 U		
Silver	84	14000	190000	5100	1.8	0.74 B	5.6	8.2	20.2	1.4	18.9	0.088 U	50	54.1	14.9		
Thallium	14	200	190000	66	0.52 U	0.5 U	0.53 U	0.55 U	0.51 U	0.55 U	0.53 U	0.56 U	3 U	4 U	0.55 U		
Zinc	12000	190000	190000	310000	253	140	1290	1940	2610	432	1930	61.5	4070	4060	2530		
Polychlorinated Biphenols																	
Arochlor-1016	200	200	10000	21	0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U	0.41 U	0.079 U
Arochlor-1221	2.5	160	10000	0.62	0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U	0.41 U	0.079 U
Arochlor-1232	2	160	10000	0.62	0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U	0.41 U	0.079 U
Arochlor-1242	62	160	10000	0.74	0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U	0.41 U	0.079 U
Arochlor-1248	67	44	10000	0.74	0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U	0.41 U	0.079 U
Arochlor-1254	280	44	10000	0.74	0.51 E	1.5	24	7	170	3	210	0.27			250	5.3	0.24
Arochlor-1260	1900	130	190000	0.74	0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U	0.41 U	0.17
Arochlor-1262					0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U		
Arochlor-1268					0.02 U	0.038 U	0.5 U	0.21 U	1.9 U	0.17 U	4 U	0.021 U			4.2 U		
PCBs (Total)				0.74	0.51 E	1.5	24	7	170	3	210	0.27			250	5.3	0.41
Semi Volatile Organic Compound																	
1,2,4-Trichlorobenzene	27	10000	10000	400	0.2 U	0.038 U	0.2 U	0.042 U	0.039 U	0.083 U	0.08 U	0.042 U			0.083 U		
1,2-Dichlorobenzene	60	10000	10000	10000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
1,3-Dichlorobenzene	61	10000	10000		2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
1,4-Dichlorobenzene	10	3300	190000	13	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2,4,5-Trichlorophenol	6100	190000	190000	62000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2,4,6-Trichlorophenol	8.9	840	190000	160	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2,4-Dichlorophenol	2	8400	190000	1800	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2,4-Dimethylphenol	200	10000	10000	12000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.096 J		
2,4-Dinitrophenol	4.1	5600	190000	1200	7.9 U	1.5 U	8 U	1.7 U	1.6 U	3.3 U	3.2 U	1.7 U			3.3 U		
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.39 U	0.075 U	0.4 U	0.084 U	0.078 U	0.16 U	0.16 U	0.084 U			0.17 U		
2,6-Dinitrotoluene	10	2800	190000	620	0.39 U	0.075 U	0.4 U	0.084 U	0.078 U	0.16 U	0.16 U	0.084 U			0.17 U		
2-Chloronaphthalene	18000	190000	190000	82000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2-Chlorophenol	4.4	920	1100	5100	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2-Methylnaphthalene	8000	10000	10000	4100	0.31 J	0.38 U	0.27 J	0.21 J	0.16 J	0.83 U	0.36 J	0.42 U			0.23 J		
2-Methylphenol	510	10000	10000	31000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
2-Nitroaniline	0.58	160	190000	1800	3.9 U	0.75 U	4 U	0.84 U	0.78 U	1.6 U	1.6 U	0.84 U			1.7 U		
2-Nitrophenol	82	22000	190000		2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
3,3'-Dichlorobenzidine	32	180	190000	3.8	3.9 U	0.75 U	4 U	0.84 U	0.78 U	1.6 U	1.6 U	0.84 U			1.7 U		
3-Nitroaniline	0.58	160	190000		3.9 U	0.75 U	4 U	0.84 U	0.78 U	1.6 U	1.6 U	0.84 U			1.7 U		
4,6-Dinitro-2-Methylphenol				62	7.9 U	1.5 U	8 U	1.7 U	1.6 U	3.3 U	3.2 U	1.7 U			3.3 U		

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

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Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	C-SS-3 1 7/30/2004	C-SS-4 1 7/30/2004	C-SS-5 1 7/30/2004	C-SS-6 1 7/30/2004	C-SS-8 1 7/30/2004	D-SS-7 1 7/30/2004	E-SS-11 1 7/30/2004	E-SS-12 1 7/30/2004	ER-SD-01 2 8/18/2004	ER-SD-02 3 8/18/2004	HD-WPL-QC-01-02-01 0 - 1 7/31/2004	J-SS-14 1 8/20/2004	J-SS-15 1 8/20/2004
4-Bromophenyl phenyl ether					2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
4-Chloro-3-Methyl-Phenol	110	14000	190000		2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
4-Chloroaniline	52	11000	190000	8.6	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
4-Chlorodiphenyl Ether					2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
4-METHYLPHENOL	51	14000	190000	3100	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.087 J	0.42 U			0.095 J		
4-Nitroaniline	0.58	160	190000	86	3.9 U	0.75 U	4 U	0.84 U	0.78 U	1.6 U	1.6 U	0.84 U			1.7 U		
4-Nitrophenol	6	22000	190000		7.9 U	1.5 U	8 U	1.7 U	1.6 U	3.3 U	3.2 U	1.7 U			3.3 U		
Acenaphthene	4700	170000	190000	33000	1.6 J	0.028 J	2.8	0.42 U	0.45	0.83 U	1.4	0.42 U			1.2		
Acenaphthylene	6900	170000	190000	33000	0.11 J	0.027 J	0.15 J	0.19 J	0.75	0.043 J	0.23 J	0.42 U			0.74 J		
Anthracene	350	190000	190000	170000	2.9	0.11 J	4.7	0.75	1.4	0.06 J	3.5	0.42 U			2.8		
Benzo (A) Anthracene	320	110	190000	2.1	5.9	0.44	11	2.4	3.7	0.18	6.2	0.042 U			5.9		
Benzo (a) Pyrene	46	11	190000	0.21	4.6	0.42	13	2.6	4.6	0.2	6.2	0.042 U			5.8		
Benzo (b) Fluoranthene	170	110	190000	2.1	4.8	0.35	12	2.9	5.3	0.23	5.9	0.042 U			5.2		
Benzo (g,h,i) Perylene	180	170000	190000		1.8 J	0.22 J	10	1	1.7	0.14 J	3.5	0.42 U			3.4		
Benzo (k) Fluoranthene	610	1100	190000	21	4.9	0.46	12	2.5	4.5	0.29	5.3	0.042 U			5.8		
Bis(2-Chloroethoxy) Methane				1800	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.2 U	0.038 U	0.2 U	0.042 U	0.039 U	0.083 U	0.08 U	0.042 U			0.083 U		
Bis(2-Chloroisopropyl) Ether	30	160	190	17	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	2 U	0.38 U	2 U	0.087 J	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Butylbenzylphthalate	10000	10000	10000	910	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Carbazole	83	4000	190000		1.6 J	0.042 J	2.7	0.27 J	0.5	0.029 J	1.6	0.42 U			1.1		
Chrysene	230	11000	190000	210	7.1	0.5	13	3	4.9	0.27 J	7	0.42 U			7		
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.8	0.087	3.9	0.48	0.7	0.053 J	1.4	0.042 U			1.3		
Dibenzofuran					1.4 J	0.38 U	0.92 J	0.16 J	0.24 J	0.83 U	0.83	0.42 U			0.49 J		
Diethylphthalate	500	10000	10000	490000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Dimethylphthalate					2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Di-n-Butylphthalate	4100	10000	10000	62000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Di-n-octylphthalate	10000	10000	10000		2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Fluoranthene	3200	110000	190000	22000	16	0.72	21	3.6	5.7	0.31 J	9.7	0.013 J			9.8		
Fluorene	3800	110000	190000	22000	2	0.022 J	1.9 J	0.2 J	0.37 J	0.83 U	1.4	0.42 U			0.88		
Hexachlorobenzene	0.96	50	190000	1.1	0.2 U	0.038 U	0.2 U	0.042 U	0.039 U	0.083 U	0.08 U	0.042 U			0.083 U		
Hexachlorobutadiene	1.2	560	10000	22	0.39 U	0.075 U	0.4 U	0.084 U	0.078 U	0.16 U	0.16 U	0.084 U			0.17 U		
Hexachlorocyclopentadiene	91	10000	10000	3700	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Hexachloroethane	0.56	2800	190000	120	0.2 U	0.038 U	0.2 U	0.042 U	0.039 U	0.083 U	0.08 U	0.042 U			0.083 U		
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	1.9	0.21	9.9	1.1	1.9	0.1	3.5	0.042 U			3.5		
Isophorone	10	10000	10000	1800	2 U	0.38 U	2 U	0.42 U	0.39 U	0.093 J	0.8 U	0.42 U			0.83 U		
Naphthalene	25	56000	190000	20	0.4 J	0.013 J	0.56 J	0.31 J	0.33 J	0.031 J	0.7 J	0.42 U			0.42 J		
Nitrobenzene	5.1	1400	10000	22	0.2 U	0.038 U	0.2 U	0.042 U	0.039 U	0.083 U	0.08 U	0.042 U			0.083 U		
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.2 U	0.038 U	0.2 U	0.042 U	0.039 U	0.083 U	0.08 U	0.042 U			0.083 U		
N-Nitrosodiphenylamine	83	16000	190000	350	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Pentachlorophenol	5	660	190000	9	7.9 U	1.5 U	8 U	1.7 U	1.6 U	3.3 U	3.2 U	1.7 U			3.3 U		
Phenanthrene	10000	190000	190000		18	0.34 J	17	2.6	4.1	0.14 J	9.3	0.0089 J			8.2		
Phenol	400	190000	190000	180000	2 U	0.38 U	2 U	0.42 U	0.39 U	0.83 U	0.8 U	0.42 U			0.83 U		
Pyrene	2200	84000	190000	17000	13	0.74	19	4	6.4	0.31 J	9.2	0.01 J			9.4		
Toxicity Characteristic Leaching Procedure - Mercury																	
Mercury	10	840	190000	24													
Nickel	650	56000	190000	20000													
Toxicity Characteristic Leaching Procedure - Metal																	
Antimony	27	1100	190000	410													
Arsenic	150	53	190000	1.6													
Barium	8200	190000	190000	190000													

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

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Beryllium	320	5600	190000	2000													
Cadmium	38	210	190000	800													
Chromium				1400													
Copper	36000	100000	190000	41000													
Lead	450	1000	190000	800													
Nickel	650	56000	190000	20000													
Selenium	26	14000	190000	5100													
Silver	84	14000	190000	5100													
Thallium	14	200	190000	66													
Zinc	12000	190000	190000	310000													
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound																	
1,1-Dichloroethene	0.7	33	38	1100													
1,2-Dichloroethane	0.5	63	73	2.2													
2-Butanone	580	10000	10000	190000													
Benzene	0.5	210	240	5.6													
Carbon Tetrachloride	0.5	110	120	1.3													
Chlorobenzene	10	10000	10000	1500													
Chloroform	10	17	19	1.5													
Tetrachloroethene	0.5	1500	3300	2.7													
Trichloroethene	0.5	970	1100	14													
Vinyl Chloride	0.2	53	220	1.7													
Total Solids																	
Moisture													57.10%	67.60%			
Percent Solids													42.90%	32.40%			
Volatile Organic Compound																	
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
1,1,1-Trichloroethane	20	10000	10000	39000	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0009 U	0.0009 U	0.12 U	0.11 U	0.1 U	0.0011 U	0.0011 U	0.0011 U			0.23 U		
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0028 U	0.0027 U	0.35 U	0.33 U	0.31 U	0.0034 U	0.0033 U	0.0034 U			0.68 U		
1,1-Dichloroethane	11	1000	1200	17	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
1,1-Dichloroethene	0.7	33	38	1100	0.0018 U	0.0018 U	0.24 U	0.22 U	0.21 U	0.0023 U	0.0022 U	0.0023 U			0.45 U		
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
1,2-Dichloroethane	0.5	63	73	2.2	0.0018 U	0.0018 U	0.24 U	0.22 U	0.21 U	0.0023 U	0.0022 U	0.0023 U			0.45 U		
1,2-Dichloropropane	0.5	160	180	4.7	0.0009 U	0.0009 U	0.12 U	0.11 U	0.1 U	0.0011 U	0.0011 U	0.0011 U			0.23 U		
1,4-Dioxane	2.4	210	240	160	0.93 U	0.89 U	120 U	110 U	100 U	1.1 U	1.1 U	1.1 U			230 U		
2-Butanone	580	10000	10000	190000	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
2-Hexanone					0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Acetone	1000	10000	10000	610000	0.099	0.12	0.59 U	0.55 U	0.52 U	0.16 B	0.2	0.12			1.1 U		
Acrylonitrile	0.27	24	28	1.2	0.046 U	0.045 U	5.9 U	5.5 U	5.2 U	0.057 U	0.055 U	0.056 U			11 U		
Benzene	0.5	210	240	5.6	0.0009 U	0.0009 U	0.12 U	0.11 U	0.1 U	0.0011 U	0.0011 J	0.0011 U			0.23 U		
Bromochloromethane	9	10000	10000		0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Bromodichloromethane	10	45	51	1.4	0.0009 U	0.0009 U	0.12 U	0.11 U	0.1 U	0.0011 U	0.0011 U	0.0011 U			0.23 U		
Bromoform	10	1500	1700	220	0.0037 U	0.0036 U	0.47 U	0.44 U	0.41 U	0.0045 U	0.0044 U	0.0045 U			0.91 U		
Bromomethane	1	270	300	35	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Carbon Disulfide	410	10000	10000	3000	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Carbon Tetrachloride	0.5	110	120	1.3	0.0018 U	0.0018 U	0.24 U	0.22 U	0.21 U	0.0023 U	0.0022 U	0.0023 U			0.45 U		
Chlorobenzene	10	10000	10000	1500	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Chlorodibromomethane	10	61	70	3.4	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Chloroethane	90	10000	10000	62000	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Chloroform	10	17	19	1.5	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	C-SS-3 1 7/30/2004	C-SS-4 1 7/30/2004	C-SS-5 1 7/30/2004	C-SS-6 1 7/30/2004	C-SS-8 1 7/30/2004	D-SS-7 1 7/30/2004	E-SS-11 1 7/30/2004	E-SS-12 1 7/30/2004	ER-SD-01 2 8/18/2004	ER-SD-02 3 8/18/2004	HD-WPL-QC-01-02-01 0 - 1 7/31/2004	J-SS-14 1 8/20/2004	J-SS-15 1 8/20/2004
Chloromethane	0.3	920	1000	510	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0046 U	0.0045 U	0.77	4.3	0.89	0.0057 U	0.061	0.0032 J			2.8		
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Ethylbenzene	70	10000	10000	29	0.0037 U	0.0036 U	0.47 U	0.082 J	0.068 J	0.0045 U	0.0044 U	0.0045 U			0.91 U		
Methyl tert-butyl ether	2	3200	3700	190	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Methylene chloride	0.5	3500	4000	54	0.0028 U	0.0027 U	0.35 U	0.33 U	0.31 U	0.0034 U	0.0006 JB	0.0034 U			0.68 U		
Styrene	24	10000	10000	38000	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Tetrachloroethene	0.5	1500	3300	2.7	0.012	0.0009 U	0.12 U	0.1 J	0.4	0.0011 U	0.054	0.0019			0.6		
Toluene	100	10000	10000	46000	0.0028 J	0.0045 U	0.59 U	0.44 J	0.33 J	0.0013 J	0.0022 J	0.0056 U			0.2 J		
trans-1,2-Dichloroethene	10	3700	4300	500	0.0046 U	0.0045 U	0.11 J	0.36 J	0.1 J	0.0057 U	0.0025 J	0.0056 U			0.16 J		
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Trichloroethene	0.5	970	1100	14	0.001	0.0021	9	19	11	0.0065	0.18	0.014			26		
Vinyl Chloride	0.2	53	220	1.7	0.0046 U	0.0045 U	0.59 U	0.55 U	0.52 U	0.0057 U	0.0055 U	0.0056 U			1.1 U		
Xylenes (Total)	1000	10000	10000	2600	0.0046 U	0.0045 U	0.59 U	0.42 J	0.48 J	0.0057 U	0.0055 U	0.0056 U			0.5 J		

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	SS-9 1 7/30/2004	SS-10 1 7/30/2004	WPL-SB-001 0.5 - 2 2/10/2004	WPL-SB-001 3 - 5 2/10/2004	WPL-SB-002 0.5 - 2 2/10/2004	WPL-SB-002 3 - 5 2/10/2004	*WPL-SB-003 0.5 - 2 2/10/2004	WPL-SB-003 3 - 5 2/10/2004	*WPL-SB-004 0.5 - 2 2/11/2004	WPL-SB-004 8 - 10 2/11/2004	*WPL-SB-005 0.5 - 2 2/11/2004
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.5 U	0.5 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	25.7	20.1	2 U	2 U	2 U	2 U	6.7	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.94	0.36	0.3	0.021 U	0.36	0.021 U	1.3	0.021 U	0.017 U	0.021 U	0.3
Metal															
Antimony	27	1100	190000	410	49.2	14.2	0.7 U	0.72 U	0.71 U	0.75 U	0.71 U	0.74 U	0.6 U	0.72 U	0.73 U
Arsenic	150	53	190000	1.6	14.2	8.8	5.8	5.4	6.6	7.2	7.1	7	1	5	5.2
Beryllium	320	5600	190000	2000	0.54	0.59	0.63	0.8	0.63	0.67	0.69	0.69	0.13 B	0.59	0.72
Cadmium	38	210	190000	800	22.2	7.3	0.06 B	0.05 U	0.049 U	0.051 U	1.2	0.051 U	0.07 B	0.05 U	0.11 B
Chromium				1400	781	231	23	19.8	26.2	27.5	63.5	24.7	2.1	14.7	21.8
Copper	36000	100000	190000	41000	1220	539	19	13.1	24.8	21.3	59.7	19.3	3.1	13.2	15.8
Lead	450	1000	190000	800	984	389	20.9	13.6	25.8	12.6	92.9	11.6	5.9	11.1	21.3
Nickel	650	56000	190000	20000	134	52.9	13.3	12.1	16.2	15	23	14.4	4.4	11.2	12.6
Selenium	26	14000	190000	5100	0.51 U	0.5 U	0.51 U	0.52 U	0.51 U	0.54 U	0.51 U	0.54 U	0.44 U	0.52 U	0.53 U
Silver	84	14000	190000	5100	25.2	6	0.17 U	0.17 U	0.17 U	0.18 U	1 B	0.18 U	0.15 U	0.17 U	0.18 U
Thallium	14	200	190000	66	0.57 U	0.56 U	0.57 U	0.59 U	0.57 U	0.6 U	0.58 U	0.6 U	0.49 U	0.59 U	0.59 U
Zinc	12000	190000	190000	310000	4500	1440	61.8	44.8	75.7	48.5	126	44.4	19	33.1	51.8
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	1.1 U	2.1 U	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1221	2.5	160	10000	0.62	1.1 U	2.1 U	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1232	2	160	10000	0.62	1.1 U	2.1 U	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1242	62	160	10000	0.74	1.1 U	2.1 U	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1248	67	44	10000	0.74	1.1 U	2.1 U	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1254	280	44	10000	0.74	63	150	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1260	1900	130	190000	0.74	1.1 U	2.1 U	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Arochlor-1262					1.1 U	2.1 U									
Arochlor-1268					1.1 U	2.1 U									
PCBs (Total)				0.74	63	150	0.081 U	0.083 U	0.082 U	0.086 U	0.082 U	0.085 U	0.07 U	0.084 U	0.084 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.044 U	0.042 U	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.4 U	1.7 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.087 U	0.085 U	0.081 U	0.083 U	0.081 U	0.086 U	0.082 U	0.085 U	0.07 U	0.083 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.087 U	0.085 U	0.081 U	0.083 U	0.081 U	0.086 U	0.082 U	0.085 U	0.07 U	0.083 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.15 J	0.052 J	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.87 U	0.85 U	0.81 U	0.83 U	0.81 U	0.86 U	0.82 U	0.85 U	0.7 U	0.83 U	0.84 U
2-Nitrophenol	82	22000	190000		0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.87 U	0.85 U	0.81 U	0.83 U	0.81 U	0.86 U	0.82 U	0.85 U	0.7 U	0.83 U	0.84 U
3-Nitroaniline	0.58	160	190000		0.87 U	0.85 U	0.81 U	0.83 U	0.81 U	0.86 U	0.82 U	0.85 U	0.7 U	0.83 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.4 U	1.7 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	SS-9 1 7/30/2004	SS-10 1 7/30/2004	WPL-SB-001 0.5 - 2 2/10/2004	WPL-SB-001 3 - 5 2/10/2004	WPL-SB-002 0.5 - 2 2/10/2004	WPL-SB-002 3 - 5 2/10/2004	*WPL-SB-003 0.5 - 2 2/10/2004	WPL-SB-003 3 - 5 2/10/2004	*WPL-SB-004 0.5 - 2 2/11/2004	WPL-SB-004 8 - 10 2/11/2004	*WPL-SB-005 0.5 - 2 2/11/2004
4-Bromophenyl phenyl ether					0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
4-Chlorodiphenyl Ether					0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.87 U	0.85 U	0.81 U	0.83 U	0.81 U	0.86 U	0.82 U	0.85 U	0.7 U	0.83 U	0.84 U
4-Nitrophenol	6	22000	190000		1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.4 U	1.7 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.38 J	0.18 J	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.24 J	0.13 J	0.4 U	0.42 U	0.4 U	0.43 U	0.11 J	0.42 U	0.35 U	0.42 U	0.42 U
Anthracene	350	190000	190000	170000	0.87	0.39 J	0.4 U	0.42 U	0.4 U	0.43 U	0.031 J	0.42 U	0.35 U	0.42 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	1.9	1	0.04 U	0.042 U	0.018 J	0.043 U	0.055	0.042 U	0.035 U	0.042 U	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	1.9	1.2	0.04 U	0.042 U	0.021 J	0.043 U	0.062	0.042 U	0.035 U	0.042 U	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	1.8	1.2	0.017 J	0.042 U	0.022 J	0.043 U	0.05	0.042 U	0.035 U	0.042 U	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.91	0.86	0.4 U	0.42 U	0.4 U	0.43 U	0.12 J	0.42 U	0.35 U	0.42 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	2.3	1.1	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.044 U	0.042 U	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.17 J	0.42 U	0.14 J	0.15 J	0.15 J	0.13 J	0.12 J	0.12 J	0.35 U	0.42 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Carbazole	83	4000	190000		0.29 J	0.17 J	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Chrysene	230	11000	190000	210	2.3	1.3	0.4 U	0.42 U	0.4 U	0.43 U	0.067 J	0.42 U	0.35 U	0.42 U	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.37	0.29	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
Dibenzofuran					0.18 J	0.079 J	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Dimethylphthalate					0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Fluoranthene	3200	110000	190000	22000	3.4	2	0.4 U	0.42 U	0.4 U	0.43 U	0.043 J	0.42 U	0.35 U	0.42 U	0.42 U
Fluorene	3800	110000	190000	22000	0.3 J	0.12 J	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.044 U	0.042 U	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.087 U	0.085 U	0.081 U	0.083 U	0.081 U	0.086 U	0.082 U	0.085 U	0.07 U	0.083 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.044 U	0.042 U	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.9	0.8	0.04 U	0.042 U	0.04 U	0.043 U	0.062	0.042 U	0.035 U	0.042 U	0.042 U
Isophorone	10	10000	10000	1800	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Naphthalene	25	56000	190000	20	0.16 J	0.092 J	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.044 U	0.042 U	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.044 U	0.042 U	0.04 U	0.042 U	0.04 U	0.043 U	0.041 U	0.042 U	0.035 U	0.042 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.4 U	1.7 U	1.7 U
Phenanthrene	10000	190000	190000		2.6	1.3	0.4 U	0.42 U	0.4 U	0.43 U	0.045 J	0.42 U	0.35 U	0.42 U	0.42 U
Phenol	400	190000	190000	180000	0.44 U	0.42 U	0.4 U	0.42 U	0.4 U	0.43 U	0.41 U	0.42 U	0.35 U	0.42 U	0.42 U
Pyrene	2200	84000	190000	17000	3.7	1.8	0.4 U	0.42 U	0.02 J	0.43 U	0.08 J	0.42 U	0.35 U	0.42 U	0.42 U
Toxicity Characteristic Leaching Procedure - Mercury															
Mercury	10	840	190000	24											
Nickel	650	56000	190000	20000											
Toxicity Characteristic Leaching Procedure - Metal															
Antimony	27	1100	190000	410											
Arsenic	150	53	190000	1.6											
Barium	8200	190000	190000	190000											

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	SS-9 1 7/30/2004	SS-10 1 7/30/2004	WPL-SB-001 0.5 - 2 2/10/2004	WPL-SB-001 3 - 5 2/10/2004	WPL-SB-002 0.5 - 2 2/10/2004	WPL-SB-002 3 - 5 2/10/2004	*WPL-SB-003 0.5 - 2 2/10/2004	WPL-SB-003 3 - 5 2/10/2004	*WPL-SB-004 0.5 - 2 2/11/2004	WPL-SB-004 8 - 10 2/11/2004	*WPL-SB-005 0.5 - 2 2/11/2004
Beryllium	320	5600	190000	2000											
Cadmium	38	210	190000	800											
Chromium				1400											
Copper	36000	100000	190000	41000											
Lead	450	1000	190000	800											
Nickel	650	56000	190000	20000											
Selenium	26	14000	190000	5100											
Silver	84	14000	190000	5100											
Thallium	14	200	190000	66											
Zinc	12000	190000	190000	310000											
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound															
1,1-Dichloroethene	0.7	33	38	1100											
1,2-Dichloroethane	0.5	63	73	2.2											
2-Butanone	580	10000	10000	190000											
Benzene	0.5	210	240	5.6											
Carbon Tetrachloride	0.5	110	120	1.3											
Chlorobenzene	10	10000	10000	1500											
Chloroform	10	17	19	1.5											
Tetrachloroethene	0.5	1500	3300	2.7											
Trichloroethene	0.5	970	1100	14											
Vinyl Chloride	0.2	53	220	1.7											
Total Solids															
Moisture															
Percent Solids															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.11 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	0.0012 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.33 U	0.003 U	0.0036 U	0.0032 U	0.0034 U	0.0031 U	0.0038 U	0.0028 U	0.0034 U	0.0035 U
1,1-Dichloroethane	11	1000	1200	17	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.22 U	0.002 U	0.0024 U	0.0022 U	0.0023 U	0.0021 U	0.0025 U	0.0019 U	0.0022 U	0.0024 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.22 U	0.002 U	0.0024 U	0.0022 U	0.0023 U	0.0021 U	0.0025 U	0.0019 U	0.0022 U	0.0024 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.11 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	0.0012 U
1,4-Dioxane	2.4	210	240	160	1.1 U	110 U	1 U	1.2 U	1.1 U	1.1 U	1 U	1.3 U	0.94 U	1.1 U	1.2 U
2-Butanone	580	10000	10000	190000	0.0055 U	0.56 U	0.013	0.017	0.018	0.015	0.018	0.023	0.0047 U	0.0056 U	0.0059 U
2-Hexanone					0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Acetone	1000	10000	10000	610000	0.15	0.56 U	0.11	0.12	0.12	0.13	0.13	0.2	0.025	0.035	0.053
Acrylonitrile	0.27	24	28	1.2	0.055 U	5.6 U	0.051 U	0.06 U	0.054 U	0.057 U	0.052 U	0.064 U	0.047 U	0.056 U	0.059 U
Benzene	0.5	210	240	5.6	0.0011 U	0.11 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	0.0012 U
Bromochloromethane	9	10000	10000		0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.11 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	0.0012 U
Bromoform	10	1500	1700	220	0.0044 U	0.45 U	0.0041 U	0.0048 U	0.0043 U	0.0046 U	0.0041 U	0.0051 U	0.0037 U	0.0045 U	0.0047 U
Bromomethane	1	270	300	35	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Carbon Disulfide	410	10000	10000	3000	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.22 U	0.002 U	0.0024 U	0.0022 U	0.0023 U	0.0021 U	0.0025 U	0.0019 U	0.0022 U	0.0024 U
Chlorobenzene	10	10000	10000	1500	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Chlorodibromomethane	10	61	70	3.4	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Chloroethane	90	10000	10000	62000	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Chloroform	10	17	19	1.5	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	SS-9 1 7/30/2004	SS-10 1 7/30/2004	WPL-SB-001 0.5 - 2 2/10/2004	WPL-SB-001 3 - 5 2/10/2004	WPL-SB-002 0.5 - 2 2/10/2004	WPL-SB-002 3 - 5 2/10/2004	*WPL-SB-003 0.5 - 2 2/10/2004	WPL-SB-003 3 - 5 2/10/2004	*WPL-SB-004 0.5 - 2 2/11/2004	WPL-SB-004 8 - 10 2/11/2004	*WPL-SB-005 0.5 - 2 2/11/2004
Chloromethane	0.3	920	1000	510	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0034 J	0.2 J	0.0021 J	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Ethylbenzene	70	10000	10000	29	0.0044 U	0.45 U	0.0041 U	0.0048 U	0.0043 U	0.0046 U	0.0041 U	0.0051 U	0.0037 U	0.0045 U	0.0047 U
Methyl tert-butyl ether	2	3200	3700	190	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Methylene chloride	0.5	3500	4000	54	0.0033 U	0.33 U	0.003 U	0.0036 U	0.0032 U	0.0034 U	0.0031 U	0.0038 U	0.0028 U	0.0034 U	0.0035 U
Styrene	24	10000	10000	38000	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Tetrachloroethene	0.5	1500	3300	2.7	0.012	0.061 J	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0013 U	0.0018	0.0012	0.0006 J
Toluene	100	10000	10000	46000	0.0036 J	0.56 U	0.0011 J	0.0017 J	0.0014 J	0.0013 J	0.0013 J	0.0017 J	0.0047 U	0.0014 J	0.0014 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Trichloroethene	0.5	970	1100	14	0.047	1.8	0.0013	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	0.0012 U
Vinyl Chloride	0.2	53	220	1.7	0.0055 U	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U
Xylenes (Total)	1000	10000	10000	2600	0.002 J	0.56 U	0.0051 U	0.006 U	0.0054 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0056 U	0.0059 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-005 3 - 5 2/11/2004	*WPL-SB-006 0.5 - 2 2/11/2004	WPL-SB-006 3 - 5 2/11/2004	WPL-SB-008 0.5 - 2 2/11/2004	WPL-SB-008 3 - 5 2/11/2004	WPL-SB-009 0.5 - 2 2/11/2004	WPL-SB-009 4 - 6 2/11/2004	WPL-SB-010 0.5 - 2 2/11/2004	WPL-SB-010 3 - 5 2/11/2004	WPL-SB-010 6 - 8 2/11/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5.1	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.021 U	0.02 U	0.06	0.021 U	0.09	0.02 B	0.29	0.05	0.021 U
Metal														
Antimony	27	1100	190000	410	0.74 U	0.72 U	0.71 U	0.91 B	0.72 U	0.44 B	0.48 U	0.75 B	0.45 U	0.49 U
Arsenic	150	53	190000	1.6	5.6	5.4	4.9	7.5	6.3	6.1	5.4	7	5.2	6.2
Beryllium	320	5600	190000	2000	0.64	0.72	0.7	0.54	0.62	0.54	0.61	0.58	0.3	0.73
Cadmium	38	210	190000	800	0.051 U	0.049 U	0.049 U	0.65	0.049 U	0.73	0.049 U	0.2 B	0.3 B	0.05 U
Chromium				1400	18.9	15.7	16.3	49	20.8	24.1	16.3	48.1	20.5	18.9
Copper	36000	100000	190000	41000	16.7	11.5	15.2	26.7	16.5	79.2	15	55.4	20.8	15.1
Lead	450	1000	190000	800	11.6	16.5	11.1	36	12.2	51.7	13.3	38.9	23.3	14.3
Nickel	650	56000	190000	20000	12	9.1	10.9	14.3	11.8	18.8	10.9	17.5	8.5	11.7
Selenium	26	14000	190000	5100	0.54 U	0.52 U	0.52 U	0.51 U	0.52 U	0.45 U	0.48 U	0.48 U	0.45 U	0.49 U
Silver	84	14000	190000	5100	0.18 U	0.17 U	0.17 U	0.21 B	0.17 U	0.38 B	0.086 U	1 B	0.081 U	0.088 U
Thallium	14	200	190000	66	0.6 U	0.58 U	0.58 U	0.57 U	0.58 U	0.51 U	0.54 U	0.54 U	0.51 U	0.55 U
Zinc	12000	190000	190000	310000	38.7	37.3	35.9	89.6	43.2	215	38.8	92.8	72.3	38.5
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.085 U	0.083 U	0.082 U	0.081 U	0.083 U	0.077 U	0.082 U	0.082 U	0.078 U	0.084 U
Arochlor-1221	2.5	160	10000	0.62	0.085 U	0.083 U	0.082 U	0.081 U	0.083 U	0.077 U	0.082 U	0.082 U	0.078 U	0.084 U
Arochlor-1232	2	160	10000	0.62	0.085 U	0.083 U	0.082 U	0.081 U	0.083 U	0.077 U	0.082 U	0.082 U	0.078 U	0.084 U
Arochlor-1242	62	160	10000	0.74	0.085 U	0.083 U	0.082 U	0.081 U	0.083 U	0.077 U	0.082 U	0.082 U	0.078 U	0.084 U
Arochlor-1248	67	44	10000	0.74	0.085 U	0.083 U	0.082 U	0.081 U	0.083 U	0.077 U	0.082 U	0.082 U	0.078 U	0.084 U
Arochlor-1254	280	44	10000	0.74	0.085 U	0.083 U	0.082 U	0.31	0.083 U	0.077 U	0.082 U	0.082 U	0.078 U	0.084 U
Arochlor-1260	1900	130	190000	0.74	0.085 U	0.083 U	0.082 U	0.35	0.083 U	0.28	0.082 U	0.63	0.49	0.084 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.085 U	0.083 U	0.082 U	0.66	0.083 U	0.28	0.082 U	0.63	0.49	0.084 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.041 U	0.041 U	0.04 U	0.041 U	0.038 U	0.041 U	0.041 U	0.039 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.082 U	0.082 U	0.08 U	0.082 U	0.076 U	0.082 U	0.082 U	0.078 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.082 U	0.082 U	0.08 U	0.082 U	0.076 U	0.082 U	0.082 U	0.078 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.41 U	0.41 U	0.046 J	0.41 U	0.17 J	0.41 U	0.12 J	0.12 J	0.057 J
2-Methylphenol	510	10000	10000	31000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	0.82 U	0.82 U	0.8 U	0.82 U	0.76 U	0.82 U	0.82 U	0.78 U	0.84 U
2-Nitrophenol	82	22000	190000		0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	0.82 U	0.82 U	0.8 U	0.82 U	0.76 U	0.82 U	0.82 U	0.78 U	0.84 U
3-Nitroaniline	0.58	160	190000		0.85 U	0.82 U	0.82 U	0.8 U	0.82 U	0.76 U	0.82 U	0.82 U	0.78 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-005 3 - 5 2/11/2004	*WPL-SB-006 0.5 - 2 2/11/2004	WPL-SB-006 3 - 5 2/11/2004	WPL-SB-008 0.5 - 2 2/11/2004	WPL-SB-008 3 - 5 2/11/2004	WPL-SB-009 0.5 - 2 2/11/2004	WPL-SB-009 4 - 6 2/11/2004	WPL-SB-010 0.5 - 2 2/11/2004	WPL-SB-010 3 - 5 2/11/2004	WPL-SB-010 6 - 8 2/11/2004
4-Bromophenyl phenyl ether					0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
4-Chlorodiphenyl Ether					0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	0.82 U	0.82 U	0.8 U	0.82 U	0.76 U	0.82 U	0.82 U	0.78 U	0.84 U
4-Nitrophenol	6	22000	190000		1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.41 U	0.41 U	0.033 J	0.41 U	0.5	0.41 U	0.17 J	0.18 J	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.07 J	0.41 U	0.023 J	0.02 J	0.42 U
Anthracene	350	190000	190000	170000	0.42 U	0.41 U	0.41 U	0.071 J	0.41 U	1	0.028 J	0.37 J	0.32 J	0.009 J
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.041 U	0.041 U	0.21	0.041 U	3	0.074	1.1	0.98	0.029 J
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.041 U	0.041 U	0.24	0.041 U	3	0.061	1.1	0.96	0.032 J
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.041 U	0.041 U	0.19	0.041 U	2.8	0.051	0.97	0.87	0.032 J
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.41 U	0.41 U	0.23 J	0.41 U	1.8	0.045 J	0.62	0.59	0.02 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.041 U	0.041 U	0.21	0.041 U	2.7	0.074	1.2	1	0.036 J
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.041 U	0.041 U	0.04 U	0.041 U	0.038 U	0.041 U	0.041 U	0.039 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.16 JB	0.13 J	0.14 J	0.089 J	0.18 J
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Carbazole	83	4000	190000		0.42 U	0.41 U	0.41 U	0.038 J	0.41 U	0.43	0.41 U	0.24 J	0.21 J	0.42 U
Chrysene	230	11000	190000	210	0.42 U	0.41 U	0.41 U	0.26 J	0.41 U	3	0.074 J	1.2	1.1	0.058 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.041 U	0.041 U	0.066	0.041 U	0.66	0.041 U	0.21	0.14	0.042 U
Dibenzofuran					0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.3 J	0.41 U	0.1 J	0.1 J	0.42 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Dimethylphthalate					0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.41 U	0.41 U	0.38 J	0.41 U	3.8	0.16 J	2.5	2	0.05 J
Fluorene	3800	110000	190000	22000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.54	0.41 U	0.14 J	0.14 J	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.041 U	0.041 U	0.04 U	0.041 U	0.038 U	0.041 U	0.041 U	0.039 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.082 U	0.082 U	0.08 U	0.082 U	0.076 U	0.082 U	0.082 U	0.078 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.041 U	0.041 U	0.04 U	0.041 U	0.038 U	0.041 U	0.041 U	0.039 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.041 U	0.041 U	0.21	0.041 U	1.7	0.039 J	0.58	0.57	0.02 J
Isophorone	10	10000	10000	1800	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Naphthalene	25	56000	190000	20	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.24 J	0.41 U	0.1 J	0.12 J	0.033 J
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.041 U	0.041 U	0.04 U	0.041 U	0.038 U	0.041 U	0.041 U	0.039 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.041 U	0.041 U	0.04 U	0.041 U	0.038 U	0.041 U	0.041 U	0.039 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		0.42 U	0.41 U	0.41 U	0.32 J	0.41 U	3.1	0.1 J	1.8	1.5	0.074 J
Phenol	400	190000	190000	180000	0.42 U	0.41 U	0.41 U	0.4 U	0.41 U	0.38 U	0.41 U	0.41 U	0.39 U	0.42 U
Pyrene	2200	84000	190000	17000	0.42 U	0.41 U	0.41 U	0.47	0.41 U	4	0.12 J	2.2	1.8	0.052 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-005 3 - 5 2/11/2004	*WPL-SB-006 0.5 - 2 2/11/2004	WPL-SB-006 3 - 5 2/11/2004	WPL-SB-008 0.5 - 2 2/11/2004	WPL-SB-008 3 - 5 2/11/2004	WPL-SB-009 0.5 - 2 2/11/2004	WPL-SB-009 4 - 6 2/11/2004	WPL-SB-010 0.5 - 2 2/11/2004	WPL-SB-010 3 - 5 2/11/2004	WPL-SB-010 6 - 8 2/11/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0019 J	0.0061 U	0.058 J	0.16 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.11 U	0.001 U	0.001 U	0.0012 U	0.091 U	0.11 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0038 U	0.0038 U	0.0035 U	0.0032 U	0.33 U	0.0031 U	0.0032 U	0.0036 U	0.27 U	0.34 U
1,1-Dichloroethane	11	1000	1200	17	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.005 J	0.0082	0.46 U	0.56 U
1,1-Dichloroethene	0.7	33	38	1100	0.0025 U	0.0025 U	0.0023 U	0.0021 U	0.22 U	0.0021 U	0.0021 U	0.0024 U	0.18 U	0.22 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0025 U	0.0025 U	0.0023 U	0.0021 U	0.22 U	0.0021 U	0.0021 U	0.0024 U	0.18 U	0.22 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.11 U	0.001 U	0.001 U	0.0012 U	0.091 U	0.11 U
1,4-Dioxane	2.4	210	240	160	1.2 U	1.2 U	1.2 U	1.1 U	110 U	1 U	1 U	1.2 U	91 U	110 U
2-Butanone	580	10000	10000	190000	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
2-Hexanone					0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Acetone	1000	10000	10000	610000	0.046	0.072	0.057	0.071	0.54 U	0.092	0.054	0.098	0.46 U	0.56 U
Acrylonitrile	0.27	24	28	1.2	0.063 U	0.063 U	0.058 U	0.053 U	5.4 U	0.052 U	0.053 U	0.061 U	4.6 U	5.6 U
Benzene	0.5	210	240	5.6	0.0012 U	0.0012 U	0.0012 U	0.0006 J	0.11 U	0.0006 J	0.001 U	0.0012 U	0.091 U	0.11 U
Bromochloromethane	9	10000	10000		0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Bromodichloromethane	10	45	51	1.4	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.11 U	0.001 U	0.001 U	0.0012 U	0.091 U	0.11 U
Bromoform	10	1500	1700	220	0.005 U	0.005 U	0.0046 U	0.0042 U	0.43 U	0.0042 U	0.0042 U	0.0049 U	0.36 U	0.45 U
Bromomethane	1	270	300	35	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Carbon Disulfide	410	10000	10000	3000	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0015 J	0.0053 U	0.0022 J	0.46 U	0.56 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0025 U	0.0025 U	0.0023 U	0.0021 U	0.22 U	0.0021 U	0.0021 U	0.0024 U	0.18 U	0.22 U
Chlorobenzene	10	10000	10000	1500	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Chlorodibromomethane	10	61	70	3.4	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Chloroethane	90	10000	10000	62000	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Chloroform	10	17	19	1.5	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-005 3 - 5 2/11/2004	*WPL-SB-006 0.5 - 2 2/11/2004	WPL-SB-006 3 - 5 2/11/2004	WPL-SB-008 0.5 - 2 2/11/2004	WPL-SB-008 3 - 5 2/11/2004	WPL-SB-009 0.5 - 2 2/11/2004	WPL-SB-009 4 - 6 2/11/2004	WPL-SB-010 0.5 - 2 2/11/2004	WPL-SB-010 3 - 5 2/11/2004	WPL-SB-010 6 - 8 2/11/2004
Chloromethane	0.3	920	1000	510	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0063 U	0.0064	0.0058 U	0.0024 J	0.066 J	0.016	0.013	0.019	0.27 J	0.084 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Ethylbenzene	70	10000	10000	29	0.005 U	0.005 U	0.0046 U	0.0042 U	0.43 U	0.0042 U	0.0042 U	0.0049 U	0.36 U	0.45 U
Methyl tert-butyl ether	2	3200	3700	190	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Methylene chloride	0.5	3500	4000	54	0.0038 U	0.0038 U	0.0035 U	0.0032 U	0.33 U	0.0031 U	0.0032 U	0.0036 U	0.27 U	0.34 U
Styrene	24	10000	10000	38000	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0012 U	0.0012 U	0.0012 U	0.0011 U	3.6	0.001 U	0.022	0.0012 U	4.2	13
Toluene	100	10000	10000	46000	0.0017 J	0.0013 J	0.0013 J	0.0011 J	0.54 U	0.0052 U	0.001 J	0.0061 U	0.46 U	0.56 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0063 U	0.0008 J	0.0058 U	0.0005 J	0.54 U	0.0019 J	0.0053 U	0.0033 J	0.064 J	0.56 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U
Trichloroethene	0.5	970	1100	14	0.0012 U	0.005	0.0012 U	0.0056	0.44	0.0083	0.0032	0.0076	2.2	4.9
Vinyl Chloride	0.2	53	220	1.7	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0078	0.0053 U	0.0061 U	0.46 U	0.56 U
Xylenes (Total)	1000	10000	10000	2600	0.0063 U	0.0063 U	0.0058 U	0.0053 U	0.54 U	0.0052 U	0.0053 U	0.0061 U	0.46 U	0.56 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-012 0.5 - 2 2/11/2004	WPL-SB-012 4 - 6 2/11/2004	WPL-SB-012 8 - 10 2/11/2004	*WPL-SB-014 0 - 2 2/17/2004	WPL-SB-014 4 - 6 2/17/2004	WPL-SB-015 0 - 2 2/12/2004	WPL-SB-015 9 - 11 2/12/2004	WPL-SB-015 12 - 14 2/12/2004	WPL-SB-016 0.5 - 2 2/13/2004	WPL-SB-017 0.5 - 2 2/13/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	12.9	7	2 U	2.8
Mercury														
Mercury	10	840	190000	24	0.09	0.1	0.021 U	0.02 U	0.03 B	0.18	0.019 U	0.019 U	0.019 U	0.11
Metal														
Antimony	27	1100	190000	410	2.7 B	11.8	0.5 U	0.47 U	0.73 B	0.51 U	0.43 U	0.44 U	0.45 U	1.4 U
Arsenic	150	53	190000	1.6	4.6 B	7.2 B	5.6	4.4	6.8	9.2	5.8	4.2	6.4	12.3
Beryllium	320	5600	190000	2000	0.33 B	0.45 B	0.7	0.5	0.76	0.88	0.64	0.42	0.84	0.38
Cadmium	38	210	190000	800	1.2 B	2.9	0.051 U	0.17 B	0.052 U	0.68	0.89	0.66	0.33 B	3.4
Chromium				1400	53.1	45.9	18.3	17.5	15.9	56.9	165	44.3	24	98.9
Copper	36000	100000	190000	41000	327	354	13.4	9.4	19	49.8	19.8	12.2	21	181
Lead	450	1000	190000	800	57.4	378	13.1	21.6	19.3	179	44	11.8	27.7	200
Nickel	650	56000	190000	20000	18.6 B	37.9	10.9	6.3	12.1	44.4	15	15.2	18.2	49.6
Selenium	26	14000	190000	5100	2.3 U	1.4 U	0.5 U	0.47 U	0.51 U	0.51 U	1.1	0.67	0.45 U	1.4 U
Silver	84	14000	190000	5100	0.43 B	0.55 B	0.089 U	0.084 U	0.091 U	0.31 B	0.078 U	0.079 U	0.082 U	1.2
Thallium	14	200	190000	66	2.6 U	1.6 U	0.56 U	0.53 U	0.57 U	0.58 U	0.49 U	0.49 U	0.51 U	1.6 U
Zinc	12000	190000	190000	310000	2490	1560	42.1	25.5	50.8	105	184	72.6	90.4	728
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.16 U	0.082 U	0.085 U	0.08 U	0.087 U	0.088 U	0.074 U	0.075 U	0.078 U	0.4 U
Arochlor-1221	2.5	160	10000	0.62	0.16 U	0.082 U	0.085 U	0.08 U	0.087 U	0.088 U	0.074 U	0.075 U	0.078 U	0.4 U
Arochlor-1232	2	160	10000	0.62	0.16 U	0.082 U	0.085 U	0.08 U	0.087 U	0.088 U	0.074 U	0.075 U	0.078 U	0.4 U
Arochlor-1242	62	160	10000	0.74	0.16 U	0.082 U	0.085 U	0.08 U	0.087 U	0.088 U	0.074 U	0.075 U	0.078 U	0.4 U
Arochlor-1248	67	44	10000	0.74	0.16 U	0.082 U	0.085 U	0.08 U	0.087 U	0.088 U	0.074 U	0.075 U	0.078 U	0.4 U
Arochlor-1254	280	44	10000	0.74	0.16 U	1.5	0.085 U	0.08 U	0.25	0.088 U	0.074 U	0.036 J	0.079	0.4 U
Arochlor-1260	1900	130	190000	0.74	1.4	1	0.085 U	0.08 U	0.087 U	0.61	0.074 U	0.075 U	0.081	6.3
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	1.4	2.5	0.085 U	0.08 U	0.25	0.61	0.074 U	0.036 J	0.16	6.3
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.039 U	0.041 U	0.042 U	0.04 U	0.044 U	0.044 U	0.037 U	0.037 U	0.039 U	0.039 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.5 U	1.6 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.078 U	0.081 U	0.085 U	0.08 U	0.087 U	0.087 U	0.074 U	0.075 U	0.078 U	0.079 U
2,6-Dinitrotoluene	10	2800	190000	620	0.078 U	0.081 U	0.085 U	0.08 U	0.087 U	0.087 U	0.074 U	0.075 U	0.078 U	0.079 U
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2-Methylnaphthalene	8000	10000	10000	4100	0.029 J	0.33 J	0.42 U	0.4 U	0.033 J	0.025 J	0.37 U	0.37 U	0.39 U	0.04 J
2-Methylphenol	510	10000	10000	31000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
2-Nitroaniline	0.58	160	190000	1800	0.78 U	0.81 U	0.85 U	0.8 U	0.87 U	0.87 U	0.74 U	0.75 U	0.78 U	0.79 U
2-Nitrophenol	82	22000	190000		0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.78 U	0.81 U	0.85 U	0.8 U	0.87 U	0.87 U	0.74 U	0.75 U	0.78 U	0.79 U
3-Nitroaniline	0.58	160	190000		0.78 U	0.81 U	0.85 U	0.8 U	0.87 U	0.87 U	0.74 U	0.75 U	0.78 U	0.79 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.5 U	1.6 U	1.6 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-012 0.5 - 2 2/11/2004	WPL-SB-012 4 - 6 2/11/2004	WPL-SB-012 8 - 10 2/11/2004	*WPL-SB-014 0 - 2 2/17/2004	WPL-SB-014 4 - 6 2/17/2004	WPL-SB-015 0 - 2 2/12/2004	WPL-SB-015 9 - 11 2/12/2004	WPL-SB-015 12 - 14 2/12/2004	WPL-SB-016 0.5 - 2 2/13/2004	WPL-SB-017 0.5 - 2 2/13/2004
4-Bromophenyl phenyl ether					0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
4-Chlorodiphenyl Ether					0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
4-METHYLPHENOL	51	14000	190000	3100	0.39 U	0.071 J	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
4-Nitroaniline	0.58	160	190000	86	0.78 U	0.81 U	0.85 U	0.8 U	0.87 U	0.87 U	0.74 U	0.75 U	0.78 U	0.79 U
4-Nitrophenol	6	22000	190000		1.6 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.5 U	1.6 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.034 J	0.82	0.42 U	0.4 U	0.44 U	0.036 J	0.37 U	0.37 U	0.074 J	0.16 J
Acenaphthylene	6900	170000	190000	33000	0.0088 J	0.056 J	0.42 U	0.023 J	0.44 U	0.26 J	0.37 U	0.37 U	0.076 J	0.12 J
Anthracene	350	190000	190000	170000	0.061 J	1.6	0.051 J	0.018 J	0.44 U	0.18 J	0.37 U	0.37 U	0.13 J	0.31 J
Benzo (A) Anthracene	320	110	190000	2.1	0.23	3.8	0.32	0.074	0.036 J	1.3	0.037 U	0.037 U	0.7	0.77
Benzo (a) Pyrene	46	11	190000	0.21	0.25	4.6	0.26	0.077	0.024 J	1.4	0.037 U	0.037 U	0.66	0.72
Benzo (b) Fluoranthene	170	110	190000	2.1	0.24	5.6	0.21	0.053	0.03 J	1.2	0.037 U	0.037 U	0.53	0.73
Benzo (g,h,i) Perylene	180	170000	190000		0.2 J	1.6	0.19 J	0.049 J	0.44 U	0.92	0.37 U	0.37 U	0.34 J	0.29 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.27	5.2	0.28	0.079	0.038 J	1.4	0.037 U	0.037 U	0.75	0.88
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.039 U	0.041 U	0.042 U	0.04 U	0.044 U	0.044 U	0.037 U	0.037 U	0.039 U	0.039 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.39 U	0.18 J	0.42 U	0.11 J	0.09 J	0.099 J	0.37 U	0.37 U	0.39 U	0.09 J
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Carbazole	83	4000	190000		0.032 J	0.86	0.42 U	0.4 U	0.44 U	0.041 J	0.37 U	0.37 U	0.039 J	0.044 J
Chrysene	230	11000	190000	210	0.28 J	4.6	0.32 J	0.11 J	0.066 J	1.2	0.37 U	0.37 U	0.65	0.89
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.067	0.41	0.064	0.04 U	0.044 U	0.3	0.037 U	0.037 U	0.12	0.095
Dibenzofuran					0.023 J	0.48	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.034 J	0.078 J
Diethylphthalate	500	10000	10000	490000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Dimethylphthalate					0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Fluoranthene	3200	110000	190000	22000	0.5	7.7	0.77	0.11 J	0.058 J	1.8	0.0074 J	0.0089 J	1.1	1.5
Fluorene	3800	110000	190000	22000	0.032 J	0.9	0.42 U	0.4 U	0.44 U	0.044 J	0.37 U	0.37 U	0.087 J	0.22 J
Hexachlorobenzene	0.96	50	190000	1.1	0.039 U	0.041 U	0.042 U	0.04 U	0.044 U	0.044 U	0.037 U	0.037 U	0.039 U	0.039 U
Hexachlorobutadiene	1.2	560	10000	22	0.078 U	0.081 U	0.085 U	0.08 U	0.087 U	0.087 U	0.074 U	0.075 U	0.078 U	0.079 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Hexachloroethane	0.56	2800	190000	120	0.039 U	0.041 U	0.042 U	0.04 U	0.044 U	0.044 U	0.037 U	0.037 U	0.039 U	0.039 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.17	1.6	0.17	0.043	0.044 U	0.94	0.037 U	0.037 U	0.34	0.29
Isophorone	10	10000	10000	1800	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Naphthalene	25	56000	190000	20	0.036 J	0.65	0.42 U	0.4 U	0.019 J	0.034 J	0.37 U	0.37 U	0.016 J	0.088 J
Nitrobenzene	5.1	1400	10000	22	0.039 U	0.041 U	0.042 U	0.04 U	0.044 U	0.044 U	0.037 U	0.037 U	0.039 U	0.039 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.039 U	0.041 U	0.042 U	0.04 U	0.044 U	0.044 U	0.037 U	0.037 U	0.039 U	0.039 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Pentachlorophenol	5	660	190000	9	1.6 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.5 U	1.6 U	1.6 U
Phenanthrene	10000	190000	190000		0.28 J	6.5	0.18 J	0.064 J	0.062 J	0.4 J	0.018 J	0.37 U	0.33 J	1.3
Phenol	400	190000	190000	180000	0.39 U	0.41 U	0.42 U	0.4 U	0.44 U	0.44 U	0.37 U	0.37 U	0.39 U	0.39 U
Pyrene	2200	84000	190000	17000	0.47	8.1	0.62	0.17 J	0.055 J	1.7	0.37 U	0.0093 J	1	1.6
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-012 0.5 - 2 2/11/2004	WPL-SB-012 4 - 6 2/11/2004	WPL-SB-012 8 - 10 2/11/2004	*WPL-SB-014 0 - 2 2/17/2004	WPL-SB-014 4 - 6 2/17/2004	WPL-SB-015 0 - 2 2/12/2004	WPL-SB-015 9 - 11 2/12/2004	WPL-SB-015 12 - 14 2/12/2004	WPL-SB-016 0.5 - 2 2/13/2004	WPL-SB-017 0.5 - 2 2/13/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.0031 U	0.0033 U	0.0029 U	0.0035 U	0.0034 U	0.0032 U	0.003 U	0.0029 U	0.003 U
1,1-Dichloroethane	11	1000	1200	17	0.0055 U	0.0052 U	0.0008 J	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.0021 U	0.0022 U	0.0019 U	0.0023 U	0.0023 U	0.0021 U	0.002 U	0.0019 U	0.002 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.0021 U	0.0022 U	0.0019 U	0.0023 U	0.0023 U	0.0021 U	0.002 U	0.0019 U	0.002 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1 U	1.1 U	0.96 U	1.2 U	1.1 U	1.1 U	1 U	0.97 U	0.99 U
2-Butanone	580	10000	10000	190000	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0068	0.005 U	0.0048 U	0.005 U
2-Hexanone					0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Acetone	1000	10000	10000	610000	0.042	0.052	0.043	0.0048 U	0.0058 U	0.047	0.068	0.048	0.043	0.005 U
Acrylonitrile	0.27	24	28	1.2	0.055 U	0.052 U	0.055 U	0.048 U	0.058 U	0.057 U	0.054 U	0.05 U	0.048 U	0.05 U
Benzene	0.5	210	240	5.6	0.0013	0.001 U	0.0011 U	0.001 U	0.0004 J	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U
Bromochloromethane	9	10000	10000		0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U
Bromoform	10	1500	1700	220	0.0044 U	0.0042 U	0.0044 U	0.0039 U	0.0046 U	0.0046 U	0.0043 U	0.004 U	0.0039 U	0.004 U
Bromomethane	1	270	300	35	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Carbon Disulfide	410	10000	10000	3000	0.0014 J	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0012 J	0.005 U	0.0048 U	0.005 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.0021 U	0.0022 U	0.0019 U	0.0023 U	0.0007 J	0.0021 U	0.002 U	0.0019 U	0.002 U
Chlorobenzene	10	10000	10000	1500	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0044 J	0.0023 J	0.0048 U	0.005 U
Chlorodibromomethane	10	61	70	3.4	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Chloroethane	90	10000	10000	62000	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Chloroform	10	17	19	1.5	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0006 J	0.0054 U	0.005 U	0.0048 U	0.005 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-012 0.5 - 2 2/11/2004	WPL-SB-012 4 - 6 2/11/2004	WPL-SB-012 8 - 10 2/11/2004	*WPL-SB-014 0 - 2 2/17/2004	WPL-SB-014 4 - 6 2/17/2004	WPL-SB-015 0 - 2 2/12/2004	WPL-SB-015 9 - 11 2/12/2004	WPL-SB-015 12 - 14 2/12/2004	WPL-SB-016 0.5 - 2 2/13/2004	WPL-SB-017 0.5 - 2 2/13/2004
Chloromethane	0.3	920	1000	510	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0068	0.0026 J	0.022	0.0048 U	0.0058 U	0.0057 U	0.0004 J	0.0005 J	0.0048 U	0.0006 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Ethylbenzene	70	10000	10000	29	0.0044 U	0.0042 U	0.0044 U	0.0039 U	0.0046 U	0.0046 U	0.0043 U	0.004 U	0.0039 U	0.004 U
Methyl tert-butyl ether	2	3200	3700	190	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Methylene chloride	0.5	3500	4000	54	0.0033 U	0.0031 U	0.0033 U	0.0008 JB	0.0005 JB	0.0034 U	0.0032 U	0.003 U	0.0029 U	0.003 U
Styrene	24	10000	10000	38000	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.001 U	0.0016	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U
Toluene	100	10000	10000	46000	0.0015 J	0.0011 J	0.0012 J	0.0014 JB	0.0016 JB	0.0057 U	0.0032 J	0.0016 J	0.0048 U	0.005 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0005 J	0.0005 J	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Trichloroethene	0.5	970	1100	14	0.0014	0.0031	0.0068	0.0007 J	0.0009 J	0.0005 J	0.0011 U	0.001 U	0.001 U	0.0006 J
Vinyl Chloride	0.2	53	220	1.7	0.038	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U
Xylenes (Total)	1000	10000	10000	2600	0.0055 U	0.0052 U	0.0055 U	0.0048 U	0.0058 U	0.0057 U	0.0054 U	0.005 U	0.0048 U	0.005 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-017 2 - 4 2/13/2004	WPL-SB-017 Dup 2 - 4 2/13/2004	WPL-SB-017 11 - 13 2/13/2004	WPL-SB-018 0.5 - 2 2/13/2004	WPL-SB-018 5 - 7 2/13/2004	WPL-SB-018 7 - 9 2/13/2004	WPL-SB-019 0.5 - 2 2/13/2004	WPL-SB-019 10 - 12 2/13/2004	WPL-SB-019 17 - 19 2/13/2004	WPL-SB-020 0 - 2 2/17/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	5.6	3.3	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.021 U	0.018 U	0.08	0.04 B	0.022 U	0.03 B	0.018 U	0.019 U	0.02 U
Metal														
Antimony	27	1100	190000	410	0.74 U	0.49 U	0.42 U	1.6	0.5 U	0.51 U	0.45 U	0.41 U	0.45 U	0.47 U
Arsenic	150	53	190000	1.6	6.3	6.6	4.5	5.7	5.1	5.2	2.9	5.2	2.8 B	6.6
Beryllium	320	5600	190000	2000	0.68	0.6	0.37	0.6	0.54	0.53	0.52	0.49	0.49	0.77
Cadmium	38	210	190000	800	0.051 U	0.051 U	0.043 U	3.1	0.051 U	0.052 U	0.13 B	0.042 U	0.22 B	0.22 B
Chromium				1400	25.6	24.5	15.1	170	21	14.9	11.2	22	5.4	17.8
Copper	36000	100000	190000	41000	21.5	24	9	193	20	14.8	8.1	9.6	11.9	16.2
Lead	450	1000	190000	800	11.7	11.2	9.1	194	11.2	9.2	14.7	12.6	9.3	17.4
Nickel	650	56000	190000	20000	15.3	14.1	11.4	62.2	13.2	10.6	7.3	9.3	10.6	9.6
Selenium	26	14000	190000	5100	0.54 U	0.63	0.55	0.78	0.73	0.51 U	0.45 U	0.41 U	0.45 U	0.78
Silver	84	14000	190000	5100	0.18 U	0.089 U	0.075 U	6.6	0.09 U	0.091 U	0.081 U	0.074 U	0.081 U	0.084 U
Thallium	14	200	190000	66	0.6 U	0.56 U	0.47 U	0.57 U	0.56 U	0.57 U	0.51 U	0.46 U	0.51 U	0.53 U
Zinc	12000	190000	190000	310000	48.3	44.8	23.6	481	41.9	32.1	33.6	24.5	33.1	39.4
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.085 U	0.085 U	0.071 U	0.087 U	0.086 U	0.087 U	0.077 U	0.35 U	0.078 U	0.081 U
Arochlor-1221	2.5	160	10000	0.62	0.085 U	0.085 U	0.071 U	0.087 U	0.086 U	0.087 U	0.077 U	0.35 U	0.078 U	0.081 U
Arochlor-1232	2	160	10000	0.62	0.085 U	0.085 U	0.071 U	0.087 U	0.086 U	0.087 U	0.077 U	0.35 U	0.078 U	0.081 U
Arochlor-1242	62	160	10000	0.74	0.085 U	0.085 U	0.071 U	0.087 U	0.086 U	0.087 U	0.077 U	0.35 U	0.078 U	0.081 U
Arochlor-1248	67	44	10000	0.74	0.085 U	0.085 U	0.071 U	0.087 U	0.086 U	0.087 U	0.077 U	0.35 U	0.078 U	0.081 U
Arochlor-1254	280	44	10000	0.74	0.085 U	0.085 U	0.071 U	0.18	0.1	0.037 J	0.077 U	0.35 U	0.078 U	0.02 J
Arochlor-1260	1900	130	190000	0.74	0.085 U	0.085 U	0.071 U	0.087 U	0.086 U	0.087 U	0.077 U	6	0.062 J	0.081 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.085 U	0.085 U	0.071 U	0.18	0.1	0.037 J	0.077 U	6	0.062 J	0.02 J
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.042 U	0.036 U	0.043 U	0.043 U	0.043 U	0.077 U	0.07 U	0.039 U	0.04 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.17 J	0.39 U	0.4 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.2 J	0.39 U	0.4 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.57 J	0.39 U	0.4 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.7 U	1.4 U	1.7 U	1.7 U	1.7 U	3.1 U	2.8 U	1.6 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.085 U	0.071 U	0.086 U	0.085 U	0.086 U	0.15 U	0.14 U	0.078 U	0.08 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.085 U	0.071 U	0.086 U	0.085 U	0.086 U	0.15 U	0.14 U	0.078 U	0.08 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.42 U	0.36 U	0.024 J	3.2	0.025 J	0.052 J	2.7	0.39 U	0.4 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	0.85 U	0.71 U	0.86 U	0.85 U	0.86 U	1.5 U	1.4 U	0.78 U	0.8 U
2-Nitrophenol	82	22000	190000		0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	0.85 U	0.71 U	0.86 U	0.85 U	0.86 U	1.5 U	1.4 U	0.78 U	0.8 U
3-Nitroaniline	0.58	160	190000		0.85 U	0.85 U	0.71 U	0.86 U	0.85 U	0.86 U	1.5 U	1.4 U	0.78 U	0.8 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.7 U	1.4 U	1.7 U	1.7 U	1.7 U	3.1 U	2.8 U	1.6 U	1.6 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-017 2 - 4 2/13/2004	WPL-SB-017 Dup 2 - 4 2/13/2004	WPL-SB-017 11 - 13 2/13/2004	WPL-SB-018 0.5 - 2 2/13/2004	WPL-SB-018 5 - 7 2/13/2004	WPL-SB-018 7 - 9 2/13/2004	WPL-SB-019 0.5 - 2 2/13/2004	WPL-SB-019 10 - 12 2/13/2004	WPL-SB-019 17 - 19 2/13/2004	WPL-SB-020 0 - 2 2/17/2004
4-Bromophenyl phenyl ether					0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
4-Chlorodiphenyl Ether					0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	0.85 U	0.71 U	0.86 U	0.85 U	0.86 U	1.5 U	1.4 U	0.78 U	0.8 U
4-Nitrophenol	6	22000	190000		1.7 U	1.7 U	1.4 U	1.7 U	1.7 U	1.7 U	3.1 U	2.8 U	1.6 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.42 U	0.36 U	0.12 J	0.12 J	0.43 U	0.68 J	0.16 J	0.39 U	0.4 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.42 U	0.36 U	0.038 J	0.43 U	0.43 U	0.96	0.7 U	0.39 U	0.12 J
Anthracene	350	190000	190000	170000	0.42 U	0.42 U	0.36 U	0.081 J	0.078 J	0.43 U	2.8	0.14 J	0.39 U	0.1 J
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.042 U	0.036 U	0.16	0.054	0.043 U	8.7	0.14	0.039 U	0.4
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.042 U	0.036 U	0.13	0.042 J	0.043 U	6	0.08	0.039 U	0.36
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.042 U	0.036 U	0.13	0.053	0.043 U	5.2	0.086	0.039 U	0.5
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.42 U	0.36 U	0.09 J	0.033 J	0.43 U	2.7	0.049 J	0.39 U	0.3 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.042 U	0.036 U	0.14	0.044	0.043 U	5.8	0.092	0.039 U	0.55
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.042 U	0.036 U	0.043 U	0.043 U	0.043 U	0.077 U	0.07 U	0.039 U	0.04 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.12 J	0.42 U	0.076 J	0.1 J	1.2	0.43 U	0.77 U	0.87	0.39 U	0.11 J
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Carbazole	83	4000	190000		0.42 U	0.42 U	0.36 U	0.02 J	0.43 U	0.43 U	0.076 J	0.7 U	0.39 U	0.4 U
Chrysene	230	11000	190000	210	0.42 U	0.42 U	0.36 U	0.16 J	0.082 J	0.43 U	7	0.19 J	0.39 U	0.5
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.042 U	0.036 U	0.022 J	0.043 U	0.043 U	1.2	0.07 U	0.039 U	0.1
Dibenzofuran					0.42 U	0.42 U	0.36 U	0.086 J	0.25 J	0.43 U	0.26 J	0.19 J	0.39 U	0.4 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Dimethylphthalate					0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.2 J	0.39 U	0.4 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.42 U	0.36 U	0.31 J	0.14 J	0.43 U	12	0.4 J	0.39 U	0.52
Fluorene	3800	110000	190000	22000	0.42 U	0.42 U	0.36 U	0.15 J	0.2 J	0.43 U	0.83	0.25 J	0.39 U	0.4 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.042 U	0.036 U	0.043 U	0.043 U	0.043 U	0.077 U	0.07 U	0.039 U	0.04 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.085 U	0.071 U	0.086 U	0.085 U	0.086 U	0.15 U	0.14 U	0.078 U	0.08 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.042 U	0.036 U	0.043 U	0.043 U	0.043 U	0.077 U	0.07 U	0.039 U	0.04 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.042 U	0.036 U	0.076	0.03 J	0.043 U	2.8	0.04 J	0.039 U	0.29
Isophorone	10	10000	10000	1800	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Naphthalene	25	56000	190000	20	0.42 U	0.42 U	0.36 U	0.057 J	0.43 U	0.43 U	0.076 J	0.7 U	0.39 U	0.4 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.042 U	0.036 U	0.043 U	0.043 U	0.043 U	0.077 U	0.07 U	0.039 U	0.04 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.042 U	0.036 U	0.043 U	0.043 U	0.043 U	0.077 U	0.07 U	0.039 U	0.04 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.02 J	0.4 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.7 U	1.4 U	1.7 U	1.7 U	1.7 U	3.1 U	2.8 U	1.6 U	1.6 U
Phenanthrene	10000	190000	190000		0.42 U	0.42 U	0.36 U	0.22 J	0.48	0.43 U	6.5	0.82	0.014 J	0.1 J
Phenol	400	190000	190000	180000	0.42 U	0.42 U	0.36 U	0.43 U	0.43 U	0.43 U	0.77 U	0.7 U	0.39 U	0.4 U
Pyrene	2200	84000	190000	17000	0.42 U	0.42 U	0.36 U	0.32 J	0.15 J	0.43 U	12	0.35 J	0.39 U	0.61
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-017 2 - 4 2/13/2004	WPL-SB-017 Dup 2 - 4 2/13/2004	WPL-SB-017 11 - 13 2/13/2004	WPL-SB-018 0.5 - 2 2/13/2004	WPL-SB-018 5 - 7 2/13/2004	WPL-SB-018 7 - 9 2/13/2004	WPL-SB-019 0.5 - 2 2/13/2004	WPL-SB-019 10 - 12 2/13/2004	WPL-SB-019 17 - 19 2/13/2004	WPL-SB-020 0 - 2 2/17/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.001 U	0.0009 U	0.0011 U	0.11 U	0.0011 U	0.0009 U	0.41 U	0.001 U	0.0009 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	0.0031 U	0.0027 U	0.0032 U	0.33 U	0.0033 U	0.0028 U	1.2 U	0.0029 U	0.0027 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.0021 U	0.0018 U	0.0022 U	0.22 U	0.0022 U	0.0018 U	0.82 U	0.002 U	0.0018 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.0021 U	0.0018 U	0.0022 U	0.22 U	0.0022 U	0.0018 U	0.82 U	0.002 U	0.0018 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.001 U	0.0009 U	0.0011 U	0.11 U	0.0011 U	0.0009 U	0.41 U	0.001 U	0.0009 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1 U	0.9 U	1.1 U	110 U	1.1 U	0.92 U	410 U	0.98 U	0.91 U
2-Butanone	580	10000	10000	190000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
2-Hexanone					0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Acetone	1000	10000	10000	610000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.051	2.1 U	0.044	0.0046 U
Acrylonitrile	0.27	24	28	1.2	0.054 U	0.052 U	0.045 U	0.054 U	5.5 U	0.056 U	0.046 U	21 U	0.049 U	0.046 U
Benzene	0.5	210	240	5.6	0.0007 J	0.0007 J	0.0009 U	0.0011 U	0.11 U	0.0011 U	0.0009 U	0.41 U	0.004	0.0009 U
Bromochloromethane	9	10000	10000		0.0004 J	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.001 U	0.0009 U	0.0011 U	0.11 U	0.0011 U	0.0009 U	0.41 U	0.001 U	0.0009 U
Bromoform	10	1500	1700	220	0.0043 U	0.0042 U	0.0036 U	0.0043 U	0.44 U	0.0044 U	0.0037 U	1.6 U	0.0039 U	0.0036 U
Bromomethane	1	270	300	35	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.0021 U	0.0018 U	0.0022 U	0.22 U	0.0022 U	0.0018 U	0.82 U	0.002 U	0.0018 U
Chlorobenzene	10	10000	10000	1500	0.018	0.018	0.0014 J	0.0054 U	0.55 U	0.0056 U	0.0046 U	57	0.07	0.0046 U
Chlorodibromomethane	10	61	70	3.4	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Chloroethane	90	10000	10000	62000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0031 J	0.0046 U
Chloroform	10	17	19	1.5	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-017 2 - 4 2/13/2004	WPL-SB-017 Dup 2 - 4 2/13/2004	WPL-SB-017 11 - 13 2/13/2004	WPL-SB-018 0.5 - 2 2/13/2004	WPL-SB-018 5 - 7 2/13/2004	WPL-SB-018 7 - 9 2/13/2004	WPL-SB-019 0.5 - 2 2/13/2004	WPL-SB-019 10 - 12 2/13/2004	WPL-SB-019 17 - 19 2/13/2004	WPL-SB-020 0 - 2 2/17/2004
Chloromethane	0.3	920	1000	510	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.001 J	2.1 U	0.0049 U	0.0046 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Ethylbenzene	70	10000	10000	29	0.0043 U	0.0042 U	0.0036 U	0.0043 U	0.44 U	0.0044 U	0.0037 U	1.6 U	0.0027 J	0.0036 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Methylene chloride	0.5	3500	4000	54	0.0032 U	0.0031 U	0.0027 U	0.0032 U	0.33 U	0.0033 U	0.0028 U	1.2 U	0.0029 U	0.0004 JB
Styrene	24	10000	10000	38000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.001 U	0.0009 U	0.0011 U	0.11 U	0.0011 U	0.0009 U	0.41 U	0.001 U	0.0009 U
Toluene	100	10000	10000	46000	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0012 J	0.0013 JB
trans-1,2-Dichloroethene	10	3700	4300	500	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Trichloroethene	0.5	970	1100	14	0.0011 U	0.001 U	0.0009 U	0.0011	0.11 U	0.0011 U	0.0009 U	0.41 U	0.001 U	0.0027
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0049 U	0.0046 U
Xylenes (Total)	1000	10000	10000	2600	0.0054 U	0.0052 U	0.0045 U	0.0054 U	0.55 U	0.0056 U	0.0046 U	2.1 U	0.0046 J	0.0046 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-020 5 - 7 2/17/2004	*WPL-SB-021 0 - 2 2/17/2004	WPL-SB-021 Dup 2 - 4 2/17/2004	WPL-SB-021 2 - 4 2/17/2004	WPL-SB-022 0 - 2 2/12/2004	WPL-SB-022 4 - 6 2/12/2004	WPL-SB-022 6 - 8 2/12/2004	WPL-SB-023 0.5 - 2 2/12/2004	WPL-SB-023 4 - 6 2/12/2004	WPL-SB-023 10 - 12 2/12/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.81	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	4.6	2 U	2 U	10	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.13	0.022 U	0.09	0.17	0.2	0.021 U	0.05	0.021 U	0.018 U
Metal														
Antimony	27	1100	190000	410	0.74 U	0.47 U	0.5 U	0.5 U	0.5 U	11.3	0.49 U	0.46 U	0.49 U	0.43 U
Arsenic	150	53	190000	1.6	3.4	8.7	4.3	6.4	9.7	79.4	6	4.8	3.9	4.7
Beryllium	320	5600	190000	2000	0.82	0.57	0.75	0.74	0.55	1	0.69	0.6	0.49	0.42
Cadmium	38	210	190000	800	0.051 U	0.18 B	0.052 U	0.09 B	2.4	62.5	0.05 U	0.13 B	0.05 U	0.044 U
Chromium				1400	18.1	45.6	14.9	16.5	58.3	3430	22	11.6	17.2	20.1
Copper	36000	100000	190000	41000	11.2	29.4	12.5	16.1	42.9	607	22.2	10.4	16.3	10.8
Lead	450	1000	190000	800	11.7	26.9	13.4	14.5	105	889	14	16.4	10.3	12.1
Nickel	650	56000	190000	20000	13.1	10.6	10.3	10.6	13.6	1710	15.1	8.4	12.7	12.1
Selenium	26	14000	190000	5100	0.54 U	0.74	0.74	0.83	1.4	4.2	0.89	0.46 U	0.7	0.43 U
Silver	84	14000	190000	5100	0.18 U	0.084 U	0.09 U	0.09 U	0.4 B	24.4	0.088 U	0.082 U	0.088 U	0.077 U
Thallium	14	200	190000	66	0.6 U	0.53 U	0.57 U	0.56 U	0.56 U	1.8 U	0.55 U	0.52 U	0.55 U	0.48 U
Zinc	12000	190000	190000	310000	46.2	48.7	38.4	44.6	151	3150	48.2	41.5	36.7	27.7
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.085 U	40 U	0.086 U	0.086 U	0.43 U	0.94 U	0.084 U	0.078 U	0.084 U	0.073 U
Arochlor-1221	2.5	160	10000	0.62	0.085 U	40 U	0.086 U	0.086 U	0.43 U	0.94 U	0.084 U	0.078 U	0.084 U	0.073 U
Arochlor-1232	2	160	10000	0.62	0.085 U	40 U	0.086 U	0.086 U	0.43 U	0.94 U	0.084 U	0.078 U	0.084 U	0.073 U
Arochlor-1242	62	160	10000	0.74	0.085 U	40 U	0.086 U	0.086 U	0.43 U	0.94 U	0.084 U	0.078 U	0.084 U	0.073 U
Arochlor-1248	67	44	10000	0.74	0.085 U	40 U	0.086 U	0.086 U	0.43 U	0.94 U	0.084 U	0.078 U	0.084 U	0.073 U
Arochlor-1254	280	44	10000	0.74	0.085 U	480	0.015 J	0.086 U	4.2	18	0.084 U	0.078 U	0.19	0.057 J
Arochlor-1260	1900	130	190000	0.74	0.085 U	40 U	0.086 U	0.086 U	0.43 U	4.5	0.084 U	0.078 U	0.084 U	0.073 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.085 U	480	0.015 J	0.086 U	4.2	22.5	0.084 U	0.078 U	0.19	0.057 J
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.04 U	0.043 U	0.043 U	0.043 U	0.47 U	0.042 U	0.2 U	0.042 U	0.036 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	19 U	1.7 U	7.8 U	1.7 U	1.4 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.08 U	0.086 U	0.085 U	0.085 U	0.93 U	0.083 U	0.39 U	0.084 U	0.073 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.08 U	0.086 U	0.085 U	0.085 U	0.93 U	0.083 U	0.39 U	0.084 U	0.073 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.048 J	0.43 U	0.43 U	0.059 J	2.7 J	0.42 U	0.12 J	0.92	0.53
2-Methylphenol	510	10000	10000	31000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	0.8 U	0.86 U	0.85 U	0.85 U	9.3 U	0.83 U	3.9 U	0.84 U	0.73 U
2-Nitrophenol	82	22000	190000		0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	0.8 U	0.86 U	0.85 U	0.85 U	9.3 U	0.83 U	3.9 U	0.84 U	0.73 U
3-Nitroaniline	0.58	160	190000		0.85 U	0.8 U	0.86 U	0.85 U	0.85 U	9.3 U	0.83 U	3.9 U	0.84 U	0.73 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	19 U	1.7 U	7.8 U	1.7 U	1.4 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-020 5 - 7 2/17/2004	*WPL-SB-021 0 - 2 2/17/2004	WPL-SB-021 Dup 2 - 4 2/17/2004	WPL-SB-021 2 - 4 2/17/2004	WPL-SB-022 0 - 2 2/12/2004	WPL-SB-022 4 - 6 2/12/2004	WPL-SB-022 6 - 8 2/12/2004	WPL-SB-023 0.5 - 2 2/12/2004	WPL-SB-023 4 - 6 2/12/2004	WPL-SB-023 10 - 12 2/12/2004
4-Bromophenyl phenyl ether					0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
4-Chlorodiphenyl Ether					0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	0.8 U	0.86 U	0.85 U	0.85 U	9.3 U	0.83 U	3.9 U	0.84 U	0.73 U
4-Nitrophenol	6	22000	190000		1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	19 U	1.7 U	7.8 U	1.7 U	1.4 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.016 J	0.43 U	0.43 U	0.027 J	2.9 J	0.42 U	2.5	0.056 J	0.031 J
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.14 J	0.43 U	0.43 U	0.038 J	0.16 J	0.42 U	1 J	0.42 U	0.36 U
Anthracene	350	190000	190000	170000	0.42 U	0.11 J	0.43 U	0.43 U	0.1 J	4.1 J	0.42 U	3.8	0.051 J	0.018 J
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.59	0.043 U	0.017 J	0.25	8.2	0.042 U	9.4	0.042 U	0.036 U
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.67	0.043 U	0.043 U	0.19	4.7	0.042 U	9.3	0.042 U	0.036 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.48	0.009 J	0.043 U	0.3	6.8	0.042 U	7.3	0.042 U	0.036 U
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.44	0.43 U	0.43 U	0.14 J	4.2 J	0.42 U	4.9	0.42 U	0.36 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.77	0.043 U	0.011 J	0.24	6.3	0.042 U	9.3	0.042 U	0.036 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.04 U	0.043 U	0.043 U	0.043 U	0.47 U	0.042 U	0.2 U	0.042 U	0.036 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.7	0.13 J	0.43 U	0.43 U	0.13 J	1.4 J	0.42 U	2 U	0.16 J	0.16 J
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Carbazole	83	4000	190000		0.42 U	0.015 J	0.43 U	0.43 U	0.041 J	1.1 J	0.42 U	0.22 J	0.42 U	0.36 U
Chrysene	230	11000	190000	210	0.42 U	0.65	0.022 J	0.019 J	0.3 J	9	0.42 U	8.6	0.42 U	0.36 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.13	0.043 U	0.043 U	0.037 J	1.7	0.042 U	2.4	0.042 U	0.036 U
Dibenzofuran					0.42 U	0.021 J	0.43 U	0.43 U	0.029 J	1.8 J	0.42 U	1.5 J	0.11 J	0.048 J
Diethylphthalate	500	10000	10000	490000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Dimethylphthalate					0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	2.6 J	0.42 U	2 U	0.42 U	0.36 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.97	0.016 J	0.02 J	0.45	20	0.015 J	18	0.066 J	0.036 J
Fluorene	3800	110000	190000	22000	0.42 U	0.02 J	0.43 U	0.43 U	0.03 J	4 J	0.42 U	2.9	0.11 J	0.049 J
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.04 U	0.043 U	0.043 U	0.043 U	0.47 U	0.042 U	0.2 U	0.042 U	0.036 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.08 U	0.086 U	0.085 U	0.085 U	0.93 U	0.083 U	0.39 U	0.084 U	0.073 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.04 U	0.043 U	0.043 U	0.043 U	0.47 U	0.042 U	0.2 U	0.042 U	0.036 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.45	0.043 U	0.043 U	0.12	4	0.042 U	5.6	0.042 U	0.036 U
Isophorone	10	10000	10000	1800	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Naphthalene	25	56000	190000	20	0.42 U	0.045 J	0.43 U	0.43 U	0.043 J	0.83 J	0.42 U	2 U	0.081 J	0.36 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.04 U	0.043 U	0.043 U	0.043 U	0.47 U	0.042 U	0.2 U	0.042 U	0.036 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.04 U	0.043 U	0.043 U	0.043 U	0.47 U	0.042 U	0.2 U	0.042 U	0.036 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	19 U	1.7 U	7.8 U	1.7 U	1.4 U
Phenanthrene	10000	190000	190000		0.42 U	0.24 J	0.02 J	0.019 J	0.3 J	22	0.015 J	8.3	0.2 J	0.13 J
Phenol	400	190000	190000	180000	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	4.7 U	0.42 U	2 U	0.42 U	0.36 U
Pyrene	2200	84000	190000	17000	0.42 U	1	0.014 J	0.018 J	0.4 J	20	0.013 J	16	0.056 J	0.028 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24						0.0001 mg/l U				
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6						0.01 mg/l B				
Barium	8200	190000	190000	190000						0.01 mg/l B				

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-020 5 - 7 2/17/2004	*WPL-SB-021 0 - 2 2/17/2004	WPL-SB-021 Dup 2 - 4 2/17/2004	WPL-SB-021 2 - 4 2/17/2004	WPL-SB-022 0 - 2 2/12/2004	WPL-SB-022 4 - 6 2/12/2004	WPL-SB-022 6 - 8 2/12/2004	WPL-SB-023 0.5 - 2 2/12/2004	WPL-SB-023 4 - 6 2/12/2004	WPL-SB-023 10 - 12 2/12/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800						0.0005 mg/l B				
Chromium				1400						0.004 mg/l B				
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800						0.005 mg/l B				
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100						0.0042 mg/l U				
Silver	84	14000	190000	5100						0.0014 mg/l U				
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100						0.002 mg/l U				
1,2-Dichloroethane	0.5	63	73	2.2						0.002 mg/l U				
2-Butanone	580	10000	10000	190000						0.005 mg/l U				
Benzene	0.5	210	240	5.6						0.001 mg/l U				
Carbon Tetrachloride	0.5	110	120	1.3						0.002 mg/l U				
Chlorobenzene	10	10000	10000	1500						0.005 mg/l U				
Chloroform	10	17	19	1.5						0.005 mg/l U				
Tetrachloroethene	0.5	1500	3300	2.7						0.001 mg/l U				
Trichloroethene	0.5	970	1100	14						0.001 mg/l				
Vinyl Chloride	0.2	53	220	1.7						0.005 mg/l U				
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.005 U	0.0006 J	0.0005 J	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.13 U	0.0011 U	0.0011 U	0.11 U	0.094 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.003 U	0.0034 U	0.0034 U	0.0031 U	0.38 U	0.0034 U	0.0032 U	0.34 U	0.28 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.002 U	0.0023 U	0.0022 U	0.002 U	0.26 U	0.0022 U	0.0021 U	0.22 U	0.19 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.002 U	0.0023 U	0.0022 U	0.002 U	0.26 U	0.0022 U	0.0021 U	0.22 U	0.19 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.13 U	0.0011 U	0.0011 U	0.11 U	0.094 U
1,4-Dioxane	2.4	210	240	160	1.1 U	0.99 U	1.1 U	1.1 U	1 U	130 U	1.1 U	1.1 U	110 U	94 U
2-Butanone	580	10000	10000	190000	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
2-Hexanone					0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Acetone	1000	10000	10000	610000	0.028	0.005 U	0.0057 U	0.0056 U	0.034	0.64 U	0.054	0.074	0.56 U	0.47 U
Acrylonitrile	0.27	24	28	1.2	0.054 U	0.05 U	0.057 U	0.056 U	0.051 U	6.4 U	0.056 U	0.053 U	5.6 U	4.7 U
Benzene	0.5	210	240	5.6	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.13 U	0.0011 U	0.0011 U	0.11 U	0.094 U
Bromochloromethane	9	10000	10000		0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.13 U	0.0011 U	0.0011 U	0.11 U	0.094 U
Bromoform	10	1500	1700	220	0.0043 U	0.004 U	0.0045 U	0.0045 U	0.0041 U	0.51 U	0.0045 U	0.0043 U	0.45 U	0.37 U
Bromomethane	1	270	300	35	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.001 J	0.56 U	0.47 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.002 U	0.0023 U	0.0022 U	0.002 U	0.26 U	0.0022 U	0.0021 U	0.22 U	0.19 U
Chlorobenzene	10	10000	10000	1500	0.001 J	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	1.2
Chlorodibromomethane	10	61	70	3.4	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Chloroethane	90	10000	10000	62000	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Chloroform	10	17	19	1.5	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-020 5 - 7 2/17/2004	*WPL-SB-021 0 - 2 2/17/2004	WPL-SB-021 Dup 2 - 4 2/17/2004	WPL-SB-021 2 - 4 2/17/2004	WPL-SB-022 0 - 2 2/12/2004	WPL-SB-022 4 - 6 2/12/2004	WPL-SB-022 6 - 8 2/12/2004	WPL-SB-023 0.5 - 2 2/12/2004	WPL-SB-023 4 - 6 2/12/2004	WPL-SB-023 10 - 12 2/12/2004
Chloromethane	0.3	920	1000	510	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0061	0.64 U	0.0056 U	0.0063	0.56 U	0.47 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Ethylbenzene	70	10000	10000	29	0.0043 U	0.004 U	0.0045 U	0.0045 U	0.0041 U	0.63	0.0045 U	0.0043 U	0.45 U	0.37 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Methylene chloride	0.5	3500	4000	54	0.0003 JB	0.0005 JB	0.0007 JB	0.0009 JB	0.0031 U	0.38 U	0.0034 U	0.0032 U	0.34 U	0.28 U
Styrene	24	10000	10000	38000	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.13 U	0.0011 U	0.0011 U	0.11 U	0.094 U
Toluene	100	10000	10000	46000	0.0012 JB	0.0015 JB	0.0013 JB	0.0015 JB	0.0051 U	0.28 J	0.0056 U	0.0053 U	0.56 U	0.47 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0016 J	0.56 U	0.47 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Trichloroethene	0.5	970	1100	14	0.0008 J	0.019	0.036	0.034	0.01	0.53	0.0016	0.0013	0.11 U	0.094 U
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	0.64 U	0.0056 U	0.0053 U	0.56 U	0.47 U
Xylenes (Total)	1000	10000	10000	2600	0.0054 U	0.005 U	0.0057 U	0.0056 U	0.0051 U	3.4	0.0056 U	0.0053 U	0.56 U	0.47 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-024 0.5 - 2 2/13/2004	WPL-SB-024 5 - 7 2/13/2004	WPL-SB-024 10 - 12 2/13/2004	WPL-SB-025 0.5 - 2 2/13/2004	WPL-SB-025 2 - 4 2/14/2004	WPL-SB-025 Dup 2 - 4 2/14/2004	WPL-SB-026 0.5 - 2 2/13/2004	WPL-SB-026 5 - 7 2/13/2004	WPL-SB-027 0.5 - 2 2/14/2004	WPL-SB-027 2 - 4 2/14/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	29.1	11.3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.25	0.07	0.019 U	0.11	0.1	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U
Metal														
Antimony	27	1100	190000	410	4.8	0.7 B	0.65 U	0.72 U	0.5 U	0.49 U	0.48 U	0.49 U	0.49 U	0.49 U
Arsenic	150	53	190000	1.6	10.8	4	7.2	5.5	7	6.9	6.2	4.5	6.6	5.2
Beryllium	320	5600	190000	2000	0.55	0.6	0.53	0.71	0.63	0.65	0.59	0.45	0.69	0.54
Cadmium	38	210	190000	800	9.1	0.048 U	0.31 B	15.1	0.12 B	0.05 U	0.049 U	0.05 U	0.051 U	0.051 U
Chromium				1400	3820	49.9	21.3	55.7	24.4	28.8	24.1	15.9	25.5	18.2
Copper	36000	100000	190000	41000	564	32	19.7	76.7	22.7	22.2	17.9	16.4	18.7	19
Lead	450	1000	190000	800	573	12.9	18	27.2	12.3	12.5	12.6	10.8	11.2	11.4
Nickel	650	56000	190000	20000	95.1	24.1	10.7	18.3	14.6	14.4	12.6	11.7	13.9	14.3
Selenium	26	14000	190000	5100	1.4 U	0.51 U	0.47 U	0.52 U	0.5 U	1.2	0.92	0.69	0.92	0.86
Silver	84	14000	190000	5100	7.6	0.19 B	0.16 U	0.17 U	0.09 U	0.088 U	0.086 U	0.088 U	0.088 U	0.088 U
Thallium	14	200	190000	66	1.6 U	0.57 U	0.53 U	0.59 U	0.56 U	1.1 U	0.54 U	0.55 U	0.56 U	0.56 U
Zinc	12000	190000	190000	310000	6900	89.3	39.3	100	47.4	45	40.3	36.2	43.1	38.3
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.082 U	0.081 U	0.075 U	0.084 U	0.086 U	0.084 U	0.082 U	0.084 U	0.084 U	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.082 U	0.081 U	0.075 U	0.084 U	0.086 U	0.084 U	0.082 U	0.084 U	0.084 U	0.085 U
Arochlor-1232	2	160	10000	0.62	0.082 U	0.081 U	0.075 U	0.084 U	0.086 U	0.084 U	0.082 U	0.084 U	0.084 U	0.085 U
Arochlor-1242	62	160	10000	0.74	0.082 U	0.081 U	0.075 U	0.084 U	0.086 U	0.084 U	0.082 U	0.084 U	0.084 U	0.085 U
Arochlor-1248	67	44	10000	0.74	0.082 U	0.081 U	0.075 U	0.084 U	0.086 U	0.084 U	0.082 U	0.084 U	0.084 U	0.085 U
Arochlor-1254	280	44	10000	0.74	0.38	0.028 J	0.046 J	0.027 J	0.086 U	0.026 J	0.082 U	0.084 U	0.031 J	0.085 U
Arochlor-1260	1900	130	190000	0.74	0.23	0.081 U	0.075 U	0.084 U	0.086 U	0.084 U	0.082 U	0.031 J	0.084 U	0.085 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.61	0.028 J	0.046 J	0.027 J	0.086 U	0.026 J	0.082 U	0.031 J	0.031 J	0.085 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.041 U	0.04 U	0.037 U	0.042 U	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	1.6 U	1.5 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.082 U	0.08 U	0.075 U	0.083 U	0.085 U	0.084 U	0.082 U	0.084 U	0.084 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.082 U	0.08 U	0.075 U	0.083 U	0.085 U	0.084 U	0.082 U	0.084 U	0.084 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.045 J	0.4 U	0.37 U	0.022 J	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.82 U	0.8 U	0.75 U	0.83 U	0.85 U	0.84 U	0.82 U	0.84 U	0.84 U	0.84 U
2-Nitrophenol	82	22000	190000		0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.82 U	0.8 U	0.75 U	0.83 U	0.85 U	0.84 U	0.82 U	0.84 U	0.84 U	0.84 U
3-Nitroaniline	0.58	160	190000		0.82 U	0.8 U	0.75 U	0.83 U	0.85 U	0.84 U	0.82 U	0.84 U	0.84 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	1.6 U	1.5 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-024 0.5 - 2 2/13/2004	WPL-SB-024 5 - 7 2/13/2004	WPL-SB-024 10 - 12 2/13/2004	WPL-SB-025 0.5 - 2 2/13/2004	WPL-SB-025 2 - 4 2/14/2004	WPL-SB-025 Dup 2 - 4 2/14/2004	WPL-SB-026 0.5 - 2 2/13/2004	WPL-SB-026 5 - 7 2/13/2004	WPL-SB-027 0.5 - 2 2/14/2004	WPL-SB-027 2 - 4 2/14/2004
4-Bromophenyl phenyl ether					0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
4-Chlorodiphenyl Ether					0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.82 U	0.8 U	0.75 U	0.83 U	0.85 U	0.84 U	0.82 U	0.84 U	0.84 U	0.84 U
4-Nitrophenol	6	22000	190000		1.6 U	1.6 U	1.5 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.04 J	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.036 J	0.4 U	0.37 U	0.017 J	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Anthracene	350	190000	190000	170000	0.13 J	0.4 U	0.37 U	0.027 J	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.39	0.04 U	0.037 U	0.15	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.39	0.04 U	0.037 U	0.14	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.37	0.04 U	0.037 U	0.22	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.24 J	0.4 U	0.37 U	0.18 J	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.48	0.04 U	0.037 U	0.26	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.041 U	0.04 U	0.037 U	0.042 U	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.62	0.58	0.27 J	0.25 JB	0.1 J	0.42 U	0.17 J	0.14 J	0.42 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Carbazole	83	4000	190000		0.054 J	0.4 U	0.37 U	0.0084 J	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Chrysene	230	11000	190000	210	0.48	0.4 U	0.37 U	0.2 J	0.43 U	0.42 U	0.014 J	0.42 U	0.42 U	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.062	0.04 U	0.037 U	0.055	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Dibenzofuran					0.033 J	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Dimethylphthalate					0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.088 J	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.6	0.4 U	0.37 U	0.2 J	0.43 U	0.42 U	0.012 J	0.42 U	0.42 U	0.42 U
Fluorene	3800	110000	190000	22000	0.034 J	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.041 U	0.04 U	0.037 U	0.042 U	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.082 U	0.08 U	0.075 U	0.083 U	0.085 U	0.084 U	0.082 U	0.084 U	0.084 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.041 U	0.04 U	0.037 U	0.042 U	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.24	0.04 U	0.037 U	0.16	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
Isophorone	10	10000	10000	1800	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Naphthalene	25	56000	190000	20	0.053 J	0.4 U	0.37 U	0.024 J	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.041 U	0.04 U	0.037 U	0.042 U	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.041 U	0.04 U	0.037 U	0.042 U	0.043 U	0.042 U	0.041 U	0.042 U	0.042 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.6 U	1.6 U	1.5 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U
Phenanthrene	10000	190000	190000		0.5	0.4 U	0.37 U	0.069 J	0.43 U	0.42 U	0.017 J	0.42 U	0.42 U	0.42 U
Phenol	400	190000	190000	180000	0.41 U	0.4 U	0.37 U	0.42 U	0.43 U	0.42 U	0.41 U	0.42 U	0.42 U	0.42 U
Pyrene	2200	84000	190000	17000	0.7	0.4 U	0.37 U	0.28 J	0.43 U	0.42 U	0.013 J	0.42 U	0.42 U	0.42 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24	0.0001 mg/l U									
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6	0.0032 mg/l U									
Barium	8200	190000	190000	190000	0.03 mg/l B									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-024 0.5 - 2 2/13/2004	WPL-SB-024 5 - 7 2/13/2004	WPL-SB-024 10 - 12 2/13/2004	WPL-SB-025 0.5 - 2 2/13/2004	WPL-SB-025 2 - 4 2/14/2004	WPL-SB-025 Dup 2 - 4 2/14/2004	WPL-SB-026 0.5 - 2 2/13/2004	WPL-SB-026 5 - 7 2/13/2004	WPL-SB-027 0.5 - 2 2/14/2004	WPL-SB-027 2 - 4 2/14/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	0.0004 mg/l U									
Chromium				1400	0.02 mg/l									
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800	0.008 mg/l B									
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100	0.0042 mg/l U									
Silver	84	14000	190000	5100	0.0014 mg/l U									
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.11 U	0.0009 U	0.001 U	0.0011 U	0.0011 U	0.0009 U	0.0011 U	0.001 U	0.0026 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0031 U	0.33 U	0.0026 U	0.0031 U	0.0033 U	0.0032 U	0.0027 U	0.0032 U	0.003 U	0.0079 U
1,1-Dichloroethane	11	1000	1200	17	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.22 U	0.0018 U	0.0021 U	0.0022 U	0.0022 U	0.0018 U	0.0021 U	0.002 U	0.0053 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.22 U	0.0018 U	0.0021 U	0.0022 U	0.0022 U	0.0018 U	0.0021 U	0.002 U	0.0053 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.11 U	0.0009 U	0.001 U	0.0011 U	0.0011 U	0.0009 U	0.0011 U	0.001 U	0.0026 U
1,4-Dioxane	2.4	210	240	160	1 U	110 U	0.88 U	1 U	1.1 U	1.1 U	0.91 U	1.1 U	1 U	2.6 U
2-Butanone	580	10000	10000	190000	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
2-Hexanone					0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Acetone	1000	10000	10000	610000	0.0052 U	0.55 U	0.0044 U	0.033	0.0055 U	0.0054 U	0.036	0.042	0.0051 U	0.013 U
Acrylonitrile	0.27	24	28	1.2	0.052 U	5.5 U	0.044 U	0.052 U	0.055 U	0.054 U	0.046 U	0.053 U	0.051 U	0.13 U
Benzene	0.5	210	240	5.6	0.002	0.11 U	0.0009 U	0.001 U	0.0011 U	0.0011 U	0.0009 U	0.0011 U	0.001 U	0.0026 U
Bromochloromethane	9	10000	10000		0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.11 U	0.0009 U	0.001 U	0.0011 U	0.0011 U	0.0009 U	0.0011 U	0.001 U	0.0026 U
Bromoform	10	1500	1700	220	0.0042 U	0.44 U	0.0035 U	0.0042 U	0.0044 U	0.0043 U	0.0036 U	0.0043 U	0.0041 U	0.01 U
Bromomethane	1	270	300	35	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Carbon Disulfide	410	10000	10000	3000	0.0052 U	0.55 U	0.0019 J	0.0014 J	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.22 U	0.0018 U	0.0021 U	0.0022 U	0.0022 U	0.0018 U	0.0009 J	0.002 U	0.0053 U
Chlorobenzene	10	10000	10000	1500	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Chlorodibromomethane	10	61	70	3.4	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Chloroethane	90	10000	10000	62000	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Chloroform	10	17	19	1.5	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0008 J	0.0051 U	0.013 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-024 0.5 - 2 2/13/2004	WPL-SB-024 5 - 7 2/13/2004	WPL-SB-024 10 - 12 2/13/2004	WPL-SB-025 0.5 - 2 2/13/2004	WPL-SB-025 2 - 4 2/14/2004	WPL-SB-025 Dup 2 - 4 2/14/2004	WPL-SB-026 0.5 - 2 2/13/2004	WPL-SB-026 5 - 7 2/13/2004	WPL-SB-027 0.5 - 2 2/14/2004	WPL-SB-027 2 - 4 2/14/2004
Chloromethane	0.3	920	1000	510	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.001 J	0.55 U	0.0014 J	0.0046 J	0.0055 U	0.0054 U	0.0065	0.0012 J	0.0013 J	0.0028 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Ethylbenzene	70	10000	10000	29	0.0042 U	0.44 U	0.0012 J	0.0042 U	0.0044 U	0.0043 U	0.0036 U	0.0006 J	0.0041 U	0.01 U
Methyl tert-butyl ether	2	3200	3700	190	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Methylene chloride	0.5	3500	4000	54	0.0031 U	0.33 U	0.001 JB	0.0031 U	0.0033 U	0.0032 U	0.0027 U	0.0032 U	0.003 U	0.0079 U
Styrene	24	10000	10000	38000	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Tetrachloroethene	0.5	1500	3300	2.7	0.001 U	0.11 U	0.0009 U	0.001 U	0.0011 U	0.0011 U	0.0009 U	0.0011 U	0.001 U	0.0026 U
Toluene	100	10000	10000	46000	0.002 J	0.55 U	0.0014 J	0.0025 J	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0052 U	0.55 U	0.0044 U	0.0007 J	0.0055 U	0.0054 U	0.0006 J	0.0053 U	0.0051 U	0.013 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.013 U
Trichloroethene	0.5	970	1100	14	0.0015	0.11 U	0.0014	0.0004 J	0.0011 U	0.0011 U	0.0068	0.0011 U	0.0048	0.0026 U
Vinyl Chloride	0.2	53	220	1.7	0.0052 U	0.55 U	0.0044 U	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0053 U	0.0051 U	0.0024 J
Xylenes (Total)	1000	10000	10000	2600	0.0052 U	0.55 U	0.005	0.0052 U	0.0055 U	0.0054 U	0.0046 U	0.0013 J	0.0051 U	0.013 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-028 0.5 - 2 2/12/2004	WPL-SB-028 5 - 7 2/12/2004	WPL-SB-028 12 - 14 2/12/2004	WPL-SB-029 0.5 - 2 2/12/2004	WPL-SB-029 5 - 7 2/12/2004	WPL-SB-030 0.5 - 2 2/12/2004	WPL-SB-030 5 - 7 2/12/2004	WPL-SB-030 8 - 10 2/12/2004	WPL-SB-031 0 - 2 2/14/2004	WPL-SB-031 2 - 4 2/14/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	5.3	2 U	2 U	5.4	2 U	14.6	17	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.08	0.022 U	0.019 U	0.17	0.022 U	6	0.02 U	0.019 U	0.021 U	0.022 U
Metal														
Antimony	27	1100	190000	410	31.5	0.51 U	0.44 U	12.4	0.75 U	1.6	0.71 U	0.65 U	0.49 U	0.51 U
Arsenic	150	53	190000	1.6	13.2	2.8 B	4.1	6.2	5.7	8.4	4.4	5.1	6.5	6.8
Beryllium	320	5600	190000	2000	0.36	0.58	0.35	1.2	0.57	0.6	0.42	0.48	0.67	0.61
Cadmium	38	210	190000	800	4.3	0.79	0.13 B	52.7	0.052 U	2.3	0.049 U	0.045 U	0.051 U	0.052 U
Chromium				1400	221	36.3	14.7	325	36.2	60.9	159	156	21.6	22.2
Copper	36000	100000	190000	41000	1080	33.2	17.8	213	19.4	185	14.6	20.2	16.8	21.2
Lead	450	1000	190000	800	521	94.3	19.1	575	13.7	291	19.5	17.5	15.2	11.4
Nickel	650	56000	190000	20000	263	50.8	11.8	50.7	13.4	47.1	10.2	11.7	12.7	13.8
Selenium	26	14000	190000	5100	1.1 B	0.69	0.44 U	0.52 U	0.54 U	0.56 U	0.51 U	0.47 U	0.63	0.75
Silver	84	14000	190000	5100	1.9	0.092 U	0.078 U	1.4	0.18 U	3.6	0.17 U	0.16 U	0.089 U	0.091 U
Thallium	14	200	190000	66	1.2 U	0.58 U	0.49 U	0.59 U	0.61 U	0.62 U	0.58 U	0.53 U	0.56 U	0.57 U
Zinc	12000	190000	190000	310000	2120	98.5	61.2	1960	49.5	305	35	36.7	41.1	44.2
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.09 U	0.18 U	0.075 U	0.084 U	0.086 U	0.089 U	0.082 U	0.075 U	0.085 U	0.087 U
Arochlor-1221	2.5	160	10000	0.62	0.09 U	0.18 U	0.075 U	0.084 U	0.086 U	0.089 U	0.082 U	0.075 U	0.085 U	0.087 U
Arochlor-1232	2	160	10000	0.62	0.09 U	0.18 U	0.075 U	0.084 U	0.086 U	0.089 U	0.082 U	0.075 U	0.085 U	0.087 U
Arochlor-1242	62	160	10000	0.74	0.09 U	0.18 U	0.075 U	0.084 U	0.086 U	0.089 U	0.082 U	0.075 U	0.085 U	0.087 U
Arochlor-1248	67	44	10000	0.74	0.09 U	0.18 U	0.075 U	0.084 U	0.086 U	0.089 U	0.082 U	0.075 U	0.085 U	0.087 U
Arochlor-1254	280	44	10000	0.74	0.09 U	2.2	0.11	0.25	0.086 U	0.32	0.24	0.075 U	0.069 J	0.013 J
Arochlor-1260	1900	130	190000	0.74	0.82	0.18 U	0.075 U	0.084 U	0.086 U	0.3	0.082 U	0.075 U	0.085 U	0.087 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.82	2.2	0.11	0.25	0.086 U	0.62	0.24	0.075 U	0.069 J	0.013 J
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.22 U	0.44 U	0.037 U	21 U	0.043 U	0.088 U	0.041 U	0.037 U	0.042 U	0.043 U
1,2-Dichlorobenzene	60	10000	10000	10000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
1,3-Dichlorobenzene	61	10000	10000		2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
1,4-Dichlorobenzene	10	3300	190000	13	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2,4,6-Trichlorophenol	8.9	840	190000	160	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2,4-Dichlorophenol	2	8400	190000	1800	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2,4-Dimethylphenol	200	10000	10000	12000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2,4-Dinitrophenol	4.1	5600	190000	1200	9 U	18 U	1.5 U	830 U	1.7 U	3.5 U	1.6 U	1.5 U	1.7 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.45 U	0.88 U	0.075 U	42 U	0.086 U	0.18 U	0.082 U	0.075 U	0.085 U	0.086 U
2,6-Dinitrotoluene	10	2800	190000	620	0.45 U	0.88 U	0.075 U	42 U	0.086 U	0.18 U	0.082 U	0.075 U	0.085 U	0.086 U
2-Chloronaphthalene	18000	190000	190000	82000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2-Chlorophenol	4.4	920	1100	5100	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2-Methylnaphthalene	8000	10000	10000	4100	0.9 J	2 J	0.067 J	91 J	0.22 J	0.72 J	4.9	0.37 U	0.42 U	0.43 U
2-Methylphenol	510	10000	10000	31000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
2-Nitroaniline	0.58	160	190000	1800	4.5 U	8.8 U	0.75 U	420 U	0.86 U	1.8 U	0.82 U	0.75 U	0.85 U	0.86 U
2-Nitrophenol	82	22000	190000		2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	4.5 U	8.8 U	0.75 U	420 U	0.86 U	1.8 U	0.82 U	0.75 U	0.85 U	0.86 U
3-Nitroaniline	0.58	160	190000		4.5 U	8.8 U	0.75 U	420 U	0.86 U	1.8 U	0.82 U	0.75 U	0.85 U	0.86 U
4,6-Dinitro-2-Methylphenol				62	9 U	18 U	1.5 U	830 U	1.7 U	3.5 U	1.6 U	1.5 U	1.7 U	1.7 U

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4-Bromophenyl phenyl ether					2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
4-Chloroaniline	52	11000	190000	8.6	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
4-Chlorodiphenyl Ether					2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
4-METHYLPHENOL	51	14000	190000	3100	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
4-Nitroaniline	0.58	160	190000	86	4.5 U	8.8 U	0.75 U	420 U	0.86 U	1.8 U	0.82 U	0.75 U	0.85 U	0.86 U
4-Nitrophenol	6	22000	190000		9 U	18 U	1.5 U	830 U	1.7 U	3.5 U	1.6 U	1.5 U	1.7 U	1.7 U
Acenaphthene	4700	170000	190000	33000	1.1 J	2.1 J	0.16 J	300	1.9	1.2	0.41 U	0.072 J	0.42 U	0.43 U
Acenaphthylene	6900	170000	190000	33000	0.28 J	4.4 U	0.015 J	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.018 J	0.43 U
Anthracene	350	190000	190000	170000	2.3	1.4 J	0.31 J	530	2.8	0.48 J	0.13 J	0.12 J	0.018 J	0.43 U
Benzo (A) Anthracene	320	110	190000	2.1	7.7	1.9	0.46	650	4.2	0.71	0.15	0.17	0.05	0.043 U
Benzo (a) Pyrene	46	11	190000	0.21	8.1	0.95	0.33	600	4.4	0.56	0.12	0.18	0.038 J	0.043 U
Benzo (b) Fluoranthene	170	110	190000	2.1	6.6	1.3	0.37	470	3.5	0.61	0.081	0.13	0.063	0.043 U
Benzo (g,h,i) Perylene	180	170000	190000		5.6	0.76 J	0.23 J	390	2.7	0.75 J	0.13 J	0.096 J	0.029 J	0.43 U
Benzo (k) Fluoranthene	610	1100	190000	21	9.1	1.4	0.38	640	4	0.58	0.1	0.17	0.067	0.043 U
Bis(2-Chloroethoxy) Methane				1800	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.22 U	0.44 U	0.037 U	21 U	0.043 U	0.088 U	0.041 U	0.037 U	0.042 U	0.043 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	1.5 J	3.4 J	0.23 J	210 U	0.43 U	0.88 U	0.76	0.37 U	0.42 U	0.43 U
Butylbenzylphthalate	10000	10000	10000	910	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Carbazole	83	4000	190000		0.57 J	4.4 U	0.12 J	240	1.4	0.11 J	0.41 U	0.062 J	0.42 U	0.43 U
Chrysene	230	11000	190000	210	8.6	2.1 J	0.48	650	4.5	0.94	0.24 J	0.19 J	0.081 J	0.43 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	2	0.48	0.079	150	0.93	0.36	0.041 U	0.037 U	0.042 U	0.043 U
Dibenzofuran					0.83 J	0.79 J	0.1 J	230	0.9	0.66 J	0.41 U	0.046 J	0.42 U	0.43 U
Diethylphthalate	500	10000	10000	490000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Dimethylphthalate					2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Di-n-Butylphthalate	4100	10000	10000	62000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.3 J	0.37 U	0.42 U	0.43 U
Di-n-octylphthalate	10000	10000	10000		2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Fluoranthene	3200	110000	190000	22000	15	7.9	1.2	1600	10	1.7	0.34 J	0.43	0.074 J	0.43 U
Fluorene	3800	110000	190000	22000	1.5 J	2.1 J	0.22 J	350	1.5	1.1	0.44	0.077 J	0.42 U	0.43 U
Hexachlorobenzene	0.96	50	190000	1.1	0.22 U	0.44 U	0.037 U	21 U	0.043 U	0.088 U	0.041 U	0.037 U	0.042 U	0.043 U
Hexachlorobutadiene	1.2	560	10000	22	0.45 U	0.88 U	0.075 U	42 U	0.086 U	0.18 U	0.082 U	0.075 U	0.085 U	0.086 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Hexachloroethane	0.56	2800	190000	120	0.22 U	0.44 U	0.037 U	21 U	0.043 U	0.088 U	0.041 U	0.037 U	0.042 U	0.043 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	5	0.58	0.21	350	2.5	0.64	0.11	0.087	0.024 J	0.043 U
Isophorone	10	10000	10000	1800	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Naphthalene	25	56000	190000	20	0.85 J	1.7 J	0.072 J	320	0.56	0.91	0.94	0.37 U	0.42 U	0.43 U
Nitrobenzene	5.1	1400	10000	22	0.22 U	0.44 U	0.037 U	21 U	0.043 U	0.088 U	0.041 U	0.037 U	0.042 U	0.043 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.22 U	0.44 U	0.037 U	21 U	0.043 U	0.088 U	0.041 U	0.037 U	0.042 U	0.043 U
N-Nitrosodiphenylamine	83	16000	190000	350	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Pentachlorophenol	5	660	190000	9	9 U	18 U	1.5 U	830 U	1.7 U	3.5 U	1.6 U	1.5 U	1.7 U	1.7 U
Phenanthrene	10000	190000	190000		9.1	10	1.3	1900	10	3	1.4	0.49	0.017 J	0.43 U
Phenol	400	190000	190000	180000	2.2 U	4.4 U	0.37 U	210 U	0.43 U	0.88 U	0.41 U	0.37 U	0.42 U	0.43 U
Pyrene	2200	84000	190000	17000	16	6.6	1	1900	9.1	2.8	0.5	0.34 J	0.1 J	0.43 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24	0.0001 mg/l U			0.0001 mg/l U						
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6	0.018 mg/l U			0.018 mg/l U						
Barium	8200	190000	190000	190000	1.9 mg/l			0.48 mg/l B						

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Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	0.02 mg/l B			0.16 mg/l						
Chromium				1400	0.0055 mg/l U			0.009 mg/l B						
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800	0.06 mg/l B			0.05 mg/l B						
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100	0.03 mg/l B			0.023 mg/l U						
Silver	84	14000	190000	5100	0.01 mg/l B			0.0055 mg/l U						
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100	0.002 mg/l U									
1,2-Dichloroethane	0.5	63	73	2.2	0.002 mg/l U									
2-Butanone	580	10000	10000	190000	0.005 mg/l U									
Benzene	0.5	210	240	5.6	0.001 mg/l U									
Carbon Tetrachloride	0.5	110	120	1.3	0.002 mg/l U									
Chlorobenzene	10	10000	10000	1500	0.005 mg/l U									
Chloroform	10	17	19	1.5	0.005 mg/l U									
Tetrachloroethene	0.5	1500	3300	2.7	0.001 mg/l U									
Trichloroethene	0.5	970	1100	14	0.001 mg/l									
Vinyl Chloride	0.2	53	220	1.7	0.009 mg/l									
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.14 U	0.13 U	0.001 U	0.0013 U	0.0012 U	0.0011 U	0.11 U	0.0009 U	0.0011 U	0.0011 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.43 U	0.38 U	0.0028 U	0.004 U	0.0034 U	0.0033 U	0.34 U	0.0028 U	0.0033 U	0.0034 U
1,1-Dichloroethane	11	1000	1200	17	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
1,1-Dichloroethene	0.7	33	38	1100	0.29 U	0.25 U	0.0019 U	0.0027 U	0.0023 U	0.0022 U	0.23 U	0.0018 U	0.0022 U	0.0022 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
1,2-Dichloroethane	0.5	63	73	2.2	0.29 U	0.25 U	0.0019 U	0.0027 U	0.0023 U	0.0022 U	0.23 U	0.0018 U	0.0022 U	0.0022 U
1,2-Dichloropropane	0.5	160	180	4.7	0.14 U	0.13 U	0.001 U	0.0013 U	0.0012 U	0.0011 U	0.11 U	0.0009 U	0.0011 U	0.0011 U
1,4-Dioxane	2.4	210	240	160	140 U	130 U	0.95 U	1.3 U	1.2 U	1.1 U	110 U	0.92 U	1.1 U	1.1 U
2-Butanone	580	10000	10000	190000	0.72 U	0.63 U	0.0087	0.009	0.0068	0.012	0.57 U	0.0046 U	0.0055 U	0.0056 U
2-Hexanone					0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Acetone	1000	10000	10000	610000	0.72 U	0.63 U	0.036	0.093	0.08	0.11	0.57 U	0.05	0.0055 U	0.0056 U
Acrylonitrile	0.27	24	28	1.2	7.2 U	6.3 U	0.048 U	0.067 U	0.058 U	0.055 U	5.7 U	0.046 U	0.055 U	0.056 U
Benzene	0.5	210	240	5.6	0.79	0.13 U	0.001 U	0.0013 U	0.0012 U	0.0011 U	0.11 U	0.0009 U	0.0011 U	0.0011 U
Bromochloromethane	9	10000	10000		0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Bromodichloromethane	10	45	51	1.4	0.14 U	0.13 U	0.001 U	0.0013 U	0.0012 U	0.0011 U	0.11 U	0.0009 U	0.0011 U	0.0011 U
Bromoform	10	1500	1700	220	0.58 U	0.51 U	0.0038 U	0.0054 U	0.0046 U	0.0044 U	0.45 U	0.0037 U	0.0044 U	0.0045 U
Bromomethane	1	270	300	35	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Carbon Disulfide	410	10000	10000	3000	0.72 U	0.63 U	0.0048 U	0.001 J	0.0058 U	0.0035 J	0.57 U	0.0017 J	0.0055 U	0.0056 U
Carbon Tetrachloride	0.5	110	120	1.3	0.29 U	0.25 U	0.0019 U	0.0027 U	0.0023 U	0.0022 U	0.23 U	0.0018 U	0.0022 U	0.0022 U
Chlorobenzene	10	10000	10000	1500	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.091 J	0.0046 U	0.0055 U	0.0056 U
Chlorodibromomethane	10	61	70	3.4	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Chloroethane	90	10000	10000	62000	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Chloroform	10	17	19	1.5	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-028 0.5 - 2 2/12/2004	WPL-SB-028 5 - 7 2/12/2004	WPL-SB-028 12 - 14 2/12/2004	WPL-SB-029 0.5 - 2 2/12/2004	WPL-SB-029 5 - 7 2/12/2004	WPL-SB-030 0.5 - 2 2/12/2004	WPL-SB-030 5 - 7 2/12/2004	WPL-SB-030 8 - 10 2/12/2004	WPL-SB-031 0 - 2 2/14/2004	WPL-SB-031 2 - 4 2/14/2004
Chloromethane	0.3	920	1000	510	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
cis-1,2-Dichloroethene	7	1900	2100	10000	8.6	0.29 J	0.041	0.0059 J	0.001 J	0.011	0.57 U	0.0013 J	0.0055 U	0.0056 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Ethylbenzene	70	10000	10000	29	0.43 J	0.23 J	0.0038 U	0.0004 J	0.0005 J	0.0005 J	0.41 J	0.0004 J	0.0044 U	0.0045 U
Methyl tert-butyl ether	2	3200	3700	190	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Methylene chloride	0.5	3500	4000	54	0.43 U	0.38 U	0.0005 JB	0.004 U	0.0034 U	0.0006 JB	0.34 U	0.0012 JB	0.0033 U	0.0034 U
Styrene	24	10000	10000	38000	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Tetrachloroethene	0.5	1500	3300	2.7	0.14 U	0.13 U	0.001 U	0.0013 U	0.0012 U	0.0011 U	0.055 J	0.0009 U	0.0011 U	0.0011 U
Toluene	100	10000	10000	46000	0.83	0.63 U	0.0013 J	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.49 J	0.63 U	0.0048 U	0.0006 J	0.0058 U	0.0027 J	0.57 U	0.0046 U	0.0055 U	0.0056 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.72 U	0.63 U	0.0048 U	0.0067 U	0.0058 U	0.0055 U	0.57 U	0.0046 U	0.0055 U	0.0056 U
Trichloroethene	0.5	970	1100	14	22	0.49	0.0006 J	0.0051	0.011	0.002	0.11 U	0.0014	0.014	0.0028
Vinyl Chloride	0.2	53	220	1.7	11	0.092 J	0.0073	0.0067 U	0.0018 J	0.0026 J	0.57 U	0.0046 U	0.0055 U	0.0056 U
Xylenes (Total)	1000	10000	10000	2600	2.1	3.5	0.0048 U	0.0024 J	0.0021 J	0.0024 J	0.67	0.0012 J	0.0055 U	0.0056 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-032 0 - 2 2/17/2004	WPL-SB-032 2 - 4 2/17/2004	WPL-SB-033 0 - 2 2/13/2004	WPL-SB-033 3 - 5 2/13/2004	WPL-SB-034 0 - 2 2/12/2004	WPL-SB-034 4 - 6 2/12/2004	WPL-SB-035 0 - 2 2/14/2004	WPL-SB-035 5 - 7 2/14/2004	WPL-SB-036 0 - 2 2/17/2004	WPL-SB-036 2 - 4 2/17/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.022 U	0.021 U	0.021 U	0.26	0.021 U	0.08	0.022 U	0.1	0.03 B
Metal														
Antimony	27	1100	190000	410	0.48 U	0.51 U	0.49 U	0.49 U	0.74 U	0.74 U	0.5 U	0.51 U	2	0.5 U
Arsenic	150	53	190000	1.6	6.2	6.1	6.3	5.8	5.8	4.4	9.3	5.8	22.5	4.4
Beryllium	320	5600	190000	2000	0.65	0.57	0.53	0.49	0.58	0.48	0.67	0.62	0.75	0.73
Cadmium	38	210	190000	800	0.2 B	0.052 U	0.05 U	0.05 U	0.051 U	0.051 U	0.18 B	0.052 U	0.052 U	0.052 U
Chromium				1400	19.1	22.5	24.9	16.8	21.1	19.1	25.5	24	13.3	17.1
Copper	36000	100000	190000	41000	17.2	20.1	20.4	17.3	17.7	19.1	20.9	20.1	20	12.1
Lead	450	1000	190000	800	19.6	11.6	11.4	11.9	14.1	10.8	35.3	11.3	58.9	12.5
Nickel	650	56000	190000	20000	11	14.2	13.4	12.7	13.8	14.9	13.4	14.3	14.4	10.8
Selenium	26	14000	190000	5100	0.6 B	0.95	0.74	0.73	0.54 U	0.53 U	0.99	0.51 U	0.88	0.5 U
Silver	84	14000	190000	5100	0.087 U	0.091 U	0.088 U	0.088 U	0.18 U	0.18 U	0.09 U	0.092 U	0.091 U	0.09 U
Thallium	14	200	190000	66	0.55 U	0.57 U	0.55 U	0.55 U	0.6 U	0.6 U	0.57 U	0.58 U	0.57 U	0.57 U
Zinc	12000	190000	190000	310000	45	44.3	41.9	44.1	47.5	46.4	63.4	45.5	60.9	38.4
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.083 U	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	0.17 U	0.088 U	0.087 U	0.086 U
Arochlor-1221	2.5	160	10000	0.62	0.083 U	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	0.17 U	0.088 U	0.087 U	0.086 U
Arochlor-1232	2	160	10000	0.62	0.083 U	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	0.17 U	0.088 U	0.087 U	0.086 U
Arochlor-1242	62	160	10000	0.74	0.083 U	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	0.17 U	0.088 U	0.087 U	0.086 U
Arochlor-1248	67	44	10000	0.74	0.083 U	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	0.17 U	0.088 U	0.087 U	0.086 U
Arochlor-1254	280	44	10000	0.74	0.099 J	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	1.8	0.088 U	0.046 JP*	0.086 U
Arochlor-1260	1900	130	190000	0.74	0.12	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	0.17 U	0.088 U	0.085 J	0.086 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.12	0.087 U	0.084 U	0.084 U	0.086 U	0.085 U	1.8	0.088 U	0.131	0.086 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.043 U	0.044 U	0.043 U	0.043 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
1,3-Dichlorobenzene	61	10000	10000		0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
1,4-Dichlorobenzene	10	3300	190000	13	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2,4-Dichlorophenol	2	8400	190000	1800	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2,4-Dimethylphenol	200	10000	10000	12000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.083 U	0.086 U	0.083 U	0.084 U	0.085 U	0.085 U	0.086 U	0.087 U	0.087 U	0.086 U
2,6-Dinitrotoluene	10	2800	190000	620	0.083 U	0.086 U	0.083 U	0.084 U	0.085 U	0.085 U	0.086 U	0.087 U	0.087 U	0.086 U
2-Chloronaphthalene	18000	190000	190000	82000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2-Chlorophenol	4.4	920	1100	5100	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2-Methylnaphthalene	8000	10000	10000	4100	0.028 J	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.12 J	0.44 U	0.18 J	0.43 U
2-Methylphenol	510	10000	10000	31000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
2-Nitroaniline	0.58	160	190000	1800	0.83 U	0.86 U	0.83 U	0.84 U	0.85 U	0.85 U	0.86 U	0.87 U	0.87 U	0.86 U
2-Nitrophenol	82	22000	190000		0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.83 U	0.86 U	0.83 U	0.84 U	0.85 U	0.85 U	0.86 U	0.87 U	0.87 U	0.86 U
3-Nitroaniline	0.58	160	190000		0.83 U	0.86 U	0.83 U	0.84 U	0.85 U	0.85 U	0.86 U	0.87 U	0.87 U	0.86 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-032 0 - 2 2/17/2004	WPL-SB-032 2 - 4 2/17/2004	WPL-SB-033 0 - 2 2/13/2004	WPL-SB-033 3 - 5 2/13/2004	WPL-SB-034 0 - 2 2/12/2004	WPL-SB-034 4 - 6 2/12/2004	WPL-SB-035 0 - 2 2/14/2004	WPL-SB-035 5 - 7 2/14/2004	WPL-SB-036 0 - 2 2/17/2004	WPL-SB-036 2 - 4 2/17/2004
4-Bromophenyl phenyl ether					0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
4-Chloroaniline	52	11000	190000	8.6	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
4-Chlorodiphenyl Ether					0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
4-METHYLPHENOL	51	14000	190000	3100	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
4-Nitroaniline	0.58	160	190000	86	0.83 U	0.86 U	0.83 U	0.84 U	0.85 U	0.85 U	0.86 U	0.87 U	0.87 U	0.86 U
4-Nitrophenol	6	22000	190000		1.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.014 J	0.43 U
Acenaphthylene	6900	170000	190000	33000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.051 J	0.44 U	0.26 J	0.43 U
Anthracene	350	190000	190000	170000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.29 J	0.44 U	0.5	0.43 U
Benzo (A) Anthracene	320	110	190000	2.1	0.025 J	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	2.5	0.044 U	0.74	0.043 U
Benzo (a) Pyrene	46	11	190000	0.21	0.019 J	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	1.5	0.044 U	0.58	0.043 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.024 J	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	1.8	0.044 U	1.2	0.043 U
Benzo (g,h,i) Perylene	180	170000	190000		0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.8	0.44 U	0.6	0.43 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.03 J	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	2.1	0.044 U	1.2	0.043 U
Bis(2-Chloroethoxy) Methane				1800	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.043 U	0.044 U	0.043 U	0.043 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.41 U	0.12 J	0.42 U	0.42 U	0.43 U	0.42 U	0.11 J	0.092 J	0.15 J	0.23 J
Butylbenzylphthalate	10000	10000	10000	910	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Carbazole	83	4000	190000		0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.3 J	0.44 U	0.11 J	0.43 U
Chrysene	230	11000	190000	210	0.043 J	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	2.8	0.44 U	1.1	0.43 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.29	0.044 U	0.22	0.043 U
Dibenzofuran					0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.05 J	0.44 U	0.08 J	0.43 U
Diethylphthalate	500	10000	10000	490000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Dimethylphthalate					0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Di-n-octylphthalate	10000	10000	10000		0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Fluoranthene	3200	110000	190000	22000	0.036 J	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	4	0.44 U	1	0.43 U
Fluorene	3800	110000	190000	22000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.022 J	0.43 U
Hexachlorobenzene	0.96	50	190000	1.1	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.043 U	0.044 U	0.043 U	0.043 U
Hexachlorobutadiene	1.2	560	10000	22	0.083 U	0.086 U	0.083 U	0.084 U	0.085 U	0.085 U	0.086 U	0.087 U	0.087 U	0.086 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Hexachloroethane	0.56	2800	190000	120	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.043 U	0.044 U	0.043 U	0.043 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.96	0.044 U	0.6	0.043 U
Isophorone	10	10000	10000	1800	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Naphthalene	25	56000	190000	20	0.02 J	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.09 J	0.44 U	0.14 J	0.43 U
Nitrobenzene	5.1	1400	10000	22	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.043 U	0.044 U	0.043 U	0.043 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.042 U	0.043 U	0.044 U	0.043 U	0.043 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Pentachlorophenol	5	660	190000	9	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Phenanthrene	10000	190000	190000		0.034 J	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	1.7	0.44 U	0.27 J	0.43 U
Phenol	400	190000	190000	180000	0.41 U	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	0.43 U	0.44 U	0.43 U	0.43 U
Pyrene	2200	84000	190000	17000	0.038 J	0.43 U	0.42 U	0.42 U	0.43 U	0.42 U	3.5	0.44 U	1.4	0.43 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-032 0 - 2 2/17/2004	WPL-SB-032 2 - 4 2/17/2004	WPL-SB-033 0 - 2 2/13/2004	WPL-SB-033 3 - 5 2/13/2004	WPL-SB-034 0 - 2 2/12/2004	WPL-SB-034 4 - 6 2/12/2004	WPL-SB-035 0 - 2 2/14/2004	WPL-SB-035 5 - 7 2/14/2004	WPL-SB-036 0 - 2 2/17/2004	WPL-SB-036 2 - 4 2/17/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.0033 U	0.003 U	0.0033 U	0.0033 U	0.0032 U	0.0036 U	0.0035 U	0.0036 U	0.0035 U
1,1-Dichloroethane	11	1000	1200	17	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.0022 U	0.002 U	0.0022 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.0022 U	0.002 U	0.0022 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Butanone	580	10000	10000	190000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
2-Hexanone					0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Acetone	1000	10000	10000	610000	0.0056 U	0.0055 U	0.036	0.044	0.037	0.03	0.0059 U	0.0058 U	0.031	0.0059 U
Acrylonitrile	0.27	24	28	1.2	0.056 U	0.055 U	0.05 U	0.056 U	0.055 U	0.054 U	0.059 U	0.058 U	0.06 U	0.059 U
Benzene	0.5	210	240	5.6	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Bromochloromethane	9	10000	10000		0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0004 J
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Bromoform	10	1500	1700	220	0.0044 U	0.0044 U	0.004 U	0.0044 U	0.0044 U	0.0043 U	0.0047 U	0.0046 U	0.0048 U	0.0047 U
Bromomethane	1	270	300	35	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Carbon Disulfide	410	10000	10000	3000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.0022 U	0.002 U	0.0022 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0024 U	0.0024 U
Chlorobenzene	10	10000	10000	1500	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Chlorodibromomethane	10	61	70	3.4	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Chloroethane	90	10000	10000	62000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Chloroform	10	17	19	1.5	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-032 0 - 2 2/17/2004	WPL-SB-032 2 - 4 2/17/2004	WPL-SB-033 0 - 2 2/13/2004	WPL-SB-033 3 - 5 2/13/2004	WPL-SB-034 0 - 2 2/12/2004	WPL-SB-034 4 - 6 2/12/2004	WPL-SB-035 0 - 2 2/14/2004	WPL-SB-035 5 - 7 2/14/2004	WPL-SB-036 0 - 2 2/17/2004	WPL-SB-036 2 - 4 2/17/2004
Chloromethane	0.3	920	1000	510	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Ethylbenzene	70	10000	10000	29	0.0044 U	0.0044 U	0.004 U	0.0044 U	0.0044 U	0.0043 U	0.0047 U	0.0046 U	0.0048 U	0.0047 U
Methyl tert-butyl ether	2	3200	3700	190	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Methylene chloride	0.5	3500	4000	54	0.0003 JB	0.0005 JB	0.003 U	0.0033 U	0.0033 U	0.0032 U	0.0036 U	0.0035 U	0.0007 JB	0.0008 JB
Styrene	24	10000	10000	38000	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Toluene	100	10000	10000	46000	0.0012 JB	0.0014 JB	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.0018 JB	0.0029 JB
trans-1,2-Dichloroethene	10	3700	4300	500	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Trichloroethene	0.5	970	1100	14	0.0006 J	0.0005 J	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0007 J	0.0012 U	0.0008 J	0.0009 J
Vinyl Chloride	0.2	53	220	1.7	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U
Xylenes (Total)	1000	10000	10000	2600	0.0056 U	0.0055 U	0.005 U	0.0056 U	0.0055 U	0.0054 U	0.0059 U	0.0058 U	0.006 U	0.0059 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	*WPL-SB-037 0.5 - 2 2/12/2004	WPL-SB-037 9 - 11 2/12/2004	WPL-SB-038 0 - 2 2/13/2004	WPL-SB-038 3 - 5 2/13/2004	WPL-SB-039 0 - 2 2/13/2004	WPL-SB-039 3 - 5 2/13/2004	WPL-SB-040 0 - 2 2/13/2004	WPL-SB-040 4 - 6 2/13/2004	WPL-SB-041 0 - 2 2/17/2004	WPL-SB-041 5 - 7 2/17/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.65	0.98	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	9.3	2 U	2 U	2 U	2 U	4.3	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	1.1	0.018 U	0.05	0.022 U	0.07	0.04 B	0.07	0.022 U	0.02 B	0.022 U
Metal														
Antimony	27	1100	190000	410	9	0.62 U	0.47 U	0.5 U	0.46 U	0.48 U	0.68 U	0.77 U	0.46 U	0.51 U
Arsenic	150	53	190000	1.6	47.4	7.7	5.1	4.3	6.5	6	5.1	5.9	7.1	4.6
Beryllium	320	5600	190000	2000	0.71	0.48	0.59	0.49	0.57	0.61	0.47	0.52	0.61	0.76
Cadmium	38	210	190000	800	31.5	0.043 U	0.048 U	0.052 U	0.048 U	0.049 U	0.2 B	0.053 U	0.15 B	0.18 B
Chromium				1400	738	126	13.1	16.1	16.5	15.9	73.8	25	12	22.4
Copper	36000	100000	190000	41000	3260	21.4	9.3	9.7	13.4	10.3	298	24.4	10.6	13.4
Lead	450	1000	190000	800	1230	14.8	16	11.2	19.5	13.3	31.4	11.8	11.8	11.5
Nickel	650	56000	190000	20000	355	15.6	7.7	11.2	9.3	8.9	48.7	17.6	5.1	12
Selenium	26	14000	190000	5100	1.2 U	0.45 U	0.63	0.62 B	0.81	0.88	0.5 U	0.55 U	1.1	0.64
Silver	84	14000	190000	5100	13.4	0.15 U	0.084 U	0.09 U	0.083 U	0.087 U	0.29 B	0.18 U	0.082 U	0.092 U
Thallium	14	200	190000	66	1.4 U	0.5 U	0.53 U	0.57 U	0.52 U	0.54 U	0.55 U	0.62 U	0.52 U	0.58 U
Zinc	12000	190000	190000	310000	5130	44.8	29.7	42.6	36.4	28.5	111	55	15.6	41.9
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.49 U	0.072 U	0.08 U	0.086 U	0.08 U	0.083 U	0.079 U	0.088 U	0.079 U	0.088 U
Arochlor-1221	2.5	160	10000	0.62	0.49 U	0.072 U	0.08 U	0.086 U	0.08 U	0.083 U	0.079 U	0.088 U	0.079 U	0.088 U
Arochlor-1232	2	160	10000	0.62	0.49 U	0.072 U	0.08 U	0.086 U	0.08 U	0.083 U	0.079 U	0.088 U	0.079 U	0.088 U
Arochlor-1242	62	160	10000	0.74	0.49 U	0.072 U	0.08 U	0.086 U	0.08 U	0.083 U	0.079 U	0.088 U	0.079 U	0.088 U
Arochlor-1248	67	44	10000	0.74	0.49 U	0.072 U	0.08 U	0.086 U	0.08 U	0.083 U	0.079 U	0.088 U	0.079 U	0.088 U
Arochlor-1254	280	44	10000	0.74	7	0.072 U	0.08 U	0.086 U	0.17	0.083 U	0.36	0.088 U	0.079 U	0.088 U
Arochlor-1260	1900	130	190000	0.74	2.2	0.072 U	0.08 U	0.086 U	0.12	0.083 U	0.079 U	0.088 U	0.079 U	0.088 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	9.2	0.072 U	0.08 U	0.086 U	0.29	0.083 U	0.36	0.088 U	0.079 U	0.088 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.24 U	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.039 U	0.044 U	0.039 U	0.044 U
1,2-Dichlorobenzene	60	10000	10000	10000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
1,3-Dichlorobenzene	61	10000	10000		2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
1,4-Dichlorobenzene	10	3300	190000	13	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2,4,6-Trichlorophenol	8.9	840	190000	160	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2,4-Dichlorophenol	2	8400	190000	1800	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2,4-Dimethylphenol	200	10000	10000	12000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2,4-Dinitrophenol	4.1	5600	190000	1200	9.8 U	1.4 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.8 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.49 U	0.071 U	0.08 U	0.086 U	0.079 U	0.082 U	0.079 U	0.088 U	0.078 U	0.087 U
2,6-Dinitrotoluene	10	2800	190000	620	0.49 U	0.071 U	0.08 U	0.086 U	0.079 U	0.082 U	0.079 U	0.088 U	0.078 U	0.087 U
2-Chloronaphthalene	18000	190000	190000	82000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2-Chlorophenol	4.4	920	1100	5100	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2-Methylnaphthalene	8000	10000	10000	4100	0.86 J	0.36 U	0.02 J	0.43 U	0.073 J	0.035 J	0.39 U	0.44 U	0.026 J	0.44 U
2-Methylphenol	510	10000	10000	31000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
2-Nitroaniline	0.58	160	190000	1800	4.9 U	0.71 U	0.8 U	0.86 U	0.79 U	0.82 U	0.79 U	0.88 U	0.78 U	0.87 U
2-Nitrophenol	82	22000	190000		2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	4.9 U	0.71 U	0.8 U	0.86 U	0.79 U	0.82 U	0.79 U	0.88 U	0.78 U	0.87 U
3-Nitroaniline	0.58	160	190000		4.9 U	0.71 U	0.8 U	0.86 U	0.79 U	0.82 U	0.79 U	0.88 U	0.78 U	0.87 U
4,6-Dinitro-2-Methylphenol				62	9.8 U	1.4 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.8 U	1.6 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	*WPL-SB-037 0.5 - 2 2/12/2004	WPL-SB-037 9 - 11 2/12/2004	WPL-SB-038 0 - 2 2/13/2004	WPL-SB-038 3 - 5 2/13/2004	WPL-SB-039 0 - 2 2/13/2004	WPL-SB-039 3 - 5 2/13/2004	WPL-SB-040 0 - 2 2/13/2004	WPL-SB-040 4 - 6 2/13/2004	WPL-SB-041 0 - 2 2/17/2004	WPL-SB-041 5 - 7 2/17/2004
4-Bromophenyl phenyl ether					2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
4-Chloroaniline	52	11000	190000	8.6	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
4-Chlorodiphenyl Ether					2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
4-METHYLPHENOL	51	14000	190000	3100	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
4-Nitroaniline	0.58	160	190000	86	4.9 U	0.71 U	0.8 U	0.86 U	0.79 U	0.82 U	0.79 U	0.88 U	0.78 U	0.87 U
4-Nitrophenol	6	22000	190000		9.8 U	1.4 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.8 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	4.4	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.0083 J	0.44 U	0.39 U	0.44 U
Acenaphthylene	6900	170000	190000	33000	2.4 U	0.36 U	0.4 U	0.018 J	0.4 U	0.41 U	0.016 J	0.44 U	0.39 U	0.44 U
Anthracene	350	190000	190000	170000	9.1	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.024 J	0.44 U	0.39 U	0.44 U
Benzo (A) Anthracene	320	110	190000	2.1	21	0.036 U	0.014 J	0.043 U	0.028 J	0.014 J	0.095	0.044 U	0.016 J	0.044 U
Benzo (a) Pyrene	46	11	190000	0.21	20	0.036 U	0.014 J	0.011 J	0.025 J	0.016 J	0.085	0.044 U	0.013 J	0.044 U
Benzo (b) Fluoranthene	170	110	190000	2.1	18	0.036 U	0.014 J	0.043 U	0.024 J	0.014 J	0.12	0.044 U	0.024 J	0.044 U
Benzo (g,h,i) Perylene	180	170000	190000		14	0.36 U	0.0082 J	0.43 U	0.015 J	0.0084 J	0.15 J	0.44 U	0.39 U	0.44 U
Benzo (k) Fluoranthene	610	1100	190000	21	16	0.036 U	0.015 J	0.01 J	0.027 J	0.017 J	0.13	0.044 U	0.027 J	0.044 U
Bis(2-Chloroethoxy) Methane				1800	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.24 U	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.039 U	0.044 U	0.039 U	0.044 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	2.4 U	0.36 U	0.4 U	0.12 J	0.18 J	0.14 J	0.88	0.44 U	0.39 U	0.19 J
Butylbenzylphthalate	10000	10000	10000	910	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Carbazole	83	4000	190000		3.3	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.013 J	0.44 U	0.39 U	0.44 U
Chrysene	230	11000	190000	210	24	0.36 U	0.033 J	0.43 U	0.038 J	0.027 J	0.15 J	0.44 U	0.036 J	0.44 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	5.8	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.024 J	0.044 U	0.039 U	0.044 U
Dibenzofuran					1.3 J	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Diethylphthalate	500	10000	10000	490000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Dimethylphthalate					2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Di-n-Butylphthalate	4100	10000	10000	62000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	1.1	0.44 U	0.39 U	0.44 U
Di-n-octylphthalate	10000	10000	10000		2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Fluoranthene	3200	110000	190000	22000	31	0.36 U	0.018 J	0.43 U	0.046 J	0.021 J	0.15 J	0.44 U	0.028 J	0.44 U
Fluorene	3800	110000	190000	22000	3.4	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Hexachlorobenzene	0.96	50	190000	1.1	0.24 U	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.039 U	0.044 U	0.039 U	0.044 U
Hexachlorobutadiene	1.2	560	10000	22	0.49 U	0.071 U	0.08 U	0.086 U	0.079 U	0.082 U	0.079 U	0.088 U	0.078 U	0.087 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Hexachloroethane	0.56	2800	190000	120	0.24 U	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.039 U	0.044 U	0.039 U	0.044 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	13	0.036 U	0.04 U	0.043 U	0.01 J	0.041 U	0.11	0.044 U	0.039 U	0.044 U
Isophorone	10	10000	10000	1800	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Naphthalene	25	56000	190000	20	2.1 J	0.36 U	0.012 J	0.43 U	0.052 J	0.023 J	0.033 J	0.44 U	0.021 J	0.44 U
Nitrobenzene	5.1	1400	10000	22	0.24 U	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.039 U	0.044 U	0.039 U	0.044 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.24 U	0.036 U	0.04 U	0.043 U	0.04 U	0.041 U	0.039 U	0.044 U	0.039 U	0.044 U
N-Nitrosodiphenylamine	83	16000	190000	350	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Pentachlorophenol	5	660	190000	9	9.8 U	1.4 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.8 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		28	0.36 U	0.031 J	0.43 U	0.056 J	0.052 J	0.084 J	0.44 U	0.02 J	0.44 U
Phenol	400	190000	190000	180000	2.4 U	0.36 U	0.4 U	0.43 U	0.4 U	0.41 U	0.39 U	0.44 U	0.39 U	0.44 U
Pyrene	2200	84000	190000	17000	39	0.36 U	0.02 J	0.43 U	0.045 J	0.025 J	0.16 J	0.44 U	0.029 J	0.44 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24	0.0001 mg/l U									
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6	0.0032 mg/l U									
Barium	8200	190000	190000	190000	0.12 mg/l B									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	*WPL-SB-037 0.5 - 2 2/12/2004	WPL-SB-037 9 - 11 2/12/2004	WPL-SB-038 0 - 2 2/13/2004	WPL-SB-038 3 - 5 2/13/2004	WPL-SB-039 0 - 2 2/13/2004	WPL-SB-039 3 - 5 2/13/2004	WPL-SB-040 0 - 2 2/13/2004	WPL-SB-040 4 - 6 2/13/2004	WPL-SB-041 0 - 2 2/17/2004	WPL-SB-041 5 - 7 2/17/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800	0.0004 mg/l U									
Chromium				1400	0.002 mg/l B									
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800	0.003 mg/l B									
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100	0.0042 mg/l U									
Silver	84	14000	190000	5100	0.0014 mg/l U									
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100	0.002 mg/l U									
1,2-Dichloroethane	0.5	63	73	2.2	0.002 mg/l U									
2-Butanone	580	10000	10000	190000	0.005 mg/l U									
Benzene	0.5	210	240	5.6	0.001 mg/l U									
Carbon Tetrachloride	0.5	110	120	1.3	0.002 mg/l U									
Chlorobenzene	10	10000	10000	1500	0.005 mg/l U									
Chloroform	10	17	19	1.5	0.005 mg/l U									
Tetrachloroethene	0.5	1500	3300	2.7	0.001 mg/l U									
Trichloroethene	0.5	970	1100	14	0.001 mg/l U									
Vinyl Chloride	0.2	53	220	1.7	0.005 mg/l U									
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.16 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0012 U	0.0009 U	0.0012 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.48 U	0.0029 U	0.0031 U	0.0034 U	0.0031 U	0.0032 U	0.0038 U	0.0037 U	0.0028 U	0.0037 U
1,1-Dichloroethane	11	1000	1200	17	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
1,1-Dichloroethene	0.7	33	38	1100	0.32 U	0.002 U	0.0021 U	0.0023 U	0.0021 U	0.0021 U	0.0025 U	0.0025 U	0.0018 U	0.0025 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
1,2-Dichloroethane	0.5	63	73	2.2	0.32 U	0.002 U	0.0021 U	0.0023 U	0.0021 U	0.0021 U	0.0025 U	0.0025 U	0.0018 U	0.0025 U
1,2-Dichloropropane	0.5	160	180	4.7	0.16 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0012 U	0.0009 U	0.0012 U
1,4-Dioxane	2.4	210	240	160	160 U	0.98 U	1 U	1.1 U	1 U	1 U	1.2 U	1.2 U	0.92 U	1.2 U
2-Butanone	580	10000	10000	190000	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
2-Hexanone					0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Acetone	1000	10000	10000	610000	0.81 U	0.056	0.043	0.03	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Acrylonitrile	0.27	24	28	1.2	8.1 U	0.049 U	0.052 U	0.057 U	0.052 U	0.053 U	0.063 U	0.062 U	0.046 U	0.062 U
Benzene	0.5	210	240	5.6	0.16 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0012 U	0.0009 U	0.0012 U
Bromochloromethane	9	10000	10000		0.81 U	0.0049 U	0.0052 U	0.0019 J	0.0006 J	0.0006 J	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Bromodichloromethane	10	45	51	1.4	0.16 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0012 U	0.0009 U	0.0012 U
Bromoform	10	1500	1700	220	0.64 U	0.0039 U	0.0041 U	0.0046 U	0.0042 U	0.0042 U	0.005 U	0.005 U	0.0037 U	0.0049 U
Bromomethane	1	270	300	35	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Carbon Disulfide	410	10000	10000	3000	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Carbon Tetrachloride	0.5	110	120	1.3	0.32 U	0.002 U	0.0021 U	0.0023 U	0.0021 U	0.0021 U	0.0025 U	0.0025 U	0.0018 U	0.0025 U
Chlorobenzene	10	10000	10000	1500	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Chlorodibromomethane	10	61	70	3.4	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Chloroethane	90	10000	10000	62000	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Chloroform	10	17	19	1.5	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	*WPL-SB-037 0.5 - 2 2/12/2004	WPL-SB-037 9 - 11 2/12/2004	WPL-SB-038 0 - 2 2/13/2004	WPL-SB-038 3 - 5 2/13/2004	WPL-SB-039 0 - 2 2/13/2004	WPL-SB-039 3 - 5 2/13/2004	WPL-SB-040 0 - 2 2/13/2004	WPL-SB-040 4 - 6 2/13/2004	WPL-SB-041 0 - 2 2/17/2004	WPL-SB-041 5 - 7 2/17/2004
Chloromethane	0.3	920	1000	510	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.84	0.0049 U	0.0052 U	0.0057 U	0.0007 J	0.0053 U	0.0063 U	0.0008 J	0.0046 U	0.0062 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Ethylbenzene	70	10000	10000	29	0.42 J	0.0039 U	0.0041 U	0.0046 U	0.0042 U	0.0042 U	0.005 U	0.005 U	0.0037 U	0.0049 U
Methyl tert-butyl ether	2	3200	3700	190	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Methylene chloride	0.5	3500	4000	54	0.48 U	0.0029 U	0.0031 U	0.0022 JB	0.0014 JB	0.0032 U	0.0038 U	0.0037 U	0.0007 JB	0.0008 JB
Styrene	24	10000	10000	38000	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Tetrachloroethene	0.5	1500	3300	2.7	0.16 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0012 U	0.0009 U	0.0012 U
Toluene	100	10000	10000	46000	0.44 J	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0026 JB	0.0028 JB
trans-1,2-Dichloroethene	10	3700	4300	500	0.3 J	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.81 U	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Trichloroethene	0.5	970	1100	14	3.1	0.001 U	0.001 U	0.0007 J	0.0039	0.001 U	0.0012 J	0.0061	0.0007 J	0.0008 J
Vinyl Chloride	0.2	53	220	1.7	0.11 J	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U
Xylenes (Total)	1000	10000	10000	2600	6.3	0.0049 U	0.0052 U	0.0057 U	0.0052 U	0.0053 U	0.0063 U	0.0062 U	0.0046 U	0.0062 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-042 0 - 2 2/17/2004	WPL-SB-042 5 - 7 2/17/2004	WPL-SB-043 0 - 2 2/17/2004	WPL-SB-043 2 - 4 2/17/2004	WPL-SB-043 6 - 8 2/17/2004	WPL-SB-044 0 - 2 2/17/2004	WPL-SB-044 4 - 6 2/17/2004	WPL-SB-045 0.5 - 2 2/13/2004	WPL-SB-045 3 - 5 2/13/2004	WPL-SB-046 0 - 2 2/12/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8.9	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.04 B	0.07	0.03 B	0.02 B	0.03 B	0.02 B	0.03 B	0.11	0.07	0.021 U
Metal														
Antimony	27	1100	190000	410	0.46 U	0.53 U	0.44 U	0.47 U	0.5 U	0.45 U	0.5 U	1.6	10.7	0.49 U
Arsenic	150	53	190000	1.6	5.3	3.7	5.5	6.5	8.3	6.2	6.2	6	12.4	6.3
Beryllium	320	5600	190000	2000	0.23	0.87	0.57	0.62	0.72	0.53	0.56	0.56	0.75	0.69
Cadmium	38	210	190000	800	0.14 B	0.18 B	0.19 B	0.12 B	0.22 B	0.15 B	0.13 B	2.9	17.4	0.1 B
Chromium				1400	9.5	13.9	10.3	13.3	33	14.7	20.2	69.7	160	26
Copper	36000	100000	190000	41000	9.3	9.7	12.3	8.9	26.8	8.6	18.5	133	872	23
Lead	450	1000	190000	800	14.4	11.8	9.4	9.9	15.3	9.2	10.5	102	867	17.7
Nickel	650	56000	190000	20000	4.1 B	10.1	8.4	5.7	16.8	4.7	13	26.9	73.1	15.4
Selenium	26	14000	190000	5100	0.83	0.62 B	0.85	0.53 B	1.1	1.1	0.87	0.49 U	0.99 U	1.5
Silver	84	14000	190000	5100	0.082 U	0.095 U	0.079 U	0.084 U	0.09 U	0.08 U	0.09 U	0.47 B	5.4	0.088 U
Thallium	14	200	190000	66	0.51 U	0.6 U	0.49 U	0.53 U	0.56 U	0.5 U	0.56 U	0.55 U	1.1 U	0.55 U
Zinc	12000	190000	190000	310000	7.7	36.5	50.7	15.1	56.5	14.2	41.3	420	2160	77.7
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	0.39 U	0.16 U	0.084 U
Arochlor-1221	2.5	160	10000	0.62	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	0.39 U	0.16 U	0.084 U
Arochlor-1232	2	160	10000	0.62	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	0.39 U	0.16 U	0.084 U
Arochlor-1242	62	160	10000	0.74	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	0.39 U	0.16 U	0.084 U
Arochlor-1248	67	44	10000	0.74	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	0.39 U	0.16 U	0.084 U
Arochlor-1254	280	44	10000	0.74	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	5.1	3.2	0.084 U
Arochlor-1260	1900	130	190000	0.74	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	0.39 U	1	0.55
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.078 U	0.091 U	0.075 U	0.08 U	0.086 U	0.077 U	0.086 U	5.1	4.2	0.55
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.039 U	0.045 U	0.037 U	0.04 U	0.043 U	0.038 U	0.043 U	0.039 U	0.078 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	1.8 U	1.5 U	1.6 U	1.7 U	1.5 U	1.7 U	1.6 U	3.1 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.078 U	0.09 U	0.075 U	0.08 U	0.086 U	0.076 U	0.086 U	0.078 U	0.16 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.078 U	0.09 U	0.075 U	0.08 U	0.086 U	0.076 U	0.086 U	0.078 U	0.16 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.15 J	0.45 U	0.085 J	0.4 U	0.43 U	0.38 U	0.43 U	0.026 J	0.19 J	0.42 U
2-Methylphenol	510	10000	10000	31000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.78 U	0.9 U	0.75 U	0.8 U	0.86 U	0.76 U	0.86 U	0.78 U	1.6 U	0.84 U
2-Nitrophenol	82	22000	190000		0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.78 U	0.9 U	0.75 U	0.8 U	0.86 U	0.76 U	0.86 U	0.78 U	1.6 U	0.84 U
3-Nitroaniline	0.58	160	190000		0.78 U	0.9 U	0.75 U	0.8 U	0.86 U	0.76 U	0.86 U	0.78 U	1.6 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	1.8 U	1.5 U	1.6 U	1.7 U	1.5 U	1.7 U	1.6 U	3.1 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-042 0 - 2 2/17/2004	WPL-SB-042 5 - 7 2/17/2004	WPL-SB-043 0 - 2 2/17/2004	WPL-SB-043 2 - 4 2/17/2004	WPL-SB-043 6 - 8 2/17/2004	WPL-SB-044 0 - 2 2/17/2004	WPL-SB-044 4 - 6 2/17/2004	WPL-SB-045 0.5 - 2 2/13/2004	WPL-SB-045 3 - 5 2/13/2004	WPL-SB-046 0 - 2 2/12/2004
4-Bromophenyl phenyl ether					0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
4-Chlorodiphenyl Ether					0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.78 U	0.9 U	0.75 U	0.8 U	0.86 U	0.76 U	0.86 U	0.78 U	1.6 U	0.84 U
4-Nitrophenol	6	22000	190000		1.6 U	1.8 U	1.5 U	1.6 U	1.7 U	1.5 U	1.7 U	1.6 U	3.1 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.13 J	1.7	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.028 J	0.45 U	0.37 U	0.061 J	0.43 U	0.38 U	0.43 U	0.019 J	0.13 J	0.42 U
Anthracene	350	190000	190000	170000	0.045 J	0.45 U	0.37 U	0.048 J	0.43 U	0.38 U	0.43 U	0.16 J	1	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.084	0.023 J	0.034 J	0.31	0.043 U	0.035 J	0.043 U	0.35	1.6	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.052	0.0096 J	0.027 J	0.27	0.043 U	0.027 J	0.043 U	0.27	1.3	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.13	0.0096 J	0.038	0.25	0.043 U	0.034 J	0.043 U	0.25	1.1	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.053 J	0.45 U	0.37 U	0.21 J	0.43 U	0.022 J	0.43 U	0.22 J	0.88	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.14	0.011 J	0.042	0.44	0.043 U	0.045	0.043 U	0.33	1.6	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.039 U	0.045 U	0.037 U	0.04 U	0.043 U	0.038 U	0.043 U	0.039 U	0.078 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.15 J	0.11 J	0.37 U	0.1 J	0.43 U	0.084 J	0.093 J	0.13 J	0.26 J	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Carbazole	83	4000	190000		0.02 J	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.049 J	0.1 J	0.42 U
Chrysene	230	11000	190000	210	0.16 J	0.016 J	0.068 J	0.47	0.43 U	0.051 J	0.43 U	0.41	1.8	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.039 U	0.045 U	0.037 U	0.066	0.043 U	0.038 U	0.043 U	0.061	0.34	0.042 U
Dibenzofuran					0.045 J	0.45 U	0.02 J	0.4 U	0.43 U	0.38 U	0.43 U	0.067 J	0.46 J	0.42 U
Diethylphthalate	500	10000	10000	490000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Dimethylphthalate					0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.14 J	0.022 J	0.051 J	0.81	0.43 U	0.072 J	0.01 J	0.76	3.6	0.01 J
Fluorene	3800	110000	190000	22000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.12 J	1.7	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.039 U	0.045 U	0.037 U	0.04 U	0.043 U	0.038 U	0.043 U	0.039 U	0.078 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.078 U	0.09 U	0.075 U	0.08 U	0.086 U	0.076 U	0.086 U	0.078 U	0.16 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.039 U	0.045 U	0.037 U	0.04 U	0.043 U	0.038 U	0.043 U	0.039 U	0.078 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.044	0.045 U	0.037 U	0.2	0.043 U	0.02 J	0.043 U	0.18	0.86	0.042 U
Isophorone	10	10000	10000	1800	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Naphthalene	25	56000	190000	20	0.12 J	0.45 U	0.059 J	0.4 U	0.43 U	0.38 U	0.43 U	0.027 J	0.55 J	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.039 U	0.045 U	0.037 U	0.04 U	0.043 U	0.038 U	0.043 U	0.039 U	0.078 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.039 U	0.045 U	0.037 U	0.04 U	0.043 U	0.038 U	0.043 U	0.039 U	0.078 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.6 U	1.8 U	1.5 U	1.6 U	1.7 U	1.5 U	1.7 U	1.6 U	3.1 U	1.7 U
Phenanthrene	10000	190000	190000		0.12 J	0.017 J	0.067 J	0.29 J	0.43 U	0.021 J	0.43 U	0.85	3.3	0.017 J
Phenol	400	190000	190000	180000	0.39 U	0.45 U	0.37 U	0.4 U	0.43 U	0.38 U	0.43 U	0.39 U	0.78 U	0.42 U
Pyrene	2200	84000	190000	17000	0.13 J	0.026 J	0.057 J	0.74	0.43 U	0.072 J	0.0099 J	0.75	4.6	0.012 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24									0.0001 mg/l U	
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6									0.0032 mg/l U	
Barium	8200	190000	190000	190000									0.04 mg/l B	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-042 0 - 2 2/17/2004	WPL-SB-042 5 - 7 2/17/2004	WPL-SB-043 0 - 2 2/17/2004	WPL-SB-043 2 - 4 2/17/2004	WPL-SB-043 6 - 8 2/17/2004	WPL-SB-044 0 - 2 2/17/2004	WPL-SB-044 4 - 6 2/17/2004	WPL-SB-045 0.5 - 2 2/13/2004	WPL-SB-045 3 - 5 2/13/2004	WPL-SB-046 0 - 2 2/12/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800									0.0004 mg/l U	
Chromium				1400									0.004 mg/l B	
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800									0.02 mg/l B	
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100									0.0042 mg/l U	
Silver	84	14000	190000	5100									0.0014 mg/l U	
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0009 U	0.0012 U	0.0008 U	0.001 U	0.0012 U	0.0009 U	0.0011 U	0.001 U	0.098 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0027 U	0.0037 U	0.0026 U	0.0029 U	0.0037 U	0.0026 U	0.0032 U	0.0028 U	0.3 U	0.0031 U
1,1-Dichloroethane	11	1000	1200	17	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
1,1-Dichloroethene	0.7	33	38	1100	0.0018 U	0.0025 U	0.0017 U	0.0019 U	0.0024 U	0.0017 U	0.0021 U	0.0019 U	0.2 U	0.0021 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0018 U	0.0025 U	0.0017 U	0.0019 U	0.0024 U	0.0017 U	0.0021 U	0.0019 U	0.2 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0009 U	0.0012 U	0.0008 U	0.001 U	0.0012 U	0.0009 U	0.0011 U	0.001 U	0.098 U	0.001 U
1,4-Dioxane	2.4	210	240	160	0.89 U	1.2 U	0.85 U	0.97 U	1.2 U	0.87 U	1.1 U	0.95 U	98 U	1 U
2-Butanone	580	10000	10000	190000	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.012
2-Hexanone					0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Acetone	1000	10000	10000	610000	0.0045 U	0.038	0.02	0.0048 U	0.034	0.0044 U	0.0054 U	0.03	0.49 U	0.093
Acrylonitrile	0.27	24	28	1.2	0.045 U	0.062 U	0.043 U	0.048 U	0.061 U	0.044 U	0.054 U	0.048 U	4.9 U	0.052 U
Benzene	0.5	210	240	5.6	0.0009 U	0.0012 U	0.0008 U	0.001 U	0.0012 U	0.0009 U	0.0011 U	0.0006 J	0.098 U	0.001 U
Bromochloromethane	9	10000	10000		0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Bromodichloromethane	10	45	51	1.4	0.0009 U	0.0012 U	0.0008 U	0.001 U	0.0012 U	0.0009 U	0.0011 U	0.001 U	0.098 U	0.001 U
Bromoform	10	1500	1700	220	0.0036 U	0.0049 U	0.0034 U	0.0039 U	0.0049 U	0.0035 U	0.0043 U	0.0038 U	0.39 U	0.0042 U
Bromomethane	1	270	300	35	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Carbon Disulfide	410	10000	10000	3000	0.0045 U	0.0062 U	0.0022 J	0.0015 J	0.0061 U	0.0044 U	0.0054 U	0.001 J	0.49 U	0.0052 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0018 U	0.0025 U	0.0017 U	0.0019 U	0.0024 U	0.0017 U	0.0021 U	0.0019 U	0.2 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Chlorodibromomethane	10	61	70	3.4	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Chloroethane	90	10000	10000	62000	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Chloroform	10	17	19	1.5	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-042 0 - 2 2/17/2004	WPL-SB-042 5 - 7 2/17/2004	WPL-SB-043 0 - 2 2/17/2004	WPL-SB-043 2 - 4 2/17/2004	WPL-SB-043 6 - 8 2/17/2004	WPL-SB-044 0 - 2 2/17/2004	WPL-SB-044 4 - 6 2/17/2004	WPL-SB-045 0.5 - 2 2/13/2004	WPL-SB-045 3 - 5 2/13/2004	WPL-SB-046 0 - 2 2/12/2004
Chloromethane	0.3	920	1000	510	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.01	0.096 J	0.0052 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Ethylbenzene	70	10000	10000	29	0.0036 U	0.0049 U	0.0034 U	0.0039 U	0.0049 U	0.0035 U	0.0043 U	0.0038 U	0.39 U	0.0042 U
Methyl tert-butyl ether	2	3200	3700	190	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Methylene chloride	0.5	3500	4000	54	0.0006 JB	0.0007 JB	0.0006 JB	0.0007 JB	0.0007 JB	0.0026 U	0.0007 JB	0.0028 U	0.3 U	0.0031 U
Styrene	24	10000	10000	38000	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0009 U	0.0012 U	0.0008 U	0.001 U	0.0093	0.0009 U	0.0011	0.001 U	0.098 U	0.0039
Toluene	100	10000	10000	46000	0.002 JB	0.0028 JB	0.0018 JB	0.0026 JB	0.0028 JB	0.0018 JB	0.0017 JB	0.0048 U	0.49 U	0.0052 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0008 J	0.49 U	0.0052 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U
Trichloroethene	0.5	970	1100	14	0.0006 J	0.0009 J	0.0005 J	0.0009 J	0.0013	0.0006 J	0.0008 J	0.0032	0.27	0.001 U
Vinyl Chloride	0.2	53	220	1.7	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.023	0.054 J	0.0052 U
Xylenes (Total)	1000	10000	10000	2600	0.0045 U	0.0062 U	0.0043 U	0.0048 U	0.0061 U	0.0044 U	0.0054 U	0.0048 U	0.49 U	0.0052 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-046 2 - 4 2/12/2004	*WPL-SB-047 0 - 2 2/12/2004	WPL-SB-047 2 - 4 2/12/2004	*WPL-SB-048 0 - 2 2/12/2004	WPL-SB-048 2 - 4 2/12/2004	*WPL-SB-049 0 - 2 2/5/2004	WPL-SB-049 2 - 4 2/5/2004	WPL-SB-049 11 - 13 2/5/2004	WPL-SB-051 0 - 2 3/10/2004	WPL-SB-051 5 - 7 3/10/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.86	0.5 U	0.5 U	0.5 U	
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	24.8	2 U	6.7	2 U	2 U	2 U	2 U	2 U	
Mercury														
Mercury	10	840	190000	24	0.021 U	0.88	0.06	0.37	0.021 U	0.14	0.04 B	0.021 U	0.05	
Metal														
Antimony	27	1100	190000	410	0.5 U	19	0.75 U	24.2	0.73 U	0.47 U	0.49 U	0.48 U	0.51 U	
Arsenic	150	53	190000	1.6	7	13.1	5.8	10.3	3.9	6	5.7	5.9	5.3	
Beryllium	320	5600	190000	2000	0.61	0.52	0.84	0.66	0.79	0.61	0.77	0.48	0.62	
Cadmium	38	210	190000	800	0.051 U	16.6	0.29 B	7	0.05 U	1.3	0.09 B	0.15 B	0.052 U	
Chromium				1400	27.6	470	18.3	197	16.1	15.2	15.2	15.6	18.2	
Copper	36000	100000	190000	41000	26	729	16.2	316	11.6	22.2	10.7	19.1	30.7	
Lead	450	1000	190000	800	12.3	797	17	306	15.8	39	16.2	10.8	15.3	
Nickel	650	56000	190000	20000	15.6	140	13.2	57.5	11.2	8.5	10.7	13.7	10.7	
Selenium	26	14000	190000	5100	0.97	1 U	0.54 U	1.1 U	0.53 U	0.47 U	0.49 U	0.48 U	0.56 B	
Silver	84	14000	190000	5100	0.089 U	15.9	0.18 U	3.1	0.18 U	0.084 U	0.088 U	0.086 U	0.091 U	
Thallium	14	200	190000	66	0.56 U	1.1 U	0.61 U	1.2 U	0.59 U	0.53 U	0.56 U	0.54 U	0.57 U	
Zinc	12000	190000	190000	310000	55.2	2220	64.2	1080	45.3	63.5	41.6	42.9	50.6	
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.085 U	0.81 U	0.087 U	1.7 U	0.084 U	0.08 U	0.085 U	0.082 U	0.87 U	
Arochlor-1221	2.5	160	10000	0.62	0.085 U	0.81 U	0.087 U	1.7 U	0.084 U	0.08 U	0.085 U	0.082 U	0.87 U	
Arochlor-1232	2	160	10000	0.62	0.085 U	0.81 U	0.087 U	1.7 U	0.084 U	0.08 U	0.085 U	0.082 U	0.87 U	
Arochlor-1242	62	160	10000	0.74	0.085 U	0.81 U	0.087 U	1.7 U	0.084 U	0.08 U	0.085 U	0.082 U	0.87 U	
Arochlor-1248	67	44	10000	0.74	0.085 U	0.81 U	0.087 U	1.7 U	0.084 U	0.08 U	0.085 U	0.082 U	0.87 U	
Arochlor-1254	280	44	10000	0.74	0.085 U	14	0.087 U	23	0.06 J	0.08 U	0.085 U	0.082 U	11	
Arochlor-1260	1900	130	190000	0.74	0.085 U	0.81 U	0.087 U	1.7 U	0.022 J	0.059 J	0.085 U	0.082 U	0.87 U	
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.085 U	14	0.087 U	23	0.082	0.059 J	0.085 U	0.082 U	11	
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.2 U	0.043 U	0.043 U	0.084 U	0.04 U	0.042 U	0.041 U	0.043 U	
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
1,3-Dichlorobenzene	61	10000	10000		0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	8.1 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U	1.6 U	1.7 U	
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.4 U	0.086 U	0.086 U	0.17 U	0.08 U	0.084 U	0.082 U	0.087 U	
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.4 U	0.086 U	0.086 U	0.17 U	0.08 U	0.084 U	0.082 U	0.087 U	
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2-Chlorophenol	4.4	920	1100	5100	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	2 U	0.43 U	0.088 J	0.04 J	0.04 J	0.04 J	0.41 U	0.43 U	
2-Methylphenol	510	10000	10000	31000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
2-Nitroaniline	0.58	160	190000	1800	0.85 U	4 U	0.86 U	0.86 U	1.7 U	0.8 U	0.84 U	0.82 U	0.87 U	
2-Nitrophenol	82	22000	190000		0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	4 U	0.86 U	0.86 U	1.7 U	0.8 U	0.84 U	0.82 U	0.87 U	
3-Nitroaniline	0.58	160	190000		0.85 U	4 U	0.86 U	0.86 U	1.7 U	0.8 U	0.84 U	0.82 U	0.87 U	
4,6-Dinitro-2-Methylphenol				62	1.7 U	8.1 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U	1.6 U	1.7 U	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-046 2 - 4 2/12/2004	*WPL-SB-047 0 - 2 2/12/2004	WPL-SB-047 2 - 4 2/12/2004	*WPL-SB-048 0 - 2 2/12/2004	WPL-SB-048 2 - 4 2/12/2004	*WPL-SB-049 0 - 2 2/5/2004	WPL-SB-049 2 - 4 2/5/2004	WPL-SB-049 11 - 13 2/5/2004	WPL-SB-051 0 - 2 3/10/2004	WPL-SB-051 5 - 7 3/10/2004
4-Bromophenyl phenyl ether					0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
4-Chloroaniline	52	11000	190000	8.6	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
4-Chlorodiphenyl Ether					0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
4-Nitroaniline	0.58	160	190000	86	0.85 U	4 U	0.86 U	0.86 U	1.7 U	0.8 U	0.84 U	0.82 U	0.87 U	
4-Nitrophenol	6	22000	190000		1.7 U	8.1 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U	1.6 U	1.7 U	
Acenaphthene	4700	170000	190000	33000	0.42 U	0.39 J	0.43 U	0.12 J	0.84 U	0.13 J	0.42 U	0.41 U	0.43 U	
Acenaphthylene	6900	170000	190000	33000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.03 J	0.42 U	0.41 U	0.43 U	
Anthracene	350	190000	190000	170000	0.42 U	1 J	0.43 U	0.3 J	0.18 J	0.22 J	0.42 U	0.41 U	0.43 U	
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	2.1	0.043 U	0.61	0.21	0.61	0.011 J	0.041 U	0.043 U	
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	2.2	0.043 U	0.72	0.16	0.57	0.01 J	0.041 U	0.043 U	
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	1.7	0.043 U	0.62	0.14	0.52	0.012 J	0.041 U	0.043 U	
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	2.7	0.43 U	0.86	0.087 J	0.34 J	0.42 U	0.41 U	0.43 U	
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	2.1	0.043 U	0.66	0.17	0.59	0.042 U	0.041 U	0.043 U	
Bis(2-Chloroethoxy) Methane				1800	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.2 U	0.043 U	0.043 U	0.084 U	0.04 U	0.042 U	0.041 U	0.043 U	
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	2 U	0.43 U	0.098 J	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Carbazole	83	4000	190000		0.42 U	0.39 J	0.43 U	0.16 J	0.076 J	0.1 J	0.42 U	0.41 U	0.43 U	
Chrysene	230	11000	190000	210	0.42 U	2.4	0.02 J	0.74	0.21 J	0.73	0.03 J	0.41 U	0.43 U	
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.87	0.043 U	0.29	0.084 U	0.073	0.042 U	0.041 U	0.043 U	
Dibenzofuran					0.42 U	0.2 J	0.43 U	0.1 J	0.84 U	0.033 J	0.42 U	0.41 U	0.43 U	
Diethylphthalate	500	10000	10000	490000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Dimethylphthalate					0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Di-n-octylphthalate	10000	10000	10000		0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Fluoranthene	3200	110000	190000	22000	0.42 U	3.1	0.43 U	1.2	0.46 J	1.3	0.018 J	0.41 U	0.43 U	
Fluorene	3800	110000	190000	22000	0.42 U	0.33 J	0.43 U	0.082 J	0.1 J	0.11 J	0.42 U	0.41 U	0.43 U	
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.2 U	0.043 U	0.043 U	0.084 U	0.04 U	0.042 U	0.041 U	0.043 U	
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.4 U	0.086 U	0.086 U	0.17 U	0.08 U	0.084 U	0.082 U	0.087 U	
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.2 U	0.043 U	0.043 U	0.084 U	0.04 U	0.042 U	0.041 U	0.043 U	
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	1.9	0.043 U	0.73	0.086	0.33	0.042 U	0.041 U	0.043 U	
Isophorone	10	10000	10000	1800	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Naphthalene	25	56000	190000	20	0.42 U	2 U	0.43 U	0.12 J	0.84 U	0.029 J	0.023 J	0.41 U	0.43 U	
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.2 U	0.043 U	0.043 U	0.084 U	0.04 U	0.042 U	0.041 U	0.043 U	
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.2 U	0.043 U	0.043 U	0.084 U	0.04 U	0.042 U	0.041 U	0.043 U	
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Pentachlorophenol	5	660	190000	9	1.7 U	8.1 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U	1.6 U	1.7 U	
Phenanthrene	10000	190000	190000		0.42 U	3.3	0.43 U	1.1	0.56 J	0.95	0.042 J	0.41 U	0.048 J	
Phenol	400	190000	190000	180000	0.42 U	2 U	0.43 U	0.43 U	0.84 U	0.4 U	0.42 U	0.41 U	0.43 U	
Pyrene	2200	84000	190000	17000	0.42 U	4.4	0.43 U	1.2	0.39 J	1.2	0.019 J	0.41 U	0.43 U	
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24		0.0001 mg/l U								
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6		0.018 mg/l U								
Barium	8200	190000	190000	190000		2.5 mg/l								

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-046 2 - 4 2/12/2004	*WPL-SB-047 0 - 2 2/12/2004	WPL-SB-047 2 - 4 2/12/2004	*WPL-SB-048 0 - 2 2/12/2004	WPL-SB-048 2 - 4 2/12/2004	*WPL-SB-049 0 - 2 2/5/2004	WPL-SB-049 2 - 4 2/5/2004	WPL-SB-049 11 - 13 2/5/2004	WPL-SB-051 0 - 2 3/10/2004	WPL-SB-051 5 - 7 3/10/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800		0.08 mg/l								
Chromium				1400		0.006 mg/l B								
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800		0.6 mg/l								
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100		0.023 mg/l U								
Silver	84	14000	190000	5100		0.0055 mg/l U								
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100		0.002 mg/l U		0.002 mg/l U						
1,2-Dichloroethane	0.5	63	73	2.2		0.002 mg/l U		0.002 mg/l U						
2-Butanone	580	10000	10000	190000		0.005 mg/l U		0.005 mg/l U						
Benzene	0.5	210	240	5.6		0.001 mg/l U		0.001 mg/l U						
Carbon Tetrachloride	0.5	110	120	1.3		0.002 mg/l U		0.002 mg/l U						
Chlorobenzene	10	10000	10000	1500		0.005 mg/l U		0.005 mg/l U						
Chloroform	10	17	19	1.5		0.005 mg/l U		0.005 mg/l U						
Tetrachloroethene	0.5	1500	3300	2.7		0.0017 mg/l		0.001 mg/l U						
Trichloroethene	0.5	970	1100	14		0.0083 mg/l		0.0087 mg/l						
Vinyl Chloride	0.2	53	220	1.7		0.005 mg/l U		0.005 mg/l U						
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.11 U	0.0012 U	0.11 U	0.0011 U	0.001 U	0.0011 U	0.11 U	4.8 U	0.11 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.32 U	0.0036 U	0.33 U	0.0034 U	0.003 U	0.0032 U	0.32 U	14 U	0.34 U
1,1-Dichloroethane	11	1000	1200	17	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.22 U	0.0024 U	0.22 U	0.0023 U	0.002 U	0.0021 U	0.22 U	9.6 U	0.22 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.22 U	0.0024 U	0.22 U	0.0023 U	0.002 U	0.0021 U	0.22 U	9.6 U	0.22 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.11 U	0.0012 U	0.11 U	0.0011 U	0.001 U	0.0011 U	0.11 U	4.8 U	0.11 U
1,4-Dioxane	2.4	210	240	160	1.1 U	110 U	1.2 U	110 U	1.1 U	1 U	1.1 U	110 U	4800 U	110 U
2-Butanone	580	10000	10000	190000	0.032	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
2-Hexanone					0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Acetone	1000	10000	10000	610000	0.17	0.54 U	0.059	0.55 U	0.036	0.047	0.026	0.54 U	24 U	0.56 U
Acrylonitrile	0.27	24	28	1.2	0.056 U	5.4 U	0.06 U	5.5 U	0.057 U	0.051 U	0.053 U	5.4 U	240 U	5.6 U
Benzene	0.5	210	240	5.6	0.0011 U	0.11 U	0.0012 U	0.11 U	0.0011 U	0.001 U	0.0011 U	0.11 U	4.8 U	0.11 U
Bromochloromethane	9	10000	10000		0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.11 U	0.0012 U	0.11 U	0.0011 U	0.001 U	0.0011 U	0.11 U	4.8 U	0.11 U
Bromoform	10	1500	1700	220	0.0045 U	0.43 U	0.0048 U	0.44 U	0.0046 U	0.0041 U	0.0042 U	0.43 U	19 U	0.45 U
Bromomethane	1	270	300	35	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Carbon Disulfide	410	10000	10000	3000	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.22 U	0.0024 U	0.22 U	0.0004 J	0.002 U	0.0021 U	0.22 U	9.6 U	0.22 U
Chlorobenzene	10	10000	10000	1500	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Chlorodibromomethane	10	61	70	3.4	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Chloroethane	90	10000	10000	62000	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Chloroform	10	17	19	1.5	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-046 2 - 4 2/12/2004	*WPL-SB-047 0 - 2 2/12/2004	WPL-SB-047 2 - 4 2/12/2004	*WPL-SB-048 0 - 2 2/12/2004	WPL-SB-048 2 - 4 2/12/2004	*WPL-SB-049 0 - 2 2/5/2004	WPL-SB-049 2 - 4 2/5/2004	WPL-SB-049 11 - 13 2/5/2004	WPL-SB-051 0 - 2 3/10/2004	WPL-SB-051 5 - 7 3/10/2004
Chloromethane	0.3	920	1000	510	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0056 U	0.082 J	0.0089	6	0.0054 J	0.0045 J	0.009	0.54 U	24 U	0.56 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Ethylbenzene	70	10000	10000	29	0.0045 U	0.43 U	0.0048 U	0.44 U	0.0046 U	0.0006 J	0.0006 J	0.43 U	19 U	0.45 U
Methyl tert-butyl ether	2	3200	3700	190	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Methylene chloride	0.5	3500	4000	54	0.0033 U	0.32 U	0.0036 U	0.33 U	0.0034 U	0.003 U	0.0032 U	0.32 U	14 U	0.34 U
Styrene	24	10000	10000	38000	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Tetrachloroethene	0.5	1500	3300	2.7	0.016	0.29	0.023	0.073 J	0.0011 U	0.15	0.064	0.13	550	12
Toluene	100	10000	10000	46000	0.0056 U	0.047 J	0.006 U	0.08 J	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0056 U	0.54 U	0.0004 J	0.34 J	0.0004 J	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Trichloroethene	0.5	970	1100	14	0.0011 U	1	0.022	13	0.0011 J	0.14	0.077	0.26	3.3 J	0.13
Vinyl Chloride	0.2	53	220	1.7	0.0056 U	0.54 U	0.006 U	0.55 U	0.0057 U	0.0051 U	0.0053 U	0.54 U	24 U	0.56 U
Xylenes (Total)	1000	10000	10000	2600	0.0056 U	0.22 J	0.006 U	0.55 U	0.0057 U	0.0025 J	0.0024 J	0.54 U	24 U	0.56 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-051 12 - 14 3/10/2004	*WPL-SB-052 0 - 2 3/10/2004	WPL-SB-052 5 - 7 3/10/2004	WPL-SB-052 12 - 14 3/10/2004	*WPL-SB-053 0 - 2 3/10/2004	WPL-SB-053 3 - 5 3/10/2004	WPL-SB-054 0 - 2 3/10/2004	WPL-SB-054 2 - 4 3/10/2004	*WPL-SB-055 0 - 2 3/10/2004	WPL-SB-055 5 - 7 3/10/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000		1.7			1.1		0.5 U		0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200		2 U			2 U		2 U		33.4	2 U
Mercury														
Mercury	10	840	190000	24		0.08			0.16		0.05		0.52	0.05
Metal														
Antimony	27	1100	190000	410		0.47 U			6.1		0.49 U		12.1	0.47 U
Arsenic	150	53	190000	1.6		17			6.5		6.3		9.2	5.7
Beryllium	320	5600	190000	2000		0.64			0.58		0.63		0.38	0.52
Cadmium	38	210	190000	800		92.8			6.1		2		12.6	0.17 B
Chromium				1400		11.8			155		33		321	32.5
Copper	36000	100000	190000	41000		19			241		28.1		675	81.2
Lead	450	1000	190000	800		32.4			395		35.4		668	44
Nickel	650	56000	190000	20000		7.1			30.7		13.4		67.9	15.2
Selenium	26	14000	190000	5100		1.2			0.89		0.83		2	0.91
Silver	84	14000	190000	5100		0.084 U			3.7		0.088 U		9.1	0.21 B
Thallium	14	200	190000	66		0.53 U			0.54 U		0.55 U		1.1 U	0.53 U
Zinc	12000	190000	190000	310000		87.8			1320		209		2380	111
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21		0.08 U			0.16 U	0.086 U	0.084 U	0.083 U	0.42 U	0.16 U
Arochlor-1221	2.5	160	10000	0.62		0.08 U			0.16 U	0.086 U	0.084 U	0.083 U	0.42 U	0.16 U
Arochlor-1232	2	160	10000	0.62		0.08 U			0.16 U	0.086 U	0.084 U	0.083 U	0.42 U	0.16 U
Arochlor-1242	62	160	10000	0.74		0.08 U			0.16 U	0.086 U	0.084 U	0.083 U	0.42 U	0.16 U
Arochlor-1248	67	44	10000	0.74		0.08 U			0.16 U	0.086 U	0.084 U	0.083 U	0.42 U	0.16 U
Arochlor-1254	280	44	10000	0.74		0.08 U			2.5	0.02 J	0.9	0.34	6	1.9
Arochlor-1260	1900	130	190000	0.74		0.08 U			0.96	0.086 U	0.084 U	0.083 U	0.42 U	0.16 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74		0.08 U			3.46	0.02 J	0.9	0.34	6	1.9
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400		0.04 U			0.081 U		0.042 U		0.042 U	0.2 U
1,2-Dichlorobenzene	60	10000	10000	10000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
1,3-Dichlorobenzene	61	10000	10000			0.4 U			0.81 U		0.42 U		0.42 U	2 U
1,4-Dichlorobenzene	10	3300	190000	13		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2,4,5-Trichlorophenol	6100	190000	190000	62000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2,4,6-Trichlorophenol	8.9	840	190000	160		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2,4-Dichlorophenol	2	8400	190000	1800		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2,4-Dimethylphenol	200	10000	10000	12000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2,4-Dinitrophenol	4.1	5600	190000	1200		1.6 U			3.2 U		1.7 U		1.7 U	8 U
2,4-Dinitrotoluene	0.84	260	190000	5.5		0.08 U			0.16 U		0.084 U		0.084 U	0.4 U
2,6-Dinitrotoluene	10	2800	190000	620		0.08 U			0.16 U		0.084 U		0.084 U	0.4 U
2-Chloronaphthalene	18000	190000	190000	82000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2-Chlorophenol	4.4	920	1100	5100		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2-Methylnaphthalene	8000	10000	10000	4100		0.02 J			0.28 J		0.024 J		0.11 J	3.6
2-Methylphenol	510	10000	10000	31000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
2-Nitroaniline	0.58	160	190000	1800		0.8 U			1.6 U		0.84 U		0.84 U	4 U
2-Nitrophenol	82	22000	190000			0.4 U			0.81 U		0.42 U		0.42 U	2 U
3,3'-Dichlorobenzidine	32	180	190000	3.8		0.8 U			1.6 U		0.84 U		0.84 U	4 U
3-Nitroaniline	0.58	160	190000			0.8 U			1.6 U		0.84 U		0.84 U	4 U
4,6-Dinitro-2-Methylphenol				62		1.6 U			3.2 U		1.7 U		1.7 U	8 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-051 12 - 14 3/10/2004	*WPL-SB-052 0 - 2 3/10/2004	WPL-SB-052 5 - 7 3/10/2004	WPL-SB-052 12 - 14 3/10/2004	*WPL-SB-053 0 - 2 3/10/2004	WPL-SB-053 3 - 5 3/10/2004	WPL-SB-054 0 - 2 3/10/2004	WPL-SB-054 2 - 4 3/10/2004	*WPL-SB-055 0 - 2 3/10/2004	WPL-SB-055 5 - 7 3/10/2004
4-Bromophenyl phenyl ether						0.4 U			0.81 U		0.42 U		0.42 U	2 U
4-Chloro-3-Methyl-Phenol	110	14000	190000			0.4 U			0.81 U		0.42 U		0.42 U	2 U
4-Chloroaniline	52	11000	190000	8.6		0.4 U			0.81 U		0.42 U		0.42 U	2 U
4-Chlorodiphenyl Ether						0.4 U			0.81 U		0.42 U		0.42 U	2 U
4-METHYLPHENOL	51	14000	190000	3100		0.4 U			0.13 J		0.42 U		0.067 J	2 U
4-Nitroaniline	0.58	160	190000	86		0.8 U			1.6 U		0.84 U		0.84 U	4 U
4-Nitrophenol	6	22000	190000			1.6 U			3.2 U		1.7 U		1.7 U	8 U
Acenaphthene	4700	170000	190000	33000		0.4 U			0.18 J		0.42 U		0.057 J	2 U
Acenaphthylene	6900	170000	190000	33000		0.021 J			0.11 J		0.42 U		0.098 J	2 U
Anthracene	350	190000	190000	170000		0.028 J			0.43 J		0.0096 J		0.25 J	2 U
Benzo (A) Anthracene	320	110	190000	2.1		0.083			1		0.018 J		0.89	0.2 U
Benzo (a) Pyrene	46	11	190000	0.21		0.1			1		0.031 J		1.6	0.2 U
Benzo (b) Fluoranthene	170	110	190000	2.1		0.086			1.1		0.023 J		1.5	0.2 U
Benzo (g,h,i) Perylene	180	170000	190000			0.053 J			0.61 J		0.42 U		0.71	2 U
Benzo (k) Fluoranthene	610	1100	190000	21		0.1			1.1		0.023 J		1.7	0.2 U
Bis(2-Chloroethoxy) Methane				1800		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9		0.04 U			0.081 U		0.042 U		0.042 U	0.2 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120		0.1 J			0.81 U		0.42 U		0.42 U	2 U
Butylbenzylphthalate	10000	10000	10000	910		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Carbazole	83	4000	190000			0.01 J			0.091 J		0.42 U		0.1 J	2 U
Chrysene	230	11000	190000	210		0.13 J			1.5		0.052 J		1.4	0.47 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21		0.04 U			0.22		0.042 U		0.26	0.2 U
Dibenzofuran						0.4 U			0.24 J		0.42 U		0.097 J	2 U
Diethylphthalate	500	10000	10000	490000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Dimethylphthalate						0.4 U			0.81 U		0.42 U		0.42 U	2 U
Di-n-Butylphthalate	4100	10000	10000	62000		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Di-n-octylphthalate	10000	10000	10000			0.4 U			0.81 U		0.42 U		0.42 U	2 U
Fluoranthene	3200	110000	190000	22000		0.17 J			2.8		0.035 J		1.8	0.62 J
Fluorene	3800	110000	190000	22000		0.4 U			0.26 J		0.42 U		0.061 J	0.58 J
Hexachlorobenzene	0.96	50	190000	1.1		0.04 U			0.081 U		0.042 U		0.042 U	0.2 U
Hexachlorobutadiene	1.2	560	10000	22		0.08 U			0.16 U		0.084 U		0.084 U	0.4 U
Hexachlorocyclopentadiene	91	10000	10000	3700		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Hexachloroethane	0.56	2800	190000	120		0.04 U			0.081 U		0.042 U		0.042 U	0.2 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1		0.055			0.56		0.042 U		0.68	0.2 U
Isophorone	10	10000	10000	1800		0.4 U			0.81 U		0.42 U		0.049 J	2 U
Naphthalene	25	56000	190000	20		0.4 U			0.28 J		0.42 U		0.22 J	1.9 J
Nitrobenzene	5.1	1400	10000	22		0.04 U			0.081 U		0.042 U		0.042 U	0.2 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25		0.04 U			0.081 U		0.042 U		0.042 U	0.2 U
N-Nitrosodiphenylamine	83	16000	190000	350		0.4 U			0.81 U		0.42 U		0.42 U	2 U
Pentachlorophenol	5	660	190000	9		1.6 U			3.2 U		0.083 J		1.7 U	8 U
Phenanthrene	10000	190000	190000			0.091 J			1.6		0.068 J		0.94	2.8
Phenol	400	190000	190000	180000		0.4 U			0.81 U		0.42 U		0.25 J	2 U
Pyrene	2200	84000	190000	17000		0.15 J			2.5		0.035 J		1.4	0.4 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24		0.0001 mg/l U							0.0001 mg/l U	
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410		0.0045 mg/l U							0.01 mg/l	
Arsenic	150	53	190000	1.6		0.0036 mg/l U							0.0036 mg/l U	
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-051 12 - 14 3/10/2004	*WPL-SB-052 0 - 2 3/10/2004	WPL-SB-052 5 - 7 3/10/2004	WPL-SB-052 12 - 14 3/10/2004	*WPL-SB-053 0 - 2 3/10/2004	WPL-SB-053 3 - 5 3/10/2004	WPL-SB-054 0 - 2 3/10/2004	WPL-SB-054 2 - 4 3/10/2004	*WPL-SB-055 0 - 2 3/10/2004	WPL-SB-055 5 - 7 3/10/2004
Beryllium	320	5600	190000	2000		0.0002 mg/l U							0.0002 mg/l U	
Cadmium	38	210	190000	800		0.0006 mg/l B							0.0004 mg/l U	
Chromium				1400		0.002 mg/l B							0.09 mg/l	
Copper	36000	100000	190000	41000		0.0027 mg/l U							0.02 mg/l B	
Lead	450	1000	190000	800		0.003 mg/l B							0.02 mg/l B	
Nickel	650	56000	190000	20000		0.0014 mg/l U							0.004 mg/l B	
Selenium	26	14000	190000	5100		0.0045 mg/l U							0.0045 mg/l U	
Silver	84	14000	190000	5100		0.001 mg/l B							0.0011 mg/l U	
Thallium	14	200	190000	66		0.0041 mg/l U							0.0041 mg/l U	
Zinc	12000	190000	190000	310000		0.0052 mg/l U							0.08 mg/l	
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100									0.002 mg/l U	0.002 mg/l U
1,2-Dichloroethane	0.5	63	73	2.2									0.002 mg/l U	0.002 mg/l U
2-Butanone	580	10000	10000	190000									0.005 mg/l U	0.005 mg/l U
Benzene	0.5	210	240	5.6									0.001 mg/l U	0.001 mg/l U
Carbon Tetrachloride	0.5	110	120	1.3									0.002 mg/l U	0.002 mg/l U
Chlorobenzene	10	10000	10000	1500									0.005 mg/l U	0.005 mg/l U
Chloroform	10	17	19	1.5									0.005 mg/l U	0.005 mg/l U
Tetrachloroethene	0.5	1500	3300	2.7									0.001 mg/l U	0.019 mg/l
Trichloroethene	0.5	970	1100	14									0.025 mg/l	0.027 mg/l
Vinyl Chloride	0.2	53	220	1.7									0.005 mg/l U	0.005 mg/l U
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.0011 U	0.0011 U	0.11 U	0.56 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0034 U	0.0031 U	0.0032 U	0.0032 U	0.0031 U	0.33 U	0.0032 U	0.0033 U	0.34 U	0.54 J
1,1-Dichloroethane	11	1000	1200	17	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
1,1-Dichloroethene	0.7	33	38	1100	0.0023 U	0.0021 U	0.0022 U	0.0022 U	0.0021 U	0.22 U	0.0022 U	0.0022 U	0.23 U	1.1 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0023 U	0.0021 U	0.0022 U	0.0022 U	0.0021 U	0.22 U	0.0022 U	0.0022 U	0.23 U	1.1 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.0011 U	0.0011 U	0.11 U	0.56 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1 U	1.1 U	1.1 U	1 U	110 U	1.1 U	1.1 U	110 U	560 U
2-Butanone	580	10000	10000	190000	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.017	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
2-Hexanone					0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Acetone	1000	10000	10000	610000	0.0057 U	0.024	0.0054 U	0.0054 U	0.038	0.56 U	0.028	0.041	0.56 U	2.8 U
Acrylonitrile	0.27	24	28	1.2	0.057 U	0.052 U	0.054 U	0.054 U	0.052 U	5.6 U	0.054 U	0.054 U	5.6 U	28 U
Benzene	0.5	210	240	5.6	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0005 J	0.11 U	0.0011 U	0.0011 U	0.11 U	0.56 U
Bromochloromethane	9	10000	10000		0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.0011 U	0.0011 U	0.11 U	0.56 U
Bromoform	10	1500	1700	220	0.0046 U	0.0042 U	0.0043 U	0.0043 U	0.0042 U	0.44 U	0.0043 U	0.0043 U	0.45 U	2.2 U
Bromomethane	1	270	300	35	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Carbon Disulfide	410	10000	10000	3000	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0023 U	0.0021 U	0.0022 U	0.0022 U	0.0021 U	0.22 U	0.0022 U	0.0022 U	0.23 U	1.1 U
Chlorobenzene	10	10000	10000	1500	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Chlorodibromomethane	10	61	70	3.4	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Chloroethane	90	10000	10000	62000	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Chloroform	10	17	19	1.5	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-051 12 - 14 3/10/2004	*WPL-SB-052 0 - 2 3/10/2004	WPL-SB-052 5 - 7 3/10/2004	WPL-SB-052 12 - 14 3/10/2004	*WPL-SB-053 0 - 2 3/10/2004	WPL-SB-053 3 - 5 3/10/2004	WPL-SB-054 0 - 2 3/10/2004	WPL-SB-054 2 - 4 3/10/2004	*WPL-SB-055 0 - 2 3/10/2004	WPL-SB-055 5 - 7 3/10/2004
Chloromethane	0.3	920	1000	510	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0057 U	0.0052 U	0.0054 U	0.0047 J	0.096	0.56 U	0.0054 U	0.0054 U	5.2	40
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Ethylbenzene	70	10000	10000	29	0.0046 U	0.0042 U	0.0043 U	0.0043 U	0.0042 U	0.44 U	0.0043 U	0.0043 U	0.45 U	2.2 U
Methyl tert-butyl ether	2	3200	3700	190	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Methylene chloride	0.5	3500	4000	54	0.0007 JB	0.0006 JB	0.0008 JB	0.0008 JB	0.0006 JB	0.33 U	0.0008 JB	0.0008 JB	0.34 U	1.7 U
Styrene	24	10000	10000	38000	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Tetrachloroethene	0.5	1500	3300	2.7	0.02	0.028	0.059	0.076	0.001 J	0.31	0.021	0.033	0.11 U	14
Toluene	100	10000	10000	46000	0.0057 U	0.0011 J	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0017 J	0.56 U	0.0054 U	0.0054 U	0.15 J	2.8 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Trichloroethene	0.5	970	1100	14	0.0021	0.0007 J	0.015	0.039	0.12	0.11 J	0.0064	0.014	2.1	77
Vinyl Chloride	0.2	53	220	1.7	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.56 U	2.8 U
Xylenes (Total)	1000	10000	10000	2600	0.0057 U	0.0052 U	0.0054 U	0.0054 U	0.0052 U	0.56 U	0.0054 U	0.0054 U	0.088 J	1.4 J

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-055 Dup 5 - 7 3/10/2004	WPL-SB-055 13 - 14 3/10/2004	*WPL-SB-056 0 - 2 3/10/2004	WPL-SB-056 3 - 5 3/10/2004	*WPL-SB-057 0 - 2 3/10/2004	WPL-SB-057 3 - 4 3/10/2004	*WPL-SB-058 0 - 2 3/10/2004	WPL-SB-058 5 - 7 3/10/2004	WPL-SB-059 2 - 4 3/11/2004	WPL-SB-059 7 - 9 3/11/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U		0.5 U	0.5 U	2.1		0.5 U	0.5 U	0.59	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U		512	2 U	22.4		2.6	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.04 B		0.69	0.03 B	1.2		0.32	0.04	0.07	0.021 U
Metal														
Antimony	27	1100	190000	410	0.48 U		11.5	0.49 U	21.6		3	0.51 U	38.7	0.74 U
Arsenic	150	53	190000	1.6	6.5		11.2	5.7	10.8		6.4	5.6	6.2	4.3
Beryllium	320	5600	190000	2000	0.56		0.56	0.55	0.53		1.1	0.51	0.56	0.46
Cadmium	38	210	190000	800	0.18 B		12.2	0.051 U	11.5		2.8	0.052 U	1.4	0.051 U
Chromium				1400	26.3		544	20.7	490		56.6	26.4	233	16.5
Copper	36000	100000	190000	41000	40.4		1750	19.7	800		100	32.4	632	16.3
Lead	450	1000	190000	800	31.8		460	17.9	1300		265	35.6	2570	9.9
Nickel	650	56000	190000	20000	14.8		114	13.6	91.1		16.4	12	876	13.8
Selenium	26	14000	190000	5100	1		1.8	0.51 B	1.7		1.3	0.64	0.48 U	0.54 U
Silver	84	14000	190000	5100	0.085 U		7.5	0.089 U	14.3		3.2	0.091 U	3	0.18 U
Thallium	14	200	190000	66	0.54 U		1.1 U	0.56 U	1.1 U		0.57 U	0.57 U	0.54 U	0.6 U
Zinc	12000	190000	190000	310000	99.4		2350	39.7	2720		390	74.2	815	42.7
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.16 U		4.2 U	0.085 U	1.6 U		0.17 U	0.087 U	0.077 U	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.16 U		4.2 U	0.085 U	1.6 U		0.17 U	0.087 U	0.077 U	0.085 U
Arochlor-1232	2	160	10000	0.62	0.16 U		4.2 U	0.085 U	1.6 U		0.17 U	0.087 U	0.077 U	0.085 U
Arochlor-1242	62	160	10000	0.74	0.16 U		4.2 U	0.085 U	1.6 U		0.17 U	0.087 U	0.077 U	0.085 U
Arochlor-1248	67	44	10000	0.74	0.16 U		4.2 U	0.085 U	1.6 U		0.17 U	0.087 U	0.077 U	0.085 U
Arochlor-1254	280	44	10000	0.74	2		61	0.022 J	20		1.4	0.25	0.85	0.085 U
Arochlor-1260	1900	130	190000	0.74	0.16 U		4.2 U	0.085 U	5.8		0.17 U	0.087 U	0.33	0.085 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	2		61	0.022 J	25.8		1.4	0.25	1.18	0.085 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.2 U		0.21 U	0.042 U	0.041 U		0.043 U	0.044 U	0.038 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	8.1 U		8.5 U	1.7 U	1.6 U		1.7 U	1.7 U	1.5 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.41 U		0.42 U	0.085 U	0.082 U		0.086 U	0.087 U	0.077 U	0.085 U
2,6-Dinitrotoluene	10	2800	190000	620	0.41 U		0.42 U	0.085 U	0.082 U		0.086 U	0.087 U	0.077 U	0.085 U
2-Chloronaphthalene	18000	190000	190000	82000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	5.7		0.19 J	0.42 U	0.026 J		0.14 J	0.44 U	0.04 J	0.42 U
2-Methylphenol	510	10000	10000	31000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	4.1 U		4.2 U	0.85 U	0.82 U		0.86 U	0.87 U	0.77 U	0.85 U
2-Nitrophenol	82	22000	190000		2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	4.1 U		4.2 U	0.85 U	0.82 U		0.86 U	0.87 U	0.77 U	0.85 U
3-Nitroaniline	0.58	160	190000		4.1 U		4.2 U	0.85 U	0.82 U		0.86 U	0.87 U	0.77 U	0.85 U
4,6-Dinitro-2-Methylphenol				62	8.1 U		8.5 U	1.7 U	1.6 U		1.7 U	1.7 U	1.5 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-055 Dup 5 - 7 3/10/2004	WPL-SB-055 13 - 14 3/10/2004	*WPL-SB-056 0 - 2 3/10/2004	WPL-SB-056 3 - 5 3/10/2004	*WPL-SB-057 0 - 2 3/10/2004	WPL-SB-057 3 - 4 3/10/2004	*WPL-SB-058 0 - 2 3/10/2004	WPL-SB-058 5 - 7 3/10/2004	WPL-SB-059 2 - 4 3/11/2004	WPL-SB-059 7 - 9 3/11/2004
4-Bromophenyl phenyl ether					2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
4-Chlorodiphenyl Ether					2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	2 U		0.22 J	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	4.1 U		4.2 U	0.85 U	0.82 U		0.86 U	0.87 U	0.77 U	0.85 U
4-Nitrophenol	6	22000	190000		8.1 U		8.5 U	1.7 U	1.6 U		1.7 U	1.7 U	1.5 U	1.7 U
Acenaphthene	4700	170000	190000	33000	2 U		0.41 J	0.42 U	0.0093 J		0.58	0.011 J	0.048 J	0.42 U
Acenaphthylene	6900	170000	190000	33000	2 U		2.1 U	0.42 U	0.075 J		0.23 J	0.44 U	0.39	0.42 U
Anthracene	350	190000	190000	170000	2 U		0.45 J	0.0096 J	0.083 J		1.4	0.025 J	0.3 J	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.2 U		0.97	0.019 J	0.26		3.7	0.052	0.72	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.12 J		0.96	0.042 U	0.39		4.1	0.044 U	0.88	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.13 J		1	0.042 U	0.56		4.6	0.044 U	0.85	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		2 U		0.43 J	0.42 U	0.19 J		0.87	0.44 U	0.43	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.2 U		1.2	0.042 U	0.49		5.2	0.044 U	0.95	0.042 U
Bis(2-Chloroethoxy) Methane				1800	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.2 U		0.21 U	0.042 U	0.041 U		0.043 U	0.044 U	0.038 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	1.3 J		2.1 U	0.4 J	0.12 J		0.43 U	0.44 U	0.26 J	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Carbazole	83	4000	190000		2 U		0.19 J	0.42 U	0.028 J		0.68	0.44 U	0.044 J	0.42 U
Chrysene	230	11000	190000	210	2 U		1.6 J	0.016 J	0.44		4.8	0.058 J	0.93	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.2 U		0.21 U	0.042 U	0.041 U		0.39	0.044 U	0.18	0.042 U
Dibenzofuran					2 U		0.19 J	0.42 U	0.41 U		0.3 J	0.44 U	0.051 J	0.42 U
Diethylphthalate	500	10000	10000	490000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Dimethylphthalate					2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.61 J		2.2	0.041 J	0.43		7.6	0.11 J	1.2	0.42 U
Fluorene	3800	110000	190000	22000	0.75 J		0.17 J	0.42 U	0.41 U		0.48	0.44 U	0.038 J	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.2 U		0.21 U	0.042 U	0.041 U		0.043 U	0.044 U	0.038 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.41 U		0.42 U	0.085 U	0.082 U		0.086 U	0.087 U	0.077 U	0.085 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.2 U		0.21 U	0.042 U	0.041 U		0.043 U	0.044 U	0.038 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.2 U		0.58	0.042 U	0.2		1.1	0.044 U	0.5	0.042 U
Isophorone	10	10000	10000	1800	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Naphthalene	25	56000	190000	20	2.4		0.31 J	0.42 U	0.41 U		0.24 J	0.44 U	0.062 J	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.2 U		0.21 U	0.042 U	0.041 U		0.043 U	0.044 U	0.038 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.2 U		0.21 U	0.042 U	0.041 U		0.043 U	0.044 U	0.038 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Pentachlorophenol	5	660	190000	9	8.1 U		8.5 U	1.7 U	1.6 U		1.7 U	1.7 U	1.5 U	1.7 U
Phenanthrene	10000	190000	190000		3.4		1.9 J	0.041 J	0.16 J		4.7	0.09 J	0.29 J	0.42 U
Phenol	400	190000	190000	180000	2 U		2.1 U	0.42 U	0.41 U		0.43 U	0.44 U	0.38 U	0.42 U
Pyrene	2200	84000	190000	17000	0.4 J		1.9 J	0.034 J	0.39 J		8.3	0.1 J	1.2	0.42 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24			0.0001 mg/l U		0.0001 mg/l U				0.0001 mg/l U	
Nickel	650	56000	190000	20000									0.003 mg/l B	
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410			0.009 mg/l B		0.007 mg/l B				0.0045 mg/l U	
Arsenic	150	53	190000	1.6			0.0036 mg/l U		0.0036 mg/l U				0.0036 mg/l U	
Barium	8200	190000	190000	190000									0.26 mg/l	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-055 Dup 5 - 7 3/10/2004	WPL-SB-055 13 - 14 3/10/2004	*WPL-SB-056 0 - 2 3/10/2004	WPL-SB-056 3 - 5 3/10/2004	*WPL-SB-057 0 - 2 3/10/2004	WPL-SB-057 3 - 4 3/10/2004	*WPL-SB-058 0 - 2 3/10/2004	WPL-SB-058 5 - 7 3/10/2004	WPL-SB-059 2 - 4 3/11/2004	WPL-SB-059 7 - 9 3/11/2004
Beryllium	320	5600	190000	2000			0.0002 mg/l U		0.0002 mg/l U				0.0002 mg/l U	
Cadmium	38	210	190000	800			0.0004 mg/l U		0.0004 mg/l U				0.0004 mg/l U	
Chromium				1400			0.02 mg/l		0.02 mg/l				0.03 mg/l	
Copper	36000	100000	190000	41000			0.005 mg/l B		0.01 mg/l B				0.003 mg/l B	
Lead	450	1000	190000	800			0.005 mg/l B		0.006 mg/l B				0.002 mg/l B	
Nickel	650	56000	190000	20000			0.0014 mg/l U		0.003 mg/l B					
Selenium	26	14000	190000	5100			0.0045 mg/l U		0.0045 mg/l U				0.0045 mg/l U	
Silver	84	14000	190000	5100			0.0011 mg/l U		0.0011 mg/l U				0.0011 mg/l U	
Thallium	14	200	190000	66			0.0041 mg/l U		0.0041 mg/l U				0.0041 mg/l U	
Zinc	12000	190000	190000	310000			0.02 mg/l B		0.03 mg/l B				0.01 mg/l B	
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100							0.002 mg/l U			
1,2-Dichloroethane	0.5	63	73	2.2							0.002 mg/l U			
2-Butanone	580	10000	10000	190000							0.005 mg/l U			
Benzene	0.5	210	240	5.6							0.001 mg/l U			
Carbon Tetrachloride	0.5	110	120	1.3							0.002 mg/l U			
Chlorobenzene	10	10000	10000	1500							0.005 mg/l U			
Chloroform	10	17	19	1.5							0.005 mg/l U			
Tetrachloroethene	0.5	1500	3300	2.7							0.0017 mg/l			
Trichloroethene	0.5	970	1100	14							0.013 mg/l			
Vinyl Chloride	0.2	53	220	1.7							0.005 mg/l U			
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
1,1,1-Trichloroethane	20	10000	10000	39000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.6 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.11 U	0.0012 U	0.001 U	0.0009 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.46 J	0.0033 U	0.0036 U	0.0036 U	0.0035 U	0.0033 U	0.21 J	0.0037 U	0.003 U	0.0027 U
1,1-Dichloroethane	11	1000	1200	17	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
1,1-Dichloroethene	0.7	33	38	1100	1.2 U	0.0022 U	0.0024 U	0.0024 U	0.0024 U	0.0022 U	0.22 U	0.0025 U	0.002 U	0.0018 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
1,2-Dichloroethane	0.5	63	73	2.2	1.2 U	0.0022 U	0.0024 U	0.0024 U	0.0024 U	0.0022 U	0.22 U	0.0025 U	0.002 U	0.0018 U
1,2-Dichloropropane	0.5	160	180	4.7	0.6 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.11 U	0.0012 U	0.001 U	0.0009 U
1,4-Dioxane	2.4	210	240	160	600 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	110 U	1.2 U	0.99 U	0.91 U
2-Butanone	580	10000	10000	190000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
2-Hexanone					3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
4-Methyl-2-Pentanone	41	4300	4900	52000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Acetone	1000	10000	10000	610000	3 U	0.0055 U	0.029	0.024	0.028	0.023	0.55 U	0.0062 U	0.0049 U	0.0046 U
Acrylonitrile	0.27	24	28	1.2	30 U	0.055 U	0.059 U	0.061 U	0.059 U	0.055 U	5.5 U	0.062 U	0.049 U	0.046 U
Benzene	0.5	210	240	5.6	0.6 U	0.0011 U	0.0012 U	0.0012 U	0.0021	0.0011 U	0.11 U	0.0012 U	0.001 U	0.0009 U
Bromochloromethane	9	10000	10000		3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Bromodichloromethane	10	45	51	1.4	0.6 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.11 U	0.0012 U	0.001 U	0.0009 U
Bromoform	10	1500	1700	220	2.4 U	0.0044 U	0.0048 U	0.0049 U	0.0047 U	0.0044 U	0.44 U	0.005 U	0.004 U	0.0036 U
Bromomethane	1	270	300	35	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Carbon Disulfide	410	10000	10000	3000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Carbon Tetrachloride	0.5	110	120	1.3	1.2 U	0.0022 U	0.0024 U	0.0024 U	0.0024 U	0.0022 U	0.22 U	0.0025 U	0.002 U	0.0018 U
Chlorobenzene	10	10000	10000	1500	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Chlorodibromomethane	10	61	70	3.4	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Chloroethane	90	10000	10000	62000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Chloroform	10	17	19	1.5	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-055 Dup 5 - 7 3/10/2004	WPL-SB-055 13 - 14 3/10/2004	*WPL-SB-056 0 - 2 3/10/2004	WPL-SB-056 3 - 5 3/10/2004	*WPL-SB-057 0 - 2 3/10/2004	WPL-SB-057 3 - 4 3/10/2004	*WPL-SB-058 0 - 2 3/10/2004	WPL-SB-058 5 - 7 3/10/2004	WPL-SB-059 2 - 4 3/11/2004	WPL-SB-059 7 - 9 3/11/2004
Chloromethane	0.3	920	1000	510	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
cis-1,2-Dichloroethene	7	1900	2100	10000	28	0.0066	0.014	0.0059 J	0.003 J	0.0055 U	0.77	0.0043 J	0.0011 J	0.0046 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Ethylbenzene	70	10000	10000	29	2.4 U	0.0044 U	0.0048 U	0.0049 U	0.0047 U	0.0044 U	0.44 U	0.005 U	0.004 U	0.0036 U
Methyl tert-butyl ether	2	3200	3700	190	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Methylene chloride	0.5	3500	4000	54	1.8 U	0.001 JB	0.0008 JB	0.001 JB	0.0012 JB	0.0009 JB	0.33 U	0.0015 JB	0.0009 JB	0.0027 U
Styrene	24	10000	10000	38000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Tetrachloroethene	0.5	1500	3300	2.7	13	0.0014	0.0011 J	0.011	0.1	0.059	4.6	0.0029	0.001 U	0.0009 U
Toluene	100	10000	10000	46000	3 U	0.0055 U	0.0059 U	0.0061 U	0.0016 J	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
trans-1,2-Dichloroethene	10	3700	4300	500	3 U	0.0055 U	0.0017 J	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Trichloroethene	0.5	970	1100	14	70	0.0096	0.03	0.025	0.03	0.0052	16	0.022	0.0044	0.0009 U
Vinyl Chloride	0.2	53	220	1.7	3 U	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U
Xylenes (Total)	1000	10000	10000	2600	1.1 J	0.0055 U	0.0059 U	0.0061 U	0.0059 U	0.0055 U	0.55 U	0.0062 U	0.0049 U	0.0046 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-060 0 - 2 3/10/2004	WPL-SB-060 2 - 4 3/10/2004	WPL-SB-061 4 - 6 3/11/2004	WPL-SB-061 6 - 8 3/11/2004	WPL-SB-062 2 - 4 3/11/2004	WPL-SB-062 6 - 8 3/11/2004	WPL-SB-063 0 - 2 3/10/2004	WPL-SB-063 5 - 7 3/10/2004	WPL-SB-064 0 - 2 3/12/2004	WPL-SB-064 5 - 7 3/12/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.72
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	86.9
Mercury														
Mercury	10	840	190000	24	0.03	0.06	0.21	0.03 B	0.05	0.03 B	0.06	0.04 B	0.22	0.03 B
Metal														
Antimony	27	1100	190000	410	0.45 U	0.5 U	33.4	1.7	0.91 B	0.75 U	0.46 U	0.51 U	0.47 U	0.86 B
Arsenic	150	53	190000	1.6	9.7	5.4	9.9	2.3	6.2	4.5	5.5	5	5.1	4.8
Beryllium	320	5600	190000	2000	0.47	0.78	0.42 B	0.53	0.76	0.49	0.58	0.48	0.55	0.47
Cadmium	38	210	190000	800	0.62	0.052 U	4.9	0.052 U	0.05 U	0.052 U	0.047 U	0.052 U	0.21 B	0.33 B
Chromium				1400	55.9	15.9	146	21.8	19.6	18	13.2	19.2	35.3	458
Copper	36000	100000	190000	41000	71.4	12.2	2540	33	8.8	17.6	12.3	19.9	15.3	36.6
Lead	450	1000	190000	800	42.7	14.9	760	24.1	15.3	9.6	17.6	9.8	25.3	24.7
Nickel	650	56000	190000	20000	17.6	10.7	98.3	14.7	8.6	13.1	7.8	11.6	19.5	19.6
Selenium	26	14000	190000	5100	0.83	0.57 B	0.5 U	0.55 U	0.52 U	0.54 U	0.72	0.64	0.47 U	0.5 U
Silver	84	14000	190000	5100	0.081 U	0.091 U	15.2	0.39 B	0.17 U	0.18 U	0.082 U	0.092 U	0.085 U	1.1 B
Thallium	14	200	190000	66	0.51 U	0.57 U	0.56 U	0.61 U	0.58 U	0.61 U	0.51 U	0.58 U	0.53 U	0.56 U
Zinc	12000	190000	190000	310000	171	39.3	2500	78.7	30.9	43.7	29.1	38	52.2	128
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.077 U	0.087 U	0.16 U	0.087 U	0.083 U	0.087 U	0.078 U	0.088 U	0.081 U	0.17 U
Arochlor-1221	2.5	160	10000	0.62	0.077 U	0.087 U	0.16 U	0.087 U	0.083 U	0.087 U	0.078 U	0.088 U	0.081 U	0.17 U
Arochlor-1232	2	160	10000	0.62	0.077 U	0.087 U	0.16 U	0.087 U	0.083 U	0.087 U	0.078 U	0.088 U	0.081 U	0.17 U
Arochlor-1242	62	160	10000	0.74	0.077 U	0.087 U	0.16 U	0.087 U	0.083 U	0.087 U	0.078 U	0.088 U	0.081 U	0.17 U
Arochlor-1248	67	44	10000	0.74	0.077 U	0.087 U	0.16 U	0.087 U	0.083 U	0.087 U	0.078 U	0.088 U	0.081 U	0.17 U
Arochlor-1254	280	44	10000	0.74	0.063 J	0.087 U	2.6	0.44	0.083 U	0.087 U	0.078 U	0.088 U	0.056 P*	1.5
Arochlor-1260	1900	130	190000	0.74	0.13	0.087 U	0.7	0.13	0.083 U	0.087 U	0.078 U	0.088 U	0.048 J	0.64
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.13	0.087 U	3.3	0.57	0.083 U	0.087 U	0.078 U	0.088 U	0.104	2.14
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.038 U	0.043 U	0.04 U	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.04 U	0.42 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
1,3-Dichlorobenzene	61	10000	10000		0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
1,4-Dichlorobenzene	10	3300	190000	13	0.38 U	0.43 U	0.079 J	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2,4-Dichlorophenol	2	8400	190000	1800	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2,4-Dimethylphenol	200	10000	10000	12000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	17 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.077 U	0.086 U	0.079 U	0.087 U	0.083 U	0.086 U	0.078 U	0.087 U	0.081 U	0.85 U
2,6-Dinitrotoluene	10	2800	190000	620	0.077 U	0.086 U	0.079 U	0.087 U	0.083 U	0.086 U	0.078 U	0.087 U	0.081 U	0.85 U
2-Chloronaphthalene	18000	190000	190000	82000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2-Chlorophenol	4.4	920	1100	5100	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2-Methylnaphthalene	8000	10000	10000	4100	0.018 J	0.43 U	0.63	0.43 U	0.41 U	0.43 U	0.021 J	0.44 U	0.77	13
2-Methylphenol	510	10000	10000	31000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
2-Nitroaniline	0.58	160	190000	1800	0.77 U	0.86 U	0.79 U	0.87 U	0.83 U	0.86 U	0.78 U	0.87 U	0.81 U	8.5 U
2-Nitrophenol	82	22000	190000		0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.77 U	0.86 U	0.79 U	0.87 U	0.83 U	0.86 U	0.78 U	0.87 U	0.81 U	8.5 U
3-Nitroaniline	0.58	160	190000		0.77 U	0.86 U	0.79 U	0.87 U	0.83 U	0.86 U	0.78 U	0.87 U	0.81 U	8.5 U
4,6-Dinitro-2-Methylphenol				62	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	17 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-060 0 - 2 3/10/2004	WPL-SB-060 2 - 4 3/10/2004	WPL-SB-061 4 - 6 3/11/2004	WPL-SB-061 6 - 8 3/11/2004	WPL-SB-062 2 - 4 3/11/2004	WPL-SB-062 6 - 8 3/11/2004	WPL-SB-063 0 - 2 3/10/2004	WPL-SB-063 5 - 7 3/10/2004	WPL-SB-064 0 - 2 3/12/2004	WPL-SB-064 5 - 7 3/12/2004
4-Bromophenyl phenyl ether					0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
4-Chloroaniline	52	11000	190000	8.6	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
4-Chlorodiphenyl Ether					0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
4-METHYLPHENOL	51	14000	190000	3100	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.26 J	4.2 U
4-Nitroaniline	0.58	160	190000	86	0.77 U	0.86 U	0.79 U	0.87 U	0.83 U	0.86 U	0.78 U	0.87 U	0.81 U	8.5 U
4-Nitrophenol	6	22000	190000		1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	17 U
Acenaphthene	4700	170000	190000	33000	0.38 U	0.43 U	0.77	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.78	1.5 J
Acenaphthylene	6900	170000	190000	33000	0.38 U	0.43 U	0.36 J	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.023 J	4.2 U
Anthracene	350	190000	190000	170000	0.38 U	0.43 U	1.2	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.22 J	1.3 J
Benzo (A) Anthracene	320	110	190000	2.1	0.036 J	0.043 U	1.8	0.043 U	0.041 U	0.043 U	0.018 J	0.044 U	0.23	1.3
Benzo (a) Pyrene	46	11	190000	0.21	0.038 U	0.043 U	1.6	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.24	1.1
Benzo (b) Fluoranthene	170	110	190000	2.1	0.038 U	0.043 U	1.4	0.028 J	0.041 U	0.043 U	0.039 U	0.044 U	0.21	1.1
Benzo (g,h,i) Perylene	180	170000	190000		0.38 U	0.43 U	0.64	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.14 J	0.59 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.038 U	0.043 U	2	0.035 J	0.041 U	0.043 U	0.039 U	0.044 U	0.25	1.3
Bis(2-Chloroethoxy) Methane				1800	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.038 U	0.043 U	0.04 U	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.04 U	0.42 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.088 J	0.43 U	1.2	0.098 J	0.41 U	0.43 U	0.39 U	0.44 U	0.55	2.4 J
Butylbenzylphthalate	10000	10000	10000	910	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Carbazole	83	4000	190000		0.38 U	0.43 U	0.2 J	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.53	1 J
Chrysene	230	11000	190000	210	0.07 J	0.43 U	2.6	0.052 J	0.41 U	0.43 U	0.033 J	0.44 U	0.32 J	1.7 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.038 U	0.043 U	0.29	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.041	0.42 U
Dibenzofuran					0.38 U	0.43 U	0.32 J	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.69	1.5 J
Diethylphthalate	500	10000	10000	490000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Dimethylphthalate					0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Di-n-octylphthalate	10000	10000	10000		0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Fluoranthene	3200	110000	190000	22000	0.064 J	0.43 U	6.7	0.093 J	0.41 U	0.43 U	0.025 J	0.44 U	0.73	3.5 J
Fluorene	3800	110000	190000	22000	0.38 U	0.43 U	0.92	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.75	2.4 J
Hexachlorobenzene	0.96	50	190000	1.1	0.038 U	0.043 U	0.04 U	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.04 U	0.42 U
Hexachlorobutadiene	1.2	560	10000	22	0.077 U	0.086 U	0.079 U	0.087 U	0.083 U	0.086 U	0.078 U	0.087 U	0.081 U	0.85 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Hexachloroethane	0.56	2800	190000	120	0.038 U	0.043 U	0.04 U	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.04 U	0.42 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.038 U	0.043 U	0.64	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.13	0.58
Isophorone	10	10000	10000	1800	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Naphthalene	25	56000	190000	20	0.38 U	0.43 U	1.3	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	3.4	4.4
Nitrobenzene	5.1	1400	10000	22	0.038 U	0.043 U	0.04 U	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.04 U	0.42 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.038 U	0.043 U	0.04 U	0.043 U	0.041 U	0.043 U	0.039 U	0.044 U	0.04 U	0.42 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.38 U	0.43 U	0.4 U	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Pentachlorophenol	5	660	190000	9	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	17 U
Phenanthrene	10000	190000	190000		0.042 J	0.015 J	6.2	0.087 J	0.41 U	0.43 U	0.029 J	0.44 U	1.4	7.6
Phenol	400	190000	190000	180000	0.38 U	0.43 U	0.41	0.43 U	0.41 U	0.43 U	0.39 U	0.44 U	0.4 U	4.2 U
Pyrene	2200	84000	190000	17000	0.083 J	0.018 J	4.8	0.12 J	0.41 U	0.43 U	0.056 J	0.44 U	0.55	2.7 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24			0.0001 mg/l U							
Nickel	650	56000	190000	20000			0.004 mg/l B							
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6			0.0036 mg/l U							
Barium	8200	190000	190000	190000			0.27 mg/l							

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-060 0 - 2 3/10/2004	WPL-SB-060 2 - 4 3/10/2004	WPL-SB-061 4 - 6 3/11/2004	WPL-SB-061 6 - 8 3/11/2004	WPL-SB-062 2 - 4 3/11/2004	WPL-SB-062 6 - 8 3/11/2004	WPL-SB-063 0 - 2 3/10/2004	WPL-SB-063 5 - 7 3/10/2004	WPL-SB-064 0 - 2 3/12/2004	WPL-SB-064 5 - 7 3/12/2004
Beryllium	320	5600	190000	2000			0.0002 mg/l U							
Cadmium	38	210	190000	800			0.0004 mg/l U							
Chromium				1400			0.03 mg/l							
Copper	36000	100000	190000	41000			0.05 mg/l							
Lead	450	1000	190000	800			0.02 mg/l B							
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100			0.0045 mg/l U							
Silver	84	14000	190000	5100			0.0011 mg/l U							
Thallium	14	200	190000	66			0.0041 mg/l U							
Zinc	12000	190000	190000	310000			0.05 mg/l							
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.001 U	0.11 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0027 U	0.0034 U	0.0029 U	0.0034 U	0.0032 U	0.0034 U	0.003 U	0.0034 U	0.003 U	0.34 U
1,1-Dichloroethane	11	1000	1200	17	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
1,1-Dichloroethene	0.7	33	38	1100	0.0018 U	0.0023 U	0.0019 U	0.0023 U	0.0021 U	0.0023 U	0.002 U	0.0023 U	0.002 U	0.23 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0018 U	0.0023 U	0.0019 U	0.0023 U	0.0021 U	0.0023 U	0.002 U	0.0023 U	0.002 U	0.23 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.001 U	0.11 U
1,4-Dioxane	2.4	210	240	160	0.89 U	1.1 U	0.97 U	1.1 U	1 U	1.1 U	0.99 U	1.2 U	1 U	110 U
2-Butanone	580	10000	10000	190000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
2-Hexanone					0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Acetone	1000	10000	10000	610000	0.027	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.045	0.0058 U	0.0051 U	0.57 U
Acrylonitrile	0.27	24	28	1.2	0.044 U	0.056 U	0.048 U	0.057 U	0.053 U	0.057 U	0.049 U	0.058 U	0.051 U	5.7 U
Benzene	0.5	210	240	5.6	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.001 J	0.11 U
Bromochloromethane	9	10000	10000		0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Bromodichloromethane	10	45	51	1.4	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.001 U	0.11 U
Bromoform	10	1500	1700	220	0.0036 U	0.0045 U	0.0039 U	0.0045 U	0.0042 U	0.0045 U	0.0039 U	0.0046 U	0.0041 U	0.45 U
Bromomethane	1	270	300	35	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Carbon Disulfide	410	10000	10000	3000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.001 J	0.57 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0018 U	0.0023 U	0.0019 U	0.0023 U	0.0021 U	0.0023 U	0.002 U	0.0023 U	0.002 U	0.23 U
Chlorobenzene	10	10000	10000	1500	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Chlorodibromomethane	10	61	70	3.4	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Chloroethane	90	10000	10000	62000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Chloroform	10	17	19	1.5	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-060 0 - 2 3/10/2004	WPL-SB-060 2 - 4 3/10/2004	WPL-SB-061 4 - 6 3/11/2004	WPL-SB-061 6 - 8 3/11/2004	WPL-SB-062 2 - 4 3/11/2004	WPL-SB-062 6 - 8 3/11/2004	WPL-SB-063 0 - 2 3/10/2004	WPL-SB-063 5 - 7 3/10/2004	WPL-SB-064 0 - 2 3/12/2004	WPL-SB-064 5 - 7 3/12/2004
Chloromethane	0.3	920	1000	510	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0044 U	0.0056 U	0.007	0.0008 J	0.0016 J	0.0027 J	0.0006 J	0.0058 U	0.0036 J	0.57 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Ethylbenzene	70	10000	10000	29	0.0036 U	0.0045 U	0.0039 U	0.0045 U	0.0042 U	0.0045 U	0.0039 U	0.0046 U	0.0016 J	2.5
Methyl tert-butyl ether	2	3200	3700	190	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Methylene chloride	0.5	3500	4000	54	0.0013 JB	0.0034 U	0.0008 JB	0.001 JB	0.0008 JB	0.0011 JB	0.0012 JB	0.0034 U	0.0007 JB	0.34 U
Styrene	24	10000	10000	38000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0009 U	0.0011 U	0.001 U	0.0004 J	0.001 U	0.0005 J	0.001 U	0.0012 U	0.001 U	0.11 U
Toluene	100	10000	10000	46000	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0017 J	0.57 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0044 U	0.0056 U	0.0007 J	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0051 U	0.57 U
Trichloroethene	0.5	970	1100	14	0.0009 U	0.0011 U	0.0029	0.0028	0.0006 J	0.022	0.0014	0.0012 U	0.0006 J	0.18
Vinyl Chloride	0.2	53	220	1.7	0.0044 U	0.0056 U	0.0047 J	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.0012 J	0.57 U
Xylenes (Total)	1000	10000	10000	2600	0.0044 U	0.0056 U	0.0048 U	0.0057 U	0.0053 U	0.0057 U	0.0049 U	0.0058 U	0.016	8.7

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-065 0 - 2 3/12/2004	WPL-SB-066 2 - 4 3/11/2004	WPL-SB-066 12 - 13 3/11/2004	WPL-SB-067 0 - 2 3/12/2004	WPL-SB-067 5 - 7 3/12/2004	WPL-SB-068 0 - 2 3/12/2004	WPL-SB-068 6 - 8 3/12/2004	WPL-SB-069 5 - 7 3/11/2004	WPL-SB-070 0 - 2 3/12/2004	WPL-SB-070 2 - 4 3/12/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.97	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U		2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.03 B	0.05		0.03 B	0.04 B	0.04	0.03 B	0.03 B	0.05	0.04
Metal														
Antimony	27	1100	190000	410	0.49 U	1.7		0.49 U	0.49 U	0.49 U	0.5 U	0.74 U	0.48 U	0.49 U
Arsenic	150	53	190000	1.6	6.3	5.1		4.5	5.3	5.2	5.1	4.6	6.6	6.7
Beryllium	320	5600	190000	2000	0.55	0.61		0.53	0.58	0.57	0.54	0.5	0.61	0.63
Cadmium	38	210	190000	800	0.08 B	0.89		0.05 U	0.051 U	0.19 B	0.051 U	0.051 U	0.1 B	0.24 B
Chromium				1400	23	24		17.7	15.6	21.8	15	20.6	22.2	23.4
Copper	36000	100000	190000	41000	20.7	36.4		17.5	15.3	17.5	15	18.1	18	20.7
Lead	450	1000	190000	800	11.3	209		7.7	11.3	11.3	9.3	21.4	18.3	12.2
Nickel	650	56000	190000	20000	13.7	13.3		14.2	11.6	13.5	12.1	12.9	13.2	13.6
Selenium	26	14000	190000	5100	0.65	0.51 U		0.49 U	0.54 B	0.7	0.5 U	0.54 U	0.66	0.98
Silver	84	14000	190000	5100	0.088 U	0.17 U		0.088 U	0.089 U	0.087 U	0.09 U	0.18 U	0.087 U	0.088 U
Thallium	14	200	190000	66	0.55 U	0.57 U		0.55 U	0.56 U	0.55 U	0.56 U	0.6 U	0.54 U	0.55 U
Zinc	12000	190000	190000	310000	40.7	133		41	36.2	40.6	35.9	48.8	48.3	44.2
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.084 U	0.081 U		0.084 U	0.085 U	0.084 U	0.086 U	0.086 U	0.084 U	0.084 U
Arochlor-1221	2.5	160	10000	0.62	0.084 U	0.081 U		0.084 U	0.085 U	0.084 U	0.086 U	0.086 U	0.084 U	0.084 U
Arochlor-1232	2	160	10000	0.62	0.084 U	0.081 U		0.084 U	0.085 U	0.084 U	0.086 U	0.086 U	0.084 U	0.084 U
Arochlor-1242	62	160	10000	0.74	0.084 U	0.081 U		0.084 U	0.085 U	0.084 U	0.086 U	0.086 U	0.084 U	0.084 U
Arochlor-1248	67	44	10000	0.74	0.084 U	0.081 U		0.084 U	0.085 U	0.084 U	0.086 U	0.086 U	0.084 U	0.084 U
Arochlor-1254	280	44	10000	0.74	0.084 U	1.7		0.084 U	0.085 U	0.084 U	0.086 U	1.1	0.084 U	0.084 U
Arochlor-1260	1900	130	190000	0.74	0.084 U	0.56		0.084 U	0.085 U	0.084 U	0.086 U	0.34	0.084 U	0.084 U
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.084 U	2.26		0.084 U	0.085 U	0.084 U	0.086 U	1.44	0.084 U	0.084 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	2.8 J		0.42 U	0.42 U	0.42 U	0.43 U	0.21 J	0.41 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.57 J		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	16 U		1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.084 U	0.81 U		0.084 U	0.084 U	0.083 U	0.085 U	0.17 U	0.082 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.084 U	0.81 U		0.084 U	0.084 U	0.083 U	0.085 U	0.17 U	0.082 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	2.4 J		0.42 U	0.42 U	0.42 U	0.43 U	4.5	0.41 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.84 U	8.1 U		0.84 U	0.84 U	0.83 U	0.85 U	1.7 U	0.82 U	0.84 U
2-Nitrophenol	82	22000	190000		0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.84 U	8.1 U		0.84 U	0.84 U	0.83 U	0.85 U	1.7 U	0.82 U	0.84 U
3-Nitroaniline	0.58	160	190000		0.84 U	8.1 U		0.84 U	0.84 U	0.83 U	0.85 U	1.7 U	0.82 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	16 U		1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-065 0 - 2 3/12/2004	WPL-SB-066 2 - 4 3/11/2004	WPL-SB-066 12 - 13 3/11/2004	WPL-SB-067 0 - 2 3/12/2004	WPL-SB-067 5 - 7 3/12/2004	WPL-SB-068 0 - 2 3/12/2004	WPL-SB-068 6 - 8 3/12/2004	WPL-SB-069 5 - 7 3/11/2004	WPL-SB-070 0 - 2 3/12/2004	WPL-SB-070 2 - 4 3/12/2004
4-Bromophenyl phenyl ether					0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
4-Chlorodiphenyl Ether					0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.84 U	8.1 U		0.84 U	0.84 U	0.83 U	0.85 U	1.7 U	0.82 U	0.84 U
4-Nitrophenol	6	22000	190000		1.7 U	16 U		1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.47 J		0.42 U	0.42 U	0.42 U	0.43 U	0.53 J	0.41 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.022 J	0.42 U
Anthracene	350	190000	190000	170000	0.42 U	0.38 J		0.42 U	0.42 U	0.42 U	0.43 U	0.58 J	0.017 J	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.74		0.042 U	0.042 U	0.042 U	0.043 U	0.65	0.034 J	0.02 J
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.79		0.042 U	0.042 U	0.009 J	0.043 U	0.51	0.029 J	0.016 J
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.77		0.042 U	0.042 U	0.042 U	0.043 U	0.45	0.036 J	0.02 J
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.14 J	0.019 J	0.014 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.83		0.042 U	0.042 U	0.042 U	0.043 U	0.64	0.05	0.024 J
Bis(2-Chloroethoxy) Methane				1800	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.67 J	0.41 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Carbazole	83	4000	190000		0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Chrysene	230	11000	190000	210	0.42 U	1.3 J		0.42 U	0.42 U	0.0087 J	0.43 U	1	0.044 J	0.044 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
Dibenzofuran					0.42 U	0.25 J		0.42 U	0.42 U	0.42 U	0.43 U	0.32 J	0.41 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Dimethylphthalate					0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.29 J	0.41 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.42 U	2 J		0.42 U	0.42 U	0.01 J	0.43 U	2.8	0.054 J	0.045 J
Fluorene	3800	110000	190000	22000	0.42 U	0.6 J		0.42 U	0.42 U	0.42 U	0.43 U	0.72 J	0.41 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.084 U	0.81 U		0.084 U	0.084 U	0.083 U	0.085 U	0.17 U	0.082 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.16	0.02 J	0.014 J
Isophorone	10	10000	10000	1800	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Naphthalene	25	56000	190000	20	0.42 U	3.5 J		0.42 U	0.42 U	0.42 U	0.43 U	3.3	0.41 U	0.011 J
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.4 U		0.042 U	0.042 U	0.042 U	0.043 U	0.085 U	0.041 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.7 U	16 U		1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		0.42 U	2.9 J		0.42 U	0.42 U	0.42 U	0.43 U	4.1	0.018 J	0.034 J
Phenol	400	190000	190000	180000	0.42 U	4 U		0.42 U	0.42 U	0.42 U	0.43 U	0.85 U	0.41 U	0.42 U
Pyrene	2200	84000	190000	17000	0.42 U	1.3 J		0.42 U	0.42 U	0.011 J	0.43 U	1.5	0.048 J	0.037 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-065 0 - 2 3/12/2004	WPL-SB-066 2 - 4 3/11/2004	WPL-SB-066 12 - 13 3/11/2004	WPL-SB-067 0 - 2 3/12/2004	WPL-SB-067 5 - 7 3/12/2004	WPL-SB-068 0 - 2 3/12/2004	WPL-SB-068 6 - 8 3/12/2004	WPL-SB-069 5 - 7 3/11/2004	WPL-SB-070 0 - 2 3/12/2004	WPL-SB-070 2 - 4 3/12/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	5.4 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.12 U	0.0011 U	0.0011 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	16 U	0.003 U	0.0032 U	0.0033 U	0.0032 U	0.33 U	0.35 U	0.0032 U	0.0032 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	11 U	0.002 U	0.0021 U	0.0022 U	0.0021 U	0.22 U	0.23 U	0.0021 U	0.0021 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	11 U	0.002 U	0.0021 U	0.0022 U	0.0021 U	0.22 U	0.23 U	0.0021 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	5.4 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.12 U	0.0011 U	0.0011 U
1,4-Dioxane	2.4	210	240	160	1.1 U	5400 U	0.99 U	1.1 U	1.1 U	1 U	110 U	120 U	1.1 U	1.1 U
2-Butanone	580	10000	10000	190000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
2-Hexanone					0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Acetone	1000	10000	10000	610000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.027	0.0054 U
Acrylonitrile	0.27	24	28	1.2	0.054 U	270 U	0.05 U	0.054 U	0.055 U	0.053 U	5.5 U	5.8 U	0.053 U	0.054 U
Benzene	0.5	210	240	5.6	0.0011 U	5.4 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.12 U	0.0011 U	0.0011 U
Bromochloromethane	9	10000	10000		0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	5.4 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.11 U	0.12 U	0.0011 U	0.0011 U
Bromoform	10	1500	1700	220	0.0043 U	22 U	0.004 U	0.0043 U	0.0044 U	0.0042 U	0.44 U	0.46 U	0.0042 U	0.0043 U
Bromomethane	1	270	300	35	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.001 J	0.55 U	0.58 U	0.0053 U	0.0054 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	11 U	0.002 U	0.0021 U	0.0022 U	0.0021 U	0.22 U	0.23 U	0.0021 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Chlorodibromomethane	10	61	70	3.4	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Chloroethane	90	10000	10000	62000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Chloroform	10	17	19	1.5	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-065 0 - 2 3/12/2004	WPL-SB-066 2 - 4 3/11/2004	WPL-SB-066 12 - 13 3/11/2004	WPL-SB-067 0 - 2 3/12/2004	WPL-SB-067 5 - 7 3/12/2004	WPL-SB-068 0 - 2 3/12/2004	WPL-SB-068 6 - 8 3/12/2004	WPL-SB-069 5 - 7 3/11/2004	WPL-SB-070 0 - 2 3/12/2004	WPL-SB-070 2 - 4 3/12/2004
Chloromethane	0.3	920	1000	510	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0098	560	0.005 U	0.024	0.074	0.026	0.58	0.58 U	0.0053 U	0.0054 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Ethylbenzene	70	10000	10000	29	0.0043 U	22 U	0.004 U	0.0043 U	0.0044 U	0.0042 U	0.44 U	0.22 J	0.0042 U	0.0043 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Methylene chloride	0.5	3500	4000	54	0.0008 JB	16 U	0.001 JB	0.0008 JB	0.0009 JB	0.0009 JB	0.33 U	0.35 U	0.0014 JB	0.0011 JB
Styrene	24	10000	10000	38000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	5.4 U	0.001 U	0.0004 J	0.0011 U	0.001 U	0.11 U	0.12 U	0.0003 J	0.0011 U
Toluene	100	10000	10000	46000	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0054 U	27 U	0.005 U	0.0054 U	0.0024 J	0.0008 J	0.55 U	0.58 U	0.0053 U	0.0054 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	27 U	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.58 U	0.0053 U	0.0054 U
Trichloroethene	0.5	970	1100	14	0.003	56	0.001 U	0.0038	0.0028	0.0021	0.11 U	0.12 U	0.0015	0.0016
Vinyl Chloride	0.2	53	220	1.7	0.0051 J	27 U	0.005 U	0.0003 J	0.068	0.037	0.22 J	0.58 U	0.0053 U	0.0054 U
Xylenes (Total)	1000	10000	10000	2600	0.0054 U	16 J	0.005 U	0.0054 U	0.0055 U	0.0053 U	0.55 U	0.23 J	0.0053 U	0.0054 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-071 0.5 - 2 3/11/2004	WPL-SB-071 2 - 4 3/11/2004	WPL-SB-071 7 - 8 3/11/2004	WPL-SB-072 0 - 2 3/13/2004	WPL-SB-072 6 - 7 3/13/2004	*WPL-SB-073 0 - 2 3/13/2004	WPL-SB-073 6 - 7 3/13/2004	WPL-SB-074 0 - 2 3/12/2004	WPL-SB-074 6 - 7 3/12/2004	*WPL-SB-075 0 - 2 3/12/2004
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U		0.5 U		0.5 U		0.79		1
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U		2 U		2 U		2 U		2 U
Mercury														
Mercury	10	840	190000	24	0.21	0.08		0.04 B		0.07		0.05		0.13
Metal														
Antimony	27	1100	190000	410	1.2	3.2		0.49 B		0.46 U		0.48 U		3.7
Arsenic	150	53	190000	1.6	5.6	6.6		6		6.6		5		7
Beryllium	320	5600	190000	2000	0.49	0.51		0.66		0.41		0.67		0.65
Cadmium	38	210	190000	800	0.61	2.9		0.051 U		0.047 U		0.31 B		4.2
Chromium				1400	26.9	56.2		18.2		7.4		18.5		108
Copper	36000	100000	190000	41000	50.5	484		24.6		100		15.4		180
Lead	450	1000	190000	800	36	224		85.9		13.7		12.1		260
Nickel	650	56000	190000	20000	12.2	16.9		11.1		4.4 B		11.6		28.4
Selenium	26	14000	190000	5100	0.48 U	0.49 U		0.5 U		0.75		0.62		1.3
Silver	84	14000	190000	5100	1.1	1 B		0.09 U		0.082 U		0.087 U		1.9
Thallium	14	200	190000	66	0.53 U	0.55 U		0.56 U		0.52 U		0.55 U		0.56 U
Zinc	12000	190000	190000	310000	93.4	1040		245		31.4		87.9		742
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.076 U	0.079 U		0.086 U		0.39 U		0.083 U		0.42 U
Arochlor-1221	2.5	160	10000	0.62	0.076 U	0.079 U		0.086 U		0.39 U		0.083 U		0.42 U
Arochlor-1232	2	160	10000	0.62	0.076 U	0.079 U		0.086 U		0.39 U		0.083 U		0.42 U
Arochlor-1242	62	160	10000	0.74	0.076 U	0.079 U		0.086 U		0.39 U		0.083 U		0.42 U
Arochlor-1248	67	44	10000	0.74	0.076 U	0.079 U		0.086 U		0.39 U		0.083 U		0.42 U
Arochlor-1254	280	44	10000	0.74	0.27	0.079 U		0.086 U		7		0.083 U		4.5
Arochlor-1260	1900	130	190000	0.74	0.44	0.33		0.086 U		0.39 U		0.083 U		1.7
Arochlor-1262														
Arochlor-1268														
PCBs (Total)				0.74	0.71	0.33		0.086 U		7		0.083 U		6.2
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.038 U	0.039 U		0.043 U		0.039 U		0.041 U		0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.5 U	1.6 U		1.7 U		1.6 U		1.6 U		1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.076 U	0.078 U		0.085 U		0.078 U		0.083 U		0.085 U
2,6-Dinitrotoluene	10	2800	190000	620	0.076 U	0.078 U		0.085 U		0.078 U		0.083 U		0.085 U
2-Chloronaphthalene	18000	190000	190000	82000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.1 J	0.39 U		0.43 U		0.49		0.13 J		0.03 J
2-Methylphenol	510	10000	10000	31000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.76 U	0.78 U		0.85 U		0.78 U		0.83 U		0.85 U
2-Nitrophenol	82	22000	190000		0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.76 U	0.78 U		0.85 U		0.78 U		0.83 U		0.85 U
3-Nitroaniline	0.58	160	190000		0.76 U	0.78 U		0.85 U		0.78 U		0.83 U		0.85 U
4,6-Dinitro-2-Methylphenol				62	1.5 U	1.6 U		1.7 U		1.6 U		1.6 U		1.7 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-071 0.5 - 2 3/11/2004	WPL-SB-071 2 - 4 3/11/2004	WPL-SB-071 7 - 8 3/11/2004	WPL-SB-072 0 - 2 3/13/2004	WPL-SB-072 6 - 7 3/13/2004	*WPL-SB-073 0 - 2 3/13/2004	WPL-SB-073 6 - 7 3/13/2004	WPL-SB-074 0 - 2 3/12/2004	WPL-SB-074 6 - 7 3/12/2004	*WPL-SB-075 0 - 2 3/12/2004
4-Bromophenyl phenyl ether					0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
4-Chlorodiphenyl Ether					0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
4-Nitroaniline	0.58	160	190000	86	0.76 U	0.78 U		0.85 U		0.78 U		0.83 U		0.85 U
4-Nitrophenol	6	22000	190000		1.5 U	1.6 U		1.7 U		1.6 U		1.6 U		1.7 U
Acenaphthene	4700	170000	190000	33000	0.082 J	0.091 J		0.43 U		0.39 U		0.41 U		0.046 J
Acenaphthylene	6900	170000	190000	33000	0.38 U	0.39 U		0.02 J		0.39 U		0.026 J		0.26 J
Anthracene	350	190000	190000	170000	0.1 J	0.12 J		0.43 U		0.019 J		0.01 J		0.14 J
Benzo (A) Anthracene	320	110	190000	2.1	0.27	0.2		0.043 U		0.059		0.02 J		0.37
Benzo (a) Pyrene	46	11	190000	0.21	0.29	0.2		0.043 U		0.043		0.021 J		0.48
Benzo (b) Fluoranthene	170	110	190000	2.1	0.26	0.15		0.043 U		0.057		0.027 J		0.36
Benzo (g,h,i) Perylene	180	170000	190000		0.24 J	0.11 J		0.43 U		0.027 J		0.02 J		0.39 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.3	0.19		0.043 U		0.035 J		0.026 J		0.43
Bis(2-Chloroethoxy) Methane				1800	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.038 U	0.039 U		0.043 U		0.039 U		0.041 U		0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.38 U	0.39 U		0.11 J		0.39 U		0.41 U		0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Carbazole	83	4000	190000		0.046 J	0.054 J		0.43 U		0.014 J		0.41 U		0.086 J
Chrysene	230	11000	190000	210	0.4	0.26 J		0.43 U		0.17 J		0.07 J		0.41 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.038 U	0.039 U		0.043 U		0.021 J		0.041 U		0.088
Dibenzofuran					0.062 J	0.044 J		0.43 U		0.12 J		0.41 U		0.42 U
Diethylphthalate	500	10000	10000	490000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Dimethylphthalate					0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.38 U	0.39 U		0.43 U		0.39 U		0.17 J		0.42 U
Di-n-octylphthalate	10000	10000	10000		0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Fluoranthene	3200	110000	190000	22000	0.67	0.4		0.43 U		0.067 J		0.054 J		0.79
Fluorene	3800	110000	190000	22000	0.064 J	0.079 J		0.43 U		0.022 J		0.41 U		0.038 J
Hexachlorobenzene	0.96	50	190000	1.1	0.038 U	0.039 U		0.043 U		0.039 U		0.041 U		0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.076 U	0.078 U		0.085 U		0.078 U		0.083 U		0.085 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Hexachloroethane	0.56	2800	190000	120	0.038 U	0.039 U		0.043 U		0.039 U		0.041 U		0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.2	0.1		0.043 U		0.02 J		0.015 J		0.34
Isophorone	10	10000	10000	1800	0.38 U	0.39 U		0.43 U		0.39 U		0.16 J		0.42 U
Naphthalene	25	56000	190000	20	0.082 J	0.047 J		0.43 U		0.27 J		0.18 J		0.025 J
Nitrobenzene	5.1	1400	10000	22	0.038 U	0.039 U		0.043 U		0.039 U		0.041 U		0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.038 U	0.039 U		0.043 U		0.039 U		0.041 U		0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Pentachlorophenol	5	660	190000	9	1.5 U	1.6 U		1.7 U		1.6 U		0.097 J		1.7 U
Phenanthrene	10000	190000	190000		0.49	0.42		0.43 U		0.34 J		0.14 J		0.49
Phenol	400	190000	190000	180000	0.38 U	0.39 U		0.43 U		0.39 U		0.41 U		0.42 U
Pyrene	2200	84000	190000	17000	0.65	0.41		0.43 U		0.087 J		0.042 J		0.74
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Nickel	650	56000	190000	20000										
Toxicity Characteristic Leaching Procedure - Metal														
Antimony	27	1100	190000	410										
Arsenic	150	53	190000	1.6										
Barium	8200	190000	190000	190000										

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-071 0.5 - 2 3/11/2004	WPL-SB-071 2 - 4 3/11/2004	WPL-SB-071 7 - 8 3/11/2004	WPL-SB-072 0 - 2 3/13/2004	WPL-SB-072 6 - 7 3/13/2004	*WPL-SB-073 0 - 2 3/13/2004	WPL-SB-073 6 - 7 3/13/2004	WPL-SB-074 0 - 2 3/12/2004	WPL-SB-074 6 - 7 3/12/2004	*WPL-SB-075 0 - 2 3/12/2004
Beryllium	320	5600	190000	2000										
Cadmium	38	210	190000	800										
Chromium				1400										
Copper	36000	100000	190000	41000										
Lead	450	1000	190000	800										
Nickel	650	56000	190000	20000										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
Thallium	14	200	190000	66										
Zinc	12000	190000	190000	310000										
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100										
1,2-Dichloroethane	0.5	63	73	2.2										
2-Butanone	580	10000	10000	190000										
Benzene	0.5	210	240	5.6										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chloroform	10	17	19	1.5										
Tetrachloroethene	0.5	1500	3300	2.7										
Trichloroethene	0.5	970	1100	14										
Vinyl Chloride	0.2	53	220	1.7										
Total Solids														
Moisture														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.5 U	0.0019 J	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.1 U	0.0009 U	0.0011 U	0.0012 U	5.1 U	0.0011 U	0.0011 U	0.0009 U	0.12 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0031 U	0.3 U	0.0027 U	0.0034 U	0.0035 U	15 U	0.0033 U	0.0033 U	0.0028 U	0.35 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.5 U	0.0025 J	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
1,1-Dichloroethene	0.7	33	38	1100	0.002 U	0.2 U	0.0018 U	0.0023 U	0.0023 U	10 U	0.0022 U	0.0022 U	0.0019 U	0.23 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
1,2-Dichloroethane	0.5	63	73	2.2	0.002 U	0.2 U	0.0018 U	0.0023 U	0.0023 U	10 U	0.0022 U	0.0022 U	0.0019 U	0.23 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.1 U	0.0009 U	0.0011 U	0.0012 U	5.1 U	0.0011 U	0.0011 U	0.0009 U	0.12 U
1,4-Dioxane	2.4	210	240	160	1 U	100 U	0.89 U	1.1 U	1.2 U	5100 U	1.1 U	1.1 U	0.94 U	120 U
2-Butanone	580	10000	10000	190000	0.0051 U	0.5 U	0.0045 U	0.0067	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
2-Hexanone					0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Acetone	1000	10000	10000	610000	0.027	0.5 U	0.0045 U	0.046	0.0058 U	25 U	0.0055 U	0.051	0.0047 U	0.58 U
Acrylonitrile	0.27	24	28	1.2	0.051 U	5 U	0.045 U	0.057 U	0.058 U	250 U	0.055 U	0.054 U	0.047 U	5.8 U
Benzene	0.5	210	240	5.6	0.0005 J	0.1 U	0.0009 U	0.0011 U	0.0012 U	5.1 U	0.0011 U	0.0011 U	0.0009 U	0.12 U
Bromochloromethane	9	10000	10000		0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.1 U	0.0009 U	0.0011 U	0.0012 U	5.1 U	0.0011 U	0.0011 U	0.0009 U	0.12 U
Bromoform	10	1500	1700	220	0.0041 U	0.4 U	0.0036 U	0.0046 U	0.0046 U	20 U	0.0044 U	0.0044 U	0.0038 U	0.46 U
Bromomethane	1	270	300	35	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Carbon Disulfide	410	10000	10000	3000	0.0008 J	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Carbon Tetrachloride	0.5	110	120	1.3	0.002 U	0.2 U	0.0018 U	0.0023 U	0.0023 U	10 U	0.0022 U	0.0022 U	0.0019 U	0.23 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Chloroform	10	17	19	1.5	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-071 0.5 - 2 3/11/2004	WPL-SB-071 2 - 4 3/11/2004	WPL-SB-071 7 - 8 3/11/2004	WPL-SB-072 0 - 2 3/13/2004	WPL-SB-072 6 - 7 3/13/2004	*WPL-SB-073 0 - 2 3/13/2004	WPL-SB-073 6 - 7 3/13/2004	WPL-SB-074 0 - 2 3/12/2004	WPL-SB-074 6 - 7 3/12/2004	*WPL-SB-075 0 - 2 3/12/2004
Chloromethane	0.3	920	1000	510	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.004 J	0.5 U	0.0036 J	0.0057 U	0.0058 U	9.2 J	0.0021 J	0.0054 U	0.0047 U	2
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Ethylbenzene	70	10000	10000	29	0.0041 U	0.4 U	0.0036 U	0.0046 U	0.0046 U	20 U	0.0044 U	0.0044 U	0.0038 U	0.46 U
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Methylene chloride	0.5	3500	4000	54	0.0031 B	0.3 U	0.0006 JB	0.0014 JB	0.0013 JB	15 U	0.0014 JB	0.001 JB	0.0011 JB	0.35 U
Styrene	24	10000	10000	38000	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Tetrachloroethene	0.5	1500	3300	2.7	0.001 U	0.1 U	0.019	0.023	0.018	10	0.012	0.012	0.0085	0.1 J
Toluene	100	10000	10000	46000	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0007 J	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.12 J
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Trichloroethene	0.5	970	1100	14	0.0036	0.36	0.0026	0.0046	0.017	710	0.046	0.021	0.02	16
Vinyl Chloride	0.2	53	220	1.7	0.0016 J	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U
Xylenes (Total)	1000	10000	10000	2600	0.0051 U	0.5 U	0.0045 U	0.0057 U	0.0058 U	25 U	0.0055 U	0.0054 U	0.0047 U	0.58 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-075 5 - 6 3/12/2004	WPL-SB-076 0.5 - 2 3/12/2004	WPL-SB-076 3 - 6 3/12/2004	WPL-SB-076 12 - 13 3/12/2004	WPL-SB-077 0.5 - 2 3/12/2004	WPL-SB-077 4 - 6 3/12/2004	WPL-SB-DFB-05-1 Dup 5 - 5.5 2/13/2004	WPL-SB-DP6-05-1 Dup 3 - 5 2/11/2004
Cyanide, Total												
Cyanide, Total	200	56000	190000	20000		0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium												
Hexavalent Chromium	190	420	190000	200		2 U	2 U		2 U	2 U	2 U	3.5
Mercury												
Mercury	10	840	190000	24		0.11	0.22		0.06	0.04 B	0.021 U	0.19
Metal												
Antimony	27	1100	190000	410		1.9	7.6		0.63 B	0.49 U	0.5 U	0.77 B
Arsenic	150	53	190000	1.6		7.2	7.6		6.9	6.7	5.4	7.4
Beryllium	320	5600	190000	2000		0.46	0.56		0.64	0.62	0.61	0.57
Cadmium	38	210	190000	800		2.6	4		0.61	0.25 B	0.051 U	0.57 B
Chromium				1400		62.7	58.1		26.1	31.1	17.3	44.2
Copper	36000	100000	190000	41000		212	452		33.2	20.2	11	69.7
Lead	450	1000	190000	800		115	598		42.7	11.6	12.5	36.2
Nickel	650	56000	190000	20000		23.9	46.5		21.1	13.5	11.4	13.9
Selenium	26	14000	190000	5100		0.47 U	1.2		0.49 B	0.79	0.5 U	0.47 U
Silver	84	14000	190000	5100		4.6	0.68 B		0.17 B	0.088 U	0.09 U	0.42 B
Thallium	14	200	190000	66		0.53 U	0.61 U		0.49 U	0.55 U	0.56 U	0.53 U
Zinc	12000	190000	190000	310000		357	708		77.4	46.7	45.4	120
Polychlorinated Biphenols												
Arochlor-1016	200	200	10000	21		0.16 U	0.19 U		0.075 U	0.084 U	0.086 U	0.4 U
Arochlor-1221	2.5	160	10000	0.62		0.16 U	0.19 U		0.075 U	0.084 U	0.086 U	0.4 U
Arochlor-1232	2	160	10000	0.62		0.16 U	0.19 U		0.075 U	0.084 U	0.086 U	0.4 U
Arochlor-1242	62	160	10000	0.74		0.16 U	0.19 U		0.075 U	0.084 U	0.086 U	0.4 U
Arochlor-1248	67	44	10000	0.74		0.16 U	0.19 U		0.075 U	0.084 U	0.086 U	0.4 U
Arochlor-1254	280	44	10000	0.74		1	1.2		0.075 U	0.28	0.086 U	0.4 U
Arochlor-1260	1900	130	190000	0.74		1.4	0.88		0.075 U	0.15	0.086 U	2.3
Arochlor-1262												
Arochlor-1268												
PCBs (Total)				0.74		2.4	2.08		0.075 U	0.43	0.086 U	2.3
Semi Volatile Organic Compound												
1,2,4-Trichlorobenzene	27	10000	10000	400		0.054	0.046 U		0.037 U	0.042 U	0.043 U	0.038 J
1,2-Dichlorobenzene	60	10000	10000	10000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
1,3-Dichlorobenzene	61	10000	10000			0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
1,4-Dichlorobenzene	10	3300	190000	13		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2,4,5-Trichlorophenol	6100	190000	190000	62000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2,4,6-Trichlorophenol	8.9	840	190000	160		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2,4-Dichlorophenol	2	8400	190000	1800		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2,4-Dimethylphenol	200	10000	10000	12000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2,4-Dinitrophenol	4.1	5600	190000	1200		1.6 U	1.8 U		1.5 U	1.7 U	1.7 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5		0.08 U	0.092 U		0.075 U	0.084 U	0.085 U	0.08 U
2,6-Dinitrotoluene	10	2800	190000	620		0.08 U	0.092 U		0.075 U	0.084 U	0.085 U	0.08 U
2-Chloronaphthalene	18000	190000	190000	82000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2-Chlorophenol	4.4	920	1100	5100		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2-Methylnaphthalene	8000	10000	10000	4100		0.12 J	0.19 J		0.17 J	0.42 U	0.026 J	0.11 J
2-Methylphenol	510	10000	10000	31000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
2-Nitroaniline	0.58	160	190000	1800		0.8 U	0.92 U		0.75 U	0.84 U	0.85 U	0.8 U
2-Nitrophenol	82	22000	190000			0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
3,3'-Dichlorobenzidine	32	180	190000	3.8		0.8 U	0.92 U		0.75 U	0.84 U	0.85 U	0.8 U
3-Nitroaniline	0.58	160	190000			0.8 U	0.92 U		0.75 U	0.84 U	0.85 U	0.8 U
4,6-Dinitro-2-Methylphenol				62		1.6 U	1.8 U		1.5 U	1.7 U	1.7 U	1.6 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-075 5 - 6 3/12/2004	WPL-SB-076 0.5 - 2 3/12/2004	WPL-SB-076 3 - 6 3/12/2004	WPL-SB-076 12 - 13 3/12/2004	WPL-SB-077 0.5 - 2 3/12/2004	WPL-SB-077 4 - 6 3/12/2004	WPL-SB-DFB-05-1 Dup 5 - 5.5 2/13/2004	WPL-SB-DP6-05-1 Dup 3 - 5 2/11/2004
4-Bromophenyl phenyl ether						0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
4-Chloro-3-Methyl-Phenol	110	14000	190000			0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
4-Chloroaniline	52	11000	190000	8.6		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
4-Chlorodiphenyl Ether						0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
4-METHYLPHENOL	51	14000	190000	3100		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
4-Nitroaniline	0.58	160	190000	86		0.8 U	0.92 U		0.75 U	0.84 U	0.85 U	0.8 U
4-Nitrophenol	6	22000	190000			1.6 U	1.8 U		1.5 U	1.7 U	1.7 U	1.6 U
Acenaphthene	4700	170000	190000	33000		0.43	1.1		0.46	0.42 U	0.43 U	0.1 J
Acenaphthylene	6900	170000	190000	33000		0.1 J	0.053 J		0.081 J	0.42 U	0.43 U	0.017 J
Anthracene	350	190000	190000	170000		0.68	1.4		0.89	0.42 U	0.43 U	0.21 J
Benzo (A) Anthracene	320	110	190000	2.1		1.9	3.4		2	0.042 U	0.016 J	0.6
Benzo (a) Pyrene	46	11	190000	0.21		2	3		2	0.042 U	0.014 J	0.55
Benzo (b) Fluoranthene	170	110	190000	2.1		2	2.7		1.8	0.042 U	0.013 J	0.54
Benzo (g,h,i) Perylene	180	170000	190000			1	1.5		0.94	0.42 U	0.012 J	0.29 J
Benzo (k) Fluoranthene	610	1100	190000	21		2.2	3.8		2.1	0.042 U	0.015 J	0.64
Bis(2-Chloroethoxy) Methane				1800		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9		0.04 U	0.046 U		0.037 U	0.042 U	0.043 U	0.04 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120		0.4 U	0.46 U		0.37 U	0.42 U	0.086 J	0.21 J
Butylbenzylphthalate	10000	10000	10000	910		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Carbazole	83	4000	190000			0.3 J	1		0.24 J	0.42 U	0.43 U	0.14 J
Chrysene	230	11000	190000	210		2.3	3.7		2.2	0.42 U	0.028 J	0.63
Dibenzo (a,h) Anthracene	160	11	190000	0.21		0.31	0.56		0.34	0.042 U	0.043 U	0.11
Dibenzofuran						0.24 J	0.4 J		0.23 J	0.42 U	0.43 U	0.085 J
Diethylphthalate	500	10000	10000	490000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Dimethylphthalate						0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Di-n-Butylphthalate	4100	10000	10000	62000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Di-n-octylphthalate	10000	10000	10000			0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Fluoranthene	3200	110000	190000	22000		3.7	9.2		4	0.42 U	0.02 J	1.2
Fluorene	3800	110000	190000	22000		0.36 J	0.8		0.32 J	0.42 U	0.43 U	0.093 J
Hexachlorobenzene	0.96	50	190000	1.1		0.04 U	0.046 U		0.037 U	0.042 U	0.043 U	0.04 U
Hexachlorobutadiene	1.2	560	10000	22		0.08 U	0.092 U		0.075 U	0.084 U	0.085 U	0.08 U
Hexachlorocyclopentadiene	91	10000	10000	3700		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Hexachloroethane	0.56	2800	190000	120		0.04 U	0.046 U		0.037 U	0.042 U	0.043 U	0.04 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1		0.98	1.4		0.97	0.042 U	0.0086 J	0.32
Isophorone	10	10000	10000	1800		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Naphthalene	25	56000	190000	20		0.22 J	0.42 J		0.13 J	0.42 U	0.017 J	0.11 J
Nitrobenzene	5.1	1400	10000	22		0.04 U	0.046 U		0.037 U	0.042 U	0.043 U	0.04 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25		0.04 U	0.046 U		0.037 U	0.042 U	0.043 U	0.04 U
N-Nitrosodiphenylamine	83	16000	190000	350		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Pentachlorophenol	5	660	190000	9		1.6 U	1.8 U		1.5 U	1.7 U	1.7 U	1.6 U
Phenanthrene	10000	190000	190000			2.2	6.6		2.3	0.42 U	0.035 J	0.98
Phenol	400	190000	190000	180000		0.4 U	0.46 U		0.37 U	0.42 U	0.43 U	0.4 U
Pyrene	2200	84000	190000	17000		3.6	6.7		3.8	0.42 U	0.019 J	1.1
Toxicity Characteristic Leaching Procedure - Mercury												
Mercury	10	840	190000	24			0.0001 mg/l U					
Nickel	650	56000	190000	20000								
Toxicity Characteristic Leaching Procedure - Metal												
Antimony	27	1100	190000	410			0.01 mg/l					
Arsenic	150	53	190000	1.6			0.0036 mg/l U					
Barium	8200	190000	190000	190000								

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-075 5 - 6 3/12/2004	WPL-SB-076 0.5 - 2 3/12/2004	WPL-SB-076 3 - 6 3/12/2004	WPL-SB-076 12 - 13 3/12/2004	WPL-SB-077 0.5 - 2 3/12/2004	WPL-SB-077 4 - 6 3/12/2004	WPL-SB-DFB-05-1 Dup 5 - 5.5 2/13/2004	WPL-SB-DP6-05-1 Dup 3 - 5 2/11/2004
Beryllium	320	5600	190000	2000			0.0002 mg/l U					
Cadmium	38	210	190000	800			0.0004 mg/l U					
Chromium				1400			0.003 mg/l B					
Copper	36000	100000	190000	41000			0.009 mg/l B					
Lead	450	1000	190000	800			0.009 mg/l B					
Nickel	650	56000	190000	20000			0.0014 mg/l U					
Selenium	26	14000	190000	5100			0.0045 mg/l U					
Silver	84	14000	190000	5100			0.002 mg/l B					
Thallium	14	200	190000	66			0.0041 mg/l U					
Zinc	12000	190000	190000	310000			0.01 mg/l B					
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound												
1,1-Dichloroethene	0.7	33	38	1100								
1,2-Dichloroethane	0.5	63	73	2.2								
2-Butanone	580	10000	10000	190000								
Benzene	0.5	210	240	5.6								
Carbon Tetrachloride	0.5	110	120	1.3								
Chlorobenzene	10	10000	10000	1500								
Chloroform	10	17	19	1.5								
Tetrachloroethene	0.5	1500	3300	2.7								
Trichloroethene	0.5	970	1100	14								
Vinyl Chloride	0.2	53	220	1.7								
Total Solids												
Moisture												
Percent Solids												
Volatile Organic Compound												
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.37 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.0011 U	0.12 U	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.12 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.0033 U	0.37 U	0.0026 U	0.0033 U	0.0031 U	0.0034 U	0.34 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.28 J
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.0022 U	0.098 J	0.0018 U	0.0022 U	0.0021 U	0.0023 U	0.23 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.0022 U	0.24 U	0.0018 U	0.0022 U	0.0021 U	0.0023 U	0.23 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.0011 U	0.12 U	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.12 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1.1 U	120 U	0.88 U	1.1 U	1 U	1.1 U	120 U
2-Butanone	580	10000	10000	190000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.013	0.0052 U	0.0057 U	0.58 U
2-Hexanone					0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Acetone	1000	10000	10000	610000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.068	0.0052 U	0.0057 U	0.58 U
Acrylonitrile	0.27	24	28	1.2	0.054 U	0.055 U	6.1 U	0.044 U	0.054 U	0.052 U	0.057 U	5.8 U
Benzene	0.5	210	240	5.6	0.0011 U	0.0011 U	0.093 J	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.053 J
Bromochloromethane	9	10000	10000		0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0007 J	0.58 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.0011 U	0.12 U	0.0009 U	0.0011 U	0.001 U	0.0011 U	0.12 U
Bromoform	10	1500	1700	220	0.0044 U	0.0044 U	0.49 U	0.0035 U	0.0044 U	0.0042 U	0.0045 U	0.46 U
Bromomethane	1	270	300	35	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.0022 U	0.24 U	0.0018 U	0.0022 U	0.0021 U	0.0023 U	0.23 U
Chlorobenzene	10	10000	10000	1500	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Chlorodibromomethane	10	61	70	3.4	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Chloroethane	90	10000	10000	62000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Chloroform	10	17	19	1.5	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SB-075 5 - 6 3/12/2004	WPL-SB-076 0.5 - 2 3/12/2004	WPL-SB-076 3 - 6 3/12/2004	WPL-SB-076 12 - 13 3/12/2004	WPL-SB-077 0.5 - 2 3/12/2004	WPL-SB-077 4 - 6 3/12/2004	WPL-SB-DFB-05-1 Dup 5 - 5.5 2/13/2004	WPL-SB-DP6-05-1 Dup 3 - 5 2/11/2004
Chloromethane	0.3	920	1000	510	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.13	0.0012 J	3.8	0.0044 U	0.0006 J	0.0052 U	0.0057 U	1.1
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Ethylbenzene	70	10000	10000	29	0.0044 U	0.0044 U	0.49 U	0.0035 U	0.0044 U	0.0042 U	0.0045 U	0.46 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Methylene chloride	0.5	3500	4000	54	0.0015 JB	0.0009 JB	0.37 U	0.001 JB	0.0024 JB	0.0011 JB	0.0017 JB	0.34 U
Styrene	24	10000	10000	38000	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0012	0.0011 U	0.12 U	0.0026	0.0011 U	0.01	0.0011 U	7.9
Toluene	100	10000	10000	46000	0.0054 U	0.0055 U	0.16 J	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.091 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.0021 J	0.0055 U	1.6	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.3 J
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0055 U	0.61 U	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U
Trichloroethene	0.5	970	1100	14	0.078	0.0011 U	14	0.0009 U	0.0011 U	0.0018	0.0006 J	5.3
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.026	1.5	0.0044 U	0.0046 J	0.0052 U	0.0057 U	0.58 U
Xylenes (Total)	1000	10000	10000	2600	0.0054 U	0.0055 U	0.4 J	0.0044 U	0.0054 U	0.0052 U	0.0057 U	0.58 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SBDP13-04-1 Dup 2 - 4 3/11/2004	WPL-SS-001 0 - 1 5/7/2004	*WPL-SS-002 0 - 1 5/7/2004	WPL-SS-003 0 - 1 5/7/2004	*WPL-SS-004 0 - 1 5/7/2004	*WPL-SS-005 0 - 1 5/7/2004	*WPL-SS-006 0 - 1 5/7/2004	WPL-SS-007 0 - 1 5/7/2004	*WPL-SS-008 0 - 1 5/7/2004
Cyanide, Total													
Cyanide, Total	200	56000	190000	20000	0.5 U								
Hexavalent Chromium													
Hexavalent Chromium	190	420	190000	200	2 U								
Mercury													
Mercury	10	840	190000	24	0.04								
Metal													
Antimony	27	1100	190000	410	1.1 B								
Arsenic	150	53	190000	1.6	4.8								
Beryllium	320	5600	190000	2000	0.53								
Cadmium	38	210	190000	800	0.17 B								
Chromium				1400	23								
Copper	36000	100000	190000	41000	29.1								
Lead	450	1000	190000	800	118								
Nickel	650	56000	190000	20000	13.9								
Selenium	26	14000	190000	5100	0.5 U								
Silver	84	14000	190000	5100	0.17 U								
Thallium	14	200	190000	66	0.56 U								
Zinc	12000	190000	190000	310000	105								
Polychlorinated Biphenols													
Arochlor-1016	200	200	10000	21	0.08 U	0.078 U	0.16 U	0.081 U	0.82 U	0.41 U	0.81 U	0.082 U	0.41 U
Arochlor-1221	2.5	160	10000	0.62	0.08 U	0.078 U	0.16 U	0.081 U	0.82 U	0.41 U	0.81 U	0.082 U	0.41 U
Arochlor-1232	2	160	10000	0.62	0.08 U	0.078 U	0.16 U	0.081 U	0.82 U	0.41 U	0.81 U	0.082 U	0.41 U
Arochlor-1242	62	160	10000	0.74	0.08 U	0.078 U	0.16 U	0.081 U	0.82 U	0.41 U	0.81 U	0.082 U	0.41 U
Arochlor-1248	67	44	10000	0.74	0.08 U	0.078 U	0.16 U	0.081 U	0.82 U	0.41 U	0.81 U	0.082 U	0.41 U
Arochlor-1254	280	44	10000	0.74	0.92	0.19	3	0.43	9.5	4.7	11	0.24	3.8
Arochlor-1260	1900	130	190000	0.74	0.42	0.078 U	0.16 U	0.081 U	0.82 U	0.41 U	0.81 U	0.082 U	0.41 U
Arochlor-1262													
Arochlor-1268													
PCBs (Total)				0.74	1.34	0.19	3	0.43	9.5	4.7	11	0.24	3.8
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400	0.2 U								
1,2-Dichlorobenzene	60	10000	10000	10000	1.5 J								
1,3-Dichlorobenzene	61	10000	10000		2 U								
1,4-Dichlorobenzene	10	3300	190000	13	0.31 J								
2,4,5-Trichlorophenol	6100	190000	190000	62000	2 U								
2,4,6-Trichlorophenol	8.9	840	190000	160	2 U								
2,4-Dichlorophenol	2	8400	190000	1800	2 U								
2,4-Dimethylphenol	200	10000	10000	12000	2 U								
2,4-Dinitrophenol	4.1	5600	190000	1200	7.9 U								
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.4 U								
2,6-Dinitrotoluene	10	2800	190000	620	0.4 U								
2-Chloronaphthalene	18000	190000	190000	82000	2 U								
2-Chlorophenol	4.4	920	1100	5100	2 U								
2-Methylnaphthalene	8000	10000	10000	4100	1.9 J								
2-Methylphenol	510	10000	10000	31000	2 U								
2-Nitroaniline	0.58	160	190000	1800	4 U								
2-Nitrophenol	82	22000	190000		2 U								
3,3'-Dichlorobenzidine	32	180	190000	3.8	4 U								
3-Nitroaniline	0.58	160	190000		4 U								
4,6-Dinitro-2-Methylphenol				62	7.9 U								

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SBDP13-04-1 Dup 2 - 4 3/11/2004	WPL-SS-001 0 - 1 5/7/2004	*WPL-SS-002 0 - 1 5/7/2004	WPL-SS-003 0 - 1 5/7/2004	*WPL-SS-004 0 - 1 5/7/2004	*WPL-SS-005 0 - 1 5/7/2004	*WPL-SS-006 0 - 1 5/7/2004	WPL-SS-007 0 - 1 5/7/2004	*WPL-SS-008 0 - 1 5/7/2004
4-Bromophenyl phenyl ether					2 U								
4-Chloro-3-Methyl-Phenol	110	14000	190000		2 U								
4-Chloroaniline	52	11000	190000	8.6	2 U								
4-Chlorodiphenyl Ether					2 U								
4-METHYLPHENOL	51	14000	190000	3100	2 U								
4-Nitroaniline	0.58	160	190000	86	4 U								
4-Nitrophenol	6	22000	190000		7.9 U								
Acenaphthene	4700	170000	190000	33000	0.32 J								
Acenaphthylene	6900	170000	190000	33000	2 U								
Anthracene	350	190000	190000	170000	0.26 J								
Benzo (A) Anthracene	320	110	190000	2.1	0.52								
Benzo (a) Pyrene	46	11	190000	0.21	0.37								
Benzo (b) Fluoranthene	170	110	190000	2.1	0.39								
Benzo (g,h,i) Perylene	180	170000	190000		0.18 J								
Benzo (k) Fluoranthene	610	1100	190000	21	0.45								
Bis(2-Chloroethoxy) Methane				1800	2 U								
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.2 U								
Bis(2-Chloroisopropyl) Ether	30	160	190	17	2 U								
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	1.3 J								
Butylbenzylphthalate	10000	10000	10000	910	2 U								
Carbazole	83	4000	190000		2 U								
Chrysene	230	11000	190000	210	0.82 J								
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.2 U								
Dibenzofuran					0.17 J								
Diethylphthalate	500	10000	10000	490000	2 U								
Dimethylphthalate					2 U								
Di-n-Butylphthalate	4100	10000	10000	62000	2 U								
Di-n-octylphthalate	10000	10000	10000		2 U								
Fluoranthene	3200	110000	190000	22000	1.6 J								
Fluorene	3800	110000	190000	22000	0.36 J								
Hexachlorobenzene	0.96	50	190000	1.1	0.2 U								
Hexachlorobutadiene	1.2	560	10000	22	0.4 U								
Hexachlorocyclopentadiene	91	10000	10000	3700	2 U								
Hexachloroethane	0.56	2800	190000	120	0.2 U								
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.17 J								
Isophorone	10	10000	10000	1800	2 U								
Naphthalene	25	56000	190000	20	2.7								
Nitrobenzene	5.1	1400	10000	22	0.2 U								
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.2 U								
N-Nitrosodiphenylamine	83	16000	190000	350	2 U								
Pentachlorophenol	5	660	190000	9	7.9 U								
Phenanthrene	10000	190000	190000		2.1								
Phenol	400	190000	190000	180000	2 U								
Pyrene	2200	84000	190000	17000	0.94 J								
Toxicity Characteristic Leaching Procedure - Mercury													
Mercury	10	840	190000	24									
Nickel	650	56000	190000	20000									
Toxicity Characteristic Leaching Procedure - Metal													
Antimony	27	1100	190000	410									
Arsenic	150	53	190000	1.6									
Barium	8200	190000	190000	190000									

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SBDP13-04-1 Dup 2 - 4 3/11/2004	WPL-SS-001 0 - 1 5/7/2004	*WPL-SS-002 0 - 1 5/7/2004	WPL-SS-003 0 - 1 5/7/2004	*WPL-SS-004 0 - 1 5/7/2004	*WPL-SS-005 0 - 1 5/7/2004	*WPL-SS-006 0 - 1 5/7/2004	WPL-SS-007 0 - 1 5/7/2004	*WPL-SS-008 0 - 1 5/7/2004
Beryllium	320	5600	190000	2000									
Cadmium	38	210	190000	800									
Chromium				1400									
Copper	36000	100000	190000	41000									
Lead	450	1000	190000	800									
Nickel	650	56000	190000	20000									
Selenium	26	14000	190000	5100									
Silver	84	14000	190000	5100									
Thallium	14	200	190000	66									
Zinc	12000	190000	190000	310000									
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound													
1,1-Dichloroethene	0.7	33	38	1100									
1,2-Dichloroethane	0.5	63	73	2.2									
2-Butanone	580	10000	10000	190000									
Benzene	0.5	210	240	5.6									
Carbon Tetrachloride	0.5	110	120	1.3									
Chlorobenzene	10	10000	10000	1500									
Chloroform	10	17	19	1.5									
Tetrachloroethene	0.5	1500	3300	2.7									
Trichloroethene	0.5	970	1100	14									
Vinyl Chloride	0.2	53	220	1.7									
Total Solids													
Moisture													
Percent Solids													
Volatile Organic Compound													
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	29 U								
1,1,1-Trichloroethane	20	10000	10000	39000	29 U								
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	5.8 U								
1,1,2-Trichloroethane	0.5	100	120	5.5	17 U								
1,1-Dichloroethane	11	1000	1200	17	29 U								
1,1-Dichloroethene	0.7	33	38	1100	12 U								
1,2-Dibromoethane	0.005	0.93	8.6	0.17	29 U								
1,2-Dichloroethane	0.5	63	73	2.2	12 U								
1,2-Dichloropropane	0.5	160	180	4.7	5.8 U								
1,4-Dioxane	2.4	210	240	160	5800 U								
2-Butanone	580	10000	10000	190000	29 U								
2-Hexanone					29 U								
4-Methyl-2-Pentanone	41	4300	4900	52000	29 U								
Acetone	1000	10000	10000	610000	29 U								
Acrylonitrile	0.27	24	28	1.2	290 U								
Benzene	0.5	210	240	5.6	5.8 U								
Bromochloromethane	9	10000	10000		29 U								
Bromodichloromethane	10	45	51	1.4	5.8 U								
Bromoform	10	1500	1700	220	23 U								
Bromomethane	1	270	300	35	29 U								
Carbon Disulfide	410	10000	10000	3000	29 U								
Carbon Tetrachloride	0.5	110	120	1.3	12 U								
Chlorobenzene	10	10000	10000	1500	29 U								
Chlorodibromomethane	10	61	70	3.4	29 U								
Chloroethane	90	10000	10000	62000	29 U								
Chloroform	10	17	19	1.5	29 U								

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Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SBDP13-04-1 Dup 2 - 4 3/11/2004	WPL-SS-001 0 - 1 5/7/2004	*WPL-SS-002 0 - 1 5/7/2004	WPL-SS-003 0 - 1 5/7/2004	*WPL-SS-004 0 - 1 5/7/2004	*WPL-SS-005 0 - 1 5/7/2004	*WPL-SS-006 0 - 1 5/7/2004	WPL-SS-007 0 - 1 5/7/2004	*WPL-SS-008 0 - 1 5/7/2004
Chloromethane	0.3	920	1000	510	29 U								
cis-1,2-Dichloroethene	7	1900	2100	10000	460								
cis-1,3-Dichloropropene	2.6	410	470	8.4	29 U								
Ethylbenzene	70	10000	10000	29	23 U								
Methyl tert-butyl ether	2	3200	3700	190	29 U								
Methylene chloride	0.5	3500	4000	54	17 U								
Styrene	24	10000	10000	38000	29 U								
Tetrachloroethene	0.5	1500	3300	2.7	5.8 U								
Toluene	100	10000	10000	46000	29 U								
trans-1,2-Dichloroethene	10	3700	4300	500	29 U								
trans-1,3-Dichloropropene	2.6	410	470	8.4	29 U								
Trichloroethene	0.5	970	1100	14	16								
Vinyl Chloride	0.2	53	220	1.7	29 U								
Xylenes (Total)	1000	10000	10000	2600	17 J								

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Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SS-009 0 - 1 5/7/2004
Cyanide, Total					
Cyanide, Total	200	56000	190000	20000	
Hexavalent Chromium					
Hexavalent Chromium	190	420	190000	200	
Mercury					
Mercury	10	840	190000	24	
Metal					
Antimony	27	1100	190000	410	
Arsenic	150	53	190000	1.6	
Beryllium	320	5600	190000	2000	
Cadmium	38	210	190000	800	
Chromium				1400	
Copper	36000	100000	190000	41000	
Lead	450	1000	190000	800	
Nickel	650	56000	190000	20000	
Selenium	26	14000	190000	5100	
Silver	84	14000	190000	5100	
Thallium	14	200	190000	66	
Zinc	12000	190000	190000	310000	
Polychlorinated Biphenols					
Arochlor-1016	200	200	10000	21	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.085 U
Arochlor-1232	2	160	10000	0.62	0.085 U
Arochlor-1242	62	160	10000	0.74	0.085 U
Arochlor-1248	67	44	10000	0.74	0.085 U
Arochlor-1254	280	44	10000	0.74	0.038 J
Arochlor-1260	1900	130	190000	0.74	0.085 U
Arochlor-1262					
Arochlor-1268					
PCBs (Total)				0.74	0.038 J
Semi Volatile Organic Compound					
1,2,4-Trichlorobenzene	27	10000	10000	400	
1,2-Dichlorobenzene	60	10000	10000	10000	
1,3-Dichlorobenzene	61	10000	10000		
1,4-Dichlorobenzene	10	3300	190000	13	
2,4,5-Trichlorophenol	6100	190000	190000	62000	
2,4,6-Trichlorophenol	8.9	840	190000	160	
2,4-Dichlorophenol	2	8400	190000	1800	
2,4-Dimethylphenol	200	10000	10000	12000	
2,4-Dinitrophenol	4.1	5600	190000	1200	
2,4-Dinitrotoluene	0.84	260	190000	5.5	
2,6-Dinitrotoluene	10	2800	190000	620	
2-Chloronaphthalene	18000	190000	190000	82000	
2-Chlorophenol	4.4	920	1100	5100	
2-Methylnaphthalene	8000	10000	10000	4100	
2-Methylphenol	510	10000	10000	31000	
2-Nitroaniline	0.58	160	190000	1800	
2-Nitrophenol	82	22000	190000		
3,3'-Dichlorobenzidine	32	180	190000	3.8	
3-Nitroaniline	0.58	160	190000		
4,6-Dinitro-2-Methylphenol				62	

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Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SS-009 0 - 1 5/7/2004
4-Bromophenyl phenyl ether					
4-Chloro-3-Methyl-Phenol	110	14000	190000		
4-Chloroaniline	52	11000	190000	8.6	
4-Chlorodiphenyl Ether					
4-METHYLPHENOL	51	14000	190000	3100	
4-Nitroaniline	0.58	160	190000	86	
4-Nitrophenol	6	22000	190000		
Acenaphthene	4700	170000	190000	33000	
Acenaphthylene	6900	170000	190000	33000	
Anthracene	350	190000	190000	170000	
Benzo (A) Anthracene	320	110	190000	2.1	
Benzo (a) Pyrene	46	11	190000	0.21	
Benzo (b) Fluoranthene	170	110	190000	2.1	
Benzo (g,h,i) Perylene	180	170000	190000		
Benzo (k) Fluoranthene	610	1100	190000	21	
Bis(2-Chloroethoxy) Methane				1800	
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	
Bis(2-Chloroisopropyl) Ether	30	160	190	17	
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	
Butylbenzylphthalate	10000	10000	10000	910	
Carbazole	83	4000	190000		
Chrysene	230	11000	190000	210	
Dibenzo (a,h) Anthracene	160	11	190000	0.21	
Dibenzofuran					
Diethylphthalate	500	10000	10000	490000	
Dimethylphthalate					
Di-n-Butylphthalate	4100	10000	10000	62000	
Di-n-octylphthalate	10000	10000	10000		
Fluoranthene	3200	110000	190000	22000	
Fluorene	3800	110000	190000	22000	
Hexachlorobenzene	0.96	50	190000	1.1	
Hexachlorobutadiene	1.2	560	10000	22	
Hexachlorocyclopentadiene	91	10000	10000	3700	
Hexachloroethane	0.56	2800	190000	120	
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	
Isophorone	10	10000	10000	1800	
Naphthalene	25	56000	190000	20	
Nitrobenzene	5.1	1400	10000	22	
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	
N-Nitrosodiphenylamine	83	16000	190000	350	
Pentachlorophenol	5	660	190000	9	
Phenanthrene	10000	190000	190000		
Phenol	400	190000	190000	180000	
Pyrene	2200	84000	190000	17000	
Toxicity Characteristic Leaching Procedure - Mercury					
Mercury	10	840	190000	24	
Nickel	650	56000	190000	20000	
Toxicity Characteristic Leaching Procedure - Metal					
Antimony	27	1100	190000	410	
Arsenic	150	53	190000	1.6	
Barium	8200	190000	190000	190000	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SS-009 0 - 1 5/7/2004
Beryllium	320	5600	190000	2000	
Cadmium	38	210	190000	800	
Chromium				1400	
Copper	36000	100000	190000	41000	
Lead	450	1000	190000	800	
Nickel	650	56000	190000	20000	
Selenium	26	14000	190000	5100	
Silver	84	14000	190000	5100	
Thallium	14	200	190000	66	
Zinc	12000	190000	190000	310000	
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound					
1,1-Dichloroethene	0.7	33	38	1100	
1,2-Dichloroethane	0.5	63	73	2.2	
2-Butanone	580	10000	10000	190000	
Benzene	0.5	210	240	5.6	
Carbon Tetrachloride	0.5	110	120	1.3	
Chlorobenzene	10	10000	10000	1500	
Chloroform	10	17	19	1.5	
Tetrachloroethene	0.5	1500	3300	2.7	
Trichloroethene	0.5	970	1100	14	
Vinyl Chloride	0.2	53	220	1.7	
Total Solids					
Moisture					
Percent Solids					
Volatile Organic Compound					
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	
1,1,1-Trichloroethane	20	10000	10000	39000	
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	
1,1,2-Trichloroethane	0.5	100	120	5.5	
1,1-Dichloroethane	11	1000	1200	17	
1,1-Dichloroethene	0.7	33	38	1100	
1,2-Dibromoethane	0.005	0.93	8.6	0.17	
1,2-Dichloroethane	0.5	63	73	2.2	
1,2-Dichloropropane	0.5	160	180	4.7	
1,4-Dioxane	2.4	210	240	160	
2-Butanone	580	10000	10000	190000	
2-Hexanone					
4-Methyl-2-Pentanone	41	4300	4900	52000	
Acetone	1000	10000	10000	610000	
Acrylonitrile	0.27	24	28	1.2	
Benzene	0.5	210	240	5.6	
Bromochloromethane	9	10000	10000		
Bromodichloromethane	10	45	51	1.4	
Bromoform	10	1500	1700	220	
Bromomethane	1	270	300	35	
Carbon Disulfide	410	10000	10000	3000	
Carbon Tetrachloride	0.5	110	120	1.3	
Chlorobenzene	10	10000	10000	1500	
Chlorodibromomethane	10	61	70	3.4	
Chloroethane	90	10000	10000	62000	
Chloroform	10	17	19	1.5	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.

Table 3.5-2
Soils Data Summary - West Parking Lot (WPL)
Former York Naval Ordnance Plant - York, PA

Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	WPL-SS-009 0 - 1 5/7/2004
Chloromethane	0.3	920	1000	510	
cis-1,2-Dichloroethene	7	1900	2100	10000	
cis-1,3-Dichloropropene	2.6	410	470	8.4	
Ethylbenzene	70	10000	10000	29	
Methyl tert-butyl ether	2	3200	3700	190	
Methylene chloride	0.5	3500	4000	54	
Styrene	24	10000	10000	38000	
Tetrachloroethene	0.5	1500	3300	2.7	
Toluene	100	10000	10000	46000	
trans-1,2-Dichloroethene	10	3700	4300	500	
trans-1,3-Dichloropropene	2.6	410	470	8.4	
Trichloroethene	0.5	970	1100	14	
Vinyl Chloride	0.2	53	220	1.7	
Xylenes (Total)	1000	10000	10000	2600	

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference. * = excavated location.