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-078 0 - 2 4/12/2007	WPL-SB-078 4 - 6 4/12/2007	WPL-SB-079 0 - 2 4/12/2007	WPL-SB-079 8 - 10 4/12/2007	WPL-SB-080 0 - 2 4/12/2007	WPL-SB-080 8 - 10 4/12/2007	WPL-SB-081 0 - 1 4/12/2007	WPL-SB-081 8 - 10 4/12/2007	WPL-SB-082 0 - 1 4/12/2007	WPL-SB-082 8 - 10 4/12/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.58 U	0.62 U	0.58 U	0.66 U	0.63 U	0.64 U	0.59 U	0.63 U	0.62 U	0.63 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.58 U	0.62 U	0.58 U	0.66 U	0.25 B	0.64 U	0.59 U	0.17 B	0.62 U	0.63 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	15.4	0.49 U	0.47 U	0.54 U	17.1	0.39 B	0.48 U	0.5 U	0.49 U	0.44 B
Mercury														
Mercury	10	840	190000	24	0.32	0.043	0.077	0.031 B	0.96	0.028 B	0.14	0.022 B	0.11	0.046
Metal														
Antimony	27	1100	190000	410	2.4	1.2 U	0.5 B	1.3 U	44.5	0.28 B	1.1 B	0.19 B	0.7 B	1.3 U
Arsenic	150	53	190000	1.6	3.2	3.8	3.4	4.3	16.5	4.8	4.9	5.4	5.7	4.2
Barium	8200	190000	190000	190000	146	119	55.2	40.9	407	37.2	133	54.1	146	46.6
Beryllium	320	5600	190000	2000	0.68	0.92	0.59	0.68	0.4 B	0.63	0.56	0.62	0.81	0.63
Cadmium	38	210	190000	800	3	0.62 U	0.58 U	0.66 U	54.1	0.64 U	1.1	0.63 U	1	0.63 U
Chromium				1400	57.4	15.4	15.2	15.4	820	19.8	48.3	24.4	45.1	19.6
Copper	36000	100000	190000	41000	157	11.6	29.9	18	1180	26.7	54.7	29.5	52.2	17.4
Lead	450	1000	190000	800	271	16.9	21.1	10.9	2130	34.2	68.4	20.8	58.1	10.8
Nickel	650	56000	190000	20000	13.5	10.6	7.4	13.7	116	13.8	14.8	13.6	14.6	12.7
Selenium	26	14000	190000	5100	0.58 U	0.62 U	0.58 U	0.66 U	3.1 U	0.64 U	0.59 U	0.63 U	0.62 U	0.63 U
Silver	84	14000	190000	5100	2.4	0.62 U	0.14 B	0.66 U	19.7	0.065 B	0.71	0.11 B	0.54 B	0.63 U
Thallium	14	200	190000	66	0.76 B J	0.62 B J	0.43 B J	0.5 B J	6.3 U	1.3 U	1.2 U	0.58 B J	1.2 U	1 B J
Vanadium	72000	20000	190000	7200	19.8	20.2	19.7	23.4	29.4 B	24.5	16.9	24.3	21.3	22.2
Zinc	12000	190000	190000	310000	417	43.7	46.8	46.3	5520	75.5	203	76.5	205	46.2
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.019 U	0.021 U	0.019 U	0.022 U	1 U	0.021 U	0.2 U	0.021 U	0.021 U	0.021 U
Arochlor-1221	2.5	160	10000	0.62	0.019 U	0.021 U	0.019 U	0.022 U	1 U	0.021 U	0.2 U	0.021 U	0.021 U	0.021 U
Arochlor-1232	2	160	10000	0.62	0.019 U	0.021 U	0.019 U	0.022 U	1 U	0.021 U	0.2 U	0.021 U	0.021 U	0.021 U
Arochlor-1242	62	160	10000	0.74	0.019 U	0.021 U	0.019 U	0.022 U	1 U	0.021 U	0.2 U	0.021 U	0.021 U	0.021 U
Arochlor-1248	67	44	10000	0.74	0.019 U	0.021 U	0.019 U	0.022 U	1 U	0.021 U	0.2 U	0.021 U	0.021 U	0.021 U
Arochlor-1254	280	44	10000	0.74	0.074	0.021 U	0.019 U	0.022 U	93	5	7.6	2.5	3.9	0.035
Arochlor-1260	1900	130	190000	0.74	0.019 U	0.021 U	5.2	0.0065 J	1 U	0.021 U	0.2 U	0.021 U	0.021 U	0.021 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
1,2-Dichlorobenzene	60	10000	10000	10000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2,6-Dinitrotoluene	10	2800	190000	620	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2-Chloronaphthalene	18000	190000	190000	82000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	1.9 U	0.41 U	0.021 J	0.44 U	0.032 J	0.42 U	0.14 J	0.42 U	0.067 J	0.42 U
2-Methylphenol	510	10000	10000	31000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
2-Nitrophenol	82	22000	190000		1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 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-078 0 - 2 4/12/2007	WPL-SB-078 4 - 6 4/12/2007	WPL-SB-079 0 - 2 4/12/2007	WPL-SB-079 8 - 10 4/12/2007	WPL-SB-080 0 - 2 4/12/2007	WPL-SB-080 8 - 10 4/12/2007	WPL-SB-081 0 - 1 4/12/2007	WPL-SB-081 8 - 10 4/12/2007	WPL-SB-082 0 - 1 4/12/2007	WPL-SB-082 8 - 10 4/12/2007
3/4-Methylphenol				5100	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
3-Nitroaniline	0.58	160	190000		9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
4,6-Dinitro-2-Methylphenol				62	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
4-Bromophenyl phenyl ether					1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
4-Chlorodiphenyl Ether					1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
4-Nitrophenol	6	22000	190000		9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
Acenaphthene	4700	170000	190000	33000	1.9 U	0.41 U	0.057 J	0.44 U	0.087 J	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	1.9 U	0.41 U	0.15 J	0.44 U	0.1 J	0.42 U	0.13 J	0.42 U	0.082 J	0.42 U
Anthracene	350	190000	190000	170000	1.9 U	0.41 U	0.18 J	0.44 U	0.25 J	0.42 U	0.19 J	0.42 U	0.093 J	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.3 J	0.41 U	0.34 J	0.44 U	0.92	0.42 U	0.3 J	0.42 U	0.16 J	0.42 U
Benzo (a) Pyrene	46	11	190000	0.21	0.27 J	0.41 U	0.32 J	0.44 U	0.91	0.42 U	0.3 J	0.42 U	0.16 J	0.42 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.31 J	0.41 U	0.34 J	0.44 U	1.2	0.42 U	0.52 J	0.42 U	0.23 J	0.42 U
Benzo (g,h,i) Perylene	180	170000	190000		0.29 J	0.41 U	0.26 J	0.44 U	0.59 J	0.42 U	0.3 J	0.42 U	0.12 J	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.13 J	0.41 U	0.12 J	0.44 U	0.37 J	0.42 U	0.18 J	0.42 U	0.077 J	0.42 U
Bis(2-Chloroethoxy) Methane				1800	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	1.9 U	0.41 U	0.38 U	0.44 U	0.43 J	0.42 U	0.78 U	0.42 U	0.029 J	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Carbazole	83	4000	190000		1.9 U	0.41 U	0.07 J	0.44 U	0.12 J	0.42 U	0.074 J	0.42 U	0.032 J	0.42 U
Chrysene	230	11000	190000	210	0.32 J	0.41 U	0.39	0.44 U	0.96	0.42 U	0.42 J	0.42 U	0.21 J	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	1.9 U	0.41 U	0.054 J	0.44 U	0.14 J	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Dibenzofuran					1.9 U	0.41 U	0.035 J	0.44 U	0.043 J	0.42 U	0.059 J	0.42 U	0.028 J	0.42 U
Diethylphthalate	500	10000	10000	490000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Dimethylphthalate					1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.48 J	0.031 J	0.67	0.44 U	2.4	0.42 U	0.49 J	0.42 U	0.3 J	0.42 U
Fluorene	3800	110000	190000	22000	1.9 U	0.41 U	0.067 J	0.44 U	0.057 J	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Hexachlorobutadiene	1.2	560	10000	22	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Hexachlorocyclopentadiene	91	10000	10000	3700	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
Hexachloroethane	0.56	2800	190000	120	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.21 J	0.41 U	0.22 J	0.44 U	0.55 J	0.42 U	0.28 J	0.42 U	0.11 J	0.42 U
Isophorone	10	10000	10000	1800	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Naphthalene	25	56000	190000	20	1.9 U	0.41 U	0.041 J	0.44 U	0.83 U	0.42 U	0.099 J	0.42 U	0.052 J	0.42 U
Nitrobenzene	5.1	1400	10000	22	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
N-Nitrosodiphenylamine	83	16000	190000	350	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Pentachlorophenol	5	660	190000	9	9.2 U	2 U	1.8 U	2.1 U	4 U	2.1 U	3.8 U	2 U	2 U	2 U
Phenanthrene	10000	190000	190000		0.21 J	0.024 J	0.56	0.44 U	0.93	0.42 U	0.25 J	0.42 U	0.13 J	0.42 U
Phenol	400	190000	190000	180000	1.9 U	0.41 U	0.38 U	0.44 U	0.83 U	0.42 U	0.78 U	0.42 U	0.41 U	0.42 U
Pyrene	2200	84000	190000	17000	0.46 J	0.029 J	0.62	0.44 U	1.1	0.42 U	0.38 J	0.019 J	0.22 J	0.42 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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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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-078 0 - 2 4/12/2007	WPL-SB-078 4 - 6 4/12/2007	WPL-SB-079 0 - 2 4/12/2007	WPL-SB-079 8 - 10 4/12/2007	WPL-SB-080 0 - 2 4/12/2007	WPL-SB-080 8 - 10 4/12/2007	WPL-SB-081 0 - 1 4/12/2007	WPL-SB-081 8 - 10 4/12/2007	WPL-SB-082 0 - 1 4/12/2007	WPL-SB-082 8 - 10 4/12/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					86.80%	81.10%	86.70%	75.30%	79.50%	77.90%	84.40%	79.30%	81.20%	79.10%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,1-Dichloroethane	11	1000	1200	17	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,1-Dichloroethene	0.7	33	38	1100	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1 U	1 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U
2-Butanone	580	10000	10000	190000	0.022 U	0.02 U	0.021 U	0.023 U	0.025 U	0.025 U	0.024 U	0.0043 J	0.023 U	0.023 U
2-Hexanone					0.022 U	0.02 U	0.021 U	0.023 U	0.025 U	0.025 U	0.024 U	0.022 U	0.023 U	0.023 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.022 U	0.02 U	0.021 U	0.023 U	0.025 U	0.025 U	0.024 U	0.022 U	0.023 U	0.023 U
Acetone	1000	10000	10000	610000	0.022 U	0.0067 J	0.021 U	0.023 U	0.025 U	0.025 U	0.024 U	0.023	0.023 U	0.023 U
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.1 U	0.1 U	0.12 U	0.12 U	0.13 U	0.12 U	0.11 U	0.12 U	0.11 U
Benzene	0.5	210	240	5.6	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Bromochloromethane	9	10000	10000		0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Bromodichloromethane	10	45	51	1.4	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Bromoform	10	1500	1700	220	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Bromomethane	1	270	300	35	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Carbon Disulfide	410	10000	10000	3000	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0015 J	0.0058 U	0.0056 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Chlorobenzene	10	10000	10000	1500	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Chlorodibromomethane	10	61	70	3.4	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Chloroethane	90	10000	10000	62000	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Chloroform	10	17	19	1.5	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Chloromethane	0.3	920	1000	510	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0044 J	0.0051	0.0052 U	0.0058 U	0.0062 U	0.15	0.0061 U	0.023	0.0058 U	0.0024 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Ethylbenzene	70	10000	10000	29	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Methyl tert-butyl ether	2	3200	3700	190	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 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-078 0 - 2 4/12/2007	WPL-SB-078 4 - 6 4/12/2007	WPL-SB-079 0 - 2 4/12/2007	WPL-SB-079 8 - 10 4/12/2007	WPL-SB-080 0 - 2 4/12/2007	WPL-SB-080 8 - 10 4/12/2007	WPL-SB-081 0 - 1 4/12/2007	WPL-SB-081 8 - 10 4/12/2007	WPL-SB-082 0 - 1 4/12/2007	WPL-SB-082 8 - 10 4/12/2007
Methylene chloride	0.5	3500	4000	54	0.0013 J	0.0014 J	0.0017 J	0.0018 J	0.0032 J	0.003 J	0.0023 J	0.0033 J	0.0019 J	0.0011 J
Styrene	24	10000	10000	38000	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0029 J	0.0058 U	0.0056 U
Toluene	100	10000	10000	46000	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0064 U	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Trichloroethene	0.5	970	1100	14	0.0034 J	0.0017 J	0.0052 U	0.0058 U	0.013	0.0066	0.0034 J	0.017	0.0017 J	0.0056 U
Vinyl Chloride	0.2	53	220	1.7	0.0055 U	0.0051 U	0.0052 U	0.0058 U	0.0062 U	0.0018 J	0.0061 U	0.0056 U	0.0058 U	0.0056 U
Xylenes (Total)	1000	10000	10000	2600	0.017 U	0.015 U	0.016 U	0.018 U	0.019 U	0.019 U	0.018 U	0.017 U	0.018 U	0.017 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-083 1 - 3 4/17/2007	WPL-SB-083 1 - 3 4/13/2007	WPL-SB-083 6 - 8 4/13/2007	WPL-SB-083 8 - 10 4/17/2007	WPL-SB-084 1 - 3 4/13/2007	WPL-SB-084 2 - 4 4/17/2007	WPL-SB-084 8 - 10 4/17/2007	WPL-SB-084 8 - 10 4/13/2007	WPL-SB-085 1 - 3 4/17/2007	WPL-SB-085 9 - 11 4/17/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000		0.58 U	0.64 U		0.62 U			0.65 U	0.62 U	0.65 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000		0.16 B J	0.64 U		0.62 U			0.19 B J	0.75 J	0.38 B J
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200		0.47 U	0.19 B		1.3			0.54 U	0.48 U	0.5 U
Mercury														
Mercury	10	840	190000	24		0.038	0.027 B		0.055			0.037 B	0.042	0.016 B
Metal														
Antimony	27	1100	190000	410		0.15 B	1.3 U		1.2 U			1.3 U	1.2 U	1.3 U
Arsenic	150	53	190000	1.6		5	5		5			4	3.4	4.6
Barium	8200	190000	190000	190000		55.9	43.4		80.9			40.8	67.5	35.4
Beryllium	320	5600	190000	2000		0.66 J	0.85 J		0.78 J			0.53 J	0.74 J	0.89 J
Cadmium	38	210	190000	800		0.47 B	0.79		0.96			0.69	0.32 B	0.3 B
Chromium				1400		11.9	22.2		20.8			17.3	18.7	14.2
Copper	36000	100000	190000	41000		14.9	22.7		15.6			17.7	13.9	19.6
Lead	450	1000	190000	800		13.8	11.9		38.2			9.2	26 J	11.1 J
Nickel	650	56000	190000	20000		5.4	15.7		14.6			13.1	8.9	13.5
Selenium	26	14000	190000	5100		0.58 U	0.64 U		0.62 U			0.65 U	0.62 U	0.65 U
Silver	84	14000	190000	5100		0.58 U	0.64 U		0.62 U			0.65 U	0.62 U	0.65 U
Thallium	14	200	190000	66		1.2 U	1.3 U		1.2 U			1.3 U	1.2 U	1.3 U
Vanadium	72000	20000	190000	7200		18.2	33.3		25.1			24.3	19.4	24.2
Zinc	12000	190000	190000	310000		16.7	47.8		61.3			43.3	48.3 J	43.9 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21		0.019 U	0.021 U		0.021 U			0.022 U	0.021 U	0.022 U
Arochlor-1221	2.5	160	10000	0.62		0.019 U	0.021 U		0.021 U			0.022 U	0.021 U	0.022 U
Arochlor-1232	2	160	10000	0.62		0.019 U	0.021 U		0.0064 J			0.022 U	0.021 U	0.022 U
Arochlor-1242	62	160	10000	0.74		0.019 U	0.021 U		0.021 U			0.022 U	0.021 U	0.022 U
Arochlor-1248	67	44	10000	0.74		0.019 U	0.021 U		0.021 U			0.022 U	0.021 U	0.022 U
Arochlor-1254	280	44	10000	0.74		0.019 U	0.021 U		0.021 U			0.022 U	0.021 U	0.022 U
Arochlor-1260	1900	130	190000	0.74		0.019 U	0.021 U		0.027			0.022 U	0.021 U	0.022 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
1,2-Dichlorobenzene	60	10000	10000	10000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
1,3-Dichlorobenzene	61	10000	10000			0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
1,4-Dichlorobenzene	10	3300	190000	13		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2,4,5-Trichlorophenol	6100	190000	190000	62000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2,4,6-Trichlorophenol	8.9	840	190000	160		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2,4-Dichlorophenol	2	8400	190000	1800		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2,4-Dimethylphenol	200	10000	10000	12000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2,4-Dinitrophenol	4.1	5600	190000	1200		1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
2,4-Dinitrotoluene	0.84	260	190000	5.5		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2,6-Dinitrotoluene	10	2800	190000	620		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2-Chloronaphthalene	18000	190000	190000	82000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2-Chlorophenol	4.4	920	1100	5100		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2-Methylnaphthalene	8000	10000	10000	4100		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2-Methylphenol	510	10000	10000	31000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
2-Nitroaniline	0.58	160	190000	1800		1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
2-Nitrophenol	82	22000	190000			0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
3,3'-Dichlorobenzidine	32	180	190000	3.8		1.9 U	2 U		6 U			2.1 U	2 U	2.1 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)	WPL-SB-083 1 - 3 4/17/2007	WPL-SB-083 1 - 3 4/13/2007	WPL-SB-083 6 - 8 4/13/2007	WPL-SB-083 8 - 10 4/17/2007	WPL-SB-084 1 - 3 4/13/2007	WPL-SB-084 2 - 4 4/17/2007	WPL-SB-084 8 - 10 4/17/2007	WPL-SB-084 8 - 10 4/13/2007	WPL-SB-085 1 - 3 4/17/2007	WPL-SB-085 9 - 11 4/17/2007
3/4-Methylphenol				5100		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
3-Nitroaniline	0.58	160	190000			1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
4,6-Dinitro-2-Methylphenol				62		1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
4-Bromophenyl phenyl ether						0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
4-Chloro-3-Methyl-Phenol	110	14000	190000			0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
4-Chloroaniline	52	11000	190000	8.6		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
4-Chlorodiphenyl Ether						0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86		1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
4-Nitrophenol	6	22000	190000			1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
Acenaphthene	4700	170000	190000	33000		0.38 U	0.42 U		0.19 J			0.43 U	0.41 U	0.43 U
Acenaphthylene	6900	170000	190000	33000		0.027 J	0.42 U		0.083 J			0.43 U	0.41 U	0.43 U
Anthracene	350	190000	190000	170000		0.03 J	0.42 U		0.51 J			0.43 U	0.41 U	0.43 U
Benzo (A) Anthracene	320	110	190000	2.1		0.19 J	0.42 U		0.96 J			0.43 U	0.023 J	0.43 U
Benzo (a) Pyrene	46	11	190000	0.21		0.18 J	0.42 U		0.69 J			0.43 U	0.41 U	0.43 U
Benzo (b) Fluoranthene	170	110	190000	2.1		0.19 J	0.42 U		0.73 J			0.43 U	0.41 U	0.43 U
Benzo (g,h,i) Perylene	180	170000	190000			0.12 J	0.42 U		0.4 J			0.43 U	0.41 U	0.43 U
Benzo (k) Fluoranthene	610	1100	190000	21		0.073 J	0.42 U		0.31 J			0.43 U	0.41 U	0.43 U
Bis(2-Chloroethoxy) Methane				1800		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Butylbenzylphthalate	10000	10000	10000	910		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Carbazole	83	4000	190000			0.38 U	0.42 U		0.05 J			0.43 U	0.41 U	0.43 U
Chrysene	230	11000	190000	210		0.18 J	0.42 U		0.78 J			0.43 U	0.028 J	0.43 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21		0.033 J	0.42 U		0.06 J			0.43 U	0.41 U	0.43 U
Dibenzofuran						0.38 U	0.42 U		0.079 J			0.43 U	0.41 U	0.43 U
Diethylphthalate	500	10000	10000	490000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Dimethylphthalate						0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Di-n-Butylphthalate	4100	10000	10000	62000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Di-n-octylphthalate	10000	10000	10000			0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Fluoranthene	3200	110000	190000	22000		0.28 J	0.42 U		2.2			0.43 U	0.41 U	0.43 U
Fluorene	3800	110000	190000	22000		0.38 U	0.42 U		0.21 J			0.43 U	0.41 U	0.43 U
Hexachlorobenzene	0.96	50	190000	1.1		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Hexachlorobutadiene	1.2	560	10000	22		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Hexachlorocyclopentadiene	91	10000	10000	3700		1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
Hexachloroethane	0.56	2800	190000	120		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1		0.12 J	0.42 U		0.42 J			0.43 U	0.41 U	0.43 U
Isophorone	10	10000	10000	1800		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Naphthalene	25	56000	190000	20		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Nitrobenzene	5.1	1400	10000	22		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
N-Nitrosodiphenylamine	83	16000	190000	350		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Pentachlorophenol	5	660	190000	9		1.9 U	2 U		6 U			2.1 U	2 U	2.1 U
Phenanthrene	10000	190000	190000			0.096 J	0.42 U		1.4			0.43 U	0.027 J	0.43 U
Phenol	400	190000	190000	180000		0.38 U	0.42 U		1.2 U			0.43 U	0.41 U	0.43 U
Pyrene	2200	84000	190000	17000		0.25 J	0.42 U		1.6			0.43 U	0.041 J	0.43 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-083 1 - 3 4/17/2007	WPL-SB-083 1 - 3 4/13/2007	WPL-SB-083 6 - 8 4/13/2007	WPL-SB-083 8 - 10 4/17/2007	WPL-SB-084 1 - 3 4/13/2007	WPL-SB-084 2 - 4 4/17/2007	WPL-SB-084 8 - 10 4/17/2007	WPL-SB-084 8 - 10 4/13/2007	WPL-SB-085 1 - 3 4/17/2007	WPL-SB-085 9 - 11 4/17/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					85.70%			77.10%		80.80%	77.20%		80.50%	76.60%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,1-Dichloroethane	11	1000	1200	17	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,1-Dichloroethene	0.7	33	38	1100	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
1,4-Dioxane	2.4	210	240	160	0.98 U			1.1 U		1.1 U	1.2 U		1 U	1.1 U
2-Butanone	580	10000	10000	190000	0.02 U			0.023 U		0.0048 J	0.024 U		0.021 U	0.022 U
2-Hexanone					0.02 U			0.023 U		0.023 U	0.024 U		0.021 U	0.022 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U			0.023 U		0.023 U	0.024 U		0.021 U	0.022 U
Acetone	1000	10000	10000	610000	0.02 U			0.023 U		0.021 J	0.01 J		0.02 J	0.022 U
Acrylonitrile	0.27	24	28	1.2	0.098 U			0.11 U		0.11 U	0.12 U		0.1 U	0.11 U
Benzene	0.5	210	240	5.6	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Bromochloromethane	9	10000	10000		0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Bromodichloromethane	10	45	51	1.4	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Bromoform	10	1500	1700	220	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Bromomethane	1	270	300	35	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Carbon Disulfide	410	10000	10000	3000	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Chlorobenzene	10	10000	10000	1500	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Chlorodibromomethane	10	61	70	3.4	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Chloroethane	90	10000	10000	62000	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Chloroform	10	17	19	1.5	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Chloromethane	0.3	920	1000	510	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0049 U			0.0057 U		0.0024 J	0.0049 J		0.0052 U	0.0055 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Ethylbenzene	70	10000	10000	29	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Methyl tert-butyl ether	2	3200	3700	190	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 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-083 1 - 3 4/17/2007	WPL-SB-083 1 - 3 4/13/2007	WPL-SB-083 6 - 8 4/13/2007	WPL-SB-083 8 - 10 4/17/2007	WPL-SB-084 1 - 3 4/13/2007	WPL-SB-084 2 - 4 4/17/2007	WPL-SB-084 8 - 10 4/17/2007	WPL-SB-084 8 - 10 4/13/2007	WPL-SB-085 1 - 3 4/17/2007	WPL-SB-085 9 - 11 4/17/2007
Methylene chloride	0.5	3500	4000	54	0.0042 J B			0.0047 J B		0.0028 J B	0.0024 J B		0.0024 J B	0.0036 J B
Styrene	24	10000	10000	38000	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Toluene	100	10000	10000	46000	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Trichloroethene	0.5	970	1100	14	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Vinyl Chloride	0.2	53	220	1.7	0.0049 U			0.0057 U		0.0057 U	0.006 U		0.0052 U	0.0055 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U			0.017 U		0.017 U	0.018 U		0.016 U	0.016 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-086 1 - 3 4/17/2007	WPL-SB-086 1 - 3 4/13/2007	WPL-SB-086 6 - 8 4/17/2007	WPL-SB-086 6 - 8 4/13/2007	WPL-SB-087 0 - 2 4/18/2007	WPL-SB-087 8 - 10 4/18/2007	WPL-SB-088 2 - 4 4/17/2007	WPL-SB-088 2 - 4 4/13/2007	WPL-SB-088 13 - 15 4/17/2007	WPL-SB-088 13 - 15 4/13/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000		0.58 U		0.65 U	0.58 U	0.57 U		0.62 U		0.58 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000		0.58 U		0.65 U	0.26 B	0.17 B		0.52 B J		0.42 B J
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200		0.46 U		0.51 U	0.29 B	0.44 U		13.2		0.44 U
Mercury														
Mercury	10	840	190000	24		0.027 B		0.036 B	0.056	0.014 B		0.63		0.39
Metal														
Antimony	27	1100	190000	410		0.11 B		1.3 U	1.2 UJ	1.1 UJ		10.5		45.1
Arsenic	150	53	190000	1.6		4.8		5.8	5.2	3.2		11.2		26
Barium	8200	190000	190000	190000		58.1		49.1	74.8	36		410		614
Beryllium	320	5600	190000	2000		0.62 J		0.91 J	0.85 J	0.63 J		0.56 J		0.15 B J
Cadmium	38	210	190000	800		0.56 B		0.71	0.81	0.28 B		10.9		6.8
Chromium				1400		12.7		20	22.7	15		374		220
Copper	36000	100000	190000	41000		13.4		18.6	56.1	13.5		2780		4640
Lead	450	1000	190000	800		18		11.6	31.3 J	10.2 J		678		4740
Nickel	650	56000	190000	20000		5.6		12.7	11.3	11.5		361		173
Selenium	26	14000	190000	5100		0.58 U		0.65 U	0.58 U	0.57 U		3.1 U		2.9 U
Silver	84	14000	190000	5100		0.58 U		0.65 U	0.2 B	0.57 U		13.7		9.8
Thallium	14	200	190000	66		1.2 U		1.3 U	1.2 U	1.1 U		2.5 U		5.8 U
Vanadium	72000	20000	190000	7200		18		27.8	21.9	15.5		44.8		20.1
Zinc	12000	190000	190000	310000		24.5		45.2	108 J	34.5 J		1750		1770
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21		0.019 U		0.022 U	0.019 U	0.019 U		0.1 U		0.019 U
Arochlor-1221	2.5	160	10000	0.62		0.019 U		0.022 U	0.019 U	0.019 U		0.1 U		0.019 U
Arochlor-1232	2	160	10000	0.62		0.019 U		0.022 U	0.019 U	0.019 U		16		0.019 U
Arochlor-1242	62	160	10000	0.74		0.019 U		0.022 U	0.019 U	0.019 U		0.1 U		0.019 U
Arochlor-1248	67	44	10000	0.74		0.019 U		0.022 U	0.019 U	0.019 U		0.1 U		0.019 U
Arochlor-1254	280	44	10000	0.74		0.019		0.022 U	0.63	0.019 U		11		2.1
Arochlor-1260	1900	130	190000	0.74		0.019 U		0.022 U	0.019 U	0.019 U		18		1.1
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
1,2-Dichlorobenzene	60	10000	10000	10000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
1,3-Dichlorobenzene	61	10000	10000			0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
1,4-Dichlorobenzene	10	3300	190000	13		0.38 U		0.43 U	0.015 J	0.013 J		1.6 U		1.5 U
2,4,5-Trichlorophenol	6100	190000	190000	62000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2,4,6-Trichlorophenol	8.9	840	190000	160		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2,4-Dichlorophenol	2	8400	190000	1800		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2,4-Dimethylphenol	200	10000	10000	12000		0.38 U		0.43 U	0.38 U	0.38 U		0.11 J		1.5 U
2,4-Dinitrophenol	4.1	5600	190000	1200		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
2,4-Dinitrotoluene	0.84	260	190000	5.5		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2,6-Dinitrotoluene	10	2800	190000	620		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2-Chloronaphthalene	18000	190000	190000	82000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2-Chlorophenol	4.4	920	1100	5100		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2-Methylnaphthalene	8000	10000	10000	4100		0.066 J		0.43 U	0.0098 J	0.38 U		0.07 J		0.23 J
2-Methylphenol	510	10000	10000	31000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
2-Nitroaniline	0.58	160	190000	1800		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
2-Nitrophenol	82	22000	190000			0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
3,3'-Dichlorobenzidine	32	180	190000	3.8		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 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-086 1 - 3 4/17/2007	WPL-SB-086 1 - 3 4/13/2007	WPL-SB-086 6 - 8 4/17/2007	WPL-SB-086 6 - 8 4/13/2007	WPL-SB-087 0 - 2 4/18/2007	WPL-SB-087 8 - 10 4/18/2007	WPL-SB-088 2 - 4 4/17/2007	WPL-SB-088 2 - 4 4/13/2007	WPL-SB-088 13 - 15 4/17/2007	WPL-SB-088 13 - 15 4/13/2007
3/4-Methylphenol				5100		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
3-Nitroaniline	0.58	160	190000			1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
4,6-Dinitro-2-Methylphenol				62		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
4-Bromophenyl phenyl ether						0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
4-Chloro-3-Methyl-Phenol	110	14000	190000			0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
4-Chloroaniline	52	11000	190000	8.6		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
4-Chlorodiphenyl Ether						0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
4-Nitrophenol	6	22000	190000			1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
Acenaphthene	4700	170000	190000	33000		0.58		0.43 U	0.38 U	0.38 U		0.093 J		0.87 J
Acenaphthylene	6900	170000	190000	33000		0.008 J		0.43 U	0.38 U	0.38 U		0.075 J		1.5 U
Anthracene	350	190000	190000	170000		1.5		0.43 U	0.013 J	0.38 U		0.23 J		0.66 J
Benzo (A) Anthracene	320	110	190000	2.1		2.7		0.43 U	0.054 J	0.38 U		0.34 J		0.64 J
Benzo (a) Pyrene	46	11	190000	0.21		2.8		0.43 U	0.051 J	0.38 U		1.6 U		1.5 U
Benzo (b) Fluoranthene	170	110	190000	2.1		2.8		0.43 U	0.089 J	0.0088 J		0.51 J		1.5 U
Benzo (g,h,i) Perylene	180	170000	190000			1.8		0.43 U	0.025 J	0.38 U		0.55 J		1.5 U
Benzo (k) Fluoranthene	610	1100	190000	21		1.1		0.43 U	0.38 U	0.38 U		0.13 J		1.5 U
Bis(2-Chloroethoxy) Methane				1800		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120		0.38 U		0.43 U	0.38 U	0.046 J		1.6 U		0.55 J
Butylbenzylphthalate	10000	10000	10000	910		0.38 U		0.43 U	0.015 J	0.01 J		1.6 U		1.5 U
Carbazole	83	4000	190000			0.68		0.43 U	0.38 U	0.38 U		0.088 J		0.49 J
Chrysene	230	11000	190000	210		2.1		0.43 U	0.077 J	0.0077 J		0.37 J		0.94 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21		0.41		0.43 U	0.0069 J	0.38 U		1.6 U		1.5 U
Dibenzofuran						0.29 J		0.43 U	0.01 J	0.38 U		0.13 J		0.68 J
Diethylphthalate	500	10000	10000	490000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Dimethylphthalate						0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Di-n-Butylphthalate	4100	10000	10000	62000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Di-n-octylphthalate	10000	10000	10000			0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Fluoranthene	3200	110000	190000	22000		6.8		0.43 U	0.14 J	0.0099 J		1 J		4.5
Fluorene	3800	110000	190000	22000		0.52		0.43 U	0.0094 J	0.38 U		0.12 J		1.2 J
Hexachlorobenzene	0.96	50	190000	1.1		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Hexachlorobutadiene	1.2	560	10000	22		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Hexachlorocyclopentadiene	91	10000	10000	3700		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
Hexachloroethane	0.56	2800	190000	120		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1		1.5		0.43 U	0.025 J	0.38 U		0.33 J		1.5 U
Isophorone	10	10000	10000	1800		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Naphthalene	25	56000	190000	20		0.32 J		0.43 U	0.014 J	0.38 U		1.6 U		0.51 J
Nitrobenzene	5.1	1400	10000	22		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
N-Nitrosodiphenylamine	83	16000	190000	350		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Pentachlorophenol	5	660	190000	9		1.8 U		2.1 U	1.9 U	1.8 U		8 U		7.4 U
Phenanthrene	10000	190000	190000			5.8		0.43 U	0.08 J	0.38 U		0.64 J		4.5
Phenol	400	190000	190000	180000		0.38 U		0.43 U	0.38 U	0.38 U		1.6 U		1.5 U
Pyrene	2200	84000	190000	17000		6.1		0.43 U	0.13 J	0.012 J		0.61 J		1.8
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-086 1 - 3 4/17/2007	WPL-SB-086 1 - 3 4/13/2007	WPL-SB-086 6 - 8 4/17/2007	WPL-SB-086 6 - 8 4/13/2007	WPL-SB-087 0 - 2 4/18/2007	WPL-SB-087 8 - 10 4/18/2007	WPL-SB-088 2 - 4 4/17/2007	WPL-SB-088 2 - 4 4/13/2007	WPL-SB-088 13 - 15 4/17/2007	WPL-SB-088 13 - 15 4/13/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					87.70%		76.20%		85.90%	87.40%	80.50%		75.90%	
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,1,1-Trichloroethane	20	10000	10000	39000	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,1-Dichloroethane	11	1000	1200	17	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,1-Dichloroethene	0.7	33	38	1100	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,2-Dichloroethane	0.5	63	73	2.2	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,2-Dichloropropane	0.5	160	180	4.7	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
1,4-Dioxane	2.4	210	240	160	0.9 U		1.1 U		1 U	0.97 U	1.2 U		1.1 U	
2-Butanone	580	10000	10000	190000	0.0015 J		0.023 U		0.003 J	0.019 U	0.0043 J		0.003 J	
2-Hexanone					0.018 U		0.023 U		0.02 U	0.019 U	0.023 U		0.022 U	
4-Methyl-2-Pentanone	41	4300	4900	52000	0.018 U		0.023 U		0.02 U	0.019 U	0.023 U		0.022 U	
Acetone	1000	10000	10000	610000	0.012 J		0.0044 J		0.018 J	0.019 U	0.012 J		0.014 J	
Acrylonitrile	0.27	24	28	1.2	0.09 U		0.11 U		0.1 U	0.097 U	0.12 U		0.11 U	
Benzene	0.5	210	240	5.6	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0014 J		0.0055 U	
Bromochloromethane	9	10000	10000		0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Bromodichloromethane	10	45	51	1.4	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Bromoform	10	1500	1700	220	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Bromomethane	1	270	300	35	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Carbon Disulfide	410	10000	10000	3000	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Carbon Tetrachloride	0.5	110	120	1.3	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Chlorobenzene	10	10000	10000	1500	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Chlorodibromomethane	10	61	70	3.4	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Chloroethane	90	10000	10000	62000	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Chloroform	10	17	19	1.5	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Chloromethane	0.3	920	1000	510	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Ethylbenzene	70	10000	10000	29	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0091		0.0042 J	
Methyl tert-butyl ether	2	3200	3700	190	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 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-086 1 - 3 4/17/2007	WPL-SB-086 1 - 3 4/13/2007	WPL-SB-086 6 - 8 4/17/2007	WPL-SB-086 6 - 8 4/13/2007	WPL-SB-087 0 - 2 4/18/2007	WPL-SB-087 8 - 10 4/18/2007	WPL-SB-088 2 - 4 4/17/2007	WPL-SB-088 2 - 4 4/13/2007	WPL-SB-088 13 - 15 4/17/2007	WPL-SB-088 13 - 15 4/13/2007
Methylene chloride	0.5	3500	4000	54	0.0041 J B		0.003 J B		0.0024 J	0.0049 U	0.0034 J B		0.0013 J B	
Styrene	24	10000	10000	38000	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Tetrachloroethene	0.5	1500	3300	2.7	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Toluene	100	10000	10000	46000	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0023 J		0.0055 U	
trans-1,2-Dichloroethene	10	3700	4300	500	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Trichloroethene	0.5	970	1100	14	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Vinyl Chloride	0.2	53	220	1.7	0.0045 U		0.0057 U		0.0051 U	0.0049 U	0.0058 U		0.0055 U	
Xylenes (Total)	1000	10000	10000	2600	0.014 U		0.017 U		0.015 U	0.015 U	0.027		0.013 J	

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Cyanide, Free														
Cyanide, Free	200	56000	190000	20000		0.58 U		0.65 U	0.63 U	0.61 U	0.54 U	0.67 U	2.6	0.58 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000		0.14 B J		0.65 U	0.63 U	0.61 U	0.54 U	0.18 B	0.35 B	0.41 B
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200		0.46 U		0.51 U	0.5 U	0.49 U	0.44 U	0.54 U	0.48 U	3.1
Mercury														
Mercury	10	840	190000	24		0.033 B		0.11	0.018 B	0.019 B	1.9	0.029 B	0.16	0.64
Metal														
Antimony	27	1100	190000	410		1.2 U		1.3 U	1.3 U	1.2 U	10.9 UJ	1.3 UJ	4.6 J	5.2 J
Arsenic	150	53	190000	1.6		4.3		3.5	2.9	4.3	20.3	4.3	24	14.5
Barium	8200	190000	190000	190000		51.6		149	217	61.6	212	171	326	147
Beryllium	320	5600	190000	2000		0.68 J		1.2 J	1.3 J	0.75 J	0.44 U	0.87 J	0.42 B J	0.33 B J
Cadmium	38	210	190000	800		0.52 B		0.48 B	0.63 U	0.61 U	5.4 U	0.43 B	8.6	4.4
Chromium				1400		16.9		12.1	13.6	20.4	2410	49	226	410
Copper	36000	100000	190000	41000		14.7		11.2	7.1	7.2	523	83.7	2300	4610
Lead	450	1000	190000	800		24.6		18	12.8	23.8	69.2 J	27 J	256 J	223 J
Nickel	650	56000	190000	20000		10.8		8.6	9.8	8.5	1080	30.1	167	256
Selenium	26	14000	190000	5100		0.58 U		0.65 U	1.3 U	0.61 U	5.4 U	0.67 U	14.9 U	2.9 U
Silver	84	14000	190000	5100		0.58 U		0.65 U	0.13 B	0.15 B	0.56	0.67 U	3.7	3.6
Thallium	14	200	190000	66		1.2 U		1.3 U	1.3 U	1.2 U	10.9 U	1.3 U	2.2 B	2.3 U
Vanadium	72000	20000	190000	7200		20.9		18.9	17.7	19	24.4	29.8	30.6	18.5
Zinc	12000	190000	190000	310000		32.6		32.6	32.4 J	21.3 J	130 J	58.1 J	1470 J	2820 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21		0.019 U		0.022 U	0.021 U	0.02 U		0.022 U		0.39 U
Arochlor-1221	2.5	160	10000	0.62		0.019 U		0.022 U	0.021 U	0.02 U		0.022 U		0.39 U
Arochlor-1232	2	160	10000	0.62		0.019 U		0.022 U	0.021 U	0.02 U		0.022 U		0.39 U
Arochlor-1242	62	160	10000	0.74		0.019 U		0.022 U	0.021 U	0.02 U		0.022 U		0.39 U
Arochlor-1248	67	44	10000	0.74		0.019 U		0.022 U	0.021 U	0.02 U		0.022 U		0.39 U
Arochlor-1254	280	44	10000	0.74		0.075		0.022 U	0.021 U	0.02 U	73 J	0.24	0.59 J	44
Arochlor-1260	1900	130	190000	0.74		0.1		0.022 U	0.021 U	0.02 U		0.022 U		0.39 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
1,2-Dichlorobenzene	60	10000	10000	10000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
1,3-Dichlorobenzene	61	10000	10000			0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
1,4-Dichlorobenzene	10	3300	190000	13		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.016 J	0.019 J	3.8 U
2,4,5-Trichlorophenol	6100	190000	190000	62000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2,4,6-Trichlorophenol	8.9	840	190000	160		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2,4-Dichlorophenol	2	8400	190000	1800		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2,4-Dimethylphenol	200	10000	10000	12000		0.38 U		0.43 U	0.42 U	0.4 U	0.65 J	0.44 U	0.031 J	3.8 U
2,4-Dinitrophenol	4.1	5600	190000	1200		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
2,4-Dinitrotoluene	0.84	260	190000	5.5		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2,6-Dinitrotoluene	10	2800	190000	620		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2-Chloronaphthalene	18000	190000	190000	82000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2-Chlorophenol	4.4	920	1100	5100		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2-Methylnaphthalene	8000	10000	10000	4100		0.38 U		0.43 U	0.42 U	0.4 U	4.2 J	0.022 J	0.085 J	3.8 U
2-Methylphenol	510	10000	10000	31000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
2-Nitroaniline	0.58	160	190000	1800		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
2-Nitrophenol	82	22000	190000			0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
3,3'-Dichlorobenzidine	32	180	190000	3.8		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U

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3/4-Methylphenol				5100		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	0.058 J
3-Nitroaniline	0.58	160	190000			1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
4,6-Dinitro-2-Methylphenol				62		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
4-Bromophenyl phenyl ether						0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
4-Chloro-3-Methyl-Phenol	110	14000	190000			0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
4-Chloroaniline	52	11000	190000	8.6		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
4-Chlorodiphenyl Ether						0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
4-Nitrophenol	6	22000	190000			1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
Acenaphthene	4700	170000	190000	33000		0.38 U		0.43 U	0.42 U	0.4 U	3.6 J	0.022 J	0.035 J	0.15 J
Acenaphthylene	6900	170000	190000	33000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.16 J	0.41 J
Anthracene	350	190000	190000	170000		0.38 U		0.43 U	0.42 U	0.4 U	59	0.024 J	0.48	0.46 J
Benzo (A) Anthracene	320	110	190000	2.1		0.38 U		0.026 J	0.42 U	0.4 U	27	0.072 J	0.92 J	2.6 J
Benzo (a) Pyrene	46	11	190000	0.21		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.046 J	1.1	5.5
Benzo (b) Fluoranthene	170	110	190000	2.1		0.38 U		0.43 U	0.42 U	0.4 U	11	0.084 J	1.6	9.5
Benzo (g,h,i) Perylene	180	170000	190000			0.38 U		0.43 U	0.42 U	0.4 U	13	0.028 J	2.4	14
Benzo (k) Fluoranthene	610	1100	190000	21		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.033 J	0.39 U	3.8 U
Bis(2-Chloroethoxy) Methane				1800		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120		0.38 U		0.43 U	0.42 U	0.4 U	6.6 J	0.11 J	0.43 J	0.49 J
Butylbenzylphthalate	10000	10000	10000	910		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.013 J	0.39 U	3.8 U
Carbazole	83	4000	190000			0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.018 J	0.39 U	0.17 J
Chrysene	230	11000	190000	210		0.38 U		0.024 J	0.42 U	0.4 U	7.2 U	0.085 J	0.39 U	4.1 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21		0.38 U		0.43 U	0.42 U	0.4 U	4.1 J	0.0083 J	0.5	3 J
Dibenzofuran						0.38 U		0.43 U	0.42 U	0.4 U	2.5 J	0.016 J	0.048 J	3.8 U
Diethylphthalate	500	10000	10000	490000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Dimethylphthalate						0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Di-n-Butylphthalate	4100	10000	10000	62000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Di-n-octylphthalate	10000	10000	10000			0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.15 J	0.22 J
Fluoranthene	3200	110000	190000	22000		0.38 U		0.044 J	0.42 U	0.4 U	37	0.19 J	0.28 J	2.9 J
Fluorene	3800	110000	190000	22000		0.38 U		0.43 U	0.42 U	0.4 U	10	0.041 J	0.39 U	0.11 J
Hexachlorobenzene	0.96	50	190000	1.1		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Hexachlorobutadiene	1.2	560	10000	22		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Hexachlorocyclopentadiene	91	10000	10000	3700		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
Hexachloroethane	0.56	2800	190000	120		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1		0.38 U		0.43 U	0.42 U	0.4 U	9.7	0.029 J	2.1	10
Isophorone	10	10000	10000	1800		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Naphthalene	25	56000	190000	20		0.38 U		0.43 U	0.42 U	0.4 U	3.8 J	0.055 J	0.098 J	0.11 J
Nitrobenzene	5.1	1400	10000	22		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
N-Nitrosodiphenylamine	83	16000	190000	350		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.39 U	3.8 U
Pentachlorophenol	5	660	190000	9		1.8 U		2.1 U	2 U	1.9 U	35 U	2.1 U	1.9 U	19 U
Phenanthrene	10000	190000	190000			0.38 U		0.023 J	0.42 U	0.4 U	26	0.2 J	0.39 U	0.54 J
Phenol	400	190000	190000	180000		0.38 U		0.43 U	0.42 U	0.4 U	7.2 U	0.44 U	0.094 J	0.28 J
Pyrene	2200	84000	190000	17000		0.38 U		0.031 J	0.42 U	0.4 U	47	0.17 J	1.3 J	8.9 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-089 2 - 4 4/17/2007	WPL-SB-089 2 - 4 4/13/2007	WPL-SB-089 6 - 8 4/17/2007	WPL-SB-089 6 - 8 4/13/2007	WPL-SB-090 3 - 5 4/24/2007	WPL-SB-090 11 - 13 4/24/2007	WPL-SB-091 2 - 4 4/18/2007	WPL-SB-091 5 - 7 4/18/2007	WPL-SB-092 2 - 4 4/18/2007	WPL-SB-092 Dup 2 - 4 4/18/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					81.20%		78%		79%	82.50%	91.80%	74.80%	83.80%	86.10%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,1-Dichloroethane	11	1000	1200	17	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,1-Dichloroethene	0.7	33	38	1100	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
1,4-Dioxane	2.4	210	240	160	0.98 U		1.1 U		1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1 U
2-Butanone	580	10000	10000	190000	0.0023 J		0.0028 J		0.022 U	0.021 U	0.022 U	0.024 U	0.0085 J	0.0049 J
2-Hexanone					0.02 U		0.023 U		0.022 U	0.021 U	0.022 U	0.024 U	0.022 U	0.021 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U		0.023 U		0.022 U	0.021 U	0.022 U	0.024 U	0.022 U	0.021 U
Acetone	1000	10000	10000	610000	0.013 J		0.02 J		0.022 U	0.021 U	0.0069 J	0.024 U	0.032	0.021
Acrylonitrile	0.27	24	28	1.2	0.098 U		0.11 U		0.11 U	0.11 U	0.11 U	0.12 U	0.11 U	0.1 U
Benzene	0.5	210	240	5.6	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0054 J	0.0059 U	0.0017 J	0.0018 J
Bromochloromethane	9	10000	10000		0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Bromodichloromethane	10	45	51	1.4	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Bromoform	10	1500	1700	220	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Bromomethane	1	270	300	35	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Carbon Disulfide	410	10000	10000	3000	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0045 J	0.011
Carbon Tetrachloride	0.5	110	120	1.3	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Chlorobenzene	10	10000	10000	1500	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Chlorodibromomethane	10	61	70	3.4	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Chloroethane	90	10000	10000	62000	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Chloroform	10	17	19	1.5	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Chloromethane	0.3	920	1000	510	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0093	0.011
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Ethylbenzene	70	10000	10000	29	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.026	0.0059 U	0.0055 U	0.0052 U
Methyl tert-butyl ether	2	3200	3700	190	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 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-089 2 - 4 4/17/2007	WPL-SB-089 2 - 4 4/13/2007	WPL-SB-089 6 - 8 4/17/2007	WPL-SB-089 6 - 8 4/13/2007	WPL-SB-090 3 - 5 4/24/2007	WPL-SB-090 11 - 13 4/24/2007	WPL-SB-091 2 - 4 4/18/2007	WPL-SB-091 5 - 7 4/18/2007	WPL-SB-092 2 - 4 4/18/2007	WPL-SB-092 Dup 2 - 4 4/18/2007
Methylene chloride	0.5	3500	4000	54	0.0028 J B		0.0043 J B		0.0061	0.0027 J B	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Styrene	24	10000	10000	38000	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Toluene	100	10000	10000	46000	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.018	0.0059 U	0.0017 J	0.00091 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Trichloroethene	0.5	970	1100	14	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0055 U	0.0052 U
Vinyl Chloride	0.2	53	220	1.7	0.0049 U		0.0056 U		0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.011	0.024
Xylenes (Total)	1000	10000	10000	2600	0.015 U		0.017 U		0.016 U	0.016 U	0.085	0.018 U	0.016 U	0.016 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-092 6 - 8 4/18/2007	WPL-SB-093 0 - 2 4/27/2007	WPL-SB-093 3 - 5 4/27/2007	WPL-SB-094 3 - 5 4/17/2007	WPL-SB-094 3 - 5 4/13/2007	WPL-SB-094 11 - 13 4/17/2007	WPL-SB-094 11 - 13 4/13/2007	WPL-SB-095 0 - 2 4/26/2007	WPL-SB-095 3 - 5 4/26/2007	WPL-SB-096 0 - 2 4/18/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.67 U	0.63 U	0.63 U		0.78		0.65 U	0.7 U	0.71 U	0.58 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.16 B	0.37 B J	0.31 B J		0.18 B J		0.65 U	0.33 B J	0.93 J	0.25 B
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.55 U	1.1	0.24 B		0.54 U		0.54 U	5.1	0.55 U	0.35 B
Mercury														
Mercury	10	840	190000	24	0.063	0.13	0.072		0.22		0.051	14.8	1.3	0.039
Metal														
Antimony	27	1100	190000	410	1.3 UJ	0.93 B J	0.47 B J		1.3 U		1.3 U	91.1 J	3.9 B J	1.2 UJ
Arsenic	150	53	190000	1.6	9	4.6	4.3		5.4		4	37.4	24.2	4.7
Barium	8200	190000	190000	190000	83.3	130	47.8		148		45.1	971	370	50.6
Beryllium	320	5600	190000	2000	0.86 J	1.2 J	0.95 J		1.1 J		0.72 J	0.35 B J	0.57 U	0.77 J
Cadmium	38	210	190000	800	0.65 B	1.5	0.73		0.91		0.62 B	42.7	1.8 B	0.26 B
Chromium				1400	27.5	66.9	36.1		18.9		29.8	1810	1670	20.6
Copper	36000	100000	190000	41000	57.4	36.7	46.1		46.5		18.6	3550	973	7.3
Lead	450	1000	190000	800	19.3 J	68.3	61.4		33.1		11	3730 J	81.3 J	11.6 J
Nickel	650	56000	190000	20000	19.3	14.3	17		14.1		11.7	1570	1370	4.7
Selenium	26	14000	190000	5100	0.67 U	1.3 U	1.3 U		1.3 U		0.65 U	17.6 U	3.6 U	0.58 U
Silver	84	14000	190000	5100	0.087 B	0.2 B	0.13 B		0.23 B		0.65 U	77.5	1.5	0.58 U
Thallium	14	200	190000	66	1.3 U	0.71 B	0.43 B		1.3 U		0.62 B	35.2 U	7.1 U	1.2 U
Vanadium	72000	20000	190000	7200	30.1	22.7	26		20.8		23.9	96.7	28.6	24.9
Zinc	12000	190000	190000	310000	98.7 J	222 J	162 J		82.7		41	33900	208	14.2 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.022 U	0.021 U	0.021 U		0.022 U		0.022 U	0.23 U	2.4 U	0.019 U
Arochlor-1221	2.5	160	10000	0.62	0.022 U	0.021 U	0.021 U		0.022 U		0.022 U	0.23 U	2.4 U	0.019 U
Arochlor-1232	2	160	10000	0.62	0.022 U	0.021 U	0.021 U		0.022 U		0.022 U	0.23 U	2.4 U	0.019 U
Arochlor-1242	62	160	10000	0.74	0.022 U	0.021 U	0.021 U		0.022 U		0.022 U	0.23 U	2.4 U	0.019 U
Arochlor-1248	67	44	10000	0.74	0.022 U	0.021 U	0.021 U		0.022 U		0.022 U	0.23 U	2.4 U	0.019 U
Arochlor-1254	280	44	10000	0.74	0.06	0.67	0.1		0.022 U		0.022 U	11	270	0.019 U
Arochlor-1260	1900	130	190000	0.74	0.022 U	1.2	0.13		0.028		0.012 J	0.23 U	2.4 U	0.019 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.44 U	0.13 J	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
1,3-Dichlorobenzene	61	10000	10000		0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
1,4-Dichlorobenzene	10	3300	190000	13	0.015 J	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.013 J
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2,4-Dichlorophenol	2	8400	190000	1800	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2,4-Dimethylphenol	200	10000	10000	12000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2,4-Dinitrophenol	4.1	5600	190000	1200	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2,6-Dinitrotoluene	10	2800	190000	620	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2-Chloronaphthalene	18000	190000	190000	82000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2-Chlorophenol	4.4	920	1100	5100	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2-Methylnaphthalene	8000	10000	10000	4100	0.021 J	0.1 J	0.014 J		0.44 U		0.43 U	1.3 J	6.6 J	0.38 U
2-Methylphenol	510	10000	10000	31000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
2-Nitroaniline	0.58	160	190000	1800	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
2-Nitrophenol	82	22000	190000		0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 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-SB-092 6 - 8 4/18/2007	WPL-SB-093 0 - 2 4/27/2007	WPL-SB-093 3 - 5 4/27/2007	WPL-SB-094 3 - 5 4/17/2007	WPL-SB-094 3 - 5 4/13/2007	WPL-SB-094 11 - 13 4/17/2007	WPL-SB-094 11 - 13 4/13/2007	WPL-SB-095 0 - 2 4/26/2007	WPL-SB-095 3 - 5 4/26/2007	WPL-SB-096 0 - 2 4/18/2007
3/4-Methylphenol				5100	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
3-Nitroaniline	0.58	160	190000		2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
4,6-Dinitro-2-Methylphenol				62	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
4-Bromophenyl phenyl ether					0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
4-Chloroaniline	52	11000	190000	8.6	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
4-Chlorodiphenyl Ether					0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
4-Nitrophenol	6	22000	190000		2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
Acenaphthene	4700	170000	190000	33000	0.17 J	0.13 J	0.026 J		0.44 U		0.43 U	1.9 J	3.6 J	0.38 U
Acenaphthylene	6900	170000	190000	33000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Anthracene	350	190000	190000	170000	0.26 J	0.12 J	0.033 J		0.44 U		0.43 U	2.4 J	19 U	0.38 U
Benzo (A) Anthracene	320	110	190000	2.1	0.74	0.24 J	0.057 J		0.44 U		0.43 U	5.9 J	19 U	0.0098 J
Benzo (a) Pyrene	46	11	190000	0.21	0.68	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.012 J
Benzo (b) Fluoranthene	170	110	190000	2.1	0.83	0.41 U	0.42 U		0.44 U		0.43 U	6 J	19 U	0.016 J
Benzo (g,h,i) Perylene	180	170000	190000		0.29 J	0.087 J	0.024 J		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.29 J	0.41 U	0.42 U		0.44 U		0.43 U	2.2 J	19 U	0.38 U
Bis(2-Chloroethoxy) Methane				1800	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.03 J	0.41 U	0.42 U		0.44 U		0.03 J	7.5 J	19 U	0.38 U
Butylbenzylphthalate	10000	10000	10000	910	0.022 J	0.41 U	0.02 J		0.44 U		0.43 U	9.3 U	19 U	0.012 J
Carbazole	83	4000	190000		0.18 J	0.088 J	0.42 U		0.44 U		0.43 U	0.52 J	19 U	0.38 U
Chrysene	230	11000	190000	210	0.69	0.25 J	0.059 J		0.44 U		0.43 U	6.5 J	19 U	0.013 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.092 J	0.021 J	0.42 U		0.44 U		0.43 U	0.25 J	19 U	0.38 U
Dibenzofuran					0.058 J	0.084 J	0.017 J		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Diethylphthalate	500	10000	10000	490000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Dimethylphthalate					0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Di-n-octylphthalate	10000	10000	10000		0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Fluoranthene	3200	110000	190000	22000	1.6	1.1	0.14 J		0.44 U		0.021 J	23	8.1 J	0.017 J
Fluorene	3800	110000	190000	22000	0.1 J	0.1 J	0.026 J		0.44 U		0.43 U	2.3 J	3.3 J	0.38 U
Hexachlorobenzene	0.96	50	190000	1.1	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Hexachlorobutadiene	1.2	560	10000	22	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
Hexachloroethane	0.56	2800	190000	120	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.3 J	0.082 J	0.42 U		0.44 U		0.43 U	1 J	19 U	0.38 U
Isophorone	10	10000	10000	1800	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Naphthalene	25	56000	190000	20	0.05 J	0.31 J	0.061 J		0.44 U		0.43 U	3.1 J	8.1 J	0.38 U
Nitrobenzene	5.1	1400	10000	22	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.44 U	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Pentachlorophenol	5	660	190000	9	2.1 U	2 U	2 U		2.1 U		2.1 U	45 U	91 U	1.9 U
Phenanthrene	10000	190000	190000		0.91	0.8	0.17 J		0.44 U		0.43 U	13	12 J	0.38 U
Phenol	400	190000	190000	180000	0.0093 J	0.41 U	0.42 U		0.44 U		0.43 U	9.3 U	19 U	0.38 U
Pyrene	2200	84000	190000	17000	1.3	0.38 J	0.11 J		0.44 U		0.02 J	12	5.1 J	0.018 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-092 6 - 8 4/18/2007	WPL-SB-093 0 - 2 4/27/2007	WPL-SB-093 3 - 5 4/27/2007	WPL-SB-094 3 - 5 4/17/2007	WPL-SB-094 3 - 5 4/13/2007	WPL-SB-094 11 - 13 4/17/2007	WPL-SB-094 11 - 13 4/13/2007	WPL-SB-095 0 - 2 4/26/2007	WPL-SB-095 3 - 5 4/26/2007	WPL-SB-096 0 - 2 4/18/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					74.60%	79.70%	79.20%	70.70%		84%		71.10%	70.40%	86.40%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,1-Dichloroethane	11	1000	1200	17	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,1-Dichloroethene	0.7	33	38	1100	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
1,4-Dioxane	2.4	210	240	160	1.3 U	1.1 U	1.1 U	1.1 U		0.98 U		70 U	59 U	0.94 U
2-Butanone	580	10000	10000	190000	0.026 U	0.022 U	0.022 U	0.023 U		0.0015 J		1.4 U	1.2 U	0.019 U
2-Hexanone					0.026 U	0.022 U	0.022 U	0.023 U		0.02 U		1.4 U	1.2 U	0.019 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.026 U	0.022 U	0.022 U	0.023 U		0.02 U		1.4 U	1.2 U	0.019 U
Acetone	1000	10000	10000	610000	0.026 U	0.0067 J	0.022 U	0.006 J		0.0086 J		1.4 U	1.2 U	0.0048 J
Acrylonitrile	0.27	24	28	1.2	0.13 U	0.11 U	0.11 U	0.11 U		0.098 U		7 U	5.9 U	0.094 U
Benzene	0.5	210	240	5.6	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Bromochloromethane	9	10000	10000		0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Bromodichloromethane	10	45	51	1.4	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Bromoform	10	1500	1700	220	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Bromomethane	1	270	300	35	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Carbon Disulfide	410	10000	10000	3000	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Chlorobenzene	10	10000	10000	1500	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Chlorodibromomethane	10	61	70	3.4	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Chloroethane	90	10000	10000	62000	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Chloroform	10	17	19	1.5	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Chloromethane	0.3	920	1000	510	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0064 U	0.0056 U	0.0054 U	0.0021 J		0.0063		0.35 U	0.066 J	0.0055
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Ethylbenzene	70	10000	10000	29	0.0064 U	0.0017 J	0.0054 U	0.0057 U		0.0049 U		0.11 J	0.2 J	0.0047 U
Methyl tert-butyl ether	2	3200	3700	190	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 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-092 6 - 8 4/18/2007	WPL-SB-093 0 - 2 4/27/2007	WPL-SB-093 3 - 5 4/27/2007	WPL-SB-094 3 - 5 4/17/2007	WPL-SB-094 3 - 5 4/13/2007	WPL-SB-094 11 - 13 4/17/2007	WPL-SB-094 11 - 13 4/13/2007	WPL-SB-095 0 - 2 4/26/2007	WPL-SB-095 3 - 5 4/26/2007	WPL-SB-096 0 - 2 4/18/2007
Methylene chloride	0.5	3500	4000	54	0.0064 U	0.0028 J B	0.0021 J B	0.0037 J B		0.0035 J B		0.08 J	0.081 J	0.0025 J
Styrene	24	10000	10000	38000	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Toluene	100	10000	10000	46000	0.0064 U	0.0075	0.0011 J	0.0057 U		0.0049 U		0.35 U	0.092 J	0.0047 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Trichloroethene	0.5	970	1100	14	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.015		0.35 U	0.29 U	0.001 J
Vinyl Chloride	0.2	53	220	1.7	0.0064 U	0.0056 U	0.0054 U	0.0057 U		0.0049 U		0.35 U	0.29 U	0.0047 U
Xylenes (Total)	1000	10000	10000	2600	0.019 U	0.019	0.016 U	0.017 U		0.015 U		1.2	0.67 J	0.014 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-096 8 - 10 4/18/2007	WPL-SB-097 0 - 2 4/18/2007	WPL-SB-097 6 - 8 4/18/2007	WPL-SB-098 1 - 3 4/18/2007	WPL-SB-098 6 - 8 4/18/2007	WPL-SB-099 1 - 3 4/30/2007	WPL-SB-099 9 - 11 4/30/2007	WPL-SB-100 5 - 7 4/18/2007	WPL-SB-100 10 - 12 4/18/2007	WPL-SB-101 0 - 2 4/30/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.64 U	0.6 U	0.64 U	0.64 U	0.7 U	0.68 U	0.59 U	0.65 U	0.57 U	0.67 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.91	0.27 B	0.25 B	0.16 B	0.3 B	0.68 U	0.59 U	0.21 B	0.57	0.67 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.5 U	0.48 U	0.51 U	0.51 U	0.55 U	0.48 B	0.47 U	0.54 U	0.47 U	0.54 U
Mercury														
Mercury	10	840	190000	24	0.014 B	0.052	0.031 B	0.02 B	0.035 B	0.02 B	0.018 B	0.041 B	0.0099 B	0.029 B
Metal														
Antimony	27	1100	190000	410	1.3 UJ	1.2 UJ	1.3 UJ	1.3 UJ	1.4 UJ	1.4 U	1.2 U	1.3 UJ	1.1 U	0.14 B J
Arsenic	150	53	190000	1.6	3.5	3.4	4.4	4.1	3.8	5.7	3.9	4.3	3.2	4.3
Barium	8200	190000	190000	190000	24.6 B	126	33	79.5	39.4	86.6	40.3	41.1	42.8	33.2
Beryllium	320	5600	190000	2000	0.64 J	1.2 J	0.85 J	0.79 J	0.79 J	1.1 J	0.8 J	0.77 J	0.67 J	0.86 J
Cadmium	38	210	190000	800	0.35 B	0.28 B	0.36 B	0.4 B	0.31 B	0.68 U	0.59 U	0.37 B	0.25 B	0.67 U
Chromium				1400	15.1	16.3	17.3	22.1	17.6	27	12.1	26.1	16	16.9
Copper	36000	100000	190000	41000	14.8	12.6	18.9	18.1	19	19.7	7.5	24.4	8.8	16.1
Lead	450	1000	190000	800	9.9 J	14.8 J	11.3 J	12.7 J	10.4 J	12.8	10.3	14.2 J	12.8 J	10.2
Nickel	650	56000	190000	20000	11.3	9.9	12.6	13.4	14.7	16.3	8.2	16.1	8.1	12.8
Selenium	26	14000	190000	5100	0.64 U	0.6 U	0.64 U	0.64 U	0.7 U	1.4 U	0.59 U	0.65 U	0.57 U	0.67 U
Silver	84	14000	190000	5100	0.64 U	0.6 U	0.64 U	0.64 U	0.7 U	0.68 U	0.59 U	0.65 U	0.57 U	0.67 U
Thallium	14	200	190000	66	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	0.49 B	1.2 U	1.3 U	1.1 U	0.58 B
Vanadium	72000	20000	190000	7200	20.4	17	23	31.1	25.4	35.7	15.1	28	16.8	21.9
Zinc	12000	190000	190000	310000	36.1 J	42.2 J	44.9 J	43.6 J	47.2 J	51.6 J	21.4 J	51.4 J	23.4 J	40.4 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.022 U	0.019 U	0.022 U
Arochlor-1221	2.5	160	10000	0.62	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.022 U	0.019 U	0.022 U
Arochlor-1232	2	160	10000	0.62	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.022 U	0.019 U	0.022 U
Arochlor-1242	62	160	10000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.022 U	0.019 U	0.022 U
Arochlor-1248	67	44	10000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.022 U	0.019 U	0.022 U
Arochlor-1254	280	44	10000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.015 J	0.019 U	0.022 U
Arochlor-1260	1900	130	190000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.023 U	0.023 U	0.02 U	0.022 U	0.019 U	0.022 U
PCBs (Total)				0.74						0.023 U	0.02 U			0.022 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
1,4-Dichlorobenzene	10	3300	190000	13	0.014 J	0.014 J	0.012 J	0.014 J	0.014 J	0.45 U	0.39 U	0.016 J	0.011 J	0.88 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2,4-Dinitrophenol	4.1	5600	190000	1200	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2,6-Dinitrotoluene	10	2800	190000	620	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.014 J	0.38 U	0.88 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.013 J	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
2-Nitroaniline	0.58	160	190000	1800	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
2-Nitrophenol	82	22000	190000		0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 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.

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-096 8 - 10 4/18/2007	WPL-SB-097 0 - 2 4/18/2007	WPL-SB-097 6 - 8 4/18/2007	WPL-SB-098 1 - 3 4/18/2007	WPL-SB-098 6 - 8 4/18/2007	WPL-SB-099 1 - 3 4/30/2007	WPL-SB-099 9 - 11 4/30/2007	WPL-SB-100 5 - 7 4/18/2007	WPL-SB-100 10 - 12 4/18/2007	WPL-SB-101 0 - 2 4/30/2007
3/4-Methylphenol				5100	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
3-Nitroaniline	0.58	160	190000		2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
4,6-Dinitro-2-Methylphenol				62	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
4-Bromophenyl phenyl ether					0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
4-Chlorodiphenyl Ether					0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
4-Nitrophenol	6	22000	190000		2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Anthracene	350	190000	190000	170000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.021 J	0.38 U	0.88 U
Benzo (A) Anthracene	320	110	190000	2.1	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.067 J	0.017 J	0.88 U
Benzo (a) Pyrene	46	11	190000	0.21	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.075 J	0.017 J	0.88 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.42 U	0.013 J	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.11 J	0.023 J	0.88 U
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.034 J	0.0079 J	0.88 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.039 J	0.011 J	0.88 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Butylbenzylphthalate	10000	10000	10000	910	0.017 J	0.018 J	0.016 J	0.02 J	0.019 J	0.45 U	0.39 U	0.02 J	0.01 J	0.88 U
Carbazole	83	4000	190000		0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.014 J	0.38 U	0.88 U
Chrysene	230	11000	190000	210	0.42 U	0.011 J	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.078 J	0.017 J	0.88 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.0077 J	0.38 U	0.88 U
Dibenzofuran					0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.0099 J	0.38 U	0.88 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Dimethylphthalate					0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.0093 J	0.42 U	0.01 J	0.46 U	0.45 U	0.39 U	0.16 J	0.036 J	0.88 U
Fluorene	3800	110000	190000	22000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.014 J	0.38 U	0.88 U
Hexachlorobenzene	0.96	50	190000	1.1	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Hexachlorobutadiene	1.2	560	10000	22	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
Hexachloroethane	0.56	2800	190000	120	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.032 J	0.38 U	0.88 U
Isophorone	10	10000	10000	1800	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Naphthalene	25	56000	190000	20	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.025 J	0.38 U	0.88 U
Nitrobenzene	5.1	1400	10000	22	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Pentachlorophenol	5	660	190000	9	2 U	1.9 U	2.1 U	2 U	2.2 U	2.2 U	1.9 U	2.1 U	1.8 U	4.3 U
Phenanthrene	10000	190000	190000		0.42 U	0.015 J	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.078 J	0.02 J	0.029 J
Phenol	400	190000	190000	180000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.43 U	0.38 U	0.88 U
Pyrene	2200	84000	190000	17000	0.42 U	0.4 U	0.42 U	0.42 U	0.46 U	0.45 U	0.39 U	0.14 J	0.028 J	0.88 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-096 8 - 10 4/18/2007	WPL-SB-097 0 - 2 4/18/2007	WPL-SB-097 6 - 8 4/18/2007	WPL-SB-098 1 - 3 4/18/2007	WPL-SB-098 6 - 8 4/18/2007	WPL-SB-099 1 - 3 4/30/2007	WPL-SB-099 9 - 11 4/30/2007	WPL-SB-100 5 - 7 4/18/2007	WPL-SB-100 10 - 12 4/18/2007	WPL-SB-101 0 - 2 4/30/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					78.50%	83.40%	77.70%	78.40%	71.70%	73.90%	84.80%	76.40%	87.50%	75%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,1-Dichloroethane	11	1000	1200	17	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,1-Dichloroethene	0.7	33	38	1100	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	58 U	0.97 U	1.2 U
2-Butanone	580	10000	10000	190000	0.022 U	0.0099 J	0.023 U	0.0033 J	0.024 U	0.024 U	0.022 U	1.2 U	0.019 U	0.024 U
2-Hexanone					0.022 U	0.02 U	0.023 U	0.021 U	0.024 U	0.024 U	0.022 U	1.2 U	0.019 U	0.024 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.022 U	0.02 U	0.023 U	0.021 U	0.024 U	0.024 U	0.022 U	1.2 U	0.019 U	0.024 U
Acetone	1000	10000	10000	610000	0.022 U	0.042	0.023 U	0.021 U	0.024 U	0.0037 J	0.022 U	1.2 U	0.019 U	0.024 U
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.1 U	0.12 U	0.1 U	0.12 U	0.12 U	0.11 U	5.8 U	0.097 U	0.12 U
Benzene	0.5	210	240	5.6	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Bromochloromethane	9	10000	10000		0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Bromodichloromethane	10	45	51	1.4	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Bromoform	10	1500	1700	220	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Bromomethane	1	270	300	35	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Carbon Disulfide	410	10000	10000	3000	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Chlorobenzene	10	10000	10000	1500	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Chlorodibromomethane	10	61	70	3.4	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Chloroethane	90	10000	10000	62000	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Chloroform	10	17	19	1.5	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Chloromethane	0.3	920	1000	510	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0041 J	0.14	0.0012 J	0.031	0.0059 U	0.0027 J	0.0024 J	4.8	0.16	0.006 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Ethylbenzene	70	10000	10000	29	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Methyl tert-butyl ether	2	3200	3700	190	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 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)	WPL-SB-096 8 - 10 4/18/2007	WPL-SB-097 0 - 2 4/18/2007	WPL-SB-097 6 - 8 4/18/2007	WPL-SB-098 1 - 3 4/18/2007	WPL-SB-098 6 - 8 4/18/2007	WPL-SB-099 1 - 3 4/30/2007	WPL-SB-099 9 - 11 4/30/2007	WPL-SB-100 5 - 7 4/18/2007	WPL-SB-100 10 - 12 4/18/2007	WPL-SB-101 0 - 2 4/30/2007
Methylene chloride	0.5	3500	4000	54	0.0039 J	0.0043 J	0.004 J	0.0052 U	0.0056 J	0.0027 J B	0.0016 J B	0.072 J	0.0049 U	0.0023 J B
Styrene	24	10000	10000	38000	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Toluene	100	10000	10000	46000	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0056 U	0.0065	0.0058 U	0.0023 J	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0056 U	0.005 U	0.0058 U	0.0052 U	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Trichloroethene	0.5	970	1100	14	0.0056 U	0.0065	0.0058 U	0.017	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Vinyl Chloride	0.2	53	220	1.7	0.0056 U	0.025	0.0058 U	0.003 J	0.0059 U	0.0059 U	0.0055 U	0.29 U	0.0049 U	0.006 U
Xylenes (Total)	1000	10000	10000	2600	0.017 U	0.015 U	0.017 U	0.016 U	0.018 U	0.018 U	0.017 U	0.86 U	0.015 U	0.018 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-101 9 - 11 4/30/2007	WPL-SB-102 2 - 4 4/18/2007	WPL-SB-102 8 - 10 4/18/2007	WPL-SB-103 0 - 2 4/23/2007	WPL-SB-103 8 - 10 4/23/2007	WPL-SB-104 2 - 4 4/30/2007	WPL-SB-104 9 - 11 4/30/2007	WPL-SB-105 0 - 1 4/23/2007	WPL-SB-105 3 - 5 4/23/2007	WPL-SB-106 0 - 1 4/23/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.59 U	0.59 U	0.64 U	0.58 U	0.55 U	0.57 U	0.59 U	0.58 U	0.61 U	0.54 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.59 U	0.21 B	0.42 B	0.24 B J	0.72 J	0.28 B	0.13 B	0.42 B J	0.31 B J	0.5 B J
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.35 B	0.51	0.49 U	0.48 U	0.44 U	0.46 U	0.48 U	4.2	0.49 U	1
Mercury														
Mercury	10	840	190000	24	0.058	0.043	0.028 B	0.0098 B	0.032 B	0.12	0.028 B	0.087	0.067	0.065
Metal														
Antimony	27	1100	190000	410	0.18 B J	1.2 U	1.3 UJ	290 J	0.18 B J	0.65 B J	1.2 U	0.99 B J	3.5 J	0.73 B J
Arsenic	150	53	190000	1.6	3.1	44.7	3.7	2.2	2.4	5.7	6	6.1	5.8	5.9
Barium	8200	190000	190000	190000	37.1	66.4	59.3	25.5	48.8	107	36.7	119	148	89.4
Beryllium	320	5600	190000	2000	0.8 J	0.73 J	0.94 J	0.16 B J	0.66 J	0.91 J	1.5 J	0.64 J	0.57 J	0.41 B J
Cadmium	38	210	190000	800	0.59 U	0.45 B	0.26 B	0.58 U	0.55 U	0.75	0.59 U	1.5	1.9	0.66
Chromium				1400	16.8	14.7	14.1	3.2	13.2	33.2	13.8	31.2	68.1	13.5
Copper	36000	100000	190000	41000	7	21.2	15.4	1070	7.7	52.2	6.9	87.6	114	56.9
Lead	450	1000	190000	800	10.7	15.1 J	10.8 J	33600	9.9	49.4	9.4	69	163	39.4
Nickel	650	56000	190000	20000	7.9	7.6	10.3	1.8 B	6.2	13.9	7.5	15.8	21.3	9.5
Selenium	26	14000	190000	5100	0.59 U	0.59 U	0.64 U	0.58 U	0.55 U	0.57 U	1.2 U	0.58 U	0.61 U	0.54 U
Silver	84	14000	190000	5100	0.59 U	0.59 U	0.64 U	0.85	0.062 B	0.39 B	0.59 U	1	0.42 B	0.6
Thallium	14	200	190000	66	1.2 U	1 B	1.3 U	0.86 B	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U
Vanadium	72000	20000	190000	7200	18.2	14	20.6	1.7 B	16	19.2	17.6	16.2	18.7	12.5
Zinc	12000	190000	190000	310000	20 J	38.4 J	34.3 J	7610 J	20 J E	151 J	17.3 J	197 J	611 J	224 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.02 U	0.02 U	0.021 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.02 U	0.018 U
Arochlor-1221	2.5	160	10000	0.62	0.02 U	0.02 U	0.021 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.02 U	0.018 U
Arochlor-1232	2	160	10000	0.62	0.02 U	0.02 U	0.021 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.02 U	0.018 U
Arochlor-1242	62	160	10000	0.74	0.02 U	0.02 U	0.021 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.02 U	0.018 U
Arochlor-1248	67	44	10000	0.74	0.02 U	0.02 U	0.021 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.02 U	0.018 U
Arochlor-1254	280	44	10000	0.74	0.02 U	0.032	0.021 U	0.019 U	0.38	0.019 U	0.02 U	0.59	0.52	0.44
Arochlor-1260	1900	130	190000	0.74	0.02 U	0.02 U	0.021 U	0.019 U	0.12	0.81	0.02 U	0.68	0.53	1.1
PCBs (Total)				0.74	0.02 U					0.81	0.02 U			
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.019 J	0.39 U	1.9 U	2 U	0.045 J
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.39 U	0.42 U	0.38 U	0.069 J	0.75 U	0.39 U	1.9 U	0.067 J	1.8 U
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.018 J	0.015 J	0.0081 J	0.034 J	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.39 U	0.42 U	0.38 U	0.38	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2,6-Dinitrotoluene	10	2800	190000	620	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2-Methylnaphthalene	8000	10000	10000	4100	0.39 U	0.011 J	0.42 U	0.38 U	0.71	0.15 J	0.39 U	0.64 J	0.85 J	0.11 J
2-Methylphenol	510	10000	10000	31000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
2-Nitroaniline	0.58	160	190000	1800	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
2-Nitrophenol	82	22000	190000		0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 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-101 9 - 11 4/30/2007	WPL-SB-102 2 - 4 4/18/2007	WPL-SB-102 8 - 10 4/18/2007	WPL-SB-103 0 - 2 4/23/2007	WPL-SB-103 8 - 10 4/23/2007	WPL-SB-104 2 - 4 4/30/2007	WPL-SB-104 9 - 11 4/30/2007	WPL-SB-105 0 - 1 4/23/2007	WPL-SB-105 3 - 5 4/23/2007	WPL-SB-106 0 - 1 4/23/2007
3/4-Methylphenol				5100	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	0.057 J	2 U	1.8 U
3-Nitroaniline	0.58	160	190000		1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
4,6-Dinitro-2-Methylphenol				62	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
4-Bromophenyl phenyl ether					0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	0.097 J B	2 U	0.097 J B
4-Chlorodiphenyl Ether					0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
4-Nitrophenol	6	22000	190000		1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
Acenaphthene	4700	170000	190000	33000	0.39 U	0.39 U	0.42 U	0.38 U	0.059 J	1	0.39 U	2	1.2 J	0.13 J
Acenaphthylene	6900	170000	190000	33000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.14 J	0.39 U	0.32 J	2 U	0.037 J
Anthracene	350	190000	190000	170000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	3.4	0.39 U	2.9	1.9 J	0.29 J
Benzo (A) Anthracene	320	110	190000	2.1	0.39 U	0.014 J	0.42 U	0.011 J	0.15 J	16	0.39 U	12	4.6	0.84 J
Benzo (a) Pyrene	46	11	190000	0.21	0.39 U	0.014 J	0.42 U	0.013 J	0.36 U	17	0.39 U	11	4.3	1 J
Benzo (b) Fluoranthene	170	110	190000	2.1	0.39 U	0.025 J	0.42 U	0.017 J	0.058 J	15	0.39 U	13	5.4	1.4 J
Benzo (g,h,i) Perylene	180	170000	190000		0.39 U	0.011 J	0.42 U	0.38 U	0.018 J	14 J	0.39 U	4.8	1.9 J	0.45 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	7.7 J	0.39 U	5.3	2.1	1.8 U
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.39 U	0.39 U	0.42 U	0.38 U	0.15 J	0.75 U	0.39 U	1.9 U	0.35 J	1.8 U
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.024 J	0.019 J	0.016 J	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Carbazole	83	4000	190000		0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	1.4	0.39 U	1.4 J	1.2 J	0.13 J
Chrysene	230	11000	190000	210	0.39 U	0.03 J	0.42 U	0.011 J	0.36 U	18	0.39 U	12	4.6	0.91 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	3.3 J	0.39 U	1.8 J	0.58 J	0.15 J
Dibenzofuran					0.39 U	0.39 U	0.42 U	0.38 U	0.057 J	0.79	0.39 U	1.1 J	0.6 J	0.11 J
Diethylphthalate	500	10000	10000	490000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Dimethylphthalate					0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Fluoranthene	3200	110000	190000	22000	0.39 U	0.028 J	0.42 U	0.02 J	0.097 J	18	0.39 U	12	9.5	2
Fluorene	3800	110000	190000	22000	0.39 U	0.39 U	0.42 U	0.38 U	0.1 J	1.6	0.39 U	2.2	1.2 J	0.14 J
Hexachlorobenzene	0.96	50	190000	1.1	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Hexachlorobutadiene	1.2	560	10000	22	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
Hexachloroethane	0.56	2800	190000	120	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.39 U	0.008 J	0.42 U	0.38 U	0.018 J	13 J	0.39 U	5.1	1.8 J	0.45 J
Isophorone	10	10000	10000	1800	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Naphthalene	25	56000	190000	20	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.33 J	0.39 U	1.3 J	1.6 J	0.082 J
Nitrobenzene	5.1	1400	10000	22	0.39 U	0.39 U	0.42 U	0.12 J	0.36 U	0.75 U	0.39 U	0.75 J	1.6 J	0.88 J
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.39 U	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Pentachlorophenol	5	660	190000	9	1.9 U	1.9 U	2 U	1.8 U	1.7 U	3.7 U	1.9 U	9.3 U	9.8 U	8.6 U
Phenanthrene	10000	190000	190000		0.39 U	0.027 J	0.42 U	0.017 J	0.4	15	0.39 U	9.3	7.4	0.86 J
Phenol	400	190000	190000	180000	0.39 U	0.0094 J	0.42 U	0.38 U	0.36 U	0.75 U	0.39 U	1.9 U	2 U	1.8 U
Pyrene	2200	84000	190000	17000	0.39 U	0.022 J	0.42 U	0.018 J	0.14 J	28	0.015 J	14	8.4	1.7 J
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-101 9 - 11 4/30/2007	WPL-SB-102 2 - 4 4/18/2007	WPL-SB-102 8 - 10 4/18/2007	WPL-SB-103 0 - 2 4/23/2007	WPL-SB-103 8 - 10 4/23/2007	WPL-SB-104 2 - 4 4/30/2007	WPL-SB-104 9 - 11 4/30/2007	WPL-SB-105 0 - 1 4/23/2007	WPL-SB-105 3 - 5 4/23/2007	WPL-SB-106 0 - 1 4/23/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					84.70%	85.20%	78.70%	86.60%	91.70%	87.40%	85%	86.10%	82%	93.10%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,1-Dichloroethane	11	1000	1200	17	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,1-Dichloroethene	0.7	33	38	1100	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
1,4-Dioxane	2.4	210	240	160	0.97 U	0.95 U	1.1 U	0.92 U	0.96 U	1.1 U	1 U	1.2 U	1 U	0.98 U
2-Butanone	580	10000	10000	190000	0.019 U	0.019 U	0.023 U	0.018 U	0.019 U	0.021 U	0.02 U	0.024 U	0.02 U	0.02 U
2-Hexanone					0.019 U	0.019 U	0.023 U	0.018 U	0.019 U	0.021 U	0.02 U	0.024 U	0.02 U	0.02 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.019 U	0.019 U	0.023 U	0.018 U	0.019 U	0.021 U	0.02 U	0.024 U	0.02 U	0.02 U
Acetone	1000	10000	10000	610000	0.019 U	0.015 J	0.023 U	0.0021 J B	0.0021 J	0.0036 J	0.02 U	0.024 U	0.0082 J	0.02 U
Acrylonitrile	0.27	24	28	1.2	0.097 U	0.095 U	0.11 U	0.092 U	0.096 U	0.11 U	0.1 U	0.12 U	0.1 U	0.098 U
Benzene	0.5	210	240	5.6	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Bromochloromethane	9	10000	10000		0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Bromodichloromethane	10	45	51	1.4	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Bromoform	10	1500	1700	220	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Bromomethane	1	270	300	35	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Carbon Disulfide	410	10000	10000	3000	0.0048 U	0.0048 U	0.0057 U	0.0014 J	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0024 J	0.0049 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Chlorobenzene	10	10000	10000	1500	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.047	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Chlorodibromomethane	10	61	70	3.4	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Chloroethane	90	10000	10000	62000	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Chloroform	10	17	19	1.5	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Chloromethane	0.3	920	1000	510	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0048 U	0.0043 J	0.0026 J	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Ethylbenzene	70	10000	10000	29	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Methyl tert-butyl ether	2	3200	3700	190	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 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-101 9 - 11 4/30/2007	WPL-SB-102 2 - 4 4/18/2007	WPL-SB-102 8 - 10 4/18/2007	WPL-SB-103 0 - 2 4/23/2007	WPL-SB-103 8 - 10 4/23/2007	WPL-SB-104 2 - 4 4/30/2007	WPL-SB-104 9 - 11 4/30/2007	WPL-SB-105 0 - 1 4/23/2007	WPL-SB-105 3 - 5 4/23/2007	WPL-SB-106 0 - 1 4/23/2007
Methylene chloride	0.5	3500	4000	54	0.0022 J B	0.0048 U	0.0057 U	0.0019 J B	0.0011 J	0.0012 J B	0.0012 J B	0.0059 U	0.0064	0.0049 U
Styrene	24	10000	10000	38000	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Toluene	100	10000	10000	46000	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0048 U	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Trichloroethene	0.5	970	1100	14	0.0048 U	0.0014 J	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Vinyl Chloride	0.2	53	220	1.7	0.0048 U	0.0036 J	0.0057 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0059 U	0.0051 U	0.0049 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.014 U	0.017 U	0.014 U	0.014 U	0.016 U	0.015 U	0.018 U	0.015 U	0.015 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-106 12 - 14 4/23/2007	WPL-SB-107 0 - 2 4/24/2007	WPL-SB-107 8 - 10 4/24/2007	WPL-SB-108 1 - 3 4/19/2007	WPL-SB-108 6 - 8 4/19/2007	WPL-SB-109 0 - 1 4/20/2007	WPL-SB-109 10 - 12 4/20/2007	WPL-SB-110 0 - 1 4/20/2007	WPL-SB-110 10 - 12 4/20/2007	WPL-SB-111 2 - 4 4/19/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.54 U	0.65 U	0.65 U	1.3 U	2.3 U	0.56 U	0.55 U	0.56 U	0.63 U	1.3 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.16 B J	0.15 B	0.65 U	0.48 B	0.85 B	0.65 J	0.17 B J	0.41 B J	0.21 B J	0.28 B
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.42 U	0.52 U	0.53 U	1.1 U	1.8 U	0.44 U	0.43 U	0.45 U	10.6	1.3
Mercury														
Mercury	10	840	190000	24	0.052	0.053	0.037 B	0.2	0.11 B	0.063	0.019 B	0.066	0.072	0.3
Metal														
Antimony	27	1100	190000	410	1.1 U	0.22 B J	0.13 B J	0.83 B	4.6 U	0.3 B	0.13 B	0.53 B	1.3 U	1.1 B
Arsenic	150	53	190000	1.6	3.1	3.8	1.5	21.8	16.2	5.4	4.4	5.2	4.9	14.1
Barium	8200	190000	190000	190000	48.9	16.6 B	40.1	249	158	76.9	25.6	60	65.6	348
Beryllium	320	5600	190000	2000	0.59 J	0.69 J	0.59 J	1.2 J	2.7 J	0.57 J	0.62 J	0.67 J	0.71 J	1.3 J
Cadmium	38	210	190000	800	0.54 U	0.65 U	0.65 U	1.9	2.3 U	0.77	0.63	1	0.78	0.58 B
Chromium				1400	18.5	17.9	12.3	22.6 J	55.5 J	16.4	19.5	26.5	18.4	35.8 J
Copper	36000	100000	190000	41000	7.9	15.2	3.7	42.3	50.3	22.4	11.7	31.9	39.1	82.8
Lead	450	1000	190000	800	15.9	13	7.1	85.1	52.1	33.9	12.5	61.3	20.9	64.9
Nickel	650	56000	190000	20000	11.1	11.6	6.4	15	38	10.2	9.7	12.4	13.2	18.5
Selenium	26	14000	190000	5100	1.1 U	0.65 U	0.65 U	1.3 U	2.3 U	0.56 U	0.55 U	0.56 U	0.63 U	1.3 U
Silver	84	14000	190000	5100	0.12 B	0.65 U	0.65 U	0.4 B	2.3 U	0.12 B	0.55 U	0.13 B	0.63 U	0.58 B
Thallium	14	200	190000	66	1.1 U	1.3 U	1.3 U	2.7 U	4.6 U	1.1 U	1.1 U	1.1 U	1.3 U	2.6 U
Vanadium	72000	20000	190000	7200	15.2	25	14.9	28	81.4	21.5	18.5	20.7	22.4	28.5
Zinc	12000	190000	190000	310000	27.5 J	36.7 J	19.9 J	169	121	57.8	30.4	76.5	260	144
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.018 U	0.022 U	0.022 U	0.045 U	0.077 U	0.019 U	0.018 U	0.019 U	0.021 U	0.043 U
Arochlor-1221	2.5	160	10000	0.62	0.018 U	0.022 U	0.022 U	0.045 U	0.077 U	0.019 U	0.018 U	0.019 U	0.021 U	0.043 U
Arochlor-1232	2	160	10000	0.62	0.018 U	0.022 U	0.022 U	0.045 U	0.077 U	0.019 U	0.018 U	0.019 U	0.021 U	0.043 U
Arochlor-1242	62	160	10000	0.74	0.018 U	0.022 U	0.022 U	0.045 U	0.077 U	0.019 U	0.018 U	0.019 U	0.021 U	0.043 U
Arochlor-1248	67	44	10000	0.74	0.018 U	0.022 U	0.022 U	0.045 U	0.077 U	0.019 U	0.018 U	0.019 U	0.021 U	0.043 U
Arochlor-1254	280	44	10000	0.74	0.018 U	0.022 U	0.022 U	0.17	0.077 U	0.39	0.018 U	1.6	0.021 U	0.43
Arochlor-1260	1900	130	190000	0.74	0.018 U	0.022 U	0.022 U	0.045 U	0.077 U	0.019 U	0.018 U	0.019 U	0.021 U	0.043 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
1,3-Dichlorobenzene	61	10000	10000		0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
1,4-Dichlorobenzene	10	3300	190000	13	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2,4-Dichlorophenol	2	8400	190000	1800	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2,4-Dimethylphenol	200	10000	10000	12000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2,6-Dinitrotoluene	10	2800	190000	620	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2-Chloronaphthalene	18000	190000	190000	82000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2-Chlorophenol	4.4	920	1100	5100	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2-Methylnaphthalene	8000	10000	10000	4100	0.35 U	0.43 U	0.43 U	0.04 J	1.5 U	1.9 U	0.36 U	1.9 U	0.018 J	0.2 J
2-Methylphenol	510	10000	10000	31000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
2-Nitroaniline	0.58	160	190000	1800	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
2-Nitrophenol	82	22000	190000		0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 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)	WPL-SB-106 12 - 14 4/23/2007	WPL-SB-107 0 - 2 4/24/2007	WPL-SB-107 8 - 10 4/24/2007	WPL-SB-108 1 - 3 4/19/2007	WPL-SB-108 6 - 8 4/19/2007	WPL-SB-109 0 - 1 4/20/2007	WPL-SB-109 10 - 12 4/20/2007	WPL-SB-110 0 - 1 4/20/2007	WPL-SB-110 10 - 12 4/20/2007	WPL-SB-111 2 - 4 4/19/2007
3/4-Methylphenol				5100	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
3-Nitroaniline	0.58	160	190000		1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
4-Bromophenyl phenyl ether					0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
4-Chloroaniline	52	11000	190000	8.6	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
4-Chlorodiphenyl Ether					0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
4-Nitrophenol	6	22000	190000		1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
Acenaphthene	4700	170000	190000	33000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.17 J
Acenaphthylene	6900	170000	190000	33000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.042 J	0.052 J
Anthracene	350	190000	190000	170000	0.35 U	0.43 U	0.43 U	0.041 J	1.5 U	0.072 J	0.36 U	1.9 U	0.059 J	0.33 J
Benzo (A) Anthracene	320	110	190000	2.1	0.35 U	0.43 U	0.43 U	0.17 J	1.5 U	0.2 J	0.36 U	0.22 J	0.15 J	1.1
Benzo (a) Pyrene	46	11	190000	0.21	0.35 U	0.43 U	0.43 U	0.15 J	1.5 U	0.18 J	0.36 U	0.18 J	0.12 J	1
Benzo (b) Fluoranthene	170	110	190000	2.1	0.35 U	0.43 U	0.43 U	0.18 J	1.5 U	0.23 J	0.36 U	1.9 U	0.21 J	1.3
Benzo (g,h,i) Perylene	180	170000	190000		0.35 U	0.43 U	0.43 U	0.13 J	1.5 U	0.16 J	0.36 U	1.9 U	0.053 J	0.45 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.35 U	0.43 U	0.43 U	0.074 J	1.5 U	0.09 J	0.36 U	1.9 U	0.066 J	0.53 J
Bis(2-Chloroethoxy) Methane				1800	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.026 J	0.056 J
Butylbenzylphthalate	10000	10000	10000	910	0.018 J	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Carbazole	83	4000	190000		0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.19 J
Chrysene	230	11000	190000	210	0.35 U	0.43 U	0.43 U	0.18 J	1.5 U	0.19 J	0.36 U	0.26 J	0.15 J	1.1
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.13 J
Dibenzofuran					0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.011 J	0.12 J
Diethylphthalate	500	10000	10000	490000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Dimethylphthalate					0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Di-n-octylphthalate	10000	10000	10000		0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Fluoranthene	3200	110000	190000	22000	0.35 U	0.43 U	0.43 U	0.32 J	1.5 U	0.29 J	0.36 U	0.33 J	0.26 J	2.6
Fluorene	3800	110000	190000	22000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.14 J
Hexachlorobenzene	0.96	50	190000	1.1	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Hexachlorobutadiene	1.2	560	10000	22	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
Hexachloroethane	0.56	2800	190000	120	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.35 U	0.43 U	0.43 U	0.094 J	1.5 U	0.14 J	0.36 U	1.9 U	0.058 J	0.45 J
Isophorone	10	10000	10000	1800	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Naphthalene	25	56000	190000	20	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.16 J
Nitrobenzene	5.1	1400	10000	22	0.1 J	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Pentachlorophenol	5	660	190000	9	1.7 U	2.1 U	2.1 U	4.3 U	7.4 U	9 U	1.8 U	9 U	2 U	4.1 U
Phenanthrene	10000	190000	190000		0.011 J	0.43 U	0.43 U	0.2 J	1.5 U	0.14 J	0.36 U	0.11 J	0.095 J	1.6
Phenol	400	190000	190000	180000	0.35 U	0.43 U	0.43 U	0.88 U	1.5 U	1.9 U	0.36 U	1.9 U	0.41 U	0.84 U
Pyrene	2200	84000	190000	17000	0.35 U	0.43 U	0.43 U	0.25 J	1.5 U	0.29 J	0.36 U	0.27 J	0.16 J	1.5
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-106 12 - 14 4/23/2007	WPL-SB-107 0 - 2 4/24/2007	WPL-SB-107 8 - 10 4/24/2007	WPL-SB-108 1 - 3 4/19/2007	WPL-SB-108 6 - 8 4/19/2007	WPL-SB-109 0 - 1 4/20/2007	WPL-SB-109 10 - 12 4/20/2007	WPL-SB-110 0 - 1 4/20/2007	WPL-SB-110 10 - 12 4/20/2007	WPL-SB-111 2 - 4 4/19/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					93.10%	77%	76.60%	37.40%	21.70%	89%	90.70%	88.50%	79.70%	39.10%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.0037 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,1-Dichloroethane	11	1000	1200	17	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0021 J	0.068
1,1-Dichloroethene	0.7	33	38	1100	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,2-Dichloroethane	0.5	63	73	2.2	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,2-Dichloropropane	0.5	160	180	4.7	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
1,4-Dioxane	2.4	210	240	160	1 U	1.2 U	1.1 U	2.3 U	4.2 U	1.2 U	1 U	1.1 U	1.1 U	2.4 U
2-Butanone	580	10000	10000	190000	0.02 U	0.024 U	0.022 U	0.0027 J	0.083 U	0.024 U	0.02 U	0.022 U	0.022 U	0.048 U
2-Hexanone					0.02 U	0.024 U	0.022 U	0.045 U	0.083 U	0.024 U	0.02 U	0.022 U	0.022 U	0.048 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U	0.024 U	0.022 U	0.045 U	0.083 U	0.024 U	0.02 U	0.022 U	0.022 U	0.048 U
Acetone	1000	10000	10000	610000	0.02 U	0.024 U	0.022 U	0.014 J B	0.0054 J B	0.0014 J B	0.0013 J B	0.022 U	0.022 U	0.048 U
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.12 U	0.11 U	0.23 U	0.42 U	0.12 U	0.1 U	0.11 U	0.11 U	0.24 U
Benzene	0.5	210	240	5.6	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Bromochloromethane	9	10000	10000		0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Bromodichloromethane	10	45	51	1.4	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Bromoform	10	1500	1700	220	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Bromomethane	1	270	300	35	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Carbon Disulfide	410	10000	10000	3000	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Carbon Tetrachloride	0.5	110	120	1.3	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Chlorobenzene	10	10000	10000	1500	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Chlorodibromomethane	10	61	70	3.4	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Chloroethane	90	10000	10000	62000	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Chloroform	10	17	19	1.5	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Chloromethane	0.3	920	1000	510	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0063	0.014
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Ethylbenzene	70	10000	10000	29	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Methyl tert-butyl ether	2	3200	3700	190	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 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-106 12 - 14 4/23/2007	WPL-SB-107 0 - 2 4/24/2007	WPL-SB-107 8 - 10 4/24/2007	WPL-SB-108 1 - 3 4/19/2007	WPL-SB-108 6 - 8 4/19/2007	WPL-SB-109 0 - 1 4/20/2007	WPL-SB-109 10 - 12 4/20/2007	WPL-SB-110 0 - 1 4/20/2007	WPL-SB-110 10 - 12 4/20/2007	WPL-SB-111 2 - 4 4/19/2007
Methylene chloride	0.5	3500	4000	54	0.0032 J B	0.0046 J	0.003 J	0.015 B	0.028 B	0.014 B	0.011 B	0.0096 B	0.013 B	0.0061 J
Styrene	24	10000	10000	38000	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Tetrachloroethene	0.5	1500	3300	2.7	0.005 U	0.003 J	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.016	0.032
Toluene	100	10000	10000	46000	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Trichloroethene	0.5	970	1100	14	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0027 J	0.0035 J	0.0095 J
Vinyl Chloride	0.2	53	220	1.7	0.005 U	0.0059 U	0.0056 U	0.011 U	0.021 U	0.006 U	0.0051 U	0.0055 U	0.0054 U	0.012 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.018 U	0.017 U	0.034 U	0.062 U	0.018 U	0.015 U	0.017 U	0.016 U	0.036 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-111 9 - 11 4/19/2007	WPL-SB-111 Dup 9 - 11 4/19/2007	WPL-SB-112 0 - 1 4/20/2007	WPL-SB-112 8 - 10 4/20/2007	WPL-SB-113 1 - 3 4/24/2007	WPL-SB-113 12 - 14 4/24/2007	WPL-SB-113 Dup 12 - 14 4/24/2007	WPL-SB-114 1 - 3 1/23/2008	WPL-SB-114 11 - 13 1/23/2008	WPL-SB-115 0 - 1 4/12/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	1.3 U	1.2 U	0.58 U	0.61 U	0.6 U	0.68 U	0.67 U	0.6 U	0.54 U	0.69 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.35 B	0.39 B	0.27 B J	0.34 B J	0.16 B	0.2 B	0.22 B	0.6 U	0.54 U	0.69 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	1 U	0.96 U	3	0.5 U	0.47 U	0.21 B	0.53 U	0.49 U	0.44 U	0.53 U
Mercury														
Mercury	10	840	190000	24	0.055 B	0.055 B	0.084	0.036 B	0.098	0.047	0.042 B	0.039 B	0.021 B	0.045 B
Metal														
Antimony	27	1100	190000	410	2.6 U	2.4 U	0.18 B	1.2 U	0.19 B J	1.4 U	1.3 U	0.17 B J	0.13 B J	0.2 B
Arsenic	150	53	190000	1.6	8.3	6.1	5.1	3.7	4.4	2.9	4.4	4.3	3.6	5.5
Barium	8200	190000	190000	190000	91.9	64.3	61.2	40.9	95.5	37.9	38.7	76.3	34.9	82
Beryllium	320	5600	190000	2000	1.3 J	1.1 J	0.58 J	0.68 J	1.1 J	0.71 J	0.8 J	0.89	0.5	0.84
Cadmium	38	210	190000	800	1.3 U	1.2 U	0.92	0.6 B	0.6 U	0.68 U	0.67 U	0.6 U	0.54 U	0.69 U
Chromium				1400	41.3 J	34.8 J	27.1	19.3	16.7	14.5	14.8	21.3 J	19.3 J	41.2
Copper	36000	100000	190000	41000	31.4	22.9	27.4	19.3	12.1	12.7	14	28.7	13.6	31.5
Lead	450	1000	190000	800	24.9	22	74.9	10.4	37.4	8.4	11.9	16.8	11.5	54.3
Nickel	650	56000	190000	20000	25	22.3	11.1	12.4	11.4	11	10.6	27.7	13.1	13.3
Selenium	26	14000	190000	5100	1.3 U	1.2 U	0.58 U	0.61 U	1.2 U	0.68 U	0.67 U	0.71	0.54 U	0.69 U
Silver	84	14000	190000	5100	1.3 U	0.2 B	0.14 B	0.61 U	0.12 B	0.68 U	0.67 U	0.097 B	0.064 B	0.19 B
Thallium	14	200	190000	66	2.6 U	2.4 U	1.2 U	1.2 U	1.2 U	1.4 U	1.3 U	1.2 U	1.1 U	0.78 B J
Vanadium	72000	20000	190000	7200	53.9	37.2	23	24.8	29.8	20.2	23.2	22.7	11.9	28.3
Zinc	12000	190000	190000	310000	77.3	66.4	71.5	37.3	34.5 J	34.8 J	33.8 J	111 J	33.1 J	136
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.044 U	0.04 U	0.019 U	0.02 U	0.02 U	0.023 U	0.022 U	0.02 U	0.018 U	0.023 U
Arochlor-1221	2.5	160	10000	0.62	0.044 U	0.04 U	0.019 U	0.02 U	0.02 U	0.023 U	0.022 U	0.02 U	0.018 U	0.023 U
Arochlor-1232	2	160	10000	0.62	0.044 U	0.04 U	0.019 U	0.02 U	0.02 U	0.023 U	0.022 U	0.02 U	0.018 U	0.023 U
Arochlor-1242	62	160	10000	0.74	0.044 U	0.04 U	0.019 U	0.02 U	0.02 U	0.023 U	0.022 U	0.02 U	0.018 U	0.023 U
Arochlor-1248	67	44	10000	0.74	0.044 U	0.04 U	0.019 U	0.02 U	0.02 U	0.023 U	0.022 U	0.02 U	0.018 U	0.023 U
Arochlor-1254	280	44	10000	0.74	0.044 U	0.04 U	1.6	0.02 U	0.02 U	0.023 U	0.022 U	0.02 U	0.018 U	0.013 J
Arochlor-1260	1900	130	190000	0.74	0.044 U	0.04 U	0.019 U	0.02 U	0.02 U	0.023 U	0.022 U	0.02	0.018 U	0.023 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
1,3-Dichlorobenzene	61	10000	10000		0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
1,4-Dichlorobenzene	10	3300	190000	13	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2,4-Dichlorophenol	2	8400	190000	1800	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2,4-Dimethylphenol	200	10000	10000	12000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2,4-Dinitrophenol	4.1	5600	190000	1200	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2,6-Dinitrotoluene	10	2800	190000	620	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2-Chloronaphthalene	18000	190000	190000	82000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2-Chlorophenol	4.4	920	1100	5100	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2-Methylnaphthalene	8000	10000	10000	4100	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.016 J
2-Methylphenol	510	10000	10000	31000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
2-Nitroaniline	0.58	160	190000	1800	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
2-Nitrophenol	82	22000	190000		0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 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-111 9 - 11 4/19/2007	WPL-SB-111 Dup 9 - 11 4/19/2007	WPL-SB-112 0 - 1 4/20/2007	WPL-SB-112 8 - 10 4/20/2007	WPL-SB-113 1 - 3 4/24/2007	WPL-SB-113 12 - 14 4/24/2007	WPL-SB-113 Dup 12 - 14 4/24/2007	WPL-SB-114 1 - 3 1/23/2008	WPL-SB-114 11 - 13 1/23/2008	WPL-SB-115 0 - 1 4/12/2007
3/4-Methylphenol				5100	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
3-Nitroaniline	0.58	160	190000		4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
4,6-Dinitro-2-Methylphenol				62	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
4-Bromophenyl phenyl ether					0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
4-Chloroaniline	52	11000	190000	8.6	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
4-Chlorodiphenyl Ether					0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
4-Nitrophenol	6	22000	190000		4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
Acenaphthene	4700	170000	190000	33000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.099 J
Acenaphthylene	6900	170000	190000	33000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.034 J
Anthracene	350	190000	190000	170000	0.87 U	0.79 U	0.38 U	0.019 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.16 J
Benzo (A) Anthracene	320	110	190000	2.1	0.87 U	0.79 U	0.045 J	0.077 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.42 J
Benzo (a) Pyrene	46	11	190000	0.21	0.87 U	0.79 U	0.041 J	0.057 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.34 J
Benzo (b) Fluoranthene	170	110	190000	2.1	0.87 U	0.79 U	0.044 J	0.067 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.39 J
Benzo (g,h,i) Perylene	180	170000	190000		0.87 U	0.79 U	0.012 J	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.19 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.87 U	0.79 U	0.021 J	0.032 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.16 J
Bis(2-Chloroethoxy) Methane				1800	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Butylbenzylphthalate	10000	10000	10000	910	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Carbazole	83	4000	190000		0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.045 J
Chrysene	230	11000	190000	210	0.87 U	0.79 U	0.041 J	0.068 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.35 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.044 J
Dibenzofuran					0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.082 J
Diethylphthalate	500	10000	10000	490000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Dimethylphthalate					0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.091 J	0.36 U	0.46 U
Di-n-octylphthalate	10000	10000	10000		0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Fluoranthene	3200	110000	190000	22000	0.87 U	0.79 U	0.078 J	0.12 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	1.4
Fluorene	3800	110000	190000	22000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.14 J
Hexachlorobenzene	0.96	50	190000	1.1	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Hexachlorobutadiene	1.2	560	10000	22	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Hexachlorocyclopentadiene	91	10000	10000	3700	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
Hexachloroethane	0.56	2800	190000	120	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.87 U	0.79 U	0.017 J	0.012 J	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.17 J
Isophorone	10	10000	10000	1800	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Naphthalene	25	56000	190000	20	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Nitrobenzene	5.1	1400	10000	22	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Pentachlorophenol	5	660	190000	9	4.2 U	3.8 U	1.8 U	2 U	1.9 U	2.2 U	2.1 U	1.9 U	1.7 U	2.2 U
Phenanthrene	10000	190000	190000		0.87 U	0.79 U	0.04 J	0.074 J	0.023 J	0.45 U	0.44 U	0.4 U	0.36 U	0.99
Phenol	400	190000	190000	180000	0.87 U	0.79 U	0.38 U	0.4 U	0.4 U	0.45 U	0.44 U	0.4 U	0.36 U	0.46 U
Pyrene	2200	84000	190000	17000	0.87 U	0.79 U	0.053 J	0.092 J	0.029 J	0.45 U	0.44 U	0.4 U	0.36 U	0.81
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-111 9 - 11 4/19/2007	WPL-SB-111 Dup 9 - 11 4/19/2007	WPL-SB-112 0 - 1 4/20/2007	WPL-SB-112 8 - 10 4/20/2007	WPL-SB-113 1 - 3 4/24/2007	WPL-SB-113 12 - 14 4/24/2007	WPL-SB-113 Dup 12 - 14 4/24/2007	WPL-SB-114 1 - 3 1/23/2008	WPL-SB-114 11 - 13 1/23/2008	WPL-SB-115 0 - 1 4/12/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					38.10%	41.70%	86.80%	81.70%	83.10%	73.20%	74.90%			72.50%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,1-Dichloroethane	11	1000	1200	17	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,1-Dichloroethene	0.7	33	38	1100	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,2-Dichloroethane	0.5	63	73	2.2	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,2-Dichloropropane	0.5	160	180	4.7	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
1,4-Dioxane	2.4	210	240	160	2.1 U	2 U	1.2 U	1.1 U	0.99 U	1.2 U	1.1 U	1 U	1 U	1.2 U
2-Butanone	580	10000	10000	190000	0.042 U	0.041 U	0.023 U	0.021 U	0.02 U	0.024 U	0.023 U	0.021 U	0.02 U	0.0024 J
2-Hexanone					0.042 U	0.041 U	0.023 U	0.021 U	0.02 U	0.024 U	0.023 U	0.021 U	0.02 U	0.025 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.042 U	0.041 U	0.023 U	0.021 U	0.02 U	0.024 U	0.023 U	0.021 U	0.02 U	0.025 U
Acetone	1000	10000	10000	610000	0.042 U	0.041 U	0.023 U	0.021 U	0.0051 J	0.024 U	0.023 U	0.0059 J	0.02 U	0.019 J
Acrylonitrile	0.27	24	28	1.2	0.21 U	0.2 U	0.12 U	0.11 U	0.099 U	0.12 U	0.11 U	0.1 U	0.1 U	0.12 U
Benzene	0.5	210	240	5.6	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Bromochloromethane	9	10000	10000		0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Bromodichloromethane	10	45	51	1.4	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Bromoform	10	1500	1700	220	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Bromomethane	1	270	300	35	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Carbon Disulfide	410	10000	10000	3000	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Carbon Tetrachloride	0.5	110	120	1.3	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Chlorobenzene	10	10000	10000	1500	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Chlorodibromomethane	10	61	70	3.4	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Chloroethane	90	10000	10000	62000	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Chloroform	10	17	19	1.5	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Chloromethane	0.3	920	1000	510	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0071
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Ethylbenzene	70	10000	10000	29	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Methyl tert-butyl ether	2	3200	3700	190	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 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-111 9 - 11 4/19/2007	WPL-SB-111 Dup 9 - 11 4/19/2007	WPL-SB-112 0 - 1 4/20/2007	WPL-SB-112 8 - 10 4/20/2007	WPL-SB-113 1 - 3 4/24/2007	WPL-SB-113 12 - 14 4/24/2007	WPL-SB-113 Dup 12 - 14 4/24/2007	WPL-SB-114 1 - 3 1/23/2008	WPL-SB-114 11 - 13 1/23/2008	WPL-SB-115 0 - 1 4/12/2007
Methylene chloride	0.5	3500	4000	54	0.014	0.014	0.013 B	0.014 B	0.0031 J	0.0025 J	0.004 J	0.0013 J B	0.0031 J B	0.0026 J
Styrene	24	10000	10000	38000	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Tetrachloroethene	0.5	1500	3300	2.7	0.01 U	0.0085 J	0.0022 J	0.0027 J	0.0049 U	0.0061 U	0.0024 J	0.0052 U	0.005 U	0.0061 U
Toluene	100	10000	10000	46000	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0061 U
Trichloroethene	0.5	970	1100	14	0.01 U	0.0034 J	0.0013 J	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.012
Vinyl Chloride	0.2	53	220	1.7	0.01 U	0.01 U	0.0058 U	0.0053 U	0.0049 U	0.0061 U	0.0057 U	0.0052 U	0.005 U	0.0072 U
Xylenes (Total)	1000	10000	10000	2600	0.031 U	0.031 U	0.017 U	0.016 U	0.015 U	0.018 U	0.017 U	0.015 U	0.015 U	0.018 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-115 0 - 1 4/12/2007	WPL-SB-116 0 - 2 4/12/2007	WPL-SB-116 6 - 8 4/12/2007	WPL-SB-117 0 - 2 4/30/2007	WPL-SB-117 6 - 8 4/30/2007	WPL-SB-118 0 - 2 4/30/2007	WPL-SB-118 6 - 8 4/30/2007	WPL-SB-119 Dup 0 - 2 4/30/2007	WPL-SB-119 0 - 2 4/30/2007	WPL-SB-119 8 - 10 4/30/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.61 U	0.58 U	0.61 U	0.62 U	0.62 U	0.6 U	0.61 U	0.6 U	0.61 U	0.65 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.61 U	0.58 U	0.49 B	0.62 U	0.62 U	0.6 U	0.61 U	0.6 U	0.61 U	0.65 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	8.7	0.28 B	0.89							
Mercury														
Mercury	10	840	190000	24	3	0.051	0.083	0.055	0.084	0.043	0.036 B	0.023 B	0.034 B	0.025 B
Metal														
Antimony	27	1100	190000	410	7.6	1 B	1.1 B	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.45 B J
Arsenic	150	53	190000	1.6	4.5	4.5	4.8	4	4.4	5.1	4.6	6.4	3.4	4.3
Barium	8200	190000	190000	190000	202	116	293	57.7	63.7	66.5	77.3	74.4	65.5	13.6 B
Beryllium	320	5600	190000	2000	0.57	0.69	0.89	0.87 J	0.87 J	0.83 J	0.95 J	0.88 J	0.8 J	1.8 J
Cadmium	38	210	190000	800	5.1	0.29 B	0.98	0.62 U	0.62 U	0.6 U	0.61 U	0.6 U	0.61 U	0.65 U
Chromium				1400	88.5	18.6	34.6	19.2	23.1	21.8	19.4	25.3	13.7	11.6
Copper	36000	100000	190000	41000	315	46.2	804	11.6	8.3	10.9	11	11.3	7.2	38.4
Lead	450	1000	190000	800	328	37.8	182	10.4	11.5	13.7	15.8	11.8	9.9	15
Nickel	650	56000	190000	20000	22	10.3	42.5	8.1	7.4	10.7	9	11	6.7	26.4
Selenium	26	14000	190000	5100	0.61 U	0.58 U	0.61 U	0.62 U	0.62 U	0.6 U	0.61 U	0.6 U	0.61 U	3.3 U
Silver	84	14000	190000	5100	4.5	0.25 B	2.2	0.62 U	0.62 U	0.6 U	0.61 U	0.6 U	0.61 U	0.65 U
Thallium	14	200	190000	66	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48 B
Vanadium	72000	20000	190000	7200	14.8	19.8	19.6	30.4	33.6	34.6	28.8	35.6	22.7	24.5
Zinc	12000	190000	190000	310000	891	110	538	26.1 J	24.9 J	30.6 J	31.1 J	39.2 J	18.8 J	54.4 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.02 U	0.019 U	0.02 U	0.021 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Arochlor-1221	2.5	160	10000	0.62	0.02 U	0.019 U	0.02 U	0.021 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Arochlor-1232	2	160	10000	0.62	0.02 U	0.019 U	0.02 U	0.021 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Arochlor-1242	62	160	10000	0.74	0.02 U	0.019 U	0.02 U	0.021 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Arochlor-1248	67	44	10000	0.74	0.02 U	0.019 U	0.02 U	0.021 U	0.021 U	0.078	0.02 U	0.02 U	0.02 U	0.022 U
Arochlor-1254	280	44	10000	0.74	0.72	3.2	0.02 U	0.021 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Arochlor-1260	1900	130	190000	0.74	0.02 U	0.019 U	0.02 U	0.021 U	0.021 U	0.22	0.02 U	0.02 U	0.02 U	0.022 U
PCBs (Total)				0.74				0.021 U	0.021 U	0.298	0.02 U		0.02 U	0.022 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
1,2-Dichlorobenzene	60	10000	10000	10000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
1,3-Dichlorobenzene	61	10000	10000		1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
1,4-Dichlorobenzene	10	3300	190000	13	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2,4,6-Trichlorophenol	8.9	840	190000	160	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2,4-Dichlorophenol	2	8400	190000	1800	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2,4-Dimethylphenol	200	10000	10000	12000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2,4-Dinitrophenol	4.1	5600	190000	1200	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2,6-Dinitrotoluene	10	2800	190000	620	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2-Chloronaphthalene	18000	190000	190000	82000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2-Chlorophenol	4.4	920	1100	5100	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2-Methylnaphthalene	8000	10000	10000	4100	0.11 J	0.043 J	0.031 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2-Methylphenol	510	10000	10000	31000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
2-Nitroaniline	0.58	160	190000	1800	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
2-Nitrophenol	82	22000	190000		1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 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)	WPL-SB-115 0 - 1 4/12/2007	WPL-SB-116 0 - 2 4/12/2007	WPL-SB-116 6 - 8 4/12/2007	WPL-SB-117 0 - 2 4/30/2007	WPL-SB-117 6 - 8 4/30/2007	WPL-SB-118 0 - 2 4/30/2007	WPL-SB-118 6 - 8 4/30/2007	WPL-SB-119 Dup 0 - 2 4/30/2007	WPL-SB-119 0 - 2 4/30/2007	WPL-SB-119 8 - 10 4/30/2007
3/4-Methylphenol				5100	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
3-Nitroaniline	0.58	160	190000		5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
4,6-Dinitro-2-Methylphenol				62	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
4-Bromophenyl phenyl ether					1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
4-Chloroaniline	52	11000	190000	8.6	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
4-Chlorodiphenyl Ether					1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
4-Nitrophenol	6	22000	190000		5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
Acenaphthene	4700	170000	190000	33000	0.49 J	0.04 J	0.021 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Acenaphthylene	6900	170000	190000	33000	0.82 J	0.039 J	0.055 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Anthracene	350	190000	190000	170000	1.7	0.1 J	0.11 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Benzo (A) Anthracene	320	110	190000	2.1	5	0.38	0.29 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Benzo (a) Pyrene	46	11	190000	0.21	6.4	0.37 J	0.24 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Benzo (b) Fluoranthene	170	110	190000	2.1	7.2	0.47	0.27 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Benzo (g,h,i) Perylene	180	170000	190000		5.3	0.31 J	0.17 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Benzo (k) Fluoranthene	610	1100	190000	21	2.9	0.15 J	0.12 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Bis(2-Chloroethoxy) Methane				1800	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	1.2 U	0.026 J	0.027 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Butylbenzylphthalate	10000	10000	10000	910	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Carbazole	83	4000	190000		0.61 J	0.054 J	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Chrysene	230	11000	190000	210	5.3	0.39	0.26 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	1.2	0.066 J	0.043 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Dibenzofuran					0.46 J	0.028 J	0.04 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Diethylphthalate	500	10000	10000	490000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Dimethylphthalate					1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Di-n-Butylphthalate	4100	10000	10000	62000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Di-n-octylphthalate	10000	10000	10000		1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Fluoranthene	3200	110000	190000	22000	12	0.82	0.62	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Fluorene	3800	110000	190000	22000	0.68 J	0.031 J	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Hexachlorobenzene	0.96	50	190000	1.1	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Hexachlorobutadiene	1.2	560	10000	22	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Hexachlorocyclopentadiene	91	10000	10000	3700	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
Hexachloroethane	0.56	2800	190000	120	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	4.6	0.27 J	0.16 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Isophorone	10	10000	10000	1800	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Naphthalene	25	56000	190000	20	0.3 J	0.031 J	0.057 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Nitrobenzene	5.1	1400	10000	22	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
N-Nitrosodiphenylamine	83	16000	190000	350	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Pentachlorophenol	5	660	190000	9	5.8 U	1.8 U	2 U	2 U	2 U	39 U	1.9 U	1.9 U	2 U	2.1 U
Phenanthrene	10000	190000	190000		9.5	0.47	0.35 J	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Phenol	400	190000	190000	180000	1.2 U	0.38 U	0.4 U	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Pyrene	2200	84000	190000	17000	10	0.59	0.43	0.41 U	0.41 U	8 U	0.4 U	0.4 U	0.4 U	0.43 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-115 0 - 1 4/12/2007	WPL-SB-116 0 - 2 4/12/2007	WPL-SB-116 6 - 8 4/12/2007	WPL-SB-117 0 - 2 4/30/2007	WPL-SB-117 6 - 8 4/30/2007	WPL-SB-118 0 - 2 4/30/2007	WPL-SB-118 6 - 8 4/30/2007	WPL-SB-119 Dup 0 - 2 4/30/2007	WPL-SB-119 0 - 2 4/30/2007	WPL-SB-119 8 - 10 4/30/2007
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					82.40%	86.70%	81.80%	80.60%	80.80%	82.90%	82.60%	83.20%	81.90%	76.50%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,1-Dichloroethane	11	1000	1200	17	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,1-Dichloroethene	0.7	33	38	1100	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
1,4-Dioxane	2.4	210	240	160	1.2 U	0.97 U	1.1 U	1.1 U	1.1 U	0.99 U	0.99 U	1 U	0.99 U	1.1 U
2-Butanone	580	10000	10000	190000	0.024 U	0.019 U	0.022 U	0.022 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
2-Hexanone					0.024 U	0.019 U	0.022 U	0.022 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.024 U	0.019 U	0.022 U	0.022 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Acetone	1000	10000	10000	610000	0.0065 J	0.019 U	0.022 U	0.022 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U
Acrylonitrile	0.27	24	28	1.2	0.12 U	0.097 U	0.11 U	0.11 U	0.11 U	0.099 U	0.099 U	0.1 U	0.099 U	0.11 U
Benzene	0.5	210	240	5.6	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Bromochloromethane	9	10000	10000		0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Bromodichloromethane	10	45	51	1.4	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Bromoform	10	1500	1700	220	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Bromomethane	1	270	300	35	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Carbon Disulfide	410	10000	10000	3000	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Chlorobenzene	10	10000	10000	1500	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Chlorodibromomethane	10	61	70	3.4	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Chloroethane	90	10000	10000	62000	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Chloroform	10	17	19	1.5	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Chloromethane	0.3	920	1000	510	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0024 J	0.0048 U	0.097	0.0054 U	0.0053 U	0.0017 J	0.005 U	0.0051 U	0.0049 U	0.0054 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Ethylbenzene	70	10000	10000	29	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Methyl tert-butyl ether	2	3200	3700	190	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 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-115 0 - 1 4/12/2007	WPL-SB-116 0 - 2 4/12/2007	WPL-SB-116 6 - 8 4/12/2007	WPL-SB-117 0 - 2 4/30/2007	WPL-SB-117 6 - 8 4/30/2007	WPL-SB-118 0 - 2 4/30/2007	WPL-SB-118 6 - 8 4/30/2007	WPL-SB-119 Dup 0 - 2 4/30/2007	WPL-SB-119 0 - 2 4/30/2007	WPL-SB-119 8 - 10 4/30/2007
Methylene chloride	0.5	3500	4000	54	0.0059 U	0.00097 J	0.0012 J	0.0017 J B	0.0023 J B	0.0015 J B	0.0013 J B	0.0022 J B	0.002 J B	0.0032 J B
Styrene	24	10000	10000	38000	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Toluene	100	10000	10000	46000	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0059 U	0.0048 U	0.0021 J	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Trichloroethene	0.5	970	1100	14	0.0089	0.0059	0.11	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Vinyl Chloride	0.2	53	220	1.7	0.0059 U	0.0048 U	0.0054 U	0.0054 U	0.0053 U	0.0049 U	0.005 U	0.0051 U	0.0049 U	0.0054 U
Xylenes (Total)	1000	10000	10000	2600	0.018 U	0.015 U	0.016 U	0.016 U	0.016 U	0.015 U	0.015 U	0.015 U	0.015 U	0.016 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-120 0 - 2 4/19/2007	WPL-SB-120 8 - 10 4/19/2007	WPL-SB-121 0 - 1 4/20/2007	WPL-SB-121 13 - 15 4/20/2007	WPL-SB-122 0 - 2 4/24/2007	WPL-SB-122 11 - 13 4/24/2007	WPL-SB-123 0 - 2 4/24/2007	WPL-SB-123 12 - 14 4/24/2007	WPL-SB-124 1 - 3 1/18/2008	WPL-SB-124 13 - 15 1/18/2008
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	1.9 U	1.4 U	0.55 U	0.58 U	0.6 U	0.54 U	0.59 U	0.56 U	0.62 U	0.55 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	1.7 B	0.43 B	0.92 J	0.22 B J	0.15 B	0.54 U	0.11 B	0.16 B	0.62 U	0.55 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	1.5 U	1.2 U	0.44 U	0.47 U	0.49 U	0.35 B	0.48 U	0.26 B	0.34 B	0.45 U
Mercury														
Mercury	10	840	190000	24	0.23	0.065 B	0.37	0.041	0.11	0.018 B	0.092	0.012 B	0.047	0.011 B
Metal														
Antimony	27	1100	190000	410	0.96 B	2.8 U	0.4 B	1.2 U	0.17 B J	0.11 B J	0.12 B J	1.1 U	1.2 U	1.1 U
Arsenic	150	53	190000	1.6	18.9	8	3.5	4.7	1.9	3.1	3.5	2.2	4.3	3.9
Barium	8200	190000	190000	190000	347	78.8	55	41	24.4	35	62.2	34	61.4	44
Beryllium	320	5600	190000	2000	1.8 J	1.3 J	0.39 B J	0.75 J	0.52 J	0.59 J	0.91 J	0.51 J	0.59	0.96
Cadmium	38	210	190000	800	9.3	0.18 B	0.67	0.76	0.6 U	0.54 U	0.59 U	0.56 U	0.17 B	0.27 B
Chromium				1400	143 J	46.3 J	10.5	26.4	9.4	19.1	30.9	12.1	14.8	14.3
Copper	36000	100000	190000	41000	121	42.3	20.4	14.9	5.1	9.8	11.1	10	8.1	16.2
Lead	450	1000	190000	800	203	31.3	20.5	17.5	8.7	12.6	16.7	10.9	9.1	10.7
Nickel	650	56000	190000	20000	32.6	28.1	9	12	6.5	8.3	6.5	8.9	6.6	16.3
Selenium	26	14000	190000	5100	1.9 U	1.4 U	1.1 U	1.2 U	0.6 U	0.54 U	0.59 U	0.56 U	0.62 U	0.55 U
Silver	84	14000	190000	5100	0.68 B	1.4 U	0.085 B	0.58 U	0.6 U	0.045 B	0.13 B	0.56 U	0.62 U	0.55 U
Thallium	14	200	190000	66	3.8 U	2.8 U	1.1 U	1.2 U	1.2 U	0.5 B	1.2 U	1.1 U	1.2 U	1.1 U
Vanadium	72000	20000	190000	7200	50.2	43.7	15.9	21.7	11.9	13	31.5	11	23.2	16
Zinc	12000	190000	190000	310000	1920	196	45.4	42.7	13.6 J	21.9 J	27 J	27.2 J	21.7	67.7
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.064 U	0.047 U	0.018 U	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
Arochlor-1221	2.5	160	10000	0.62	0.064 U	0.047 U	0.018 U	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
Arochlor-1232	2	160	10000	0.62	0.064 U	0.047 U	0.018 U	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
Arochlor-1242	62	160	10000	0.74	0.064 U	0.047 U	0.018 U	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
Arochlor-1248	67	44	10000	0.74	0.064 U	0.047 U	0.018 U	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
Arochlor-1254	280	44	10000	0.74	13	0.83	0.16	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
Arochlor-1260	1900	130	190000	0.74	0.064 U	0.047 U	0.018 U	0.019 U	0.02 U	0.018 U	0.02 U	0.019 U	0.021 U	0.018 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
1,2-Dichlorobenzene	60	10000	10000	10000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
1,3-Dichlorobenzene	61	10000	10000		1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
1,4-Dichlorobenzene	10	3300	190000	13	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2,4,6-Trichlorophenol	8.9	840	190000	160	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2,4-Dichlorophenol	2	8400	190000	1800	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2,4-Dimethylphenol	200	10000	10000	12000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2,4-Dinitrophenol	4.1	5600	190000	1200	6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2,6-Dinitrotoluene	10	2800	190000	620	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2-Chloronaphthalene	18000	190000	190000	82000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2-Chlorophenol	4.4	920	1100	5100	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2-Methylnaphthalene	8000	10000	10000	4100	0.036 J	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2-Methylphenol	510	10000	10000	31000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
2-Nitroaniline	0.58	160	190000	1800	6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
2-Nitrophenol	82	22000	190000		1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 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-120 0 - 2 4/19/2007	WPL-SB-120 8 - 10 4/19/2007	WPL-SB-121 0 - 1 4/20/2007	WPL-SB-121 13 - 15 4/20/2007	WPL-SB-122 0 - 2 4/24/2007	WPL-SB-122 11 - 13 4/24/2007	WPL-SB-123 0 - 2 4/24/2007	WPL-SB-123 12 - 14 4/24/2007	WPL-SB-124 1 - 3 1/18/2008	WPL-SB-124 13 - 15 1/18/2008
3/4-Methylphenol				5100	0.39 J	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
3-Nitroaniline	0.58	160	190000		6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
4,6-Dinitro-2-Methylphenol				62	6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
4-Bromophenyl phenyl ether					1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
4-Chloroaniline	52	11000	190000	8.6	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
4-Chlorodiphenyl Ether					1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
4-Nitrophenol	6	22000	190000		6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
Acenaphthene	4700	170000	190000	33000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Acenaphthylene	6900	170000	190000	33000	0.083 J	0.92 U	1.5 U	0.015 J	0.4 U	0.36 U	0.057 J	0.37 U	0.41 U	0.36 U
Anthracene	350	190000	190000	170000	0.095 J	0.92 U	0.074 J	0.019 J	0.4 U	0.36 U	0.043 J	0.37 U	0.41 U	0.36 U
Benzo (A) Anthracene	320	110	190000	2.1	0.25 J	0.92 U	0.25 J	0.053 J	0.4 U	0.36 U	0.21 J	0.37 U	0.41 U	0.36 U
Benzo (a) Pyrene	46	11	190000	0.21	1.3 U	0.92 U	0.25 J	0.043 J	0.4 U	0.36 U	0.21 J	0.37 U	0.41 U	0.36 U
Benzo (b) Fluoranthene	170	110	190000	2.1	1.3 U	0.92 U	0.33 J	0.074 J	0.4 U	0.36 U	0.21 J	0.37 U	0.41 U	0.36 U
Benzo (g,h,i) Perylene	180	170000	190000		1.3 U	0.92 U	0.11 J	0.021 J	0.4 U	0.36 U	0.15 J	0.37 U	0.41 U	0.36 U
Benzo (k) Fluoranthene	610	1100	190000	21	1.3 U	0.92 U	0.12 J	0.023 J	0.4 U	0.36 U	0.086 J	0.37 U	0.41 U	0.36 U
Bis(2-Chloroethoxy) Methane				1800	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.12 J	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Butylbenzylphthalate	10000	10000	10000	910	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Carbazole	83	4000	190000		1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Chrysene	230	11000	190000	210	0.29 J	0.92 U	0.28 J	0.062 J	0.4 U	0.36 U	0.24 J	0.37 U	0.41 U	0.36 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.015 J	0.37 U	0.41 U	0.36 U
Dibenzofuran					1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Diethylphthalate	500	10000	10000	490000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Dimethylphthalate					1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Di-n-Butylphthalate	4100	10000	10000	62000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Di-n-octylphthalate	10000	10000	10000		1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Fluoranthene	3200	110000	190000	22000	0.45 J	0.92 U	0.45 J	0.08 J	0.4 U	0.36 U	0.24 J	0.37 U	0.41 U	0.36 U
Fluorene	3800	110000	190000	22000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Hexachlorobenzene	0.96	50	190000	1.1	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Hexachlorobutadiene	1.2	560	10000	22	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Hexachlorocyclopentadiene	91	10000	10000	3700	6.1 U	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
Hexachloroethane	0.56	2800	190000	120	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	1.3 U	0.92 U	0.11 J	0.038 J	0.4 U	0.36 U	0.12 J	0.37 U	0.41 U	0.36 U
Isophorone	10	10000	10000	1800	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Naphthalene	25	56000	190000	20	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Nitrobenzene	5.1	1400	10000	22	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
N-Nitrosodiphenylamine	83	16000	190000	350	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Pentachlorophenol	5	660	190000	9	4.2 J	4.5 U	7 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U	1.8 U
Phenanthrene	10000	190000	190000		0.15 J	0.92 U	0.24 J	0.032 J	0.4 U	0.36 U	0.12 J	0.37 U	0.41 U	0.36 U
Phenol	400	190000	190000	180000	1.3 U	0.92 U	1.5 U	0.38 U	0.4 U	0.36 U	0.39 U	0.37 U	0.41 U	0.36 U
Pyrene	2200	84000	190000	17000	0.22 J	0.024 J	0.34 J	0.077 J	0.4 U	0.36 U	0.35 J	0.37 U	0.41 U	0.36 U
Toxicity Characteristic Leaching Procedure - Mercury														
Mercury	10	840	190000	24										
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6										

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-120 0 - 2 4/19/2007	WPL-SB-120 8 - 10 4/19/2007	WPL-SB-121 0 - 1 4/20/2007	WPL-SB-121 13 - 15 4/20/2007	WPL-SB-122 0 - 2 4/24/2007	WPL-SB-122 11 - 13 4/24/2007	WPL-SB-123 0 - 2 4/24/2007	WPL-SB-123 12 - 14 4/24/2007	WPL-SB-124 1 - 3 1/18/2008	WPL-SB-124 13 - 15 1/18/2008
Barium	8200	190000	190000	190000										
Cadmium	38	210	190000	800										
Chromium				1400										
Lead	450	1000	190000	800										
Selenium	26	14000	190000	5100										
Silver	84	14000	190000	5100										
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														
Percent Solids					26.20%	35.70%	91%	86.10%	82.80%	92.70%	85.20%	89.70%	81.20%	90.30%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,1-Dichloroethane	11	1000	1200	17	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,1-Dichloroethene	0.7	33	38	1100	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,2-Dichloroethane	0.5	63	73	2.2	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,2-Dichloropropane	0.5	160	180	4.7	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
1,4-Dioxane	2.4	210	240	160	3.3 U	2.4 U	1 U	1.1 U	1.2 U	0.91 U	1 U	1 U	1.1 U	0.96 U
2-Butanone	580	10000	10000	190000	0.066 U	0.049 U	0.021 U	0.022 U	0.023 U	0.018 U	0.02 U	0.021 U	0.022 U	0.019 U
2-Hexanone					0.066 U	0.049 U	0.021 U	0.022 U	0.023 U	0.018 U	0.02 U	0.021 U	0.022 U	0.019 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.066 U	0.049 U	0.021 U	0.022 U	0.023 U	0.018 U	0.02 U	0.021 U	0.022 U	0.019 U
Acetone	1000	10000	10000	610000	0.066 U	0.049 U	0.021 U	0.022 U	0.023 U	0.018 U	0.0071 J	0.021 U	0.011 J	0.019 U
Acrylonitrile	0.27	24	28	1.2	0.33 U	0.24 U	0.1 U	0.11 U	0.12 U	0.091 U	0.1 U	0.1 U	0.11 U	0.096 U
Benzene	0.5	210	240	5.6	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Bromochloromethane	9	10000	10000		0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Bromodichloromethane	10	45	51	1.4	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Bromoform	10	1500	1700	220	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Bromomethane	1	270	300	35	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Carbon Disulfide	410	10000	10000	3000	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Carbon Tetrachloride	0.5	110	120	1.3	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Chlorobenzene	10	10000	10000	1500	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Chlorodibromomethane	10	61	70	3.4	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Chloroethane	90	10000	10000	62000	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Chloroform	10	17	19	1.5	0.0039 J	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Chloromethane	0.3	920	1000	510	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.016 U	0.012 U	0.0019 J	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.007	0.016
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Ethylbenzene	70	10000	10000	29	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Methyl tert-butyl ether	2	3200	3700	190	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 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-120 0 - 2 4/19/2007	WPL-SB-120 8 - 10 4/19/2007	WPL-SB-121 0 - 1 4/20/2007	WPL-SB-121 13 - 15 4/20/2007	WPL-SB-122 0 - 2 4/24/2007	WPL-SB-122 11 - 13 4/24/2007	WPL-SB-123 0 - 2 4/24/2007	WPL-SB-123 12 - 14 4/24/2007	WPL-SB-124 1 - 3 1/18/2008	WPL-SB-124 13 - 15 1/18/2008
Methylene chloride	0.5	3500	4000	54	0.0029 J	0.0065 J	0.0077 B	0.0089 B	0.0037 J	0.00079 J	0.003 J	0.0033 J	0.0013 J	0.0017 J B
Styrene	24	10000	10000	38000	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Tetrachloroethene	0.5	1500	3300	2.7	0.016 U	0.034	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0021 J	0.0055 U	0.0048 U
Toluene	100	10000	10000	46000	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.016 U	0.012 U	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0048 U
Trichloroethene	0.5	970	1100	14	0.0053 J	0.015	0.0052 U	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0029 J	0.0055 U	0.0048 U
Vinyl Chloride	0.2	53	220	1.7	0.016 U	0.012 U	0.0061	0.0054 U	0.0059 U	0.0045 U	0.005 U	0.0052 U	0.0055 U	0.0012 J
Xylenes (Total)	1000	10000	10000	2600	0.049 U	0.037 U	0.016 U	0.016 U	0.018 U	0.014 U	0.015 U	0.016 U	0.017 U	0.014 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-125 1 - 3 1/18/2008	WPL-SB-125 12 - 14 1/18/2008	WPL-SB-126 1 - 3 1/18/2008	WPL-SB-126 12 - 14 1/18/2008	WPL-SB-127 1 - 3 1/18/2008	WPL-SB-127 13 - 15 1/18/2008	WPL-TP-016 5 - 5.5 2/27/2004	WPL-TP-016 5 2/27/2004	WPL-TP-028 3 3/2/2004	WPL-TP-037 5 2/27/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.24 B	0.41 B	0.14 B	0.54 U	0.64 U	0.55 U				
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.58 U	0.57 U	0.59 U	0.54 U	0.64 U	0.55 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.51	0.44 U	0.26 B	0.18 B	0.81	0.45 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.032 B	0.014 B	0.028 B	0.03 B	0.015 B	0.017 B	0.53	0.06	0.04	0.94
Metal														
Antimony	27	1100	190000	410	1.2 U	1.1 U	1.2 U	0.11 B J	1.3 U	1.1 U	4.8 B	0.43 U	16.5	47.5
Arsenic	150	53	190000	1.6	4.3	4.4	4.3	4.1	6.1	4	22.1	4	14.8	12.8
Barium	8200	190000	190000	190000	83.6	42.4	66.1	32.3	61	45.5				
Beryllium	320	5600	190000	2000	0.68	0.63	0.55	0.48	0.71	0.62	1.3	0.5	0.42	0.99
Cadmium	38	210	190000	800	0.072 B	0.14 B	0.093 B	0.15 B	0.21 B	0.18 B	137	0.83	10.6	4.3
Chromium				1400	12.8	17.7	10.7	18.1	28.8	17.9	1790	29.7	253	6260
Copper	36000	100000	190000	41000	6.9	10.4	4.7	8.9	16.9	14	2230	13.4	6360	3500
Lead	450	1000	190000	800	9.5	11.2	8.7	9.8	15.5	12.5	5870	10.3	914	2760
Nickel	650	56000	190000	20000	6.3	10.1	4.1 B	9	14.3	13.5	486	7	281	587
Selenium	26	14000	190000	5100	0.44 B	0.57 U	0.59 U	0.54 U	0.58 B	0.55 U	2.3 U	0.43 U	0.55 U	1.7 U
Silver	84	14000	190000	5100	0.58 U	0.57 U	0.59 U	0.54 U	0.64 U	0.049 B	10.8	0.077 U	6.7	17.1
Thallium	14	200	190000	66	1.2 U	1.1 U	1.2 U	1.1 U	1.3 U	1.1 U	2.6 U	0.48 U	0.62 U	1.9 U
Vanadium	72000	20000	190000	7200	19.9	17.3	18	13.3	32.5	12.2				
Zinc	12000	190000	190000	310000	19.3	28.8	11.6	29.7	59.5	39.2	2720	45.7	8840	1340
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.019 U	0.019 U	0.02 U	0.018 U	0.021 U	0.018 U	0.81 U	0.15 U	0.47 U	0.48 U
Arochlor-1221	2.5	160	10000	0.62	0.019 U	0.019 U	0.02 U	0.018 U	0.021 U	0.018 U	0.81 U	0.15 U	0.47 U	0.48 U
Arochlor-1232	2	160	10000	0.62	0.019 U	0.019 U	0.02 U	0.018 U	0.021 U	0.018 U	0.81 U	0.15 U	0.47 U	0.48 U
Arochlor-1242	62	160	10000	0.74	0.019 U	0.019 U	0.02 U	0.018 U	0.021 U	0.018 U	0.81 U	0.15 U	0.47 U	0.48 U
Arochlor-1248	67	44	10000	0.74	0.019 U	0.019 U	0.02 U	0.018 U	0.021 U	0.018 U	0.81 U	0.15 U	0.47 U	0.48 U
Arochlor-1254	280	44	10000	0.74	0.019 U	0.019 U	0.02 U	0.018 U	0.08	0.018 U	9.4	1.2	4	4.8
Arochlor-1260	1900	130	190000	0.74	0.019 U	0.019 U	0.02 U	0.018 U	0.021 U	0.018 U	16	2.6	0.47 U	0.48 U
PCBs (Total)				0.74							25.4	3.8	4	4.8
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	1.2	0.18 U	0.93 U	2.4 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	0.25 J	9.3 U	24 U
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	0.82 J	9.3 U	24 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	40 U	7.3 U	37 U	96 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	2 U	0.37 U	1.9 U	4.8 U
2,6-Dinitrotoluene	10	2800	190000	620	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	2 U	0.37 U	1.9 U	4.8 U
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2-Methylnaphthalene	8000	10000	10000	4100	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	6.2 J	4.2	5.6 J	6 J
2-Methylphenol	510	10000	10000	31000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
2-Nitroaniline	0.58	160	190000	1800	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	20 U	3.7 U	19 U	48 U
2-Nitrophenol	82	22000	190000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	20 U	3.7 U	19 U	48 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-125 1 - 3 1/18/2008	WPL-SB-125 12 - 14 1/18/2008	WPL-SB-126 1 - 3 1/18/2008	WPL-SB-126 12 - 14 1/18/2008	WPL-SB-127 1 - 3 1/18/2008	WPL-SB-127 13 - 15 1/18/2008	WPL-TP-016 5 - 5.5 2/27/2004	WPL-TP-016 5 2/27/2004	WPL-TP-028 3 3/2/2004	WPL-TP-037 5 2/27/2004
3/4-Methylphenol				5100	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U				
3-Nitroaniline	0.58	160	190000		1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	20 U	3.7 U	19 U	48 U
4,6-Dinitro-2-Methylphenol				62	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	40 U	7.3 U	37 U	96 U
4-Bromophenyl phenyl ether					0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
4-Chlorodiphenyl Ether					0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
4-METHYLPHENOL	51	14000	190000	3100							10 U	1.8 U	9.3 U	24 U
4-Nitroaniline	0.58	160	190000	86	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	20 U	3.7 U	19 U	48 U
4-Nitrophenol	6	22000	190000		1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	40 U	7.3 U	37 U	96 U
Acenaphthene	4700	170000	190000	33000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	8.6 J	0.23 J	24	3.3 J
Acenaphthylene	6900	170000	190000	33000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	0.66 J	1.8 U	1.8 J	24 U
Anthracene	350	190000	190000	170000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	11	1.8 U	35	4.9 J
Benzo (A) Anthracene	320	110	190000	2.1	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	18	0.18 U	60	9.8
Benzo (a) Pyrene	46	11	190000	0.21	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	11	0.18 U	50	4.4
Benzo (b) Fluoranthene	170	110	190000	2.1	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	11	0.18 U	48	9.3
Benzo (g,h,i) Perylene	180	170000	190000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	6.3 J	1.8 U	28	4.3 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	16	0.18 U	42	13
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	1 U	0.18 U	0.93 U	2.4 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	18	6.5	16	24 U
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Carbazole	83	4000	190000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	4.8 J	1.8 U	8.1 J	24 U
Chrysene	230	11000	190000	210	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	21	0.23 J	61	15 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	2.4	0.18 U	14	2.4 U
Dibenzofuran					0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	5.2 J	0.26 J	10	3.7 J
Diethylphthalate	500	10000	10000	490000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Dimethylphthalate					0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	30	1.8 U	9.3 U	24 U
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	3.4	9.3 U	24 U
Fluoranthene	3200	110000	190000	22000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	57	0.48 J	140	47
Fluorene	3800	110000	190000	22000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	11	0.34 J	24	8.4 J
Hexachlorobenzene	0.96	50	190000	1.1	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	1 U	0.18 U	0.93 U	2.4 U
Hexachlorobutadiene	1.2	560	10000	22	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	2 U	0.37 U	1.9 U	4.8 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	10 U	1.8 U	9.3 U	24 U
Hexachloroethane	0.56	2800	190000	120	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	1 U	0.18 U	0.93 U	2.4 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	6.2	0.18 U	25	4.3
Isophorone	10	10000	10000	1800	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Naphthalene	25	56000	190000	20	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	7.9 J	1.8 U	7.6 J	11 J
Nitrobenzene	5.1	1400	10000	22	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	1 U	0.18 U	0.93 U	2.4 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	1 U	0.18 U	0.93 U	2.4 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Pentachlorophenol	5	660	190000	9	1.9 U	1.8 U	1.9 U	1.7 U	2 U	1.8 U	40 U	7.3 U	37 U	96 U
Phenanthrene	10000	190000	190000		0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	68	1 J	120	58
Phenol	400	190000	190000	180000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	10 U	1.8 U	9.3 U	24 U
Pyrene	2200	84000	190000	17000	0.39 U	0.37 U	0.38 U	0.36 U	0.42 U	0.36 U	48	0.33 J	110	34
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
Toxicity Characteristic Leaching Procedure - Metal														
Arsenic	150	53	190000	1.6							0.005 mg/l B		0.0036 mg/l U	0.004 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-125 1 - 3 1/18/2008	WPL-SB-125 12 - 14 1/18/2008	WPL-SB-126 1 - 3 1/18/2008	WPL-SB-126 12 - 14 1/18/2008	WPL-SB-127 1 - 3 1/18/2008	WPL-SB-127 13 - 15 1/18/2008	WPL-TP-016 5 - 5.5 2/27/2004	WPL-TP-016 5 2/27/2004	WPL-TP-028 3 3/2/2004	WPL-TP-037 5 2/27/2004
Barium	8200	190000	190000	190000							0.3 mg/l		0.3 mg/l	0.19 mg/l B
Cadmium	38	210	190000	800							0.0004 mg/l U		0.0004 mg/l U	0.0004 mg/l U
Chromium				1400							0.002 mg/l B		0.008 mg/l B	0.0011 mg/l U
Lead	450	1000	190000	800							0.003 mg/l B		0.05 mg/l	0.0021 mg/l U
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
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100							0.002 mg/l U	0.004 mg/l U		
1,2-Dichloroethane	0.5	63	73	2.2							0.002 mg/l U	0.004 mg/l U		
2-Butanone	580	10000	10000	190000							0.005 mg/l U	0.01 mg/l U		
Benzene	0.5	210	240	5.6							0.0014 mg/l	0.002 mg/l U		
Carbon Tetrachloride	0.5	110	120	1.3							0.002 mg/l U	0.004 mg/l U		
Chlorobenzene	10	10000	10000	1500							0.0058 mg/l	0.3 mg/l		
Chloroform	10	17	19	1.5							0.005 mg/l U	0.01 mg/l U		
Tetrachloroethene	0.5	1500	3300	2.7							0.001 mg/l U	0.002 mg/l U		
Trichloroethene	0.5	970	1100	14							0.001 mg/l U	0.002 mg/l U		
Vinyl Chloride	0.2	53	220	1.7							0.005 mg/l U	0.01 mg/l U		
Total Solids														
Percent Solids					85.70%	88.40%	85.10%	92.90%	78.70%	90.70%				
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.15 U	0.19 U	0.0016 U	0.2 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.46 U	0.57 U	0.0048 U	0.6 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.31 U	0.38 U	0.0032 U	0.4 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.31 U	0.38 U	0.0032 U	0.4 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.15 U	0.19 U	0.0016 U	0.2 U
1,4-Dioxane	2.4	210	240	160	1 U	0.94 U	1 U	0.99 U	1.2 U	0.97 U	150 U	190 U	1.6 U	200 U
2-Butanone	580	10000	10000	190000	0.021 U	0.019 U	0.021 U	0.02 U	0.024 U	0.019 U	0.77 U	0.95 U	0.046	1 U
2-Hexanone					0.021 U	0.019 U	0.021 U	0.02 U	0.024 U	0.019 U	0.77 U	0.95 U	0.008 U	1 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.021 U	0.019 U	0.021 U	0.02 U	0.024 U	0.019 U	0.77 U	0.95 U	0.008 U	1 U
Acetone	1000	10000	10000	610000	0.0087 J	0.082	0.021 U	0.02 U	0.024 U	0.019 U	0.77 U	0.95 U	0.2	1 U
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.094 U	0.1 U	0.099 U	0.12 U	0.097 U	7.7 U	9.5 U	0.08 U	10 U
Benzene	0.5	210	240	5.6	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.22	0.19 U	0.016	0.2 U
Bromochloromethane	9	10000	10000		0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.15 U	0.19 U	0.0016 U	0.2 U
Bromoform	10	1500	1700	220	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.62 U	0.76 U	0.0064 U	0.8 U
Bromomethane	1	270	300	35	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.0053 J	1 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.31 U	0.38 U	0.0032 U	0.4 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	1.3	13	0.008 U	1 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Chloroform	10	17	19	1.5	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 U	0.002 J	0.0052 U	0.005 U	0.006 U	0.0049 U	0.43 J	0.95 U	0.0056 J	1 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Ethylbenzene	70	10000	10000	29	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	7.6	0.76 U	0.0092	0.8 U
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	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)	WPL-SB-125 1 - 3 1/18/2008	WPL-SB-125 12 - 14 1/18/2008	WPL-SB-126 1 - 3 1/18/2008	WPL-SB-126 12 - 14 1/18/2008	WPL-SB-127 1 - 3 1/18/2008	WPL-SB-127 13 - 15 1/18/2008	WPL-TP-016 5 - 5.5 2/27/2004	WPL-TP-016 5 2/27/2004	WPL-TP-028 3 3/2/2004	WPL-TP-037 5 2/27/2004
Methylene chloride	0.5	3500	4000	54	0.0012 J	0.003 J	0.0018 J	0.0031 J	0.0025 J	0.0023 J	0.46 U	0.57 U	0.0048 U	0.6 U
Styrene	24	10000	10000	38000	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.15 U	0.19 U	0.0016 U	0.2 U
Toluene	100	10000	10000	46000	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.63 J	0.95 U	0.018	1 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.0021 J	1 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.77 U	0.95 U	0.008 U	1 U
Trichloroethene	0.5	970	1100	14	0.0051 U	0.0011 J	0.0052 U	0.005 U	0.006 U	0.0049 U	0.15 U	0.19 U	0.0033	0.2 U
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.0047 U	0.0052 U	0.005 U	0.006 U	0.0049 U	0.21 J	0.95 U	0.069	1 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.014 U	0.016 U	0.015 U	0.018 U	0.015 U	29	0.95 U	0.017	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)	WPL-TP-045 8 2/27/2004	WPL-TP-050 5 2/27/2004
Cyanide, Free						
Cyanide, Free	200	56000	190000	20000		
Cyanide, Total						
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U
Hexavalent Chromium						
Hexavalent Chromium	190	420	190000	200	2 U	2 U
Mercury						
Mercury	10	840	190000	24	0.023 U	0.72
Metal						
Antimony	27	1100	190000	410	0.54 U	9.5
Arsenic	150	53	190000	1.6	4	16
Barium	8200	190000	190000	190000		
Beryllium	320	5600	190000	2000	0.64	0.94
Cadmium	38	210	190000	800	0.055 U	62.6
Chromium				1400	23.2	2940
Copper	36000	100000	190000	41000	17.7	871
Lead	450	1000	190000	800	13.6	1700
Nickel	650	56000	190000	20000	13.4	220
Selenium	26	14000	190000	5100	0.54 U	1.5 U
Silver	84	14000	190000	5100	0.097 U	15.3
Thallium	14	200	190000	66	0.61 U	1.7 U
Vanadium	72000	20000	190000	7200		
Zinc	12000	190000	190000	310000	51.2	11100
Polychlorinated Biphenols						
Arochlor-1016	200	200	10000	21	0.093 U	0.42 U
Arochlor-1221	2.5	160	10000	0.62	0.093 U	0.42 U
Arochlor-1232	2	160	10000	0.62	0.093 U	0.42 U
Arochlor-1242	62	160	10000	0.74	0.093 U	0.42 U
Arochlor-1248	67	44	10000	0.74	0.093 U	0.42 U
Arochlor-1254	280	44	10000	0.74	0.093 U	6.2
Arochlor-1260	1900	130	190000	0.74	0.093 U	0.42 U
PCBs (Total)				0.74	0.093 U	6.2
Semi Volatile Organic Compound						
1,2,4-Trichlorobenzene	27	10000	10000	400	0.046 U	0.84 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.46 U	8.4 U
1,3-Dichlorobenzene	61	10000	10000		0.46 U	8.4 U
1,4-Dichlorobenzene	10	3300	190000	13	0.46 U	8.4 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.46 U	8.4 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.46 U	8.4 U
2,4-Dichlorophenol	2	8400	190000	1800	0.46 U	8.4 U
2,4-Dimethylphenol	200	10000	10000	12000	0.46 U	8.4 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.8 U	34 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.092 U	1.7 U
2,6-Dinitrotoluene	10	2800	190000	620	0.092 U	1.7 U
2-Chloronaphthalene	18000	190000	190000	82000	0.46 U	8.4 U
2-Chlorophenol	4.4	920	1100	5100	0.46 U	8.4 U
2-Methylnaphthalene	8000	10000	10000	4100	0.46 U	7.1 J
2-Methylphenol	510	10000	10000	31000	0.46 U	8.4 U
2-Nitroaniline	0.58	160	190000	1800	0.92 U	17 U
2-Nitrophenol	82	22000	190000		0.46 U	8.4 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.92 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-TP-045 8 2/27/2004	WPL-TP-050 5 2/27/2004
3/4-Methylphenol				5100		
3-Nitroaniline	0.58	160	190000		0.92 U	17 U
4,6-Dinitro-2-Methylphenol				62	1.8 U	34 U
4-Bromophenyl phenyl ether					0.46 U	8.4 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.46 U	8.4 U
4-Chloroaniline	52	11000	190000	8.6	0.46 U	8.4 U
4-Chlorodiphenyl Ether					0.46 U	8.4 U
4-METHYLPHENOL	51	14000	190000	3100	0.46 U	8.4 U
4-Nitroaniline	0.58	160	190000	86	0.92 U	17 U
4-Nitrophenol	6	22000	190000		1.8 U	34 U
Acenaphthene	4700	170000	190000	33000	0.029 J	6.7 J
Acenaphthylene	6900	170000	190000	33000	0.46 U	0.67 J
Anthracene	350	190000	190000	170000	0.46 U	10
Benzo (A) Anthracene	320	110	190000	2.1	0.046 U	9.7
Benzo (a) Pyrene	46	11	190000	0.21	0.046 U	6.6
Benzo (b) Fluoranthene	170	110	190000	2.1	0.046 U	6.6
Benzo (g,h,i) Perylene	180	170000	190000		0.46 U	3.8 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.046 U	8.9
Bis(2-Chloroethoxy) Methane				1800	0.46 U	8.4 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.046 U	0.84 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.46 U	8.4 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.46 U	110
Butylbenzylphthalate	10000	10000	10000	910	0.46 U	8.4 U
Carbazole	83	4000	190000		0.46 U	8 J
Chrysene	230	11000	190000	210	0.46 U	11
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.046 U	1.4
Dibenzofuran					0.46 U	6.5 J
Diethylphthalate	500	10000	10000	490000	0.46 U	8.4 U
Dimethylphthalate					0.46 U	8.4 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.46 U	2.1 J
Di-n-octylphthalate	10000	10000	10000		0.46 U	8.4 U
Fluoranthene	3200	110000	190000	22000	0.036 J	30
Fluorene	3800	110000	190000	22000	0.023 J	13
Hexachlorobenzene	0.96	50	190000	1.1	0.046 U	0.84 U
Hexachlorobutadiene	1.2	560	10000	22	0.092 U	1.7 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.46 U	8.4 U
Hexachloroethane	0.56	2800	190000	120	0.046 U	0.84 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.046 U	3.6
Isophorone	10	10000	10000	1800	0.46 U	8.4 U
Naphthalene	25	56000	190000	20	0.047 J	14
Nitrobenzene	5.1	1400	10000	22	0.046 U	0.84 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.046 U	0.84 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.46 U	8.4 U
Pentachlorophenol	5	660	190000	9	1.8 U	34 U
Phenanthrene	10000	190000	190000		0.029 J	50
Phenol	400	190000	190000	180000	0.46 U	8.4 U
Pyrene	2200	84000	190000	17000	0.025 J	26
Toxicity Characteristic Leaching Procedure - Mercury						
Mercury	10	840	190000	24		0.0001 mg/l U
Toxicity Characteristic Leaching Procedure - Metal						
Arsenic	150	53	190000	1.6		0.0036 mg/l 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-TP-045 8 2/27/2004	WPL-TP-050 5 2/27/2004
Barium	8200	190000	190000	190000		0.04 mg/l B
Cadmium	38	210	190000	800		0.0004 mg/l U
Chromium				1400		0.003 mg/l B
Lead	450	1000	190000	800		0.0021 mg/l U
Selenium	26	14000	190000	5100		0.0045 mg/l U
Silver	84	14000	190000	5100		0.0011 mg/l U
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		0.0015 mg/l
Carbon Tetrachloride	0.5	110	120	1.3		0.002 mg/l U
Chlorobenzene	10	10000	10000	1500		0.09 mg/l
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		0.0016 mg/l
Vinyl Chloride	0.2	53	220	1.7		0.005 mg/l U
Total Solids						
Percent Solids						
Volatile Organic Compound						
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.006 U	0.78 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.006 U	0.78 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0012 U	0.16 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0036 U	0.47 U
1,1-Dichloroethane	11	1000	1200	17	0.006 U	0.78 U
1,1-Dichloroethene	0.7	33	38	1100	0.0024 U	0.31 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.006 U	0.78 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0024 U	0.31 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0012 U	0.16 U
1,4-Dioxane	2.4	210	240	160	1.2 U	160 U
2-Butanone	580	10000	10000	190000	0.006 U	0.78 U
2-Hexanone					0.006 U	0.78 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.006 U	0.78 U
Acetone	1000	10000	10000	610000	0.037	0.78 U
Acrylonitrile	0.27	24	28	1.2	0.06 U	7.8 U
Benzene	0.5	210	240	5.6	0.0012 U	0.21
Bromochloromethane	9	10000	10000		0.006 U	0.78 U
Bromodichloromethane	10	45	51	1.4	0.0012 U	0.16 U
Bromoform	10	1500	1700	220	0.0048 U	0.63 U
Bromomethane	1	270	300	35	0.006 U	0.78 U
Carbon Disulfide	410	10000	10000	3000	0.006 U	0.78 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0024 U	0.31 U
Chlorobenzene	10	10000	10000	1500	0.006 U	9
Chlorodibromomethane	10	61	70	3.4	0.006 U	0.78 U
Chloroethane	90	10000	10000	62000	0.006 U	0.78 U
Chloroform	10	17	19	1.5	0.006 U	0.78 U
Chloromethane	0.3	920	1000	510	0.006 U	0.78 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0009 J	0.23 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.006 U	0.78 U
Ethylbenzene	70	10000	10000	29	0.0048 U	5.3
Methyl tert-butyl ether	2	3200	3700	190	0.006 U	0.78 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-TP-045 8 2/27/2004	WPL-TP-050 5 2/27/2004
Methylene chloride	0.5	3500	4000	54	0.0036 U	0.47 U
Styrene	24	10000	10000	38000	0.006 U	0.78 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0012 U	0.16 U
Toluene	100	10000	10000	46000	0.006 U	0.41 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.006 U	0.78 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.006 U	0.78 U
Trichloroethene	0.5	970	1100	14	0.0012 U	0.76
Vinyl Chloride	0.2	53	220	1.7	0.006 U	0.78 U
Xylenes (Total)	1000	10000	10000	2600	0.0019 J	14

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.