Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-001 0 - 2 2/11/2004	BPA-SB-001 5 - 7 2/11/2004	BPA-SB-002 0 - 2 2/11/2004	BPA-SB-002 4 - 6 2/11/2004	BPA-SB-002 10 - 12 2/11/2004	*BPA-SB-003 0 - 2 2/12/2004	BPA-SB-003 4 - 6 2/12/2004	*BPA-SB-004 0 - 2 2/5/2004	BPA-SB-004 2 - 4 2/5/2004	*BPA-SB-005 0 - 2 2/11/2004	BPA-SB-005 2 - 4 2/11/2004
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.04 B	0.021 U	0.05	0.03 B	0.021 U	0.06	0.021 U	0.02 B	0.02 B	0.03 B	0.04
Metal															
Antimony	27	1100	190000	410	0.5 U	0.49 U	0.47 U	0.5 U	0.48 U	0.71 U	0.74 U	0.45 U	0.48 U	0.45 U	0.48 U
Arsenic	150	53	190000	1.6	6.8	4.5	4.8	6	4.2	6	6.8	4.1	18.6	4.9	3.5
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.75	0.45	0.62	0.62	0.42	0.63	0.61	0.54	0.93	0.58	0.59
Cadmium	38	210	190000	800	0.08 B	0.05 U	0.07 B	0.051 U	0.05 U	0.63	0.051 U	1.5	0.14 B	1.4	0.049 U
Chromium				1400	13	17.7	16.7	19.9	13	25.9	25.4	16.7	20.6	23	9
Copper	36000	100000	190000	41000	14.1	19	48.1	17	15.5	24.3	23.4	21	11.4	42.5	4.3
Lead	450	1000	190000	800	20.7	10.2	32.8	11.8	9.6	55.3	13.2	37.5	13.9	48.1	10.4
Nickel	650	56000	190000	20000	9.8	12.7	8.2	12.5	11.8	8.5	15.1	8.5	8.3	11.3	4.6 B
Selenium	26	14000	190000	5100	0.5 U	0.49 U	0.47 U	0.5 U	0.48 U	0.52 U	0.54 U	0.45 U	0.48 U	0.45 U	0.48 U
Silver	84	14000	190000	5100	0.09 U	0.087 U	0.084 U	0.089 U	0.087 U	0.17 U	0.18 U	0.081 U	0.087 U	0.24 B	0.087 U
Thallium	14	200	190000	66	0.57 U	0.55 U	0.53 U	0.56 U	0.55 U	0.58 U	1.2 U	0.51 U	0.55 U	0.5 U	0.54 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	75.8	37.8	69.7	41.3	35.7	74.2	50.7	68.6	13.9	142	16.1
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.086 U	0.084 U	0.08 U	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.076 U	0.083 U
Arochlor-1221	2.5	160	10000	0.62	0.086 U	0.084 U	0.08 U	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.076 U	0.083 U
Arochlor-1232	2	160	10000	0.62	0.086 U	0.084 U	0.08 U	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.076 U	0.083 U
Arochlor-1242	62	160	10000	0.74	0.086 U	0.084 U	0.08 U	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.076 U	0.083 U
Arochlor-1248	67	44	10000	0.74	0.086 U	0.084 U	0.08 U	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.076 U	0.083 U
Arochlor-1254	280	44	10000	0.74	0.086 U	0.084 U	0.08 U	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.011 P*	0.083 U
Arochlor-1260	1900	130	190000	0.74	0.086 U	0.084 U	0.033 J	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.04 J	0.083 U
PCBs (Total)				0.74	0.086 U	0.084 U	0.033 J	0.085 U	0.083 U	0.082 U	0.086 U	0.078 U	0.083 U	0.051	0.083 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.043 U	0.042 U	0.04 U	0.042 U	0.041 U	0.041 U	0.042 U	0.039 U	0.041 U	0.038 U	0.041 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
1,3-Dichlorobenzene	61	10000	10000		0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
1,4-Dichlorobenzene	10	3300	190000	13	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2,4-Dichlorophenol	2	8400	190000	1800	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2,4-Dimethylphenol	200	10000	10000	12000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U	1.5 U	1.6 U	1.5 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.086 U	0.083 U	0.08 U	0.085 U	0.083 U	0.082 U	0.085 U	0.077 U	0.083 U	0.076 U	0.082 U
2,6-Dinitrotoluene	10	2800	190000	620	0.086 U	0.083 U	0.08 U	0.085 U	0.083 U	0.082 U	0.085 U	0.077 U	0.083 U	0.076 U	0.082 U
2-Chloronaphthalene	18000	190000	190000	82000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2-Chlorophenol	4.4	920	1100	5100	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2-Methylnaphthalene	8000	10000	10000	4100	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.026 J	0.41 U	0.16 J	0.41 U
2-Methylphenol	510	10000	10000	31000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
2-Nitroaniline	0.58	160	190000	1800	0.86 U	0.83 U	0.8 U	0.85 U	0.83 U	0.82 U	0.85 U	0.77 U	0.83 U	0.76 U	0.82 U
2-Nitrophenol	82	22000	190000		0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.86 U	0.83 U	0.8 U	0.85 U	0.83 U	0.82 U	0.85 U	0.77 U	0.83 U	0.76 U	0.82 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 - Burn Pile Area (BPA)
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)	BPA-SB-001 0 - 2 2/11/2004	BPA-SB-001 5 - 7 2/11/2004	BPA-SB-002 0 - 2 2/11/2004	BPA-SB-002 4 - 6 2/11/2004	BPA-SB-002 10 - 12 2/11/2004	*BPA-SB-003 0 - 2 2/12/2004	BPA-SB-003 4 - 6 2/12/2004	*BPA-SB-004 0 - 2 2/5/2004	BPA-SB-004 2 - 4 2/5/2004	*BPA-SB-005 0 - 2 2/11/2004	BPA-SB-005 2 - 4 2/11/2004
3/4-Methylphenol				5100											
3-Nitroaniline	0.58	160	190000		0.86 U	0.83 U	0.8 U	0.85 U	0.83 U	0.82 U	0.85 U	0.77 U	0.83 U	0.76 U	0.82 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U	1.5 U	1.6 U	1.5 U	1.6 U
4-Bromophenyl phenyl ether					0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
4-Chloroaniline	52	11000	190000	8.6	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
4-Chlorodiphenyl Ether					0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
4-METHYLPHENOL	51	14000	190000	3100	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
4-Nitroaniline	0.58	160	190000	86	0.86 U	0.83 U	0.8 U	0.85 U	0.83 U	0.82 U	0.85 U	0.77 U	0.83 U	0.76 U	0.82 U
4-Nitrophenol	6	22000	190000		1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U	1.5 U	1.6 U	1.5 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.43 U	0.42 U	0.031 J	0.42 U	0.41 U	0.11 J	0.42 U	0.0095 J	0.41 U	0.012 J	0.41 U
Acenaphthylene	6900	170000	190000	33000	0.048 J	0.42 U	0.18 J	0.42 U	0.41 U	0.41 U	0.42 U	0.019 J	0.41 U	0.077 J	0.41 U
Anthracene	350	190000	190000	170000	0.02 J	0.42 U	0.22 J	0.42 U	0.41 U	0.21 J	0.42 U	0.038 J	0.41 U	0.083 J	0.41 U
Benzo (A) Anthracene	320	110	190000	2.1	0.056	0.042 U	1.9	0.011 J	0.041 U	0.6	0.042 U	0.18	0.041 U	0.3	0.041 U
Benzo (a) Pyrene	46	11	190000	0.21	0.11	0.042 U	2.9	0.0096 J	0.041 U	0.68	0.042 U	0.2	0.041 U	0.31	0.041 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.14	0.042 U	2.8	0.0095 J	0.041 U	0.62	0.042 U	0.16	0.041 U	0.3	0.041 U
Benzo (g,h,i) Perylene	180	170000	190000		0.13 J	0.42 U	0.68	0.42 U	0.41 U	0.44	0.42 U	0.16 J	0.41 U	0.18 J	0.41 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.14	0.042 U	3.6	0.012 J	0.041 U	0.69	0.042 U	0.19	0.041 U	0.38	0.041 U
Bis(2-Chloroethoxy) Methane				1800	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.043 U	0.042 U	0.04 U	0.042 U	0.041 U	0.041 U	0.042 U	0.039 U	0.041 U	0.038 U	0.041 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.55	0.12 J	0.22 J	0.31 J	0.13 J	0.41 U	0.42 U	0.097 J	0.41 U	0.15 J	0.1 J
Butylbenzylphthalate	10000	10000	10000	910	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Carbazole	83	4000	190000		0.43 U	0.42 U	0.04 J	0.42 U	0.41 U	0.088 J	0.42 U	0.025 J	0.41 U	0.024 J	0.41 U
Chrysene	230	11000	190000	210	0.07 J	0.42 U	1.9	0.019 J	0.41 U	0.74	0.42 U	0.22 J	0.41 U	0.37 J	0.41 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.043 U	0.042 U	0.35	0.042 U	0.041 U	0.21	0.042 U	0.039 U	0.041 U	0.063	0.041 U
Dibenzofuran					0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.036 J	0.42 U	0.39 U	0.41 U	0.045 J	0.41 U
Diethylphthalate	500	10000	10000	490000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Dimethylphthalate					0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Di-n-octylphthalate	10000	10000	10000		0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Fluoranthene	3200	110000	190000	22000	0.067 J	0.42 U	2.1	0.016 J	0.41 U	1.4	0.42 U	0.33 J	0.41 U	0.44	0.41 U
Fluorene	3800	110000	190000	22000	0.43 U	0.42 U	0.037 J	0.42 U	0.41 U	0.083 J	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Hexachlorobenzene	0.96	50	190000	1.1	0.043 U	0.042 U	0.04 U	0.042 U	0.041 U	0.041 U	0.042 U	0.039 U	0.041 U	0.038 U	0.041 U
Hexachlorobutadiene	1.2	560	10000	22	0.086 U	0.083 U	0.08 U	0.085 U	0.083 U	0.082 U	0.085 U	0.077 U	0.083 U	0.076 U	0.082 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Hexachloroethane	0.56	2800	190000	120	0.043 U	0.042 U	0.04 U	0.042 U	0.041 U	0.041 U	0.042 U	0.039 U	0.041 U	0.038 U	0.041 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.11	0.042 U	0.78	0.042 U	0.041 U	0.39	0.042 U	0.12	0.041 U	0.16	0.041 U
Isophorone	10	10000	10000	1800	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Naphthalene	25	56000	190000	20	0.43 U	0.42 U	0.04 J	0.42 U	0.41 U	0.41 U	0.42 U	0.019 J	0.41 U	0.13 J	0.41 U
Nitrobenzene	5.1	1400	10000	22	0.043 U	0.042 U	0.04 U	0.042 U	0.041 U	0.041 U	0.042 U	0.039 U	0.041 U	0.038 U	0.041 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.043 U	0.042 U	0.04 U	0.042 U	0.041 U	0.041 U	0.042 U	0.039 U	0.041 U	0.038 U	0.041 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U	1.5 U	1.6 U	1.5 U	1.6 U
Phenanthrene	10000	190000	190000		0.026 J	0.42 U	0.41	0.023 J	0.41 U	0.88	0.42 U	0.17 J	0.41 U	0.28 J	0.41 U
Phenol	400	190000	190000	180000	0.43 U	0.42 U	0.4 U	0.42 U	0.41 U	0.41 U	0.42 U	0.39 U	0.41 U	0.38 U	0.41 U
Pyrene	2200	84000	190000	17000	0.082 J	0.42 U	2.5	0.016 J	0.41 U	1.1	0.42 U	0.28 J	0.41 U	0.39	0.012 J
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound															
1,1-Dichloroethene	0.7	33	38	1100	0.004 mg/l U	0.002 mg/l U	0.002 mg/l U								
1,2-Dichloroethane	0.5	63	73	2.2	0.004 mg/l U	0.002 mg/l U	0.002 mg/l U								
2-Butanone	580	10000	10000	190000	0.01 mg/l U	0.005 mg/l U	0.005 mg/l U								

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Benzene	0.5	210	240	5.6	0.002 mg/l U	0.001 mg/l U	0.001 mg/l U								
Carbon Tetrachloride	0.5	110	120	1.3	0.004 mg/l U	0.002 mg/l U	0.002 mg/l U								
Chlorobenzene	10	10000	10000	1500	0.01 mg/l U	0.005 mg/l U	0.005 mg/l U								
Chloroform	10	17	19	1.5	0.01 mg/l U	0.005 mg/l U	0.005 mg/l U								
Tetrachloroethene	0.5	1500	3300	2.7	0.18 mg/l	0.018 mg/l	0.0034 mg/l								
Trichloroethene	0.5	970	1100	14	0.062 mg/l	0.0017 mg/l	0.0022 mg/l								
Vinyl Chloride	0.2	53	220	1.7	0.01 mg/l U	0.005 mg/l U	0.005 mg/l U								
Total Solids															
Percent Solids															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
1,1,1-Trichloroethane	20	10000	10000	39000	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	1.1 U	0.23 U	0.1 U	0.0011 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.0011 U	0.0009 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	3.4 U	0.69 U	0.31 U	0.0033 U	0.0035 U	0.0031 U	0.0036 U	0.003 U	0.0033 U	0.0027 U	0.0031 U
1,1-Dichloroethane	11	1000	1200	17	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
1,1-Dichloroethene	0.7	33	38	1100	2.3 U	0.46 U	0.2 U	0.0022 U	0.0023 U	0.002 U	0.0024 U	0.002 U	0.0022 U	0.0018 U	0.0021 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
1,2-Dichloroethane	0.5	63	73	2.2	2.3 U	0.46 U	0.2 U	0.0022 U	0.0023 U	0.002 U	0.0024 U	0.002 U	0.0022 U	0.0018 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	1.1 U	0.23 U	0.1 U	0.0011 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.0011 U	0.0009 U	0.001 U
1,4-Dioxane	2.4	210	240	160	1100 U	230 U	100 U	1.1 U	1.2 U	1 U	1.2 U	1 U	1.1 U	0.91 U	1 U
2-Butanone	580	10000	10000	190000	5.7 U	1.2 U	0.51 U	0.0063	0.0087	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
4-Methyl-2-Pentanone	41	4300	4900	52000	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Acetone	1000	10000	10000	610000	5.7 U	1.2 U	0.51 U	0.068	0.071	0.057	0.075	0.053	0.042	0.046	0.062
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	57 U	12 U	5.1 U	0.055 U	0.058 U	0.051 U	0.059 U	0.05 U	0.055 U	0.045 U	0.052 U
Benzene	0.5	210	240	5.6	1.1 U	0.23 U	0.1 U	0.0011 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.0011 U	0.0009 U	0.001 U
Bromochloromethane	9	10000	10000		5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Bromodichloromethane	10	45	51	1.4	1.1 U	0.23 U	0.1 U	0.0011 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.0011 U	0.0009 U	0.001 U
Bromoform	10	1500	1700	220	4.6 U	0.92 U	0.41 U	0.0044 U	0.0046 U	0.0041 U	0.0047 U	0.004 U	0.0044 U	0.0036 U	0.0042 U
Bromomethane	1	270	300	35	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Carbon Disulfide	410	10000	10000	3000	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Carbon Tetrachloride	0.5	110	120	1.3	2.3 U	0.46 U	0.2 U	0.0022 U	0.0023 U	0.002 U	0.0024 U	0.002 U	0.0022 U	0.0018 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Chlorodibromomethane	10	61	70	3.4	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Chloroethane	90	10000	10000	62000	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Chloroform	10	17	19	1.5	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Chloromethane	0.3	920	1000	510	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
cis-1,2-Dichloroethene	7	1900	2100	10000	5.7 U	1.2 U	0.51 U	0.0043 J	0.017	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Ethylbenzene	70	10000	10000	29	4.6 U	0.92 U	0.41 U	0.0044 U	0.0046 U	0.0041 U	0.0047 U	0.0005 J	0.0004 J	0.0036 U	0.0042 U
Methyl tert-butyl ether	2	3200	3700	190	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Methylene chloride	0.5	3500	4000	54	3.4 U	0.69 U	0.31 U	0.0033 U	0.0035 U	0.0031 U	0.0036 U	0.003 U	0.0033 U	0.0027 U	0.0031 U
Styrene	24	10000	10000	38000	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Tetrachloroethene	0.5	1500	3300	2.7	160	43	1	0.049	0.03	0.023	0.01	0.001 U	0.0022	0.0007 J	0.0081
Toluene	100	10000	10000	46000	5.7 U	1.2 U	0.51 U	0.0013 J	0.0012 J	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.002 J	0.0021 J
trans-1,2-Dichloroethene	10	3700	4300	500	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 U	0.0052 U
Trichloroethene	0.5	970	1100	14	26	4.9	0.58	0.065	0.069	0.034	0.025	0.0007 J	0.0039	0.0012	0.0067
Vinyl Chloride	0.2	53	220	1.7	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.005 U	0.0055 U	0.0045 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-001 0 - 2 2/11/2004	BPA-SB-001 5 - 7 2/11/2004	BPA-SB-002 0 - 2 2/11/2004	BPA-SB-002 4 - 6 2/11/2004	BPA-SB-002 10 - 12 2/11/2004	*BPA-SB-003 0 - 2 2/12/2004	BPA-SB-003 4 - 6 2/12/2004	*BPA-SB-004 0 - 2 2/5/2004	BPA-SB-004 2 - 4 2/5/2004	*BPA-SB-005 0 - 2 2/11/2004	BPA-SB-005 2 - 4 2/11/2004
Xylenes (Total)	1000	10000	10000	2600	5.7 U	1.2 U	0.51 U	0.0055 U	0.0058 U	0.0051 U	0.0059 U	0.0014 J	0.0011 J	0.0045 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-006 0 - 2 2/5/2004	BPA-SB-006 2 - 4 2/5/2004	BPA-SB-006 Dup 2 - 4 2/5/2004	BPA-SB-007 0 - 2 2/10/2004	BPA-SB-007 4 - 6 2/10/2004	BPA-SB-007 12 - 14 2/10/2004	BPA-SB-008 0 - 2 2/10/2004	BPA-SB-008 4 - 6 2/10/2004	BPA-SB-008 7 - 9 2/10/2004	BPA-SB-009 0 - 2 2/10/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	16.5	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.05	0.08	0.03 B	0.07	0.021 U	0.02 U	0.06	0.022 U	0.021 U	0.021 U
Metal														
Antimony	27	1100	190000	410	0.45 U	0.49 U	0.49 U	1.7	0.74 U	0.7 U	0.82 B	0.76 U	0.72 U	0.73 U
Arsenic	150	53	190000	1.6	5	7.6	6.2	6.2	7.7	4.3	6.5	6.9	4.9	5.9
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.51	0.75	0.71	0.63	0.69	0.6	0.71	0.47 B	0.44	1
Cadmium	38	210	190000	800	0.26 B	0.24 B	0.18 B	1.9	0.051 U	0.048 U	0.73	0.1 U	0.05 U	0.051 U
Chromium				1400	17.2	20.8	16.8	53.3	24.4	15.2	90.4	24.2	18.3	16.2
Copper	36000	100000	190000	41000	13.8	19.4	21.5	78.4	20.3	16.1	43.9	22.6	18.8	21.2
Lead	450	1000	190000	800	32.8	46.1	20	215	13.8	11	84.6	18.3	10.3	15.8
Nickel	650	56000	190000	20000	6	12.2	9.6	16.5	14.7	17.3	12.6	15	13.8	17.3
Selenium	26	14000	190000	5100	0.45 U	0.49 U	0.49 U	0.56 U	0.54 U	0.51 U	0.54 U	1.1 U	0.52 U	0.53 U
Silver	84	14000	190000	5100	0.081 U	0.089 U	0.089 U	0.47 B	0.18 U	0.17 U	0.18 U	0.37 U	0.17 U	0.18 U
Thallium	14	200	190000	66	0.51 U	0.56 U	0.56 U	0.63 U	0.6 U	0.57 U	0.61 U	1.2 U	0.59 U	0.59 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	46.9	30.6	40.8	424	51.9	51	568	55.8	45.8	71.2
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Arochlor-1232	2	160	10000	0.62	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Arochlor-1242	62	160	10000	0.74	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Arochlor-1248	67	44	10000	0.74	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Arochlor-1254	280	44	10000	0.74	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Arochlor-1260	1900	130	190000	0.74	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
PCBs (Total)				0.74	0.078 U	0.085 U	0.085 U	0.09 U	0.086 U	0.081 U	0.087 U	0.088 U	0.083 U	0.085 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.39 U	0.042 U	0.042 U	0.045 U	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	16 U	1.7 U	1.7 U	1.8 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.78 U	0.084 U	0.084 U	0.089 U	0.085 U	0.08 U	0.086 U	0.087 U	0.083 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.78 U	0.084 U	0.084 U	0.089 U	0.085 U	0.08 U	0.086 U	0.087 U	0.083 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	1.4 J	0.13 J	0.025 J	0.23 J	0.42 U	0.4 U	0.058 J	0.44 U	0.42 U	0.42 U
2-Methylphenol	510	10000	10000	31000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	7.8 U	0.84 U	0.84 U	0.89 U	0.85 U	0.8 U	0.86 U	0.87 U	0.83 U	0.84 U
2-Nitrophenol	82	22000	190000		3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	7.8 U	0.84 U	0.84 U	0.89 U	0.85 U	0.8 U	0.86 U	0.87 U	0.83 U	0.84 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-006 0 - 2 2/5/2004	BPA-SB-006 2 - 4 2/5/2004	BPA-SB-006 Dup 2 - 4 2/5/2004	BPA-SB-007 0 - 2 2/10/2004	BPA-SB-007 4 - 6 2/10/2004	BPA-SB-007 12 - 14 2/10/2004	BPA-SB-008 0 - 2 2/10/2004	BPA-SB-008 4 - 6 2/10/2004	BPA-SB-008 7 - 9 2/10/2004	BPA-SB-009 0 - 2 2/10/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		7.8 U	0.84 U	0.84 U	0.89 U	0.85 U	0.8 U	0.86 U	0.87 U	0.83 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	16 U	1.7 U	1.7 U	1.8 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Bromophenyl phenyl ether					3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
4-Chlorodiphenyl Ether					3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	7.8 U	0.84 U	0.84 U	0.89 U	0.85 U	0.8 U	0.86 U	0.87 U	0.83 U	0.84 U
4-Nitrophenol	6	22000	190000		16 U	1.7 U	1.7 U	1.8 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U
Acenaphthene	4700	170000	190000	33000	2.8 J	0.098 J	0.023 J	0.96	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	7.8	0.7	0.14 J	0.4 J	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Anthracene	350	190000	190000	170000	11	0.59	0.14 J	1.9	0.42 U	0.4 U	0.056 J	0.44 U	0.42 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	22	1.4	0.32	4.2	0.042 U	0.04 U	0.43	0.024 J	0.042 U	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	18	1.4	0.28	4.2	0.042 U	0.04 U	0.5	0.019 J	0.042 U	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	13	1	0.21	3.4	0.042 U	0.04 U	0.49	0.016 J	0.042 U	0.014 J
Benzo (g,h,i) Perylene	180	170000	190000		9.9	0.72	0.22 J	3.3	0.42 U	0.4 U	0.38 J	0.44 U	0.42 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	18	1.3	0.26	4.2	0.042 U	0.04 U	0.47	0.02 J	0.042 U	0.042 U
Bis(2-Chloroethoxy) Methane				1800	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.39 U	0.042 U	0.042 U	0.045 U	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	3.9 U	0.42 U	0.42 U	0.28 J	0.16 J	0.14 J	0.12 J	0.11 J	0.12 J	0.21 J
Butylbenzylphthalate	10000	10000	10000	910	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Carbazole	83	4000	190000		3 J	0.29 J	0.063 J	0.91	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Chrysene	230	11000	190000	210	22	1.5	0.32 J	4.6	0.42 U	0.4 U	0.56	0.03 J	0.42 U	0.03 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	2.3	0.16	0.04 J	1	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
Dibenzofuran					2.8 J	0.16 J	0.034 J	0.5	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Diethylphthalate	500	10000	10000	490000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Dimethylphthalate					3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Fluoranthene	3200	110000	190000	22000	49	3.2	0.76	9	0.42 U	0.4 U	0.52	0.44 U	0.42 U	0.013 J
Fluorene	3800	110000	190000	22000	6	0.36 J	0.076 J	0.9	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.39 U	0.042 U	0.042 U	0.045 U	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.78 U	0.084 U	0.084 U	0.089 U	0.085 U	0.08 U	0.086 U	0.087 U	0.083 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.39 U	0.042 U	0.042 U	0.045 U	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	10	0.72	0.2	2.8	0.042 U	0.04 U	0.31	0.044 U	0.042 U	0.042 U
Isophorone	10	10000	10000	1800	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Naphthalene	25	56000	190000	20	1.4 J	0.17 J	0.027 J	0.36 J	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.39 U	0.042 U	0.042 U	0.045 U	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.39 U	0.042 U	0.042 U	0.045 U	0.042 U	0.04 U	0.043 U	0.044 U	0.042 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Pentachlorophenol	5	660	190000	9	16 U	1.7 U	1.7 U	1.8 U	1.7 U	1.6 U	2.8	1.7 U	1.7 U	1.7 U
Phenanthrene	10000	190000	190000		38	2.6	0.64	7.4	0.42 U	0.4 U	0.25 J	0.042 J	0.42 U	0.016 J
Phenol	400	190000	190000	180000	3.9 U	0.42 U	0.42 U	0.45 U	0.42 U	0.4 U	0.43 U	0.44 U	0.42 U	0.42 U
Pyrene	2200	84000	190000	17000	45	2.9	0.67	10	0.42 U	0.4 U	0.65	0.048 J	0.42 U	0.015 J
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100				0.002 mg/l U			0.002 mg/l U	0.002 mg/l U	0.002 mg/l U	0.002 mg/l U
1,2-Dichloroethane	0.5	63	73	2.2				0.002 mg/l U			0.002 mg/l U	0.002 mg/l U	0.002 mg/l U	0.002 mg/l U
2-Butanone	580	10000	10000	190000				0.005 mg/l U			0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-006 0 - 2 2/5/2004	BPA-SB-006 2 - 4 2/5/2004	BPA-SB-006 Dup 2 - 4 2/5/2004	BPA-SB-007 0 - 2 2/10/2004	BPA-SB-007 4 - 6 2/10/2004	BPA-SB-007 12 - 14 2/10/2004	BPA-SB-008 0 - 2 2/10/2004	BPA-SB-008 4 - 6 2/10/2004	BPA-SB-008 7 - 9 2/10/2004	BPA-SB-009 0 - 2 2/10/2004
Benzene	0.5	210	240	5.6				0.001 mg/l U			0.001 mg/l U	0.001 mg/l U	0.001 mg/l U	0.001 mg/l
Carbon Tetrachloride	0.5	110	120	1.3				0.002 mg/l U			0.002 mg/l U	0.002 mg/l U	0.002 mg/l U	0.002 mg/l U
Chlorobenzene	10	10000	10000	1500				0.005 mg/l U			0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 mg/l U
Chloroform	10	17	19	1.5				0.005 mg/l U			0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 mg/l U
Tetrachloroethene	0.5	1500	3300	2.7				0.0084 mg/l			0.019 mg/l	0.003 mg/l	0.001 mg/l U	0.0022 mg/l
Trichloroethene	0.5	970	1100	14				0.037 mg/l			0.039 mg/l	0.0047 mg/l	0.001 mg/l U	0.0093 mg/l
Vinyl Chloride	0.2	53	220	1.7				0.005 mg/l U			0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 mg/l U
Total Solids														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0009 U	0.0011 U	0.0011 U	0.11 U	0.0011 U	0.001 U	2.4 U	0.11 U	0.11 U	0.11 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0027 U	0.0033 U	0.0032 U	0.32 U	0.0032 U	0.003 U	7.3 U	0.34 U	0.32 U	0.33 U
1,1-Dichloroethane	11	1000	1200	17	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
1,1-Dichloroethene	0.7	33	38	1100	0.0018 U	0.0022 U	0.0022 U	0.22 U	0.0022 U	0.002 U	4.9 U	0.22 U	0.21 U	0.22 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0018 U	0.0022 U	0.0022 U	0.22 U	0.0022 U	0.002 U	4.9 U	0.22 U	0.21 U	0.22 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0009 U	0.0011 U	0.0011 U	0.11 U	0.0011 U	0.001 U	2.4 U	0.11 U	0.11 U	0.11 U
1,4-Dioxane	2.4	210	240	160	0.92 U	1.1 U	1.1 U	110 U	1.1 U	0.98 U	2400 U	110 U	110 U	110 U
2-Butanone	580	10000	10000	190000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.016	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Acetone	1000	10000	10000	610000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.15	0.071	12 U	0.56 U	0.53 U	0.55 U
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.046 U	0.055 U	0.054 U	5.4 U	0.054 U	0.049 U	120 U	5.6 U	5.3 U	5.5 U
Benzene	0.5	210	240	5.6	0.0009 U	0.0011 U	0.0011 U	0.11 U	0.0011 U	0.001 U	2.4 U	0.11 U	0.11 U	0.11 U
Bromochloromethane	9	10000	10000		0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Bromodichloromethane	10	45	51	1.4	0.0009 U	0.0011 U	0.0011 U	0.11 U	0.0011 U	0.001 U	2.4 U	0.11 U	0.11 U	0.11 U
Bromoform	10	1500	1700	220	0.0037 U	0.0044 U	0.0043 U	0.43 U	0.0043 U	0.0039 U	9.7 U	0.45 U	0.42 U	0.44 U
Bromomethane	1	270	300	35	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Carbon Disulfide	410	10000	10000	3000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0018 U	0.0022 U	0.0022 U	0.22 U	0.0022 U	0.002 U	4.9 U	0.22 U	0.21 U	0.22 U
Chlorobenzene	10	10000	10000	1500	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Chlorodibromomethane	10	61	70	3.4	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Chloroethane	90	10000	10000	62000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Chloroform	10	17	19	1.5	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Chloromethane	0.3	920	1000	510	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0046 U	0.0055 U	0.0054 U	0.16 J	0.0022 J	0.0018 J	12 U	0.56 U	0.53 U	0.55 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Ethylbenzene	70	10000	10000	29	0.0006 J	0.0007 J	0.0007 J	0.43 U	0.0043 U	0.0004 J	9.7 U	0.45 U	0.42 U	0.44 U
Methyl tert-butyl ether	2	3200	3700	190	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Methylene chloride	0.5	3500	4000	54	0.0027 U	0.0033 U	0.0007 JB	0.32 U	0.0032 U	0.003 U	7.3 U	0.34 U	0.32 U	0.33 U
Styrene	24	10000	10000	38000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0062	0.0093	0.0061	1.8	0.043	0.023	130	1	1.2	1.5
Toluene	100	10000	10000	46000	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0014 J	0.0016 J	12 U	0.56 U	0.53 U	0.55 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 U
Trichloroethene	0.5	970	1100	14	0.0054	0.01	0.0059	4.3	0.052	0.045	92	0.61	1.9	5.8
Vinyl Chloride	0.2	53	220	1.7	0.0046 U	0.0055 U	0.0054 U	0.54 U	0.0054 U	0.0049 U	12 U	0.56 U	0.53 U	0.55 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	*BPA-SB-006 0 - 2 2/5/2004	BPA-SB-006 2 - 4 2/5/2004	BPA-SB-006 Dup 2 - 4 2/5/2004	BPA-SB-007 0 - 2 2/10/2004	BPA-SB-007 4 - 6 2/10/2004	BPA-SB-007 12 - 14 2/10/2004	BPA-SB-008 0 - 2 2/10/2004	BPA-SB-008 4 - 6 2/10/2004	BPA-SB-008 7 - 9 2/10/2004	BPA-SB-009 0 - 2 2/10/2004
Xylenes (Total)	1000	10000	10000	2600	0.0022 J	0.0026 J	0.0024 J	0.54 U	0.0054 U	0.0014 J	12 U	0.56 U	0.53 U	0.55 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-009 5 - 7 2/10/2004	BPA-SB-009 11 - 13 2/10/2004	BPA-SB-010 0 - 2 2/10/2004	BPA-SB-010 10 - 12 2/10/2004	BPA-SB-011 0 - 2 2/11/2004	BPA-SB-011 2 - 4 2/11/2004	BPA-SB-011 7 - 9 2/11/2004	BPA-SB-011 Dup 7 - 9 2/11/2004	BPA-SB-012 0 - 2 2/11/2004	BPA-SB-012 4 - 6 2/11/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.02 U	0.021 U	0.021 U	0.06	0.021 U	0.02 U	0.02 U	0.02 U	0.1
Metal														
Antimony	27	1100	190000	410	0.74 U	0.71 U	0.74 U	0.74 U	1 B	0.73 U	0.7 U	0.71 U	0.7 U	0.74 U
Arsenic	150	53	190000	1.6	7.1	5.4	10.3	5.3	6.4	7	4.3	4.3	3.4	5.2
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.56	0.51	1	0.5	0.62	0.68	0.41	0.44	0.46	0.6
Cadmium	38	210	190000	800	0.051 U	0.049 U	0.1 U	0.051 U	0.57 B	0.05 U	0.048 U	0.049 U	0.16 B	0.051 U
Chromium				1400	23.5	16.3	36.5	18.9	31.9	22	15.7	16	11.8	19.3
Copper	36000	100000	190000	41000	21.8	18.4	38.5	20.8	98.2	18.7	17.3	17.4	22	18.1
Lead	450	1000	190000	800	13.1	11.1	26.9	11.8	63.3	13.7	9.6	10	55	12.5
Nickel	650	56000	190000	20000	14.7	13.2	25.3	13.6	11.7	14	12.6	12.8	7.5	12.8
Selenium	26	14000	190000	5100	0.53 U	0.52 U	1.1 U	0.54 U	0.52 U	0.53 U	0.5 U	0.52 U	0.51 U	0.54 U
Silver	84	14000	190000	5100	0.18 U	0.17 U	0.36 U	0.18 U	4.1	0.18 U	0.17 U	0.17 U	0.17 U	0.18 U
Thallium	14	200	190000	66	0.6 U	0.58 U	1.2 U	0.6 U	0.58 U	0.59 U	0.56 U	0.58 U	0.57 U	0.6 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	52.5	44.7	97.2	49	265	50.6	59.1	61.2	48.6	44
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Arochlor-1232	2	160	10000	0.62	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Arochlor-1242	62	160	10000	0.74	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Arochlor-1248	67	44	10000	0.74	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Arochlor-1254	280	44	10000	0.74	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Arochlor-1260	1900	130	190000	0.74	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
PCBs (Total)				0.74	0.85 U	0.082 U	0.086 U	0.086 U	0.082 U	0.084 U	0.08 U	0.16 U	0.081 U	0.085 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.082 U	0.085 U	0.086 U	0.082 U	0.083 U	0.08 U	0.082 U	0.08 U	0.085 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.082 U	0.085 U	0.086 U	0.082 U	0.083 U	0.08 U	0.082 U	0.08 U	0.085 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.41 U	0.43 U	0.43 U	0.1 J	0.42 U	0.4 U	0.41 U	0.4 U	0.037 J
2-Methylphenol	510	10000	10000	31000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	0.82 U	0.85 U	0.86 U	0.82 U	0.83 U	0.8 U	0.82 U	0.8 U	0.85 U
2-Nitrophenol	82	22000	190000		0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	0.82 U	0.85 U	0.86 U	0.82 U	0.83 U	0.8 U	0.82 U	0.8 U	0.85 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-009 5 - 7 2/10/2004	BPA-SB-009 11 - 13 2/10/2004	BPA-SB-010 0 - 2 2/10/2004	BPA-SB-010 10 - 12 2/10/2004	BPA-SB-011 0 - 2 2/11/2004	BPA-SB-011 2 - 4 2/11/2004	BPA-SB-011 7 - 9 2/11/2004	BPA-SB-011 Dup 7 - 9 2/11/2004	BPA-SB-012 0 - 2 2/11/2004	BPA-SB-012 4 - 6 2/11/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.85 U	0.82 U	0.85 U	0.86 U	0.82 U	0.83 U	0.8 U	0.82 U	0.8 U	0.85 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U
4-Bromophenyl phenyl ether					0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
4-Chlorodiphenyl Ether					0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	0.82 U	0.85 U	0.86 U	0.82 U	0.83 U	0.8 U	0.82 U	0.8 U	0.85 U
4-Nitrophenol	6	22000	190000		1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Anthracene	350	190000	190000	170000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.041 U	0.016 J	0.053	0.047	0.042 U	0.04 U	0.12	0.032 J	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.041 U	0.013 J	0.044	0.038 J	0.042 U	0.04 U	0.1	0.044	0.034 J
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.041 U	0.012 J	0.037 J	0.054	0.042 U	0.04 U	0.09	0.034 J	0.039 J
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.41 U	0.43 U	0.024 J	0.41 U	0.42 U	0.4 U	0.048 J	0.4 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.041 U	0.016 J	0.04 J	0.041 U	0.042 U	0.04 U	0.11	0.037 J	0.019 J
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.21 J	0.094 J	0.22 J	0.24 J	0.41 U	0.42 U	0.14 JB	0.41 U	0.15 J	0.11 J
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Carbazole	83	4000	190000		0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Chrysene	230	11000	190000	210	0.42 U	0.41 U	0.026 J	0.055 J	0.092 J	0.42 U	0.4 U	0.14 J	0.041 J	0.059 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
Dibenzofuran					0.42 U	0.41 U	0.43 U	0.43 U	0.033 J	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Dimethylphthalate					0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.41 U	0.026 J	0.1 J	0.061 J	0.42 U	0.4 U	0.19 J	0.4 U	0.42 U
Fluorene	3800	110000	190000	22000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.082 U	0.085 U	0.086 U	0.082 U	0.083 U	0.08 U	0.082 U	0.08 U	0.085 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.041 U	0.043 U	0.02 J	0.041 U	0.042 U	0.04 U	0.052	0.04 U	0.042 U
Isophorone	10	10000	10000	1800	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Naphthalene	25	56000	190000	20	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.041 U	0.043 U	0.043 U	0.041 U	0.042 U	0.04 U	0.041 U	0.04 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.2 J	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		0.42 U	0.41 U	0.022 J	0.071 J	0.12 J	0.42 U	0.4 U	0.41 U	0.056 J	0.067 J
Phenol	400	190000	190000	180000	0.42 U	0.41 U	0.43 U	0.43 U	0.41 U	0.42 U	0.4 U	0.41 U	0.4 U	0.42 U
Pyrene	2200	84000	190000	17000	0.42 U	0.41 U	0.028 J	0.099 J	0.074 J	0.42 U	0.4 U	0.14 J	0.4 U	0.42 U
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100	0.002 mg/l U	0.002 mg/l U		0.002 mg/l U	0.002 mg/l U	0.002 mg/l U	0.002 mg/l U		0.002 mg/l U	
1,2-Dichloroethane	0.5	63	73	2.2	0.002 mg/l U	0.002 mg/l U		0.002 mg/l U	0.002 mg/l U	0.002 mg/l U	0.002 mg/l U		0.002 mg/l U	
2-Butanone	580	10000	10000	190000	0.005 mg/l U	0.005 mg/l U		0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 mg/l U		0.005 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-009 5 - 7 2/10/2004	BPA-SB-009 11 - 13 2/10/2004	BPA-SB-010 0 - 2 2/10/2004	BPA-SB-010 10 - 12 2/10/2004	BPA-SB-011 0 - 2 2/11/2004	BPA-SB-011 2 - 4 2/11/2004	BPA-SB-011 7 - 9 2/11/2004	BPA-SB-011 Dup 7 - 9 2/11/2004	BPA-SB-012 0 - 2 2/11/2004	BPA-SB-012 4 - 6 2/11/2004
Benzene	0.5	210	240	5.6	0.001 mg/l U	0.001 mg/l U		0.001 mg/l U	0.001 mg/l U	0.001 mg/l U	0.001 mg/l U		0.001 mg/l U	
Carbon Tetrachloride	0.5	110	120	1.3	0.002 mg/l U	0.002 mg/l U		0.002 mg/l U	0.002 mg/l U	0.002 mg/l U	0.002 mg/l U		0.002 mg/l U	
Chlorobenzene	10	10000	10000	1500	0.005 mg/l U	0.005 mg/l U		0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 mg/l U		0.005 mg/l U	
Chloroform	10	17	19	1.5	0.005 mg/l U	0.005 mg/l U		0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.0006 mg/l J		0.005 mg/l U	
Tetrachloroethene	0.5	1500	3300	2.7	0.00071 mg/l J	0.001 mg/l U		0.0019 mg/l	0.013 mg/l	0.0037 mg/l	0.0008 mg/l J		0.0051 mg/l	
Trichloroethene	0.5	970	1100	14	0.001 mg/l U	0.001 mg/l U		0.022 mg/l	0.064 mg/l	0.016 mg/l	0.001 mg/l U		0.0035 mg/l	
Vinyl Chloride	0.2	53	220	1.7	0.005 mg/l U	0.005 mg/l U		0.005 mg/l U	0.005 mg/l U	0.005 mg/l U	0.005 mg/l U		0.005 mg/l U	
Total Solids														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.11 U	0.11 U	0.0012 U	0.11 U	1.1 U	0.1 U	0.45 U	0.11 U	0.098 U	0.11 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.33 U	0.32 U	0.0037 U	0.34 U	3.4 U	0.31 U	1.3 U	0.34 U	0.29 U	0.33 U
1,1-Dichloroethane	11	1000	1200	17	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
1,1-Dichloroethene	0.7	33	38	1100	0.22 U	0.21 U	0.0025 U	0.22 U	2.3 U	0.2 U	0.9 U	0.22 U	0.2 U	0.22 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
1,2-Dichloroethane	0.5	63	73	2.2	0.22 U	0.21 U	0.0025 U	0.22 U	2.3 U	0.2 U	0.9 U	0.22 U	0.2 U	0.22 U
1,2-Dichloropropane	0.5	160	180	4.7	0.11 U	0.11 U	0.0012 U	0.11 U	1.1 U	0.1 U	0.45 U	0.11 U	0.098 U	0.11 U
1,4-Dioxane	2.4	210	240	160	110 U	110 U	1.2 U	110 U	1100 U	100 U	450 U	110 U	98 U	110 U
2-Butanone	580	10000	10000	190000	0.54 U	0.54 U	0.011	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Acetone	1000	10000	10000	610000	0.54 U	0.54 U	0.074	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	5.4 U	5.4 U	0.062 U	5.6 U	57 U	5.1 U	22 U	5.6 U	4.9 U	5.5 U
Benzene	0.5	210	240	5.6	0.11 U	0.11 U	0.0012 U	0.11 U	1.1 U	0.1 U	0.45 U	0.11 U	0.098 U	0.11 U
Bromochloromethane	9	10000	10000		0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Bromodichloromethane	10	45	51	1.4	0.11 U	0.11 U	0.0012 U	0.11 U	1.1 U	0.1 U	0.45 U	0.11 U	0.098 U	0.11 U
Bromoform	10	1500	1700	220	0.44 U	0.43 U	0.0049 U	0.45 U	4.6 U	0.41 U	1.8 U	0.45 U	0.39 U	0.44 U
Bromomethane	1	270	300	35	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Carbon Disulfide	410	10000	10000	3000	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Carbon Tetrachloride	0.5	110	120	1.3	0.22 U	0.21 U	0.0025 U	0.22 U	2.3 U	0.2 U	0.9 U	0.22 U	0.2 U	0.22 U
Chlorobenzene	10	10000	10000	1500	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Chlorodibromomethane	10	61	70	3.4	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Chloroethane	90	10000	10000	62000	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Chloroform	10	17	19	1.5	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Chloromethane	0.3	920	1000	510	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.54 U	0.19 J	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Ethylbenzene	70	10000	10000	29	0.44 U	0.43 U	0.0049 U	0.45 U	4.6 U	0.41 U	1.8 U	0.45 U	0.39 U	0.44 U
Methyl tert-butyl ether	2	3200	3700	190	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Methylene chloride	0.5	3500	4000	54	0.33 U	0.32 U	0.0037 U	0.34 U	3.4 U	0.31 U	1.3 U	0.34 U	0.29 U	0.33 U
Styrene	24	10000	10000	38000	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Tetrachloroethene	0.5	1500	3300	2.7	0.23	0.66	0.0099	0.055 J	50	0.58	31	3	0.88	0.13
Toluene	100	10000	10000	46000	0.54 U	0.54 U	0.0014 J	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 U
Trichloroethene	0.5	970	1100	14	0.73	5.6	0.081	0.81	120	1.2	26	2.8	0.54	0.16
Vinyl Chloride	0.2	53	220	1.7	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-009 5 - 7 2/10/2004	BPA-SB-009 11 - 13 2/10/2004	BPA-SB-010 0 - 2 2/10/2004	BPA-SB-010 10 - 12 2/10/2004	BPA-SB-011 0 - 2 2/11/2004	BPA-SB-011 2 - 4 2/11/2004	BPA-SB-011 7 - 9 2/11/2004	BPA-SB-011 Dup 7 - 9 2/11/2004	BPA-SB-012 0 - 2 2/11/2004	BPA-SB-012 4 - 6 2/11/2004
Xylenes (Total)	1000	10000	10000	2600	0.54 U	0.54 U	0.0062 U	0.56 U	5.7 U	0.51 U	2.2 U	0.56 U	0.49 U	0.55 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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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)	BPA-SB-013 0 - 2 2/11/2004	BPA-SB-013 2 - 4 2/11/2004	BPA-SB-013 5 - 7 2/11/2004	*BPA-SB-014 0 - 2 2/5/2004	BPA-SB-014 2 - 4 2/5/2004	BPA-SB-015 0 - 2 2/11/2004	BPA-SB-015 1 - 3 2/11/2004	BPA-SB-015 5 - 7 2/11/2004	BPA-SB-016 0 - 2 2/11/2004	BPA-SB-016 2 - 4 2/11/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.19	0.06	0.021 U	0.07	0.03 B	0.97	0.021 U	0.021 U	0.05	0.021 U
Metal														
Antimony	27	1100	190000	410	0.49 U	0.46 U	0.49 U	0.46 B	0.46 U	2.7	0.73 U	0.74 U	0.73 U	0.74 U
Arsenic	150	53	190000	1.6	5.3	4.1	5.7	5.9	4.4	21.2	7.3	6.4	4.9	5.6
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.38	0.55	0.53	0.45	0.58	0.89	0.58	0.59	0.77	0.75
Cadmium	38	210	190000	800	0.96	0.048 U	0.051 U	1.5	0.047 U	0.09 B	0.051 U	0.051 U	0.15 B	0.051 U
Chromium				1400	13.8	12	19	23.2	13	16.8	24.2	21.6	14.8	20.4
Copper	36000	100000	190000	41000	45.8	5.7	20.3	38	6	68.8	22.3	22	66.8	17.4
Lead	450	1000	190000	800	41	11.7	11	80.6	13.3	114	13.9	12.2	23.9	14.6
Nickel	650	56000	190000	20000	8.8	5.2	12.4	11.5	6.3	13.8	14	13.9	10.5	12.6
Selenium	26	14000	190000	5100	0.49 U	0.46 U	0.49 U	0.45 U	0.46 U	0.56 U	0.53 U	0.53 U	0.53 U	0.53 U
Silver	84	14000	190000	5100	0.09 B	0.083 U	0.089 U	0.13 B	0.083 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U
Thallium	14	200	190000	66	0.55 U	0.52 U	0.56 U	0.5 U	0.52 U	0.63 U	0.59 U	0.6 U	0.59 U	0.6 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	76.7	18.5	38.5	95	24	135	62.6	122	120	73
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.084 U	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.084 U	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Arochlor-1232	2	160	10000	0.62	0.084 U	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Arochlor-1242	62	160	10000	0.74	0.084 U	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Arochlor-1248	67	44	10000	0.74	0.084 U	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Arochlor-1254	280	44	10000	0.74	0.084 U	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Arochlor-1260	1900	130	190000	0.74	0.03 J	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
PCBs (Total)				0.74	0.03 J	0.08 U	0.085 U	0.076 U	0.079 U	0.89 U	0.84 U	0.85 U	0.17 U	0.085 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.044 U	0.042 U	0.042 U	0.042 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.6 U	1.7 U	1.5 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.084 U	0.079 U	0.084 U	0.076 U	0.079 U	0.089 U	0.084 U	0.085 U	0.084 U	0.085 U
2,6-Dinitrotoluene	10	2800	190000	620	0.084 U	0.079 U	0.084 U	0.076 U	0.079 U	0.089 U	0.084 U	0.085 U	0.084 U	0.085 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.4 U	0.42 U	0.13 J	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.84 U	0.79 U	0.84 U	0.76 U	0.79 U	0.89 U	0.84 U	0.85 U	0.84 U	0.85 U
2-Nitrophenol	82	22000	190000		0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.84 U	0.79 U	0.84 U	0.76 U	0.79 U	0.89 U	0.84 U	0.85 U	0.84 U	0.85 U

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3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.84 U	0.79 U	0.84 U	0.76 U	0.79 U	0.89 U	0.84 U	0.85 U	0.84 U	0.85 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.6 U	1.7 U	1.5 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Bromophenyl phenyl ether					0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
4-Chlorodiphenyl Ether					0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.84 U	0.79 U	0.84 U	0.76 U	0.79 U	0.89 U	0.84 U	0.85 U	0.84 U	0.85 U
4-Nitrophenol	6	22000	190000		1.7 U	1.6 U	1.7 U	1.5 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.4 U	0.42 U	0.0079 J	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.4 U	0.42 U	0.022 J	0.4 U	0.052 J	0.42 U	0.42 U	0.42 U	0.42 U
Anthracene	350	190000	190000	170000	0.42 U	0.4 U	0.42 U	0.042 J	0.4 U	0.13 J	0.42 U	0.42 U	0.42 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.014 J	0.042 U	0.12	0.04 U	0.29	0.042 U	0.042 U	0.12	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.014 J	0.042 U	0.1	0.04 U	0.18	0.042 U	0.042 U	0.14	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.0098 J	0.042 U	0.1	0.04 U	0.36	0.042 U	0.042 U	0.11	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.4 U	0.42 U	0.1 J	0.4 U	0.12 J	0.42 U	0.42 U	0.14 J	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.014 J	0.042 U	0.11	0.04 U	0.26	0.042 U	0.042 U	0.12	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.044 U	0.042 U	0.042 U	0.042 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.23 J	0.092 J	0.1 J	0.38 U	0.4 U	0.44 U	0.42 U	0.13 J	0.42 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Carbazole	83	4000	190000		0.42 U	0.4 U	0.42 U	0.026 J	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Chrysene	230	11000	190000	210	0.012 J	0.024 J	0.42 U	0.16 J	0.011 J	0.4 J	0.42 U	0.42 U	0.15 J	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.064	0.042 U	0.042 U	0.042 U	0.042 U
Dibenzofuran					0.42 U	0.4 U	0.42 U	0.04 J	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Dimethylphthalate					0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.012 J	0.019 J	0.42 U	0.22 J	0.014 J	0.32 J	0.42 U	0.42 U	0.17 J	0.42 U
Fluorene	3800	110000	190000	22000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.044 U	0.042 U	0.042 U	0.042 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.084 U	0.079 U	0.084 U	0.076 U	0.079 U	0.089 U	0.084 U	0.085 U	0.084 U	0.085 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.044 U	0.042 U	0.042 U	0.042 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.04 U	0.042 U	0.09	0.04 U	0.13	0.042 U	0.042 U	0.12	0.042 U
Isophorone	10	10000	10000	1800	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Naphthalene	25	56000	190000	20	0.42 U	0.4 U	0.42 U	0.094 J	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.044 U	0.042 U	0.042 U	0.042 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.04 U	0.042 U	0.038 U	0.04 U	0.044 U	0.042 U	0.042 U	0.042 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.6 U	1.7 U	1.5 U	1.6 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U
Phenanthrene	10000	190000	190000		0.0099 J	0.012 J	0.42 U	0.2 J	0.011 J	0.062 J	0.42 U	0.42 U	0.16 J	0.42 U
Phenol	400	190000	190000	180000	0.42 U	0.4 U	0.42 U	0.38 U	0.4 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Pyrene	2200	84000	190000	17000	0.014 J	0.031 J	0.42 U	0.18 J	0.016 J	0.54	0.42 U	0.42 U	0.23 J	0.42 U
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100						0.002 mg/l U	0.002 mg/l U	0.01 mg/l U	0.002 mg/l U	0.002 mg/l U
1,2-Dichloroethane	0.5	63	73	2.2						0.002 mg/l U	0.002 mg/l U	0.01 mg/l U	0.002 mg/l U	0.002 mg/l U
2-Butanone	580	10000	10000	190000						0.005 mg/l U	0.005 mg/l U	0.025 mg/l U	0.005 mg/l U	0.005 mg/l U

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Benzene	0.5	210	240	5.6						0.001 mg/l U	0.001 mg/l U	0.005 mg/l U	0.001 mg/l U	0.001 mg/l U
Carbon Tetrachloride	0.5	110	120	1.3						0.002 mg/l U	0.002 mg/l U	0.01 mg/l U	0.002 mg/l U	0.002 mg/l U
Chlorobenzene	10	10000	10000	1500						0.005 mg/l U	0.005 mg/l U	0.025 mg/l U	0.005 mg/l U	0.005 mg/l U
Chloroform	10	17	19	1.5						0.005 mg/l U	0.005 mg/l U	0.025 mg/l U	0.005 mg/l U	0.005 mg/l U
Tetrachloroethene	0.5	1500	3300	2.7						0.0028 mg/l	0.0041 mg/l	0.59 mg/l	0.0029 mg/l	0.0046 mg/l
Trichloroethene	0.5	970	1100	14						0.0023 mg/l	0.001 mg/l U	0.0069 mg/l	0.0056 mg/l	0.0055 mg/l
Vinyl Chloride	0.2	53	220	1.7						0.005 mg/l U	0.005 mg/l U	0.025 mg/l U	0.005 mg/l U	0.005 mg/l U
Total Solids														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.38 J	0.53 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.12 U	0.1 U	0.12 U	0.11 U	0.1 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	0.0031 U	0.0035 U	0.0028 U	0.003 U	0.35 U	0.3 U	0.34 U	0.33 U	0.32 U
1,1-Dichloroethane	11	1000	1200	17	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.002 U	0.0023 U	0.0019 U	0.002 U	0.23 U	0.2 U	0.23 U	0.22 U	0.21 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.002 U	0.0023 U	0.0019 U	0.002 U	0.23 U	0.2 U	0.23 U	0.22 U	0.21 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.12 U	0.1 U	0.12 U	0.11 U	0.1 U
1,4-Dioxane	2.4	210	240	160	1 U	1 U	1.2 U	0.94 U	0.99 U	120 U	100 U	120 U	110 U	100 U
2-Butanone	580	10000	10000	190000	0.0053 U	0.0046 J	0.0048 J	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Acetone	1000	10000	10000	610000	0.056	0.062	0.062	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.053 U	0.051 U	0.058 U	0.047 U	0.049 U	5.8 U	5.1 U	5.8 U	5.5 U	5.3 U
Benzene	0.5	210	240	5.6	0.001 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.12 U	0.1 U	0.12 U	0.11 U	0.1 U
Bromochloromethane	9	10000	10000		0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.12 U	0.1 U	0.12 U	0.11 U	0.1 U
Bromoform	10	1500	1700	220	0.0042 U	0.0041 U	0.0046 U	0.0037 U	0.0039 U	0.47 U	0.41 U	0.46 U	0.44 U	0.42 U
Bromomethane	1	270	300	35	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Carbon Disulfide	410	10000	10000	3000	0.0053 U	0.0011 J	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.002 U	0.0023 U	0.0019 U	0.002 U	0.23 U	0.2 U	0.23 U	0.22 U	0.21 U
Chlorobenzene	10	10000	10000	1500	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Chlorodibromomethane	10	61	70	3.4	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Chloroethane	90	10000	10000	62000	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Chloroform	10	17	19	1.5	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Chloromethane	0.3	920	1000	510	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.1 J	0.52 J	0.53 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Ethylbenzene	70	10000	10000	29	0.0042 U	0.0041 U	0.0046 U	0.0005 J	0.0006 J	0.47 U	0.41 U	0.46 U	0.44 U	0.42 U
Methyl tert-butyl ether	2	3200	3700	190	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Methylene chloride	0.5	3500	4000	54	0.0032 U	0.0031 U	0.0035 U	0.0028 U	0.003 U	0.35 U	0.3 U	0.34 U	0.33 U	0.32 U
Styrene	24	10000	10000	38000	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Tetrachloroethene	0.5	1500	3300	2.7	0.014	0.021	0.0043	0.0014	0.016	1.7	0.63	1.1	4.7	1.1
Toluene	100	10000	10000	46000	0.0053 U	0.0011 J	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 U
Trichloroethene	0.5	970	1100	14	0.0021	0.0025	0.0022	0.0032	0.01	0.48	0.1 U	0.18	5.4	0.18
Vinyl Chloride	0.2	53	220	1.7	0.0053 U	0.0051 U	0.0058 U	0.0047 U	0.0049 U	0.58 U	0.51 U	0.58 U	0.55 U	0.53 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	BPA-SB-013 0 - 2 2/11/2004	BPA-SB-013 2 - 4 2/11/2004	BPA-SB-013 5 - 7 2/11/2004	*BPA-SB-014 0 - 2 2/5/2004	BPA-SB-014 2 - 4 2/5/2004	BPA-SB-015 0 - 2 2/11/2004	BPA-SB-015 1 - 3 2/11/2004	BPA-SB-015 5 - 7 2/11/2004	BPA-SB-016 0 - 2 2/11/2004	BPA-SB-016 2 - 4 2/11/2004
Xylenes (Total)	1000	10000	10000	2600	0.0053 U	0.0051 U	0.0058 U	0.0022 J	0.0023 J	0.58 U	0.51 U	0.58 U	0.55 U	0.53 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 - Burn Pile Area (BPA)
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)	BPA-SB-016 10 - 12 2/11/2004	BPA-SB-017 0 - 2 2/4/2004	BPA-SB-017 5 - 7 2/4/2004	BPA-SB-018 0 - 2 2/4/2004	BPA-SB-018 5 - 7 2/4/2004	*BPA-SB-019 0 - 2 2/3/2004	*BPA-SB-019 2 - 4 2/4/2004	BPA-SB-019 5 - 7 2/4/2004	BPA-SB-020 0 - 2 2/12/2004	BPA-SB-020 5 - 7 2/12/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	17	3.5	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.04 B	0.02 U	0.04	0.02 U	0.05	0.021 U	0.021 U	0.07	0.021 U
Metal														
Antimony	27	1100	190000	410	0.72 U	0.57 U	0.94 U	0.99 U	0.95 U	0.45 U	0.98 U	0.98 U	0.69 U	0.74 U
Arsenic	150	53	190000	1.6	4.2	5	5.7 B	6.1 B	4.7 B	4.4	3 B	6.3 B	5.4	6.7
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.46	0.53	0.59	0.75	0.49	0.53	0.66	0.65	0.57	0.61
Cadmium	38	210	190000	800	0.05 U	1.5	0.097 U	48.4	0.21 B	0.55 B	0.1 U	0.1 U	0.2 B	0.051 U
Chromium				1400	15.2	20.7	20.3	71.8	26	11.9	8.8	22.7	14.4	27.9
Copper	36000	100000	190000	41000	17.8	39.1	19.6	52.1	19.8	13.2	5.3 B	21.3	74.2	21.9
Lead	450	1000	190000	800	10.8	51.9	11.4	27.5	10.3	19.5	14.9	11.9	35.4	12.7
Nickel	650	56000	190000	20000	13	10.1	13	11	12.9	6.8	5.5 B	13.4	10.5	15.4
Selenium	26	14000	190000	5100	0.52 U	0.57 U	0.94 U	0.99 U	0.95 U	0.46 B	0.98 U	0.98 U	0.5 U	0.53 U
Silver	84	14000	190000	5100	0.17 U	0.1 B	0.17 U	0.18 U	0.17 U	0.08 U	0.18 U	0.18 U	0.17 U	0.18 U
Thallium	14	200	190000	66	0.58 U	0.65 U	1.1 U	1.1 U	1.1 U	0.5 U	1.1 U	1.1 U	0.56 U	1.2 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	44.3	116	39.9	92.2	41	38.8	31.1	41.7	70.2	51.8
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.08 U	0.085 U
Arochlor-1221	2.5	160	10000	0.62	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.08 U	0.085 U
Arochlor-1232	2	160	10000	0.62	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.08 U	0.085 U
Arochlor-1242	62	160	10000	0.74	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.08 U	0.085 U
Arochlor-1248	67	44	10000	0.74	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.08 U	0.085 U
Arochlor-1254	280	44	10000	0.74	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.08 U	0.085 U
Arochlor-1260	1900	130	190000	0.74	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.07 J	0.085 U
PCBs (Total)				0.74	0.16 U	0.098 U	0.081 U	0.85 U	0.82 U	0.077 U	0.084 U	0.084 U	0.07 J	0.085 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.041 U	0.049 U	0.04 U	0.042 U	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	2 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U	1.7 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.082 U	0.098 U	0.08 U	0.085 U	0.081 U	0.076 U	0.084 U	0.084 U	0.079 U	0.085 U
2,6-Dinitrotoluene	10	2800	190000	620	0.082 U	0.098 U	0.08 U	0.085 U	0.081 U	0.076 U	0.084 U	0.084 U	0.079 U	0.085 U
2-Chloronaphthalene	18000	190000	190000	82000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.41 U	0.49 U	0.4 U	0.064 J	0.41 U	0.023 J	0.42 U	0.42 U	0.022 J	0.42 U
2-Methylphenol	510	10000	10000	31000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.82 U	0.98 U	0.8 U	0.85 U	0.81 U	0.76 U	0.84 U	0.84 U	0.79 U	0.85 U
2-Nitrophenol	82	22000	190000		0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.82 U	0.98 U	0.8 U	0.85 U	0.81 U	0.76 U	0.84 U	0.84 U	0.79 U	0.85 U

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Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-016 10 - 12 2/11/2004	BPA-SB-017 0 - 2 2/4/2004	BPA-SB-017 5 - 7 2/4/2004	BPA-SB-018 0 - 2 2/4/2004	BPA-SB-018 5 - 7 2/4/2004	*BPA-SB-019 0 - 2 2/3/2004	*BPA-SB-019 2 - 4 2/4/2004	BPA-SB-019 5 - 7 2/4/2004	BPA-SB-020 0 - 2 2/12/2004	BPA-SB-020 5 - 7 2/12/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.82 U	0.98 U	0.8 U	0.85 U	0.81 U	0.76 U	0.84 U	0.84 U	0.79 U	0.85 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	2 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U	1.7 U	1.6 U	1.7 U
4-Bromophenyl phenyl ether					0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
4-Chlorodiphenyl Ether					0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.82 U	0.98 U	0.8 U	0.85 U	0.81 U	0.76 U	0.84 U	0.84 U	0.79 U	0.85 U
4-Nitrophenol	6	22000	190000		1.6 U	2 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U	1.7 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.022 J	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.41 U	0.49 U	0.4 U	0.035 J	0.41 U	0.017 J	0.42 U	0.42 U	0.4 U	0.42 U
Anthracene	350	190000	190000	170000	0.41 U	0.044 J	0.4 U	0.057 J	0.41 U	0.026 J	0.42 U	0.42 U	0.066 J	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.041 U	0.64	0.04 U	0.29	0.041 U	0.07	0.042 U	0.042 U	0.21	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.041 U	0.6	0.04 U	0.46	0.041 U	0.069	0.0093 J	0.042 U	0.24	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.041 U	0.46	0.04 U	0.43	0.041 U	0.06	0.0085 J	0.042 U	0.25	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.41 U	0.27 J	0.4 U	0.34 J	0.41 U	0.028 J	0.42 U	0.42 U	0.18 J	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.041 U	0.8	0.04 U	0.55	0.041 U	0.079	0.012 J	0.042 U	0.22	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.041 U	0.049 U	0.04 U	0.042 U	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.41 U	0.49 U	0.4 U	0.2 J	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Carbazole	83	4000	190000		0.41 U	0.012 J	0.4 U	0.04 J	0.41 U	0.013 J	0.42 U	0.42 U	0.022 J	0.42 U
Chrysene	230	11000	190000	210	0.41 U	0.71	0.4 U	0.4 J	0.41 U	0.091 J	0.018 J	0.42 U	0.26 J	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.041 U	0.12	0.04 U	0.12	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
Dibenzofuran					0.41 U	0.49 U	0.4 U	0.049 J	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Dimethylphthalate					0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.41 U	0.73	0.4 U	0.4 J	0.41 U	0.14 J	0.017 J	0.42 U	0.4	0.42 U
Fluorene	3800	110000	190000	22000	0.41 U	0.49 U	0.4 U	0.01 J	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.041 U	0.049 U	0.04 U	0.042 U	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.082 U	0.098 U	0.08 U	0.085 U	0.081 U	0.076 U	0.084 U	0.084 U	0.079 U	0.085 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.041 U	0.049 U	0.04 U	0.042 U	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.041 U	0.25	0.04 U	0.32	0.041 U	0.03 J	0.042 U	0.042 U	0.17	0.042 U
Isophorone	10	10000	10000	1800	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Naphthalene	25	56000	190000	20	0.41 U	0.023 J	0.4 U	0.097 J	0.41 U	0.041 J	0.42 U	0.42 U	0.4 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.041 U	0.049 U	0.04 U	0.042 U	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.041 U	0.049 U	0.04 U	0.042 U	0.041 U	0.038 U	0.042 U	0.042 U	0.04 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.6 U	2 U	1.6 U	1 J	1.6 U	1.5 U	1.7 U	1.7 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		0.41 U	0.12 J	0.4 U	0.29 J	0.41 U	0.11 J	0.013 J	0.42 U	0.27 J	0.42 U
Phenol	400	190000	190000	180000	0.41 U	0.49 U	0.4 U	0.42 U	0.41 U	0.38 U	0.42 U	0.42 U	0.4 U	0.42 U
Pyrene	2200	84000	190000	17000	0.41 U	0.74	0.4 U	0.47	0.41 U	0.13 J	0.026 J	0.42 U	0.43	0.42 U
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound														
1,1-Dichloroethene	0.7	33	38	1100	0.002 mg/l U			0.002 mg/l U						
1,2-Dichloroethane	0.5	63	73	2.2	0.002 mg/l U			0.002 mg/l U						
2-Butanone	580	10000	10000	190000	0.005 mg/l U			0.005 mg/l U						

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-016 10 - 12 2/11/2004	BPA-SB-017 0 - 2 2/4/2004	BPA-SB-017 5 - 7 2/4/2004	BPA-SB-018 0 - 2 2/4/2004	BPA-SB-018 5 - 7 2/4/2004	*BPA-SB-019 0 - 2 2/3/2004	*BPA-SB-019 2 - 4 2/4/2004	BPA-SB-019 5 - 7 2/4/2004	BPA-SB-020 0 - 2 2/12/2004	BPA-SB-020 5 - 7 2/12/2004
Benzene	0.5	210	240	5.6	0.001 mg/l U			0.001 mg/l U						
Carbon Tetrachloride	0.5	110	120	1.3	0.002 mg/l U			0.002 mg/l U						
Chlorobenzene	10	10000	10000	1500	0.005 mg/l U			0.005 mg/l U						
Chloroform	10	17	19	1.5	0.005 mg/l U			0.005 mg/l U						
Tetrachloroethene	0.5	1500	3300	2.7	0.001 mg/l U			0.032 mg/l						
Trichloroethene	0.5	970	1100	14	0.001 mg/l U			0.013 mg/l						
Vinyl Chloride	0.2	53	220	1.7	0.005 mg/l U			0.005 mg/l U						
Total Solids														
Percent Solids														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.53 U	0.0018 J	0.0051 U	8.9	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.11 U	0.0015 U	0.001 U	0.57 U	0.11 U	0.0009 U	0.0011 U	0.0012 U	0.001 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.32 U	0.0046 U	0.003 U	1.7 U	0.34 U	0.0028 U	0.0032 U	0.0036 U	0.0028 U	0.0032 U
1,1-Dichloroethane	11	1000	1200	17	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0011 J	0.006 U	0.0048 U	0.0053 U
1,1-Dichloroethene	0.7	33	38	1100	0.21 U	0.0031 U	0.002 U	1.1 U	0.22 U	0.0018 U	0.0021 U	0.0024 U	0.0019 U	0.0021 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.21 U	0.0031 U	0.002 U	1.1 U	0.22 U	0.0018 U	0.0021 U	0.0024 U	0.0019 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	0.11 U	0.0015 U	0.001 U	0.57 U	0.11 U	0.0009 U	0.0011 U	0.0012 U	0.001 U	0.001 U
1,4-Dioxane	2.4	210	240	160	110 U	1.5 U	1 U	570 U	110 U	0.92 U	1.1 U	1.2 U	0.95 U	1 U
2-Butanone	580	10000	10000	190000	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0049	0.0054 U	0.006 U	0.0048 U	0.0053 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Acetone	1000	10000	10000	610000	0.53 U	0.14	0.027	2.8 U	0.56 U	0.053	0.0054 U	0.04	0.049	0.053
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	5.3 U	0.077 U	0.051 U	28 U	5.6 U	0.046 U	0.054 U	0.06 U	0.048 U	0.053 U
Benzene	0.5	210	240	5.6	0.11 U	0.0015 J	0.001 U	0.57 U	0.11 U	0.0009 U	0.0011 U	0.0012 U	0.001 U	0.001 U
Bromochloromethane	9	10000	10000		0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.11 U	0.0015 U	0.001 U	0.57 U	0.11 U	0.0009 U	0.0011 U	0.0012 U	0.001 U	0.001 U
Bromoform	10	1500	1700	220	0.43 U	0.0062 U	0.004 U	2.3 U	0.45 U	0.0037 U	0.0043 U	0.0048 U	0.0038 U	0.0042 U
Bromomethane	1	270	300	35	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.21 U	0.0031 U	0.002 U	1.1 U	0.22 U	0.0018 U	0.0021 U	0.0024 U	0.0019 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Chloroform	10	17	19	1.5	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.3 J	0.0077 U	0.0005 J	2.8 U	0.56 U	0.0031 J	0.0012 J	0.006 U	0.0048 U	0.0053 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.43 U	0.0062 U	0.004 U	2.3 U	0.45 U	0.0037 U	0.0043 U	0.0048 U	0.0038 U	0.0042 U
Methyl tert-butyl ether	2	3200	3700	190	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.32 U	0.0046 U	0.003 U	1.7 U	0.34 U	0.0028 U	0.0032 U	0.0036 U	0.0028 U	0.0032 U
Styrene	24	10000	10000	38000	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	1.3	0.014	0.015	83	1	0.0005 J	0.023	0.0047	0.001 U	0.001 U
Toluene	100	10000	10000	46000	0.53 U	0.0015 J	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.28	0.012	0.0083	20	0.11 U	0.0056	0.0062	0.0008 J	0.0015	0.001 J
Vinyl Chloride	0.2	53	220	1.7	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	BPA-SB-016 10 - 12 2/11/2004	BPA-SB-017 0 - 2 2/4/2004	BPA-SB-017 5 - 7 2/4/2004	BPA-SB-018 0 - 2 2/4/2004	BPA-SB-018 5 - 7 2/4/2004	*BPA-SB-019 0 - 2 2/3/2004	*BPA-SB-019 2 - 4 2/4/2004	BPA-SB-019 5 - 7 2/4/2004	BPA-SB-020 0 - 2 2/12/2004	BPA-SB-020 5 - 7 2/12/2004
Xylenes (Total)	1000	10000	10000	2600	0.53 U	0.0077 U	0.0051 U	2.8 U	0.56 U	0.0046 U	0.0054 U	0.006 U	0.0048 U	0.0053 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-020 Dup 5 - 7 2/12/2004	BPA-SB-021 0 - 2 2/10/2004	BPA-SB-021 4 - 6 2/10/2004	BPA-SB-021 6 - 8 2/10/2004	BPA-SB-021 Dup 6 - 8 2/10/2004	BPA-SB-022 0 - 2 2/10/2004	BPA-SB-022 6 - 8 2/10/2004	BPA-SB-023 0 - 2 2/10/2004	BPA-SB-023 4 - 6 2/10/2004	BPA-SB-023 6 - 8 2/10/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.021 U	0.1	0.02 U	0.021 U	0.021 U	0.06	0.021 U	0.02 U	0.02 U	0.021 U
Metal														
Antimony	27	1100	190000	410	0.74 U	0.73 U	0.68 U	0.73 U	0.73 U	0.79 B	0.74 U	0.69 U	0.68 U	0.73 U
Arsenic	150	53	190000	1.6	5.9	4.8	4.9	3.9	4.7	5	4.1	4.2	2	6.3
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.65	0.54	0.57	0.77	0.78	0.5	0.74	0.62	0.36	0.71
Cadmium	38	210	190000	800	0.051 U	0.39 B	0.047 U	0.05 U	0.05 U	1.8	0.051 U	0.3 B	0.047 U	0.05 U
Chromium				1400	23.6	21.1	13.6	16.4	18.1	31.2	17.4	21.1	8.6	22.8
Copper	36000	100000	190000	41000	17.9	25.9	7.3	10.5	11.1	70.3	10.8	20	3.3	18.1
Lead	450	1000	190000	800	12.8	37.5	9.7	13.4	14.5	65.7	13.2	28.9	9.6	13.7
Nickel	650	56000	190000	20000	14.5	10.2	6.9	11	11.6	16.6	10.8	9.4	3.8 B	13.2
Selenium	26	14000	190000	5100	0.54 U	0.53 U	0.49 U	0.53 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.53 U
Silver	84	14000	190000	5100	0.18 U	0.18 U	0.16 U	0.18 U	0.18 U	0.26 B	0.18 U	0.17 U	0.16 U	0.18 U
Thallium	14	200	190000	66	0.6 U	0.59 U	0.55 U	0.59 U	0.59 U	0.58 U	0.6 U	0.56 U	0.55 U	0.59 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	50.2	95.6	24.3	44.1	46.2	169	40.9	85.9	10.8	47.2
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.086 U	0.085 U	0.079 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.079 U	0.084 U
Arochlor-1221	2.5	160	10000	0.62	0.086 U	0.085 U	0.079 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.079 U	0.084 U
Arochlor-1232	2	160	10000	0.62	0.086 U	0.085 U	0.079 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.079 U	0.084 U
Arochlor-1242	62	160	10000	0.74	0.086 U	0.085 U	0.079 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.079 U	0.084 U
Arochlor-1248	67	44	10000	0.74	0.086 U	0.085 U	0.079 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.079 U	0.084 U
Arochlor-1254	280	44	10000	0.74	0.086 U	1.9	0.079 U	0.084 U	0.084 U	0.59	0.085 U	0.53	0.079 U	0.084 U
Arochlor-1260	1900	130	190000	0.74	0.086 U	0.085 U	0.079 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.079 U	0.084 U
PCBs (Total)				0.74	0.086 U	1.9	0.079 U	0.084 U	0.084 U	0.59	0.085 U	0.53	0.079 U	0.084 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.084 U	0.078 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.078 U	0.084 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.084 U	0.078 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.078 U	0.084 U
2-Chloronaphthalene	18000	190000	190000	82000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.43 U	0.058 J	0.39 U	0.42 U	0.42 U	0.031 J	0.42 U	0.059 J	0.39 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	0.84 U	0.78 U	0.84 U	0.84 U	0.82 U	0.85 U	0.8 U	0.78 U	0.84 U
2-Nitrophenol	82	22000	190000		0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	0.84 U	0.78 U	0.84 U	0.84 U	0.82 U	0.85 U	0.8 U	0.78 U	0.84 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-020 Dup 5 - 7 2/12/2004	BPA-SB-021 0 - 2 2/10/2004	BPA-SB-021 4 - 6 2/10/2004	BPA-SB-021 6 - 8 2/10/2004	BPA-SB-021 Dup 6 - 8 2/10/2004	BPA-SB-022 0 - 2 2/10/2004	BPA-SB-022 6 - 8 2/10/2004	BPA-SB-023 0 - 2 2/10/2004	BPA-SB-023 4 - 6 2/10/2004	BPA-SB-023 6 - 8 2/10/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.85 U	0.84 U	0.78 U	0.84 U	0.84 U	0.82 U	0.85 U	0.8 U	0.78 U	0.84 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
4-Bromophenyl phenyl ether					0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
4-Chlorodiphenyl Ether					0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	0.84 U	0.78 U	0.84 U	0.84 U	0.82 U	0.85 U	0.8 U	0.78 U	0.84 U
4-Nitrophenol	6	22000	190000		1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.43 U	0.013 J	0.39 U	0.42 U	0.42 U	0.032 J	0.42 U	0.06 J	0.39 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.43 U	0.051 J	0.39 U	0.42 U	0.42 U	0.031 J	0.42 U	0.046 J	0.39 U	0.42 U
Anthracene	350	190000	190000	170000	0.43 U	0.068 J	0.39 U	0.42 U	0.42 U	0.08 J	0.42 U	0.13 J	0.39 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.043 U	0.2	0.039 U	0.042 U	0.042 U	0.24	0.042 U	0.3	0.039 U	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.043 U	0.22	0.011 J	0.042 U	0.042 U	0.29	0.042 U	0.29	0.039 U	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.043 U	0.21	0.013 J	0.0084 J	0.042 U	0.28	0.042 U	0.27	0.039 U	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.43 U	0.16 J	0.39 U	0.42 U	0.42 U	0.2 J	0.42 U	0.17 J	0.39 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.043 U	0.28	0.013 J	0.042 U	0.042 U	0.32	0.042 U	0.35	0.039 U	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.43 U	0.085 J	0.22 J	0.42 U	0.12 J	0.41 U	0.42 U	0.081 J	0.39 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Carbazole	83	4000	190000		0.43 U	0.022 J	0.39 U	0.42 U	0.42 U	0.031 J	0.42 U	0.052 J	0.39 U	0.42 U
Chrysene	230	11000	190000	210	0.43 U	0.27 J	0.39 U	0.019 J	0.021 J	0.28 J	0.019 J	0.36 J	0.39 U	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
Dibenzofuran					0.43 U	0.022 J	0.39 U	0.42 U	0.42 U	0.021 J	0.42 U	0.041 J	0.39 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Dimethylphthalate					0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.43 U	0.34 J	0.013 J	0.018 J	0.012 J	0.43	0.016 J	0.58	0.39 U	0.42 U
Fluorene	3800	110000	190000	22000	0.43 U	0.011 J	0.39 U	0.42 U	0.42 U	0.023 J	0.42 U	0.048 J	0.39 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.084 U	0.078 U	0.084 U	0.084 U	0.082 U	0.085 U	0.08 U	0.078 U	0.084 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.043 U	0.15	0.039 U	0.042 U	0.042 U	0.18	0.042 U	0.17	0.039 U	0.042 U
Isophorone	10	10000	10000	1800	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Naphthalene	25	56000	190000	20	0.43 U	0.046 J	0.39 U	0.42 U	0.42 U	0.032 J	0.42 U	0.059 J	0.39 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.043 U	0.042 U	0.039 U	0.042 U	0.042 U	0.041 U	0.042 U	0.04 U	0.039 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		0.43 U	0.17 J	0.013 J	0.014 J	0.014 J	0.25 J	0.011 J	0.46	0.39 U	0.42 U
Phenol	400	190000	190000	180000	0.43 U	0.42 U	0.39 U	0.42 U	0.42 U	0.41 U	0.42 U	0.4 U	0.39 U	0.42 U
Pyrene	2200	84000	190000	17000	0.43 U	0.36 J	0.016 J	0.019 J	0.016 J	0.39 J	0.014 J	0.57	0.39 U	0.0093 J
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										

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-020 Dup 5 - 7 2/12/2004	BPA-SB-021 0 - 2 2/10/2004	BPA-SB-021 4 - 6 2/10/2004	BPA-SB-021 6 - 8 2/10/2004	BPA-SB-021 Dup 6 - 8 2/10/2004	BPA-SB-022 0 - 2 2/10/2004	BPA-SB-022 6 - 8 2/10/2004	BPA-SB-023 0 - 2 2/10/2004	BPA-SB-023 4 - 6 2/10/2004	BPA-SB-023 6 - 8 2/10/2004
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														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0009 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	0.0033 U	0.003 U	0.0032 U	0.0031 U	0.003 U	0.0033 U	0.0029 U	0.0028 U	0.0032 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.0022 U	0.002 U	0.0021 U	0.0021 U	0.002 U	0.0022 U	0.0019 U	0.0019 U	0.0021 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.0022 U	0.002 U	0.0021 U	0.0021 U	0.002 U	0.0022 U	0.0019 U	0.0019 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0009 U	0.001 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1.1 U	0.99 U	1 U	1 U	1 U	1.1 U	0.97 U	0.94 U	1 U
2-Butanone	580	10000	10000	190000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0048 J	0.005 U	0.0055 U	0.0049	0.0041 J	0.0051 J
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Acetone	1000	10000	10000	610000	0.056	0.06	0.033	0.032	0.033	0.031	0.0055 U	0.04	0.03	0.036
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.054 U	0.055 U	0.05 U	0.052 U	0.052 U	0.05 U	0.055 U	0.049 U	0.047 U	0.053 U
Benzene	0.5	210	240	5.6	0.0011 U	0.0014	0.0016	0.001 U	0.001 U	0.001 U	0.0011 U	0.0016	0.0009 U	0.001 U
Bromochloromethane	9	10000	10000		0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0009 U	0.001 U
Bromoform	10	1500	1700	220	0.0043 U	0.0044 U	0.004 U	0.0042 U	0.0041 U	0.004 U	0.0044 U	0.0039 U	0.0038 U	0.0042 U
Bromomethane	1	270	300	35	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.0022 U	0.002 U	0.0021 U	0.0021 U	0.002 U	0.0022 U	0.0019 U	0.0019 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Chloroform	10	17	19	1.5	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.0043 U	0.0044 U	0.004 U	0.0042 U	0.0041 U	0.004 U	0.0044 U	0.0039 U	0.0038 U	0.0042 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.0032 U	0.0033 U	0.003 U	0.0032 U	0.0031 U	0.003 U	0.0033 U	0.0029 U	0.0028 U	0.0032 U
Styrene	24	10000	10000	38000	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.0011 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0009 U	0.001 U
Toluene	100	10000	10000	46000	0.0054 U	0.0017 J	0.0015 J	0.0015 J	0.0052 U	0.0012 J	0.0014 J	0.0026 J	0.001 J	0.0011 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.0008 J	0.011	0.013	0.012	0.011	0.16	0.01	0.0055	0.02	0.018
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0049 U	0.0047 U	0.0053 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-020 Dup 5 - 7 2/12/2004	BPA-SB-021 0 - 2 2/10/2004	BPA-SB-021 4 - 6 2/10/2004	BPA-SB-021 6 - 8 2/10/2004	BPA-SB-021 Dup 6 - 8 2/10/2004	BPA-SB-022 0 - 2 2/10/2004	BPA-SB-022 6 - 8 2/10/2004	BPA-SB-023 0 - 2 2/10/2004	BPA-SB-023 4 - 6 2/10/2004	BPA-SB-023 6 - 8 2/10/2004
Xylenes (Total)	1000	10000	10000	2600	0.0054 U	0.0055 U	0.005 U	0.0052 U	0.0052 U	0.005 U	0.0055 U	0.0015 J	0.0047 U	0.0053 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-024 0 - 2 2/5/2004	BPA-SB-024 2 - 4 2/5/2004	BPA-SB-024 7 - 9 2/5/2004	BPA-SB-025 0 - 2 2/5/2004	BPA-SB-025 7 - 9 2/5/2004	*BPA-SB-026 0 - 2 2/4/2004	BPA-SB-026 2 - 4 2/4/2004	*BPA-SB-027 0 - 2 2/4/2004	BPA-SB-027 2 - 4 2/5/2004	BPA-SB-028 0 - 2 2/5/2004	BPA-SB-028 4 - 6 2/5/2004
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.06	0.06	0.021 U	0.06	0.021 U	0.06	0.021 U	0.15	0.02 U	0.03 B	0.25
Metal															
Antimony	27	1100	190000	410	0.46 B	0.45 U	0.49 U	0.53 B	0.49 U	0.91 U	0.96 U	0.94 U	0.47 U	0.5 B	0.92 U
Arsenic	150	53	190000	1.6	5.9	5.2	4.4	4.8	7.7	8.5	4.2 B	5.8 B	3.1	5.7	6.3
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.55	0.55	0.75	0.49	0.69	0.65	0.5	0.58	0.34	0.55	0.22 B
Cadmium	38	210	190000	800	0.72	0.12 B	0.05 U	0.78	0.09 B	0.36 B	0.099 U	0.29 B	0.048 U	0.5 B	1.8
Chromium				1400	24.1	14.3	18.3	23	27.9	21.8	11.2	49.5	12	20.4	111
Copper	36000	100000	190000	41000	34.9	12.3	11.2	30	22.9	421	6 B	92.4	5.6	20.3	166
Lead	450	1000	190000	800	39.7	13.1	10.8	39.7	12.1	50	9.9	37.1	9.4	27.4	46
Nickel	650	56000	190000	20000	9.9	7.2	11.8	9.2	15.9	23.8	6.7 B	55.7	5.8	10.5	41
Selenium	26	14000	190000	5100	0.46 U	0.45 U	0.49 U	0.46 U	0.49 U	0.91 U	0.96 U	1.2 B	0.47 U	0.45 U	0.92 U
Silver	84	14000	190000	5100	0.44 B	0.081 U	0.087 U	0.27 B	0.088 U	0.39 B	0.17 U	0.17 U	0.085 U	0.08 U	0.083 U
Thallium	14	200	190000	66	0.52 U	0.51 U	0.55 U	0.51 U	0.56 U	1 U	1.1 U	1.1 U	0.53 U	0.5 U	1 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	92.4	37.6	39.2	98.2	48.5	135	15.1	76.7	8.9	85.2	94.6
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.08 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.081 U	0.076 U	0.079 U
Arochlor-1221	2.5	160	10000	0.62	0.08 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.081 U	0.076 U	0.079 U
Arochlor-1232	2	160	10000	0.62	0.08 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.081 U	0.076 U	0.079 U
Arochlor-1242	62	160	10000	0.74	0.08 U	0.04 J	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.081 U	0.076 U	0.079 U
Arochlor-1248	67	44	10000	0.74	0.08 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.081 U	0.076 U	0.079 U
Arochlor-1254	280	44	10000	0.74	0.45	0.051 J	0.083 U	1.1	0.084 U	0.078 U	0.082 U	0.081 U	0.081 U	0.36	0.079 U
Arochlor-1260	1900	130	190000	0.74	0.15	0.077 U	0.083 U	0.078 U	0.084 U	0.039 J	0.082 U	0.081 U	0.081 U	0.076 U	0.079 U
PCBs (Total)				0.74	0.6	0.091	0.083 U	1.1	0.084 U	0.039 J	0.082 U	0.081 U	0.081 U	0.36	0.079 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.04 U	0.038 U	0.042 U	0.039 U	0.042 U	0.039 U	0.041 U	0.04 U	0.04 U	0.038 U	0.2 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
1,3-Dichlorobenzene	61	10000	10000		0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
1,4-Dichlorobenzene	10	3300	190000	13	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2,4-Dichlorophenol	2	8400	190000	1800	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2,4-Dimethylphenol	200	10000	10000	12000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	7.9 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.079 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.08 U	0.076 U	0.39 U
2,6-Dinitrotoluene	10	2800	190000	620	0.079 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.08 U	0.076 U	0.39 U
2-Chloronaphthalene	18000	190000	190000	82000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2-Chlorophenol	4.4	920	1100	5100	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2-Methylnaphthalene	8000	10000	10000	4100	0.053 J	0.38 U	0.42 U	0.021 J	0.42 U	0.032 J	0.41 U	0.4 U	0.4 U	0.051 J	0.28 J
2-Methylphenol	510	10000	10000	31000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
2-Nitroaniline	0.58	160	190000	1800	0.79 U	0.77 U	0.83 U	0.78 U	0.84 U	0.78 U	0.82 U	0.81 U	0.8 U	0.76 U	3.9 U
2-Nitrophenol	82	22000	190000		0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.79 U	0.77 U	0.83 U	0.78 U	0.84 U	0.78 U	0.82 U	0.81 U	0.8 U	0.76 U	3.9 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-024 0 - 2 2/5/2004	BPA-SB-024 2 - 4 2/5/2004	BPA-SB-024 7 - 9 2/5/2004	BPA-SB-025 0 - 2 2/5/2004	BPA-SB-025 7 - 9 2/5/2004	*BPA-SB-026 0 - 2 2/4/2004	BPA-SB-026 2 - 4 2/4/2004	*BPA-SB-027 0 - 2 2/4/2004	BPA-SB-027 2 - 4 2/5/2004	BPA-SB-028 0 - 2 2/5/2004	BPA-SB-028 4 - 6 2/5/2004
3/4-Methylphenol				5100											
3-Nitroaniline	0.58	160	190000		0.79 U	0.77 U	0.83 U	0.78 U	0.84 U	0.78 U	0.82 U	0.81 U	0.8 U	0.76 U	3.9 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.5 U	7.9 U
4-Bromophenyl phenyl ether					0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
4-Chloroaniline	52	11000	190000	8.6	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
4-Chlorodiphenyl Ether					0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
4-METHYLPHENOL	51	14000	190000	3100	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
4-Nitroaniline	0.58	160	190000	86	0.79 U	0.77 U	0.83 U	0.78 U	0.84 U	0.78 U	0.82 U	0.81 U	0.8 U	0.76 U	3.9 U
4-Nitrophenol	6	22000	190000		1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	0.032 J	1.5 U	7.9 U
Acenaphthene	4700	170000	190000	33000	0.055 J	0.015 J	0.42 U	0.021 J	0.42 U	0.013 J	0.41 U	0.028 J	0.4 U	0.017 J	0.91 J
Acenaphthylene	6900	170000	190000	33000	0.1 J	0.022 J	0.42 U	0.045 J	0.42 U	0.13 J	0.41 U	0.058 J	0.4 U	0.036 J	0.78 J
Anthracene	350	190000	190000	170000	0.23 J	0.046 J	0.42 U	0.095 J	0.42 U	0.17 J	0.41 U	0.094 J	0.4 U	0.046 J	2.8
Benzo (A) Anthracene	320	110	190000	2.1	0.43	0.19	0.042 U	0.29	0.042 U	1.2	0.041 U	0.34	0.04 U	0.12	8.6
Benzo (a) Pyrene	46	11	190000	0.21	0.47	0.22	0.042 U	0.27	0.042 U	1.2	0.041 U	0.37	0.04 U	0.12	9.2
Benzo (b) Fluoranthene	170	110	190000	2.1	0.47	0.21	0.042 U	0.27	0.042 U	0.86	0.041 U	0.26	0.04 U	0.13	9.3
Benzo (g,h,i) Perylene	180	170000	190000		0.39 J	0.31 J	0.42 U	0.17 J	0.42 U	0.72	0.41 U	0.27 J	0.4 U	0.061 J	6.3
Benzo (k) Fluoranthene	610	1100	190000	21	0.61	0.24	0.042 U	0.34	0.042 U	1.6	0.041 U	0.47	0.04 U	0.16	10
Bis(2-Chloroethoxy) Methane				1800	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.04 U	0.038 U	0.042 U	0.039 U	0.042 U	0.039 U	0.041 U	0.04 U	0.04 U	0.038 U	0.2 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.15 J	0.089 J	0.42 U	0.084 J	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.082 J	0.49 J
Butylbenzylphthalate	10000	10000	10000	910	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Carbazole	83	4000	190000		0.091 J	0.045 J	0.42 U	0.038 J	0.42 U	0.018 J	0.41 U	0.038 J	0.4 U	0.02 J	1.9 J
Chrysene	230	11000	190000	210	0.57	0.24 J	0.42 U	0.39	0.42 U	1.3	0.41 U	0.42	0.0095 J	0.16 J	10
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.11	0.064	0.042 U	0.044	0.042 U	0.29	0.041 U	0.087	0.04 U	0.038 U	1.7
Dibenzofuran					0.034 J	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	0.84 J
Diethylphthalate	500	10000	10000	490000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Dimethylphthalate					0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Di-n-octylphthalate	10000	10000	10000		0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Fluoranthene	3200	110000	190000	22000	0.81	0.43	0.42 U	0.75	0.42 U	1.9	0.41 U	0.7	0.014 J	0.23 J	21
Fluorene	3800	110000	190000	22000	0.051 J	0.014 J	0.42 U	0.017 J	0.42 U	0.011 J	0.41 U	0.032 J	0.4 U	0.38 U	1 J
Hexachlorobenzene	0.96	50	190000	1.1	0.04 U	0.038 U	0.042 U	0.039 U	0.042 U	0.039 U	0.041 U	0.04 U	0.04 U	0.038 U	0.2 U
Hexachlorobutadiene	1.2	560	10000	22	0.079 U	0.077 U	0.083 U	0.078 U	0.084 U	0.078 U	0.082 U	0.081 U	0.08 U	0.076 U	0.39 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Hexachloroethane	0.56	2800	190000	120	0.04 U	0.038 U	0.042 U	0.039 U	0.042 U	0.039 U	0.041 U	0.04 U	0.04 U	0.038 U	0.2 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.34	0.25	0.042 U	0.18	0.042 U	0.71	0.041 U	0.22	0.04 U	0.065	5.7
Isophorone	10	10000	10000	1800	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Naphthalene	25	56000	190000	20	0.044 J	0.38 U	0.42 U	0.017 J	0.42 U	0.028 J	0.41 U	0.017 J	0.4 U	0.036 J	0.49 J
Nitrobenzene	5.1	1400	10000	22	0.04 U	0.038 U	0.042 U	0.039 U	0.042 U	0.039 U	0.041 U	0.04 U	0.04 U	0.038 U	0.2 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.04 U	0.038 U	0.042 U	0.039 U	0.042 U	0.039 U	0.041 U	0.04 U	0.04 U	0.038 U	0.2 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Pentachlorophenol	5	660	190000	9	1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	0.12 J	1.5 U	7.9 U
Phenanthrene	10000	190000	190000		0.47	0.26 J	0.42 U	0.25 J	0.42 U	0.28 J	0.41 U	0.43	0.4 U	0.12 J	14
Phenol	400	190000	190000	180000	0.4 U	0.38 U	0.42 U	0.39 U	0.42 U	0.39 U	0.41 U	0.4 U	0.4 U	0.38 U	2 U
Pyrene	2200	84000	190000	17000	0.75	0.36 J	0.42 U	0.74	0.42 U	1.7	0.41 U	0.66	0.013 J	0.23 J	18
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											

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-024 0 - 2 2/5/2004	BPA-SB-024 2 - 4 2/5/2004	BPA-SB-024 7 - 9 2/5/2004	BPA-SB-025 0 - 2 2/5/2004	BPA-SB-025 7 - 9 2/5/2004	*BPA-SB-026 0 - 2 2/4/2004	BPA-SB-026 2 - 4 2/4/2004	*BPA-SB-027 0 - 2 2/4/2004	BPA-SB-027 2 - 4 2/5/2004	BPA-SB-028 0 - 2 2/5/2004	BPA-SB-028 4 - 6 2/5/2004
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															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.0004 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.1 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0031 U	0.3 U	0.0036 U	0.0031 U	0.0038 U	0.0029 U	0.0029 U	0.0004 J	0.003 U	0.0031 U	0.003 U
1,1-Dichloroethane	11	1000	1200	17	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.2 U	0.0024 U	0.002 U	0.0025 U	0.0019 U	0.0019 U	0.0021 U	0.002 U	0.0021 U	0.002 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.2 U	0.0024 U	0.002 U	0.0025 U	0.0019 U	0.0019 U	0.0021 U	0.002 U	0.0021 U	0.002 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.1 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dioxane	2.4	210	240	160	1 U	100 U	1.2 U	1 U	1.2 U	0.96 U	0.97 U	1 U	0.99 U	1 U	1 U
2-Butanone	580	10000	10000	190000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Acetone	1000	10000	10000	610000	0.044	0.5 U	0.096	0.074	0.074	0.029	0.03	0.039	0.0049 U	0.04	0.027
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	0.052 U	5 U	0.06 U	0.051 U	0.063 U	0.048 U	0.049 U	0.052 U	0.049 U	0.052 U	0.05 U
Benzene	0.5	210	240	5.6	0.001 U	0.1 U	0.0012 U	0.0009 J	0.0012 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromochloromethane	9	10000	10000		0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.1 U	0.0012 U	0.001 U	0.0012 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	10	1500	1700	220	0.0042 U	0.4 U	0.0048 U	0.0041 U	0.005 U	0.0039 U	0.0039 U	0.0042 U	0.004 U	0.0041 U	0.004 U
Bromomethane	1	270	300	35	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Carbon Disulfide	410	10000	10000	3000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.2 U	0.0024 U	0.002 U	0.0025 U	0.0019 U	0.0019 U	0.0021 U	0.002 U	0.0021 U	0.002 U
Chlorobenzene	10	10000	10000	1500	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Chlorodibromomethane	10	61	70	3.4	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Chloroethane	90	10000	10000	62000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Chloroform	10	17	19	1.5	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Chloromethane	0.3	920	1000	510	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0019 J	0.0049 U	0.0052 U	0.005 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Ethylbenzene	70	10000	10000	29	0.0042 U	0.4 U	0.001 J	0.0007 J	0.0005 J	0.0039 U	0.0039 U	0.0042 U	0.0006 J	0.0041 U	0.004 U
Methyl tert-butyl ether	2	3200	3700	190	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Methylene chloride	0.5	3500	4000	54	0.0031 U	0.3 U	0.0036 U	0.0031 U	0.0038 U	0.0003 JB	0.0004 JB	0.0005 JB	0.003 U	0.0031 U	0.003 U
Styrene	24	10000	10000	38000	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Tetrachloroethene	0.5	1500	3300	2.7	0.001 U	0.1 U	0.0007 J	0.001 U	0.0012 U	0.0004 J	0.0008 J	0.004	0.0016	0.001 U	0.0004 J
Toluene	100	10000	10000	46000	0.0052 U	0.5 U	0.006 U	0.0006 J	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U
Trichloroethene	0.5	970	1100	14	0.032	8.2	0.18	0.035	0.022	0.012	0.0091	0.078	0.0074	0.0012	0.0038
Vinyl Chloride	0.2	53	220	1.7	0.0052 U	0.5 U	0.006 U	0.0051 U	0.0063 U	0.0048 U	0.0049 U	0.0052 U	0.0049 U	0.0052 U	0.005 U

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

Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-024 0 - 2 2/5/2004	BPA-SB-024 2 - 4 2/5/2004	BPA-SB-024 7 - 9 2/5/2004	BPA-SB-025 0 - 2 2/5/2004	BPA-SB-025 7 - 9 2/5/2004	*BPA-SB-026 0 - 2 2/4/2004	BPA-SB-026 2 - 4 2/4/2004	*BPA-SB-027 0 - 2 2/4/2004	BPA-SB-027 2 - 4 2/5/2004	BPA-SB-028 0 - 2 2/5/2004	BPA-SB-028 4 - 6 2/5/2004
Xylenes (Total)	1000	10000	10000	2600	0.0052 U	0.5 U	0.0034 J	0.0024 J	0.0015 J	0.0048 U	0.0049 U	0.0052 U	0.002 J	0.0052 U	0.005 U

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

Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-028 6 - 8 2/5/2004	*BPA-SB-029 0 - 2 2/5/2004	BPA-SB-029 5 - 7 2/5/2004	BPA-SB-029 8 - 10 2/5/2004	*BPA-SB-030 0 - 2 2/5/2004	BPA-SB-030 5 - 7 2/5/2004	BPA-SB-030 10 - 12 2/5/2004	BPA-SB-030 Dup 10 - 12 2/5/2004	BPA-SB-031 0 - 2 2/6/2004	BPA-SB-031 4 - 6 2/6/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.03 B	0.05	0.02 U	0.021 U	0.05	0.16	0.021 U	0.021 U	0.06	0.02 B
Metal														
Antimony	27	1100	190000	410	0.5 U	0.45 U	0.46 U	0.5 U	0.46 U	0.56 U	0.49 U	0.49 U	0.45 U	0.46 U
Arsenic	150	53	190000	1.6	5.5	5.5	5	6.4	4.5	46.9	6.8	5.8	4.5	3.6
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.48	0.56	0.53	0.6	0.47	0.54	0.62	0.57	0.51	0.46
Cadmium	38	210	190000	800	0.05 B	0.77	0.047 U	0.11 B	1	6.7	0.11 B	0.1 B	1.6	0.047 U
Chromium				1400	18.1	26.7	10.3	27.2	30.1	91	26.7	20.6	29.1	10.1
Copper	36000	100000	190000	41000	11.9	65.5	6.5	23.6	62.8	55.5	23.7	21.4	33.2	4.8
Lead	450	1000	190000	800	13.6	44.8	19.7	12.1	35.7	85.7	12.4	11.7	40.6	9.2
Nickel	650	56000	190000	20000	9.3	17	5.9	16.5	15.6	11.6	15.3	14.7	9	8.5
Selenium	26	14000	190000	5100	0.5 U	0.45 U	0.46 U	0.66	0.46 U	3.9	0.51 B	0.49 U	0.45 U	0.47 B
Silver	84	14000	190000	5100	0.089 U	0.35 B	1.1 B	0.96 B	0.81 B	1.1 B	0.1 B	0.088 U	0.081 U	0.082 U
Thallium	14	200	190000	66	0.56 U	0.51 U	0.52 U	0.56 U	0.52 U	0.63 U	0.56 U	0.55 U	0.51 U	0.52 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	32.8	121	33.3	51.5	83.4	165	48.4	45.2	68	11.8
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.085 U	0.077 U	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.078 U	0.079 U
Arochlor-1221	2.5	160	10000	0.62	0.085 U	0.077 U	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.078 U	0.079 U
Arochlor-1232	2	160	10000	0.62	0.085 U	0.077 U	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.078 U	0.079 U
Arochlor-1242	62	160	10000	0.74	0.085 U	0.077 U	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.078 U	0.079 U
Arochlor-1248	67	44	10000	0.74	0.085 U	0.077 U	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.078 U	0.079 U
Arochlor-1254	280	44	10000	0.74	0.085 U	0.56	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.078 U	0.079 U
Arochlor-1260	1900	130	190000	0.74	0.085 U	0.17	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.032 J	0.079 U
PCBs (Total)				0.74	0.085 U	0.73	0.079 U	0.086 U	0.079 U	0.096 U	0.085 U	0.084 U	0.032 J	0.079 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.77 U	0.04 U	0.042 U	0.039 U	0.048 U	0.042 U	0.042 U	0.039 U	0.039 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	7.7 U	0.4 U	0.42 U	0.12 J	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	7.7 U	0.4 U	0.42 U	0.12 J	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	31 U	1.6 U	1.7 U	1.6 U	1.9 U	1.7 U	1.7 U	1.6 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	1.5 U	0.079 U	0.085 U	0.079 U	0.095 U	0.084 U	0.084 U	0.078 U	0.078 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	1.5 U	0.079 U	0.085 U	0.079 U	0.095 U	0.084 U	0.084 U	0.078 U	0.078 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2-Methylnaphthalene	8000	10000	10000	4100	0.02 J	1.7 J	0.4 U	0.42 U	0.063 J	0.55	0.42 U	0.42 U	0.39 U	0.39 U
2-Methylphenol	510	10000	10000	31000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	15 U	0.79 U	0.85 U	0.79 U	0.95 U	0.84 U	0.84 U	0.78 U	0.78 U
2-Nitrophenol	82	22000	190000		0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	15 U	0.79 U	0.85 U	0.79 U	0.95 U	0.84 U	0.84 U	0.78 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-028 6 - 8 2/5/2004	*BPA-SB-029 0 - 2 2/5/2004	BPA-SB-029 5 - 7 2/5/2004	BPA-SB-029 8 - 10 2/5/2004	*BPA-SB-030 0 - 2 2/5/2004	BPA-SB-030 5 - 7 2/5/2004	BPA-SB-030 10 - 12 2/5/2004	BPA-SB-030 Dup 10 - 12 2/5/2004	BPA-SB-031 0 - 2 2/6/2004	BPA-SB-031 4 - 6 2/6/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.85 U	15 U	0.79 U	0.85 U	0.79 U	0.95 U	0.84 U	0.84 U	0.78 U	0.78 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	31 U	1.6 U	1.7 U	1.6 U	1.9 U	1.7 U	1.7 U	1.6 U	1.6 U
4-Bromophenyl phenyl ether					0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
4-Chlorodiphenyl Ether					0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	15 U	0.79 U	0.85 U	0.79 U	0.95 U	0.84 U	0.84 U	0.78 U	0.78 U
4-Nitrophenol	6	22000	190000		1.7 U	31 U	1.6 U	1.7 U	1.6 U	1.9 U	1.7 U	1.7 U	1.6 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.029 J	10	0.4 U	0.42 U	0.2 J	0.034 J	0.42 U	0.42 U	0.011 J	0.39 U
Acenaphthylene	6900	170000	190000	33000	0.094 J	7.7 U	0.4 U	0.42 U	0.12 J	0.039 J	0.42 U	0.42 U	0.39 U	0.39 U
Anthracene	350	190000	190000	170000	0.17 J	14	0.4 U	0.42 U	0.56	0.089 J	0.42 U	0.42 U	0.038 J	0.39 U
Benzo (A) Anthracene	320	110	190000	2.1	0.26	28	0.04 U	0.042 U	2	0.27	0.042 U	0.042 U	0.17	0.039 U
Benzo (a) Pyrene	46	11	190000	0.21	0.35	23	0.04 U	0.042 U	2.2	0.24	0.042 U	0.042 U	0.2	0.039 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.43	21	0.04 U	0.042 U	2.2	0.28	0.042 U	0.042 U	0.18	0.039 U
Benzo (g,h,i) Perylene	180	170000	190000		0.27 J	13	0.4 U	0.42 U	3.2	0.31 J	0.42 U	0.42 U	0.26 J	0.39 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.48	26	0.04 U	0.042 U	2.2	0.26	0.042 U	0.042 U	0.2	0.039 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.77 U	0.04 U	0.042 U	0.039 U	0.048 U	0.042 U	0.042 U	0.039 U	0.039 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.11 J	7.7 U	0.4 U	0.42 U	0.15 J	0.16 J	0.42 U	0.18 J	0.39 U	0.39 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Carbazole	83	4000	190000		0.05 J	8.1	0.4 U	0.42 U	0.34 J	0.06 J	0.42 U	0.42 U	0.023 J	0.39 U
Chrysene	230	11000	190000	210	0.37 J	31	0.4 U	0.42 U	2.4	0.38 J	0.42 U	0.42 U	0.22 J	0.39 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.072	3.1	0.04 U	0.042 U	0.93	0.1	0.042 U	0.042 U	0.079	0.039 U
Dibenzofuran					0.42 U	4.7 J	0.4 U	0.42 U	0.19 J	0.15 J	0.42 U	0.42 U	0.39 U	0.39 U
Diethylphthalate	500	10000	10000	490000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.12 J	0.39 U	0.39 U
Dimethylphthalate					0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Fluoranthene	3200	110000	190000	22000	0.45	63	0.4 U	0.42 U	3.6	0.51	0.42 U	0.42 U	0.26 J	0.39 U
Fluorene	3800	110000	190000	22000	0.025 J	8.6	0.4 U	0.42 U	0.22 J	0.065 J	0.42 U	0.42 U	0.39 U	0.39 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.77 U	0.04 U	0.042 U	0.039 U	0.048 U	0.042 U	0.042 U	0.039 U	0.039 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	1.5 U	0.079 U	0.085 U	0.079 U	0.095 U	0.084 U	0.084 U	0.078 U	0.078 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.77 U	0.04 U	0.042 U	0.039 U	0.048 U	0.042 U	0.042 U	0.039 U	0.039 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.26	12	0.04 U	0.042 U	2.7	0.26	0.042 U	0.042 U	0.22	0.039 U
Isophorone	10	10000	10000	1800	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Naphthalene	25	56000	190000	20	0.018 J	6.4 J	0.4 U	0.42 U	0.1 J	0.36 J	0.42 U	0.42 U	0.39 U	0.39 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.77 U	0.04 U	0.042 U	0.039 U	0.048 U	0.042 U	0.042 U	0.039 U	0.039 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.77 U	0.04 U	0.042 U	0.039 U	0.048 U	0.042 U	0.042 U	0.039 U	0.039 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Pentachlorophenol	5	660	190000	9	1.7 U	31 U	1.6 U	1.7 U	1.6 U	1.9 U	1.7 U	1.7 U	1.6 U	1.6 U
Phenanthrene	10000	190000	190000		0.22 J	55	0.4 U	0.42 U	3	0.61	0.42 U	0.42 U	0.2 J	0.39 U
Phenol	400	190000	190000	180000	0.42 U	7.7 U	0.4 U	0.42 U	0.39 U	0.48 U	0.42 U	0.42 U	0.39 U	0.39 U
Pyrene	2200	84000	190000	17000	0.45	52	0.4 U	0.42 U	4.8	0.64	0.42 U	0.42 U	0.36 J	0.39 U
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										

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-028 6 - 8 2/5/2004	*BPA-SB-029 0 - 2 2/5/2004	BPA-SB-029 5 - 7 2/5/2004	BPA-SB-029 8 - 10 2/5/2004	*BPA-SB-030 0 - 2 2/5/2004	BPA-SB-030 5 - 7 2/5/2004	BPA-SB-030 10 - 12 2/5/2004	BPA-SB-030 Dup 10 - 12 2/5/2004	BPA-SB-031 0 - 2 2/6/2004	BPA-SB-031 4 - 6 2/6/2004
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														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0017 U	0.0011 U	0.0011 U	0.0009 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0033 U	0.0029 U	0.003 U	0.0033 U	0.0029 U	0.005 U	0.0033 U	0.0033 U	0.0028 U	0.0028 U
1,1-Dichloroethane	11	1000	1200	17	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.0019 U	0.002 U	0.0022 U	0.0019 U	0.0034 U	0.0022 U	0.0022 U	0.0019 U	0.0019 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.0019 U	0.002 U	0.0022 U	0.0019 U	0.0034 U	0.0022 U	0.0022 U	0.0019 U	0.0019 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0017 U	0.0011 U	0.0011 U	0.0009 U	0.001 U
1,4-Dioxane	2.4	210	240	160	1.1 U	0.96 U	1 U	1.1 U	0.97 U	1.7 U	1.1 U	1.1 U	0.94 U	0.95 U
2-Butanone	580	10000	10000	190000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0056	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Acetone	1000	10000	10000	610000	0.05	0.082	0.06	0.064	0.085	0.23	0.077	0.069	0.04	0.0047 U
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.055 U	0.048 U	0.051 U	0.056 U	0.048 U	0.084 U	0.055 U	0.055 U	0.047 U	0.047 U
Benzene	0.5	210	240	5.6	0.0011 U	0.001 U	0.001 U	0.0011 U	0.0017	0.0017	0.0011 U	0.0011 U	0.0004 J	0.001 U
Bromochloromethane	9	10000	10000		0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.001 U	0.001 U	0.0011 U	0.001 U	0.0017 U	0.0011 U	0.0011 U	0.0009 U	0.001 U
Bromoform	10	1500	1700	220	0.0044 U	0.0038 U	0.004 U	0.0045 U	0.0039 U	0.0067 U	0.0044 U	0.0044 U	0.0038 U	0.0038 U
Bromomethane	1	270	300	35	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Carbon Disulfide	410	10000	10000	3000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.0019 U	0.002 U	0.0022 U	0.0019 U	0.0034 U	0.0022 U	0.0022 U	0.0019 U	0.0019 U
Chlorobenzene	10	10000	10000	1500	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Chlorodibromomethane	10	61	70	3.4	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Chloroethane	90	10000	10000	62000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Chloroform	10	17	19	1.5	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Chloromethane	0.3	920	1000	510	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0006 J	0.0004 J	0.0014 J	0.0035 J	0.0009 J	0.0024 J	0.0055 U	0.0055 U	0.0007 J	0.0047 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Ethylbenzene	70	10000	10000	29	0.0009 J	0.0038 U	0.0003 J	0.0004 J	0.0003 J	0.0067 U	0.0006 J	0.0004 J	0.0038 U	0.0038 U
Methyl tert-butyl ether	2	3200	3700	190	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Methylene chloride	0.5	3500	4000	54	0.0033 U	0.0029 U	0.003 U	0.0033 U	0.0005 JB	0.005 U	0.0033 U	0.0033 U	0.0028 U	0.0028 U
Styrene	24	10000	10000	38000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.0017	0.001 U	0.0011 U	0.0014	0.0017 U	0.0011 U	0.0011 U	0.0005 J	0.001 U
Toluene	100	10000	10000	46000	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0013 J	0.0084 U	0.0055 U	0.0055 U	0.002 J	0.0047 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 U	0.0047 U
Trichloroethene	0.5	970	1100	14	0.0091	0.0072	0.007	0.014	0.013	0.0055	0.001 J	0.0011 U	0.0072	0.0032
Vinyl Chloride	0.2	53	220	1.7	0.0055 U	0.0048 U	0.0051 U	0.0056 U	0.0048 U	0.0084 U	0.0055 U	0.0055 U	0.0047 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	BPA-SB-028 6 - 8 2/5/2004	*BPA-SB-029 0 - 2 2/5/2004	BPA-SB-029 5 - 7 2/5/2004	BPA-SB-029 8 - 10 2/5/2004	*BPA-SB-030 0 - 2 2/5/2004	BPA-SB-030 5 - 7 2/5/2004	BPA-SB-030 10 - 12 2/5/2004	BPA-SB-030 Dup 10 - 12 2/5/2004	BPA-SB-031 0 - 2 2/6/2004	BPA-SB-031 4 - 6 2/6/2004
Xylenes (Total)	1000	10000	10000	2600	0.0032 J	0.0048 U	0.0014 J	0.0016 J	0.0018 J	0.0084 U	0.0019 J	0.0016 J	0.0008 J	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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-031 6 - 8 2/6/2004	*BPA-SB-032 0 - 2 2/4/2004	*BPA-SB-032 2 - 4 2/4/2004	BPA-SB-032 6 - 8 2/4/2004	*BPA-SB-033 0 - 2 2/3/2004	BPA-SB-033 6 - 8 2/3/2004	*BPA-SB-034 0 - 2 2/3/2004	*BPA-SB-034 4 - 6 2/3/2004	BPA-SB-034 7 - 9 2/3/2004	BPA-SB-035 0 - 2 2/6/2004	BPA-SB-035 4 - 6 2/6/2004
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	3.3	2 U	2.4	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.06	0.04 B	0.02 U	0.021 U	0.08	0.03 B	0.08	0.02 B	0.05	0.06	0.02 B
Metal															
Antimony	27	1100	190000	410	0.49 U	0.98 U	0.94 U	0.99 U	0.45 U	0.49 U	0.45 U	0.48 U	0.48 U	0.46 U	0.46 U
Arsenic	150	53	190000	1.6	4.4	5.4 B	4.9 B	7	4.9	6.8	4.9	6.2	7.1	4.4	6
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.9	0.49 B	0.59	0.63	0.45	0.63	0.58	0.6	0.73	0.54	0.52
Cadmium	38	210	190000	800	0.05 B	0.35 B	0.096 U	0.1 U	3.1	0.05 U	1.6	0.049 U	0.05 U	0.15 B	0.047 U
Chromium				1400	14.7	20.7	10.5	30.2	23.5	24.4	27.8	16	19.6	9.6	14.2
Copper	36000	100000	190000	41000	11.9	38.6	6.5	20.9	20.7	20.6	82.8	7.9	17.2	11.9	7.8
Lead	450	1000	190000	800	16.5	85	10.4	11.9	48.8	10.4	54.6	10.2	17.4	18.7	8.7
Nickel	650	56000	190000	20000	12.3	12.4	4.5 B	14.2	6.1	13.9	15.9	7.2	12.3	4.9	5.3
Selenium	26	14000	190000	5100	0.49 U	0.98 U	0.94 U	0.99 U	0.45 U	0.49 U	0.45 U	0.48 U	0.69	0.46 U	0.46 U
Silver	84	14000	190000	5100	0.088 U	0.18 U	0.17 U	0.18 U	0.13 B	0.088 U	13.2	0.086 U	0.087 U	0.082 U	0.083 U
Thallium	14	200	190000	66	0.55 U	1.1 U	1.1 U	1.1 U	0.51 U	0.55 U	0.51 U	0.54 U	0.55 U	0.52 U	0.52 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	53.3	68.2	15.7	44.7	106	47.2	151	18.8	56.7	27	15.2
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.084 U	0.084 U	0.081 U	0.085 U	0.077 U	0.084 U	0.078 U	0.083 U	0.083 U	0.078 U	0.079 U
Arochlor-1221	2.5	160	10000	0.62	0.084 U	0.084 U	0.081 U	0.085 U	0.077 U	0.084 U	0.078 U	0.083 U	0.083 U	0.078 U	0.079 U
Arochlor-1232	2	160	10000	0.62	0.084 U	0.084 U	0.081 U	0.085 U	0.077 U	0.084 U	0.078 U	0.083 U	0.083 U	0.078 U	0.079 U
Arochlor-1242	62	160	10000	0.74	0.084 U	0.084 U	0.081 U	0.085 U	0.077 U	0.084 U	0.078 U	0.083 U	0.083 U	0.078 U	0.079 U
Arochlor-1248	67	44	10000	0.74	0.084 U	0.084 U	0.081 U	0.085 U	0.077 U	0.084 U	0.078 U	0.083 U	0.083 U	0.078 U	0.079 U
Arochlor-1254	280	44	10000	0.74	0.084 U	0.084 U	0.081 U	0.085 U	0.077 U	0.084 U	0.49	0.083 U	0.083 U	0.078 U	0.079 U
Arochlor-1260	1900	130	190000	0.74	0.084 U	0.028 J	0.081 U	0.085 U	0.073 J	0.084 U	0.078 U	0.083 U	0.083 U	0.023 J	0.079 U
PCBs (Total)				0.74	0.084 U	0.028 J	0.081 U	0.085 U	0.073 J	0.084 U	0.49	0.083 U	0.083 U	0.023 J	0.079 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.042 U	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.039 U	0.039 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
1,4-Dichlorobenzene	10	3300	190000	13	0.079 J	0.31 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.34 J	0.39 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.7 U	1.6 U	1.7 U	1.5 U	1.7 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.084 U	0.084 U	0.08 U	0.084 U	0.077 U	0.084 U	0.077 U	0.082 U	0.083 U	0.078 U	0.079 U
2,6-Dinitrotoluene	10	2800	190000	620	0.084 U	0.084 U	0.08 U	0.084 U	0.077 U	0.084 U	0.077 U	0.082 U	0.083 U	0.078 U	0.079 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.04 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.032 J	0.39 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
2-Nitroaniline	0.58	160	190000	1800	0.84 U	0.84 U	0.8 U	0.84 U	0.77 U	0.84 U	0.77 U	0.82 U	0.83 U	0.78 U	0.79 U
2-Nitrophenol	82	22000	190000		0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.84 U	0.84 U	0.8 U	0.84 U	0.77 U	0.84 U	0.77 U	0.82 U	0.83 U	0.78 U	0.79 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-031 6 - 8 2/6/2004	*BPA-SB-032 0 - 2 2/4/2004	*BPA-SB-032 2 - 4 2/4/2004	BPA-SB-032 6 - 8 2/4/2004	*BPA-SB-033 0 - 2 2/3/2004	BPA-SB-033 6 - 8 2/3/2004	*BPA-SB-034 0 - 2 2/3/2004	*BPA-SB-034 4 - 6 2/3/2004	BPA-SB-034 7 - 9 2/3/2004	BPA-SB-035 0 - 2 2/6/2004	BPA-SB-035 4 - 6 2/6/2004
3/4-Methylphenol				5100											
3-Nitroaniline	0.58	160	190000		0.84 U	0.84 U	0.8 U	0.84 U	0.77 U	0.84 U	0.77 U	0.82 U	0.83 U	0.78 U	0.79 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.7 U	1.6 U	1.7 U	1.5 U	1.7 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U
4-Bromophenyl phenyl ether					0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
4-Chlorodiphenyl Ether					0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
4-Nitroaniline	0.58	160	190000	86	0.84 U	0.84 U	0.8 U	0.84 U	0.77 U	0.84 U	0.77 U	0.82 U	0.83 U	0.78 U	0.79 U
4-Nitrophenol	6	22000	190000		1.7 U	1.7 U	1.6 U	1.7 U	1.5 U	1.7 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.12 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.08 J	0.39 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.049 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.1 J	0.39 U
Anthracene	350	190000	190000	170000	0.42 U	0.25 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.8	0.39 U
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.74	0.04 U	0.042 U	0.038 U	0.042 U	0.056	0.041 U	0.041 U	2.2	0.039 U
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.8	0.04 U	0.042 U	0.0098 J	0.042 U	0.06	0.041 U	0.041 U	1.8	0.039 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.67	0.04 U	0.042 U	0.019 J	0.042 U	0.055	0.041 U	0.041 U	1.4	0.039 U
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.52	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	1.6	0.39 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.94	0.04 U	0.042 U	0.012 J	0.042 U	0.06	0.041 U	0.041 U	1.9	0.039 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.042 U	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.039 U	0.039 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.14 J	0.11 J	0.41 U	0.39 U	0.39 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Carbazole	83	4000	190000		0.42 U	0.16 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.1 J	0.39 U
Chrysene	230	11000	190000	210	0.42 U	0.86	0.4 U	0.42 U	0.38 U	0.42 U	0.069 J	0.41 U	0.41 U	2.1	0.39 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.2	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.51	0.039 U
Dibenzofuran					0.42 U	0.076 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.068 J	0.39 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Dimethylphthalate					0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Fluoranthene	3200	110000	190000	22000	0.42 U	1.8	0.4 U	0.42 U	0.38 U	0.42 U	0.088 J	0.41 U	0.41 U	4.3	0.39 U
Fluorene	3800	110000	190000	22000	0.42 U	0.14 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.19 J	0.39 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.042 U	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.039 U	0.039 U
Hexachlorobutadiene	1.2	560	10000	22	0.084 U	0.084 U	0.08 U	0.084 U	0.077 U	0.084 U	0.077 U	0.082 U	0.083 U	0.078 U	0.079 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.042 U	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.039 U	0.039 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.48	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	1.5	0.039 U
Isophorone	10	10000	10000	1800	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Naphthalene	25	56000	190000	20	0.42 U	0.045 J	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.042 U	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.039 U	0.039 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.042 U	0.04 U	0.042 U	0.038 U	0.042 U	0.038 U	0.041 U	0.041 U	0.039 U	0.039 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.7 U	1.6 U	1.7 U	1.5 U	1.7 U	1.5 U	1.6 U	1.6 U	1.6 U	1.6 U
Phenanthrene	10000	190000	190000		0.42 U	1.4	0.4 U	0.42 U	0.38 U	0.42 U	0.045 J	0.41 U	0.41 U	2	0.39 U
Phenol	400	190000	190000	180000	0.42 U	0.42 U	0.4 U	0.42 U	0.38 U	0.42 U	0.38 U	0.41 U	0.41 U	0.39 U	0.39 U
Pyrene	2200	84000	190000	17000	0.42 U	1.6	0.4 U	0.42 U	0.38 U	0.42 U	0.11 J	0.41 U	0.41 U	4.9	0.39 U
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											

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-031 6 - 8 2/6/2004	*BPA-SB-032 0 - 2 2/4/2004	*BPA-SB-032 2 - 4 2/4/2004	BPA-SB-032 6 - 8 2/4/2004	*BPA-SB-033 0 - 2 2/3/2004	BPA-SB-033 6 - 8 2/3/2004	*BPA-SB-034 0 - 2 2/3/2004	*BPA-SB-034 4 - 6 2/3/2004	BPA-SB-034 7 - 9 2/3/2004	BPA-SB-035 0 - 2 2/6/2004	BPA-SB-035 4 - 6 2/6/2004
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															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0053 U	0.0004 J	0.0026 J	0.0004 J	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	0.0032 U	0.0029 U	0.0033 U	0.003 U	0.0035 U	0.0027 U	0.0032 U	0.0031 U	0.003 U	0.0032 U
1,1-Dichloroethane	11	1000	1200	17	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.0021 U	0.0019 U	0.0022 U	0.002 U	0.0023 U	0.0018 U	0.0021 U	0.0021 U	0.002 U	0.0021 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.0021 U	0.0019 U	0.0022 U	0.002 U	0.0023 U	0.0018 U	0.0021 U	0.0021 U	0.002 U	0.0021 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1.1 U	0.97 U	1.1 U	1 U	1.2 U	0.91 U	1 U	1 U	0.99 U	1 U
2-Butanone	580	10000	10000	190000	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Acetone	1000	10000	10000	610000	0.0053 U	0.037	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.029	0.005 U	0.0053 U
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	0.053 U	0.054 U	0.048 U	0.055 U	0.05 U	0.058 U	0.045 U	0.052 U	0.052 U	0.05 U	0.053 U
Benzene	0.5	210	240	5.6	0.0011 U	0.0008 J	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromochloromethane	9	10000	10000		0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.001 U	0.0012 U	0.0009 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	10	1500	1700	220	0.0042 U	0.0043 U	0.0039 U	0.0044 U	0.004 U	0.0046 U	0.0036 U	0.0042 U	0.0042 U	0.004 U	0.0042 U
Bromomethane	1	270	300	35	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.0021 U	0.0019 U	0.0022 U	0.002 U	0.0023 U	0.0018 U	0.0021 U	0.0021 U	0.002 U	0.0021 U
Chlorobenzene	10	10000	10000	1500	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Chloroform	10	17	19	1.5	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0053 U	0.0004 J	0.0016 J	0.0013 J	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.0042 U	0.0043 U	0.0039 U	0.0044 U	0.004 U	0.0046 U	0.0036 U	0.0042 U	0.0042 U	0.004 U	0.0042 U
Methyl tert-butyl ether	2	3200	3700	190	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.0032 U	0.0032 U	0.0003 JB	0.0004 JB	0.003 U	0.0035 U	0.0027 U	0.0032 U	0.0031 U	0.003 U	0.0032 U
Styrene	24	10000	10000	38000	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0013	0.0012	0.0092	0.0007 J	0.001 U	0.0012 U	0.0009 U	0.001 U	0.001 U	0.0007 J	0.001 U
Toluene	100	10000	10000	46000	0.0053 U	0.0007 J	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.0009 J	0.0053 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.015	0.014	0.092	0.014	0.001 U	0.0012 U	0.0058	0.0027	0.0041	0.016	0.0011
Vinyl Chloride	0.2	53	220	1.7	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	BPA-SB-031 6 - 8 2/6/2004	*BPA-SB-032 0 - 2 2/4/2004	*BPA-SB-032 2 - 4 2/4/2004	BPA-SB-032 6 - 8 2/4/2004	*BPA-SB-033 0 - 2 2/3/2004	BPA-SB-033 6 - 8 2/3/2004	*BPA-SB-034 0 - 2 2/3/2004	*BPA-SB-034 4 - 6 2/3/2004	BPA-SB-034 7 - 9 2/3/2004	BPA-SB-035 0 - 2 2/6/2004	BPA-SB-035 4 - 6 2/6/2004
Xylenes (Total)	1000	10000	10000	2600	0.0053 U	0.0054 U	0.0048 U	0.0055 U	0.005 U	0.0058 U	0.0045 U	0.0052 U	0.0052 U	0.005 U	0.0053 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-035 7 - 9 2/6/2004	*BPA-SB-036 0 - 2 2/6/2004	BPA-SB-036 4 - 6 2/6/2004	BPA-SB-036 6 - 8 2/6/2004	*BPA-SB-037 0 - 2 2/10/2004	BPA-SB-037 9 - 11 2/10/2004	BPA-SB-038 0 - 2 2/10/2004	BPA-SB-038 7 - 9 2/10/2004	BPA-SB-039 0 - 2 2/10/2004	BPA-SB-039 2 - 4 2/10/2004	BPA-SB-039 6 - 8 2/10/2004
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.66	0.5 U	0.5 U	0.5 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.03 B	0.02 B	0.04 B	0.021 U	0.05	0.021 U	0.07	0.021 U	0.06	0.019 U	0.021 U
Metal															
Antimony	27	1100	190000	410	0.5 U	1.9 B	0.46 U	0.49 U	0.72 U	0.74 U	0.94 B	0.73 U	0.71 U	0.67 U	0.74 U
Arsenic	150	53	190000	1.6	5.4	9.2	4.1	6.1	5	6.1	5	3.9	4.5	4.6	5.4
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.83	0.82	0.53	0.58	0.48	0.5	0.55	0.85	0.31	0.58	0.51
Cadmium	38	210	190000	800	0.051 U	8	0.047 U	0.05 U	0.05 U	0.1 U	0.49 B	0.051 U	0.87	0.046 U	0.051 U
Chromium				1400	23.1	152	9.6	25	20.2	32.6	29.9	14.8	30.2	10.3	21.2
Copper	36000	100000	190000	41000	20.6	655	8.1	23.9	16.2	26.2	31.5	9.4	29.4	8.8	22
Lead	450	1000	190000	800	12.8	303	17.7	11.8	17.7	12.2	51.5	13.7	33.9	11	10.7
Nickel	650	56000	190000	20000	15.6	122	4.5 B	15.7	9.7	15.6	11.4	10.2	10	5.5	14.9
Selenium	26	14000	190000	5100	0.5 U	0.89 U	0.5 B	0.49 U	0.52 U	1.1 U	0.5 U	0.53 U	0.51 U	0.49 U	0.54 U
Silver	84	14000	190000	5100	0.089 U	1.8	0.083 U	0.087 U	0.17 U	0.36 U	0.87 B	0.18 U	0.17 U	0.16 U	0.18 U
Thallium	14	200	190000	66	0.56 U	1 U	0.52 U	0.55 U	0.58 U	1.2 U	0.56 U	0.59 U	0.57 U	0.55 U	0.6 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	49.6	1110	20.3	47.2	50	50.6	107	39.3	67.8	19.6	47
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.086 U	0.077 U	0.079 U	0.084 U	0.083 U	0.085 U	0.16 U	0.085 U	0.082 U	0.078 U	0.086 U
Arochlor-1221	2.5	160	10000	0.62	0.086 U	0.077 U	0.079 U	0.084 U	0.083 U	0.085 U	0.16 U	0.085 U	0.082 U	0.078 U	0.086 U
Arochlor-1232	2	160	10000	0.62	0.086 U	0.077 U	0.079 U	0.084 U	0.083 U	0.085 U	0.16 U	0.085 U	0.082 U	0.078 U	0.086 U
Arochlor-1242	62	160	10000	0.74	0.086 U	0.077 U	0.079 U	0.084 U	0.083 U	0.085 U	0.16 U	0.085 U	0.082 U	0.078 U	0.086 U
Arochlor-1248	67	44	10000	0.74	0.086 U	0.077 U	0.079 U	0.084 U	0.083 U	0.085 U	0.16 U	0.085 U	0.082 U	0.078 U	0.086 U
Arochlor-1254	280	44	10000	0.74	0.086 U	0.077 U	0.079 U	0.084 U	0.36	0.085 U	1.1	0.085 U	0.068 J	0.078 U	0.086 U
Arochlor-1260	1900	130	190000	0.74	0.086 U	0.04 J	0.079 U	0.084 U	0.083 U	0.085 U	2.5	0.085 U	0.082 U	0.078 U	0.086 U
PCBs (Total)				0.74	0.086 U	0.04 J	0.079 U	0.084 U	0.36	0.085 U	3.6	0.085 U	0.068 J	0.078 U	0.086 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.038 U	0.039 U	0.042 U	0.041 U	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.5 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.085 U	0.076 U	0.079 U	0.083 U	0.082 U	0.085 U	0.079 U	0.084 U	0.081 U	0.077 U	0.085 U
2,6-Dinitrotoluene	10	2800	190000	620	0.085 U	0.076 U	0.079 U	0.083 U	0.082 U	0.085 U	0.079 U	0.084 U	0.081 U	0.077 U	0.085 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.38 U	0.39 U	0.42 U	0.029 J	0.42 U	0.071 J	0.42 U	0.41 U	0.39 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	0.85 U	0.76 U	0.79 U	0.83 U	0.82 U	0.85 U	0.79 U	0.84 U	0.81 U	0.77 U	0.85 U
2-Nitrophenol	82	22000	190000		0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.85 U	0.76 U	0.79 U	0.83 U	0.82 U	0.85 U	0.79 U	0.84 U	0.81 U	0.77 U	0.85 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-035 7 - 9 2/6/2004	*BPA-SB-036 0 - 2 2/6/2004	BPA-SB-036 4 - 6 2/6/2004	BPA-SB-036 6 - 8 2/6/2004	*BPA-SB-037 0 - 2 2/10/2004	BPA-SB-037 9 - 11 2/10/2004	BPA-SB-038 0 - 2 2/10/2004	BPA-SB-038 7 - 9 2/10/2004	BPA-SB-039 0 - 2 2/10/2004	BPA-SB-039 2 - 4 2/10/2004	BPA-SB-039 6 - 8 2/10/2004
3/4-Methylphenol				5100											
3-Nitroaniline	0.58	160	190000		0.85 U	0.76 U	0.79 U	0.83 U	0.82 U	0.85 U	0.79 U	0.84 U	0.81 U	0.77 U	0.85 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.5 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U
4-Bromophenyl phenyl ether					0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
4-Chlorodiphenyl Ether					0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	0.85 U	0.76 U	0.79 U	0.83 U	0.82 U	0.85 U	0.79 U	0.84 U	0.81 U	0.77 U	0.85 U
4-Nitrophenol	6	22000	190000		1.7 U	1.5 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.38 U	0.39 U	0.42 U	0.024 J	0.42 U	0.024 J	0.42 U	0.41 U	0.39 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.38 U	0.39 U	0.42 U	0.1 J	0.42 U	0.063 J	0.42 U	0.41 U	0.39 U	0.42 U
Anthracene	350	190000	190000	170000	0.42 U	0.38 U	0.39 U	0.42 U	0.28 J	0.42 U	0.1 J	0.42 U	0.023 J	0.39 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.042 U	0.078	0.039 U	0.042 U	1.3	0.042 U	0.3	0.042 U	0.21	0.046	0.042 U
Benzo (a) Pyrene	46	11	190000	0.21	0.042 U	0.18	0.039 U	0.042 U	1.1	0.011 J	0.31	0.042 U	0.29	0.04	0.042 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.042 U	0.038 U	0.039 U	0.042 U	0.99	0.012 J	0.36	0.042 U	0.27	0.038 J	0.042 U
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.5	0.39 U	0.42 U	0.49	0.42 U	0.16 J	0.42 U	0.26 J	0.026 J	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.042 U	0.038 U	0.039 U	0.042 U	1.2	0.015 J	0.38	0.042 U	0.3	0.047	0.042 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.038 U	0.039 U	0.042 U	0.041 U	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	0.38 U	0.39 U	0.42 U	0.092 J	0.096 J	0.24 J	0.37 J	0.12 J	0.11 J	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Carbazole	83	4000	190000		0.42 U	0.38 U	0.39 U	0.42 U	0.022 J	0.42 U	0.038 J	0.42 U	0.41 U	0.39 U	0.42 U
Chrysene	230	11000	190000	210	0.42 U	0.11 J	0.39 U	0.42 U	1.3	0.42 U	0.38 J	0.42 U	0.25 J	0.053 J	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.12	0.039 U	0.042 U	0.23	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
Dibenzofuran					0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.027 J	0.42 U	0.41 U	0.39 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Dimethylphthalate					0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.052 J	0.39 U	0.42 U	2.2	0.026 J	0.46	0.42 U	0.24 J	0.094 J	0.42 U
Fluorene	3800	110000	190000	22000	0.42 U	0.38 U	0.39 U	0.42 U	0.032 J	0.42 U	0.022 J	0.42 U	0.41 U	0.39 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.038 U	0.039 U	0.042 U	0.041 U	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
Hexachlorobutadiene	1.2	560	10000	22	0.085 U	0.076 U	0.079 U	0.083 U	0.082 U	0.085 U	0.079 U	0.084 U	0.081 U	0.077 U	0.085 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.038 U	0.039 U	0.042 U	0.041 U	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.042 U	0.32	0.039 U	0.042 U	0.55	0.042 U	0.16	0.042 U	0.22	0.024 J	0.042 U
Isophorone	10	10000	10000	1800	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Naphthalene	25	56000	190000	20	0.42 U	0.38 U	0.39 U	0.42 U	0.03 J	0.42 U	0.057 J	0.42 U	0.41 U	0.39 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.038 U	0.039 U	0.042 U	0.041 U	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.038 U	0.039 U	0.042 U	0.041 U	0.042 U	0.04 U	0.042 U	0.041 U	0.039 U	0.042 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.5 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.5 U	1.7 U
Phenanthrene	10000	190000	190000		0.42 U	0.053 J	0.39 U	0.42 U	0.55	0.013 J	0.24 J	0.42 U	0.097 J	0.054 J	0.42 U
Phenol	400	190000	190000	180000	0.42 U	0.38 U	0.39 U	0.42 U	0.41 U	0.42 U	0.4 U	0.42 U	0.41 U	0.39 U	0.42 U
Pyrene	2200	84000	190000	17000	0.42 U	0.07 J	0.39 U	0.42 U	2	0.025 J	0.5	0.0094 J	0.25 J	0.085 J	0.42 U
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											

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-035 7 - 9 2/6/2004	*BPA-SB-036 0 - 2 2/6/2004	BPA-SB-036 4 - 6 2/6/2004	BPA-SB-036 6 - 8 2/6/2004	*BPA-SB-037 0 - 2 2/10/2004	BPA-SB-037 9 - 11 2/10/2004	BPA-SB-038 0 - 2 2/10/2004	BPA-SB-038 7 - 9 2/10/2004	BPA-SB-039 0 - 2 2/10/2004	BPA-SB-039 2 - 4 2/10/2004	BPA-SB-039 6 - 8 2/10/2004
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															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.0012 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	0.0029 U	0.003 U	0.0037 U	0.0032 U	0.0032 U	0.003 U	0.0032 U	0.0032 U	0.0029 U	0.0036 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
1,1-Dichloroethene	0.7	33	38	1100	0.0022 U	0.0019 U	0.002 U	0.0025 U	0.0021 U	0.0022 U	0.002 U	0.0021 U	0.0021 U	0.0019 U	0.0024 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0022 U	0.0019 U	0.002 U	0.0025 U	0.0021 U	0.0022 U	0.002 U	0.0021 U	0.0021 U	0.0019 U	0.0024 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.0012 U
1,4-Dioxane	2.4	210	240	160	1.1 U	0.95 U	1 U	1.2 U	1.1 U	1.1 U	0.99 U	1.1 U	1.1 U	0.97 U	1.2 U
2-Butanone	580	10000	10000	190000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Acetone	1000	10000	10000	610000	0.0054 U	0.0048 U	0.005 U	0.041	0.057	0.056	0.03	0.043	0.068	0.024	0.006 U
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	0.054 U	0.048 U	0.05 U	0.062 U	0.053 U	0.054 U	0.049 U	0.053 U	0.053 U	0.048 U	0.06 U
Benzene	0.5	210	240	5.6	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0008 J	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.0012 U
Bromochloromethane	9	10000	10000		0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Bromodichloromethane	10	45	51	1.4	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.0012 U
Bromoform	10	1500	1700	220	0.0043 U	0.0038 U	0.004 U	0.005 U	0.0043 U	0.0043 U	0.004 U	0.0043 U	0.0043 U	0.0039 U	0.0048 U
Bromomethane	1	270	300	35	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0007 J	0.0054 U	0.0003 J	0.0053 U	0.0053 U	0.0048 U	0.006 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0022 U	0.0019 U	0.002 U	0.0025 U	0.0021 U	0.0022 U	0.002 U	0.0021 U	0.0021 U	0.0019 U	0.0024 U
Chlorobenzene	10	10000	10000	1500	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Chlorodibromomethane	10	61	70	3.4	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Chloroethane	90	10000	10000	62000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Chloroform	10	17	19	1.5	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Chloromethane	0.3	920	1000	510	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0003 J	0.0053 U	0.0053 U	0.0048 U	0.006 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Ethylbenzene	70	10000	10000	29	0.0043 U	0.0038 U	0.004 U	0.005 U	0.0043 U	0.0043 U	0.004 U	0.0043 U	0.0043 U	0.0039 U	0.0048 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Methylene chloride	0.5	3500	4000	54	0.0032 U	0.0029 U	0.003 U	0.0037 U	0.0032 U	0.0032 U	0.003 U	0.0032 U	0.0032 U	0.0029 U	0.0036 U
Styrene	24	10000	10000	38000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0011 U	0.001 U	0.001 U	0.0012 U	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.0012 U
Toluene	100	10000	10000	46000	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0014 J	0.0013 J	0.0049 U	0.0012 J	0.0013 J	0.001 J	0.0016 J
trans-1,2-Dichloroethene	10	3700	4300	500	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 U	0.006 U
Trichloroethene	0.5	970	1100	14	0.0038	0.016	0.029	0.015	0.0022	0.0027	0.0023	0.0011 U	0.0037	0.0047	0.0025
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 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.

Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-035 7 - 9 2/6/2004	*BPA-SB-036 0 - 2 2/6/2004	BPA-SB-036 4 - 6 2/6/2004	BPA-SB-036 6 - 8 2/6/2004	*BPA-SB-037 0 - 2 2/10/2004	BPA-SB-037 9 - 11 2/10/2004	BPA-SB-038 0 - 2 2/10/2004	BPA-SB-038 7 - 9 2/10/2004	BPA-SB-039 0 - 2 2/10/2004	BPA-SB-039 2 - 4 2/10/2004	BPA-SB-039 6 - 8 2/10/2004
Xylenes (Total)	1000	10000	10000	2600	0.0054 U	0.0048 U	0.005 U	0.0062 U	0.0053 U	0.0054 U	0.0049 U	0.0053 U	0.0053 U	0.0048 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 - Burn Pile Area (BPA)
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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)	*BPA-SB-040 0 - 2 2/3/2004	BPA-SB-040 4 - 6 2/3/2004	BPA-SB-040 7 - 9 2/3/2004	*BPA-SB-041 0 - 2 2/3/2004	BPA-SB-041 4 - 6 2/3/2004	BPA-SB-041 7 - 9 2/3/2004	*BPA-SB-042 0 - 2 2/3/2004	BPA-SB-042 4 - 6 2/3/2004	BPA-SB-042 7 - 9 2/3/2004	BPA-SB-043 0 - 2 2/3/2004	BPA-SB-043 5 - 7 2/3/2004
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.05	0.021 U	0.021 U	0.05	0.02 B	0.08	0.05	0.02 U	0.022 U	0.05	0.02 B
Metal															
Antimony	27	1100	190000	410	0.45 U	0.5 U	0.49 U	0.45 U	0.48 U	0.51 U	0.45 U	0.46 U	0.52 U	0.45 U	0.47 U
Arsenic	150	53	190000	1.6	4.6	5	5.1	5.2	5.2	5.1	5.2	4.5	4.6	5.1	7.1
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.54	0.7	0.66	0.6	0.76	0.85	0.61	0.55	0.94	0.47	0.62
Cadmium	38	210	190000	800	0.22 B	0.051 U	0.051 U	0.76	0.049 U	0.053 U	0.046 U	0.048 U	0.053 U	0.05 B	0.048 U
Chromium				1400	13.2	14.4	21	16.4	11.6	9.7	12.6	11.7	17.3	11.4	14.5
Copper	36000	100000	190000	41000	37.5	6.6	15.1	30.9	6	7.6	13.9	6	10.3	10.2	8.1
Lead	450	1000	190000	800	32.2	10.7	10	36.4	11.7	12	18.2	9.1	15.6	31.6	9.7
Nickel	650	56000	190000	20000	7.3	6.6	14.2	8.3	4.9	8.8	5.9	5.8	11.4	4.4 B	6.1
Selenium	26	14000	190000	5100	0.45 U	0.5 U	0.49 U	0.45 U	0.48 U	0.51 U	0.45 U	0.46 U	0.52 U	0.45 U	0.51 B
Silver	84	14000	190000	5100	1.1	0.089 U	0.089 U	0.2 B	0.086 U	0.092 U	0.081 U	0.083 U	0.093 U	0.081 U	0.084 U
Thallium	14	200	190000	66	0.5 U	0.56 U	0.56 U	0.51 U	0.54 U	0.58 U	0.51 U	0.52 U	0.58 U	0.51 U	0.53 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	75.6	21.3	42.7	72.9	16.1	38.8	35.4	20.7	37.2	29.9	16.4
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.077 U	0.085 U	0.085 U	0.077 U	0.082 U	0.088 U	0.078 U	0.08 U	0.089 U	0.077 U	0.08 U
Arochlor-1221	2.5	160	10000	0.62	0.077 U	0.085 U	0.085 U	0.077 U	0.082 U	0.088 U	0.078 U	0.08 U	0.089 U	0.077 U	0.08 U
Arochlor-1232	2	160	10000	0.62	0.077 U	0.085 U	0.085 U	0.077 U	0.082 U	0.088 U	0.078 U	0.08 U	0.089 U	0.077 U	0.08 U
Arochlor-1242	62	160	10000	0.74	0.077 U	0.085 U	0.085 U	0.077 U	0.082 U	0.088 U	0.078 U	0.08 U	0.089 U	0.077 U	0.08 U
Arochlor-1248	67	44	10000	0.74	0.077 U	0.085 U	0.085 U	0.077 U	0.082 U	0.088 U	0.078 U	0.08 U	0.089 U	0.077 U	0.08 U
Arochlor-1254	280	44	10000	0.74	0.077 U	0.085 U	0.085 U	0.077 U	0.082 U	0.088 U	0.078 U	0.08 U	0.089 U	0.077 U	0.08 U
Arochlor-1260	1900	130	190000	0.74	0.068 J	0.085 U	0.085 U	0.094	0.082 U	0.088 U	0.04 J	0.08 U	0.089 U	0.054 J	0.08 U
PCBs (Total)				0.74	0.068 J	0.085 U	0.085 U	0.094	0.082 U	0.088 U	0.04 J	0.08 U	0.089 U	0.054 J	0.08 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.038 U	0.042 U	0.042 U	0.038 U	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
1,3-Dichlorobenzene	61	10000	10000		0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
1,4-Dichlorobenzene	10	3300	190000	13	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2,4-Dichlorophenol	2	8400	190000	1800	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2,4-Dimethylphenol	200	10000	10000	12000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.5 U	1.7 U	1.7 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.076 U	0.085 U	0.084 U	0.077 U	0.082 U	0.088 U	0.077 U	0.079 U	0.088 U	0.077 U	0.08 U
2,6-Dinitrotoluene	10	2800	190000	620	0.076 U	0.085 U	0.084 U	0.077 U	0.082 U	0.088 U	0.077 U	0.079 U	0.088 U	0.077 U	0.08 U
2-Chloronaphthalene	18000	190000	190000	82000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2-Chlorophenol	4.4	920	1100	5100	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2-Methylnaphthalene	8000	10000	10000	4100	0.019 J	0.42 U	0.42 U	0.026 J	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2-Methylphenol	510	10000	10000	31000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
2-Nitroaniline	0.58	160	190000	1800	0.76 U	0.85 U	0.84 U	0.77 U	0.82 U	0.88 U	0.77 U	0.79 U	0.88 U	0.77 U	0.8 U
2-Nitrophenol	82	22000	190000		0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.76 U	0.85 U	0.84 U	0.77 U	0.82 U	0.88 U	0.77 U	0.79 U	0.88 U	0.77 U	0.8 U

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Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-040 0 - 2 2/3/2004	BPA-SB-040 4 - 6 2/3/2004	BPA-SB-040 7 - 9 2/3/2004	*BPA-SB-041 0 - 2 2/3/2004	BPA-SB-041 4 - 6 2/3/2004	BPA-SB-041 7 - 9 2/3/2004	*BPA-SB-042 0 - 2 2/3/2004	BPA-SB-042 4 - 6 2/3/2004	BPA-SB-042 7 - 9 2/3/2004	BPA-SB-043 0 - 2 2/3/2004	BPA-SB-043 5 - 7 2/3/2004
3/4-Methylphenol				5100											
3-Nitroaniline	0.58	160	190000		0.76 U	0.85 U	0.84 U	0.77 U	0.82 U	0.88 U	0.77 U	0.79 U	0.88 U	0.77 U	0.8 U
4,6-Dinitro-2-Methylphenol				62	1.5 U	1.7 U	1.7 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U
4-Bromophenyl phenyl ether					0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
4-Chloroaniline	52	11000	190000	8.6	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
4-Chlorodiphenyl Ether					0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
4-METHYLPHENOL	51	14000	190000	3100	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
4-Nitroaniline	0.58	160	190000	86	0.76 U	0.85 U	0.84 U	0.77 U	0.82 U	0.88 U	0.77 U	0.79 U	0.88 U	0.77 U	0.8 U
4-Nitrophenol	6	22000	190000		1.5 U	1.7 U	1.7 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.19 J	0.42 U	0.42 U	0.028 J	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Acenaphthylene	6900	170000	190000	33000	0.38 U	0.42 U	0.42 U	0.38 J	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Anthracene	350	190000	190000	170000	0.38 J	0.42 U	0.42 U	0.33 J	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.039 J	0.4 U
Benzo (A) Anthracene	320	110	190000	2.1	0.7	0.042 U	0.042 U	1.3	0.041 U	0.044 U	0.046	0.04 U	0.044 U	0.17	0.04 U
Benzo (a) Pyrene	46	11	190000	0.21	0.68	0.042 U	0.042 U	1.5	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.24	0.04 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.62	0.042 U	0.042 U	1.7	0.041 U	0.044 U	0.038 J	0.04 U	0.044 U	0.21	0.04 U
Benzo (g,h,i) Perylene	180	170000	190000		0.51	0.42 U	0.42 U	1.1	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.27 J	0.4 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.64	0.042 U	0.042 U	1.5	0.041 U	0.044 U	0.04	0.04 U	0.044 U	0.22	0.04 U
Bis(2-Chloroethoxy) Methane				1800	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.038 U	0.042 U	0.042 U	0.038 U	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.086 J	0.42 U	0.42 U	0.38 U	0.13 J	0.44 U	0.38 U	0.4 U	0.44 U	0.2 J	0.4 U
Butylbenzylphthalate	10000	10000	10000	910	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Carbazole	83	4000	190000		0.17 J	0.42 U	0.42 U	0.049 J	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.023 J	0.4 U
Chrysene	230	11000	190000	210	0.82	0.42 U	0.42 U	1.6	0.41 U	0.44 U	0.048 J	0.4 U	0.44 U	0.23 J	0.4 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.18	0.042 U	0.042 U	0.42	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
Dibenzofuran					0.064 J	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Diethylphthalate	500	10000	10000	490000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Dimethylphthalate					0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Di-n-octylphthalate	10000	10000	10000		0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Fluoranthene	3200	110000	190000	22000	1.6	0.42 U	0.42 U	1.7	0.41 U	0.44 U	0.063 J	0.4 U	0.44 U	0.32 J	0.4 U
Fluorene	3800	110000	190000	22000	0.14 J	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Hexachlorobenzene	0.96	50	190000	1.1	0.038 U	0.042 U	0.042 U	0.038 U	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
Hexachlorobutadiene	1.2	560	10000	22	0.076 U	0.085 U	0.084 U	0.077 U	0.082 U	0.088 U	0.077 U	0.079 U	0.088 U	0.077 U	0.08 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Hexachloroethane	0.56	2800	190000	120	0.038 U	0.042 U	0.042 U	0.038 U	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.47	0.042 U	0.042 U	1.1	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.22	0.04 U
Isophorone	10	10000	10000	1800	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Naphthalene	25	56000	190000	20	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Nitrobenzene	5.1	1400	10000	22	0.038 U	0.042 U	0.042 U	0.038 U	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.038 U	0.042 U	0.042 U	0.038 U	0.041 U	0.044 U	0.038 U	0.04 U	0.044 U	0.038 U	0.04 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Pentachlorophenol	5	660	190000	9	1.5 U	1.7 U	1.7 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U	1.8 U	1.5 U	1.6 U
Phenanthrene	10000	190000	190000		1.4	0.42 U	0.42 U	0.24 J	0.41 U	0.44 U	0.025 J	0.4 U	0.44 U	0.2 J	0.4 U
Phenol	400	190000	190000	180000	0.38 U	0.42 U	0.42 U	0.38 U	0.41 U	0.44 U	0.38 U	0.4 U	0.44 U	0.38 U	0.4 U
Pyrene	2200	84000	190000	17000	1.6	0.42 U	0.42 U	2.7	0.41 U	0.44 U	0.072 J	0.4 U	0.44 U	0.37 J	0.4 U
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											

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-040 0 - 2 2/3/2004	BPA-SB-040 4 - 6 2/3/2004	BPA-SB-040 7 - 9 2/3/2004	*BPA-SB-041 0 - 2 2/3/2004	BPA-SB-041 4 - 6 2/3/2004	BPA-SB-041 7 - 9 2/3/2004	*BPA-SB-042 0 - 2 2/3/2004	BPA-SB-042 4 - 6 2/3/2004	BPA-SB-042 7 - 9 2/3/2004	BPA-SB-043 0 - 2 2/3/2004	BPA-SB-043 5 - 7 2/3/2004
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															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0009 U	0.001 U	0.0013 U	0.0009 U	0.001 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0029 U	0.0031 U	0.0033 U	0.003 U	0.0031 U	0.0038 U	0.0028 U	0.0029 U	0.0038 U	0.0027 U	0.0029 U
1,1-Dichloroethane	11	1000	1200	17	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
1,1-Dichloroethene	0.7	33	38	1100	0.0019 U	0.002 U	0.0022 U	0.002 U	0.0021 U	0.0025 U	0.0019 U	0.0019 U	0.0026 U	0.0018 U	0.002 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0019 U	0.002 U	0.0022 U	0.002 U	0.0021 U	0.0025 U	0.0019 U	0.0019 U	0.0026 U	0.0018 U	0.002 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0009 U	0.001 U	0.0013 U	0.0009 U	0.001 U
1,4-Dioxane	2.4	210	240	160	0.96 U	1 U	1.1 U	1 U	1 U	1.3 U	0.94 U	0.95 U	1.3 U	0.91 U	0.98 U
2-Butanone	580	10000	10000	190000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Acetone	1000	10000	10000	610000	0.036	0.0051 U	0.043	0.029	0.0052 U	0.034	0.033	0.0048 U	0.0064 U	0.024	0.0049 U
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	0.048 U	0.051 U	0.055 U	0.05 U	0.052 U	0.063 U	0.047 U	0.048 U	0.064 U	0.045 U	0.049 U
Benzene	0.5	210	240	5.6	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0009 U	0.001 U	0.0013 U	0.0009 U	0.001 U
Bromochloromethane	9	10000	10000		0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0009 U	0.001 U	0.0013 U	0.0009 U	0.001 U
Bromoform	10	1500	1700	220	0.0038 U	0.0041 U	0.0044 U	0.004 U	0.0042 U	0.0051 U	0.0038 U	0.0038 U	0.0051 U	0.0036 U	0.0039 U
Bromomethane	1	270	300	35	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Carbon Disulfide	410	10000	10000	3000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0019 U	0.002 U	0.0022 U	0.002 U	0.0021 U	0.0025 U	0.0019 U	0.0019 U	0.0026 U	0.0018 U	0.002 U
Chlorobenzene	10	10000	10000	1500	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Chlorodibromomethane	10	61	70	3.4	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Chloroethane	90	10000	10000	62000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Chloroform	10	17	19	1.5	0.0009 J	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Chloromethane	0.3	920	1000	510	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Ethylbenzene	70	10000	10000	29	0.0038 U	0.0041 U	0.0044 U	0.004 U	0.0042 U	0.0051 U	0.0038 U	0.0038 U	0.0051 U	0.0036 U	0.0039 U
Methyl tert-butyl ether	2	3200	3700	190	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Methylene chloride	0.5	3500	4000	54	0.0029 U	0.0031 U	0.0033 U	0.003 U	0.0031 U	0.0038 U	0.0028 U	0.0029 U	0.0038 U	0.0027 U	0.0008 JB
Styrene	24	10000	10000	38000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Tetrachloroethene	0.5	1500	3300	2.7	0.001 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0009 U	0.001 U	0.0013 U	0.0009 U	0.001 U
Toluene	100	10000	10000	46000	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 U	0.0049 U
Trichloroethene	0.5	970	1100	14	0.0079	0.0012	0.0011 U	0.001 U	0.001 U	0.0013 U	0.0009 U	0.001 U	0.0013 U	0.0009 U	0.001 U
Vinyl Chloride	0.2	53	220	1.7	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-040 0 - 2 2/3/2004	BPA-SB-040 4 - 6 2/3/2004	BPA-SB-040 7 - 9 2/3/2004	*BPA-SB-041 0 - 2 2/3/2004	BPA-SB-041 4 - 6 2/3/2004	BPA-SB-041 7 - 9 2/3/2004	*BPA-SB-042 0 - 2 2/3/2004	BPA-SB-042 4 - 6 2/3/2004	BPA-SB-042 7 - 9 2/3/2004	BPA-SB-043 0 - 2 2/3/2004	BPA-SB-043 5 - 7 2/3/2004
Xylenes (Total)	1000	10000	10000	2600	0.0048 U	0.0051 U	0.0055 U	0.005 U	0.0052 U	0.0063 U	0.0047 U	0.0048 U	0.0064 U	0.0045 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-044 0 - 2 2/3/2004	BPA-SB-044 5 - 7 2/3/2004	BPA-SB-044 Dup 5 - 7 2/3/2004	BPA-SB-044 8 - 10 2/3/2004	*BPA-SB-045 0 - 2 2/3/2004	BPA-SB-045 5 - 7 2/3/2004	BPA-SB-045 7 - 9 2/3/2004	*BPA-SB-046 0 - 2 2/3/2004	BPA-SB-046 3 - 5 2/3/2004	BPA-SB-046 6 - 8 2/3/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury														
Mercury	10	840	190000	24	0.07	0.05	0.05	0.02 B	0.05	0.04	0.03 B	0.02 U	0.05	0.021 U
Metal														
Antimony	27	1100	190000	410	0.49 U	0.48 U	0.49 U	0.49 U	0.5 U	0.48 U	0.49 U	0.46 U	0.47 U	0.5 U
Arsenic	150	53	190000	1.6	5.6	4.9	7.3	5.9	5.1	4.8	5.2	5.2	6.1	2.4 B
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.56	0.69	0.78	0.74	0.55	0.42	0.6	0.49	0.65	0.54
Cadmium	38	210	190000	800	0.75	0.049 U	0.05 U	0.05 U	0.4 B	0.049 U	0.05 U	0.64	0.048 U	0.052 U
Chromium				1400	25	11.1	16.2	20.3	24.5	10.2	6.9	26.5	13.1	6.2
Copper	36000	100000	190000	41000	25.8	7.1	7	13.8	17.1	3.9	8.6	23.7	9	4.5
Lead	450	1000	190000	800	46.7	12.4	13.8	10.7	25.9	9.3	19.6	38.9	9.9	7.9
Nickel	650	56000	190000	20000	11.3	6.3	5.9	11.7	8.9	3.9 B	4.3 B	8.8	6.5	3.5 B
Selenium	26	14000	190000	5100	0.49 U	0.48 U	0.49 U	0.49 U	0.5 U	0.83	0.49 U	0.55 B	0.47 U	0.5 U
Silver	84	14000	190000	5100	0.087 U	0.086 U	0.087 U	0.088 U	0.09 U	0.086 U	0.088 U	0.09 B	0.084 U	0.09 U
Thallium	14	200	190000	66	0.55 U	0.54 U	0.55 U	0.55 U	0.56 U	0.54 U	0.55 U	0.52 U	0.53 U	0.57 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	100	22.9	19.7	36.2	57.5	16.3	27.6	92	15.6	12.1
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.084 U	0.079 U	0.08 U	0.086 U
Arochlor-1221	2.5	160	10000	0.62	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.084 U	0.079 U	0.08 U	0.086 U
Arochlor-1232	2	160	10000	0.62	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.084 U	0.079 U	0.08 U	0.086 U
Arochlor-1242	62	160	10000	0.74	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.084 U	0.079 U	0.08 U	0.086 U
Arochlor-1248	67	44	10000	0.74	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.084 U	0.079 U	0.08 U	0.086 U
Arochlor-1254	280	44	10000	0.74	0.34	0.082 U	0.083 U	0.084 U	0.22	0.082 U	0.084 U	0.38	0.08 U	0.086 U
Arochlor-1260	1900	130	190000	0.74	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.084 U	0.079 U	0.08 U	0.086 U
PCBs (Total)				0.74	0.34	0.082 U	0.083 U	0.084 U	0.22	0.082 U	0.084 U	0.38	0.08 U	0.086 U
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.039 U	0.04 U	0.043 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.083 U	0.078 U	0.08 U	0.086 U
2,6-Dinitrotoluene	10	2800	190000	620	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.083 U	0.078 U	0.08 U	0.086 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2-Methylnaphthalene	8000	10000	10000	4100	0.035 J	0.41 U	0.42 U	0.42 U	0.03 J	0.41 U	0.42 U	0.036 J	0.4 U	0.43 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
2-Nitroaniline	0.58	160	190000	1800	0.83 U	0.82 U	0.83 U	0.84 U	0.86 U	0.82 U	0.83 U	0.78 U	0.8 U	0.86 U
2-Nitrophenol	82	22000	190000		0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.83 U	0.82 U	0.83 U	0.84 U	0.86 U	0.82 U	0.83 U	0.78 U	0.8 U	0.86 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-044 0 - 2 2/3/2004	BPA-SB-044 5 - 7 2/3/2004	BPA-SB-044 Dup 5 - 7 2/3/2004	BPA-SB-044 8 - 10 2/3/2004	*BPA-SB-045 0 - 2 2/3/2004	BPA-SB-045 5 - 7 2/3/2004	BPA-SB-045 7 - 9 2/3/2004	*BPA-SB-046 0 - 2 2/3/2004	BPA-SB-046 3 - 5 2/3/2004	BPA-SB-046 6 - 8 2/3/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.83 U	0.82 U	0.83 U	0.84 U	0.86 U	0.82 U	0.83 U	0.78 U	0.8 U	0.86 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
4-Bromophenyl phenyl ether					0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
4-Chlorodiphenyl Ether					0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
4-Nitroaniline	0.58	160	190000	86	0.83 U	0.82 U	0.83 U	0.84 U	0.86 U	0.82 U	0.83 U	0.78 U	0.8 U	0.86 U
4-Nitrophenol	6	22000	190000		1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
Acenaphthene	4700	170000	190000	33000	0.015 J	0.41 U	0.42 U	0.42 U	0.055 J	0.41 U	0.42 U	0.18 J	0.4 U	0.43 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.41 U	0.42 U	0.42 U	0.21 J	0.41 U	0.03 J	0.059 J	0.4 U	0.43 U
Anthracene	350	190000	190000	170000	0.044 J	0.41 U	0.42 U	0.42 U	0.21 J	0.41 U	0.019 J	0.26 J	0.4 U	0.43 U
Benzo (A) Anthracene	320	110	190000	2.1	0.21	0.041 U	0.042 U	0.042 U	0.52	0.041 U	0.055	0.58	0.019 J	0.043 U
Benzo (a) Pyrene	46	11	190000	0.21	0.25	0.041 U	0.042 U	0.042 U	0.56	0.041 U	0.068	0.57	0.019 J	0.043 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.26	0.041 U	0.042 U	0.042 U	0.46	0.041 U	0.05	0.43	0.016 J	0.043 U
Benzo (g,h,i) Perylene	180	170000	190000		0.25 J	0.41 U	0.42 U	0.42 U	0.21 J	0.41 U	0.034 J	0.23 J	0.4 U	0.43 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.23	0.041 U	0.042 U	0.042 U	0.63	0.041 U	0.063	0.55	0.018 J	0.043 U
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.039 U	0.04 U	0.043 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.14 J	0.41 U	0.26 J	0.42 U	0.09 J	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Carbazole	83	4000	190000		0.42 U	0.41 U	0.42 U	0.42 U	0.11 J	0.41 U	0.42 U	0.047 J	0.4 U	0.43 U
Chrysene	230	11000	190000	210	0.29 J	0.41 U	0.42 U	0.42 U	0.56	0.41 U	0.094 J	0.67	0.021 J	0.43 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.095	0.04 U	0.043 U
Dibenzofuran					0.42 U	0.41 U	0.42 U	0.42 U	0.037 J	0.41 U	0.42 U	0.043 J	0.4 U	0.43 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Dimethylphthalate					0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Fluoranthene	3200	110000	190000	22000	0.38 J	0.41 U	0.42 U	0.42 U	1	0.41 U	0.11 J	1.2	0.039 J	0.43 U
Fluorene	3800	110000	190000	22000	0.42 U	0.41 U	0.42 U	0.42 U	0.079 J	0.41 U	0.42 U	0.15 J	0.4 U	0.43 U
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.039 U	0.04 U	0.043 U
Hexachlorobutadiene	1.2	560	10000	22	0.083 U	0.082 U	0.083 U	0.084 U	0.086 U	0.082 U	0.083 U	0.078 U	0.08 U	0.086 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.039 U	0.04 U	0.043 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.2	0.041 U	0.042 U	0.042 U	0.22	0.041 U	0.029 J	0.22	0.04 U	0.043 U
Isophorone	10	10000	10000	1800	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Naphthalene	25	56000	190000	20	0.42 U	0.41 U	0.42 U	0.42 U	0.029 J	0.41 U	0.42 U	0.029 J	0.4 U	0.43 U
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.039 U	0.04 U	0.043 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.041 U	0.042 U	0.042 U	0.043 U	0.041 U	0.042 U	0.039 U	0.04 U	0.043 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Pentachlorophenol	5	660	190000	9	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.7 U
Phenanthrene	10000	190000	190000		0.19 J	0.41 U	0.42 U	0.42 U	0.79	0.41 U	0.062 J	1.1	0.016 J	0.43 U
Phenol	400	190000	190000	180000	0.42 U	0.41 U	0.42 U	0.42 U	0.43 U	0.41 U	0.42 U	0.39 U	0.4 U	0.43 U
Pyrene	2200	84000	190000	17000	0.5	0.41 U	0.42 U	0.42 U	1.1	0.41 U	0.14 J	1.3	0.037 J	0.43 U
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										

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-044 0 - 2 2/3/2004	BPA-SB-044 5 - 7 2/3/2004	BPA-SB-044 Dup 5 - 7 2/3/2004	BPA-SB-044 8 - 10 2/3/2004	*BPA-SB-045 0 - 2 2/3/2004	BPA-SB-045 5 - 7 2/3/2004	BPA-SB-045 7 - 9 2/3/2004	*BPA-SB-046 0 - 2 2/3/2004	BPA-SB-046 3 - 5 2/3/2004	BPA-SB-046 6 - 8 2/3/2004
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														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.0013 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0037 U	0.0032 U	0.0031 U	0.0034 U	0.004 U	0.0031 U	0.0032 U	0.0029 U	0.003 U	0.0035 U
1,1-Dichloroethane	11	1000	1200	17	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
1,1-Dichloroethene	0.7	33	38	1100	0.0025 U	0.0022 U	0.0021 U	0.0022 U	0.0027 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0024 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0025 U	0.0022 U	0.0021 U	0.0022 U	0.0027 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0024 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.0013 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U
1,4-Dioxane	2.4	210	240	160	1.2 U	1.1 U	1 U	1.1 U	1.3 U	1 U	1.1 U	0.97 U	1 U	1.2 U
2-Butanone	580	10000	10000	190000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0091	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0039 J	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Acetone	1000	10000	10000	610000	0.051	0.031	0.0052 U	0.0056 U	0.093	0.0051 U	0.04	0.049	0.028	0.054
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.062 U	0.054 U	0.052 U	0.056 U	0.067 U	0.051 U	0.053 U	0.048 U	0.051 U	0.059 U
Benzene	0.5	210	240	5.6	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.0013 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U
Bromochloromethane	9	10000	10000		0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Bromodichloromethane	10	45	51	1.4	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.0013 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U
Bromoform	10	1500	1700	220	0.005 U	0.0043 U	0.0042 U	0.0045 U	0.0054 U	0.0041 U	0.0043 U	0.0039 U	0.0041 U	0.0047 U
Bromomethane	1	270	300	35	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Carbon Disulfide	410	10000	10000	3000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0025 U	0.0022 U	0.0021 U	0.0022 U	0.0027 U	0.002 U	0.0021 U	0.0019 U	0.002 U	0.0024 U
Chlorobenzene	10	10000	10000	1500	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Chlorodibromomethane	10	61	70	3.4	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Chloroethane	90	10000	10000	62000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Chloroform	10	17	19	1.5	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Chloromethane	0.3	920	1000	510	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Ethylbenzene	70	10000	10000	29	0.005 U	0.0043 U	0.0042 U	0.0045 U	0.0054 U	0.0041 U	0.0043 U	0.0039 U	0.0041 U	0.0047 U
Methyl tert-butyl ether	2	3200	3700	190	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Methylene chloride	0.5	3500	4000	54	0.0037 U	0.0032 U	0.0031 U	0.0034 U	0.004 U	0.0031 U	0.0032 U	0.0029 U	0.003 U	0.0008 JB
Styrene	24	10000	10000	38000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0012 U	0.0011 U	0.001 U	0.0011 U	0.0013 U	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U
Toluene	100	10000	10000	46000	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U
Trichloroethene	0.5	970	1100	14	0.002	0.0011 U	0.001 U	0.0011 U	0.0059	0.001 U	0.0011 U	0.001 U	0.001 U	0.0012 U
Vinyl Chloride	0.2	53	220	1.7	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U

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

Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	*BPA-SB-044 0 - 2 2/3/2004	BPA-SB-044 5 - 7 2/3/2004	BPA-SB-044 Dup 5 - 7 2/3/2004	BPA-SB-044 8 - 10 2/3/2004	*BPA-SB-045 0 - 2 2/3/2004	BPA-SB-045 5 - 7 2/3/2004	BPA-SB-045 7 - 9 2/3/2004	*BPA-SB-046 0 - 2 2/3/2004	BPA-SB-046 3 - 5 2/3/2004	BPA-SB-046 6 - 8 2/3/2004
Xylenes (Total)	1000	10000	10000	2600	0.0062 U	0.0054 U	0.0052 U	0.0056 U	0.0067 U	0.0051 U	0.0053 U	0.0048 U	0.0051 U	0.0059 U

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

Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-047 0 - 2 2/12/2004	BPA-SB-047 4 - 6 2/12/2004	BPA-SB-048 0 - 2 2/17/2004	BPA-SB-048 5 - 7 2/17/2004	*BPA-SB-049 0 - 2 2/17/2004	BPA-SB-049 5 - 7 2/17/2004	BPA-SB-050 0 - 2 2/17/2004	BPA-SB-050 5 - 7 2/17/2004	BPA-SB-050 12 - 14 2/17/2004	BPA-SB-051 0 - 2 2/17/2004	BPA-SB-051 5 - 7 2/17/2004
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.63	0.5 U	0.5 U	0.5 U	3.1	0.8
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Mercury															
Mercury	10	840	190000	24	0.06	0.022 U	0.05	0.021 U	0.02 U	0.021 U	0.021 U	0.02 U	0.018 U	0.19	0.021 U
Metal															
Antimony	27	1100	190000	410	0.69 U	0.76 U	0.68 U	0.74 U	0.68 U	0.72 U	0.74 U	0.7 U	0.61 U	0.73 U	0.71 U
Arsenic	150	53	190000	1.6	4.4	6.1	6.3	6.7	4.7	6.2	6.3	5.4	7.5	4.9	5.4
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.47	0.8	0.48	0.56	0.48	0.57	0.8	0.52	0.63	0.71	0.52
Cadmium	38	210	190000	800	0.1 B	0.052 U	1.8	0.05 B	0.21 B	0.05 U	0.1 B	0.048 U	0.06 B	18.3	0.36 B
Chromium				1400	21.4	20.1	18.8	24.8	10.7	24.5	15.7	20.7	24	22.6	20.1
Copper	36000	100000	190000	41000	26.8	17.2	69.7	22.6	8.8	22.1	15.7	21.6	23.4	26.2	20.3
Lead	450	1000	190000	800	18.3	14.3	34.7	13.5	13.5	12.6	21.4	11	13.9	40.4	11.5
Nickel	650	56000	190000	20000	17.9	13.8	9.1	15.2	4.5 B	15	11.2	13.5	16.6	12	14
Selenium	26	14000	190000	5100	0.5 U	0.55 U	0.55 B	0.53 U	0.49 U	0.53 U	0.54 U	0.51 U	0.44 U	0.53 U	0.52 U
Silver	84	14000	190000	5100	0.17 U	0.18 U	0.16 U	0.18 U	0.16 U	0.18 U	0.18 U	0.17 U	0.15 U	0.18 U	0.17 U
Thallium	14	200	190000	66	0.56 U	0.61 U	0.55 U	0.6 U	0.55 U	0.59 U	0.6 U	0.57 U	0.99 U	0.59 U	0.58 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	32.3	47.3	110	52.5	22.6	49.8	53.2	48.9	50.2	139	43.8
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Arochlor-1221	2.5	160	10000	0.62	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Arochlor-1232	2	160	10000	0.62	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Arochlor-1242	62	160	10000	0.74	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Arochlor-1248	67	44	10000	0.74	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Arochlor-1254	280	44	10000	0.74	0.022 J	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Arochlor-1260	1900	130	190000	0.74	0.046 J	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
PCBs (Total)				0.74	0.068	0.087 U	0.078 U	0.085 U	0.078 U	0.084 U	0.085 U	0.081 U	0.071 U	0.084 U	0.082 U
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.04 U	0.043 U	0.039 U	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
1,3-Dichlorobenzene	61	10000	10000		0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
1,4-Dichlorobenzene	10	3300	190000	13	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2,4-Dichlorophenol	2	8400	190000	1800	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2,4-Dimethylphenol	200	10000	10000	12000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.4 U	1.7 U	1.6 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.083 U	0.085 U	0.08 U	0.07 U	0.084 U	0.082 U
2,6-Dinitrotoluene	10	2800	190000	620	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.083 U	0.085 U	0.08 U	0.07 U	0.084 U	0.082 U
2-Chloronaphthalene	18000	190000	190000	82000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2-Chlorophenol	4.4	920	1100	5100	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2-Methylnaphthalene	8000	10000	10000	4100	0.4 U	0.43 U	0.17 J	0.42 U	0.39 U	0.42 U	0.043 J	0.4 U	0.35 U	0.42 U	0.41 U
2-Methylphenol	510	10000	10000	31000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
2-Nitroaniline	0.58	160	190000	1800	0.8 U	0.87 U	0.78 U	0.85 U	0.78 U	0.83 U	0.85 U	0.8 U	0.7 U	0.84 U	0.82 U
2-Nitrophenol	82	22000	190000		0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.8 U	0.87 U	0.78 U	0.85 U	0.78 U	0.83 U	0.85 U	0.8 U	0.7 U	0.84 U	0.82 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-047 0 - 2 2/12/2004	BPA-SB-047 4 - 6 2/12/2004	BPA-SB-048 0 - 2 2/17/2004	BPA-SB-048 5 - 7 2/17/2004	*BPA-SB-049 0 - 2 2/17/2004	BPA-SB-049 5 - 7 2/17/2004	BPA-SB-050 0 - 2 2/17/2004	BPA-SB-050 5 - 7 2/17/2004	BPA-SB-050 12 - 14 2/17/2004	BPA-SB-051 0 - 2 2/17/2004	BPA-SB-051 5 - 7 2/17/2004
3/4-Methylphenol				5100											
3-Nitroaniline	0.58	160	190000		0.8 U	0.87 U	0.78 U	0.85 U	0.78 U	0.83 U	0.85 U	0.8 U	0.7 U	0.84 U	0.82 U
4,6-Dinitro-2-Methylphenol				62	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.4 U	1.7 U	1.6 U
4-Bromophenyl phenyl ether					0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
4-Chloroaniline	52	11000	190000	8.6	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
4-Chlorodiphenyl Ether					0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
4-METHYLPHENOL	51	14000	190000	3100	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
4-Nitroaniline	0.58	160	190000	86	0.8 U	0.87 U	0.78 U	0.85 U	0.78 U	0.83 U	0.85 U	0.8 U	0.7 U	0.84 U	0.82 U
4-Nitrophenol	6	22000	190000		1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.4 U	1.7 U	1.6 U
Acenaphthene	4700	170000	190000	33000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Acenaphthylene	6900	170000	190000	33000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Anthracene	350	190000	190000	170000	0.023 J	0.43 U	0.054 J	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Benzo (A) Anthracene	320	110	190000	2.1	0.13	0.043 U	0.2	0.042 U	0.042	0.042 U	0.042 U	0.04 U	0.035 U	0.031 J	0.041 U
Benzo (a) Pyrene	46	11	190000	0.21	0.16	0.043 U	0.21	0.042 U	0.043	0.042 U	0.042 U	0.04 U	0.035 U	0.028 J	0.041 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.15	0.043 U	0.18	0.042 U	0.038 J	0.042 U	0.042 U	0.04 U	0.035 U	0.045	0.041 U
Benzo (g,h,i) Perylene	180	170000	190000		0.11 J	0.43 U	0.22 J	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.15	0.043 U	0.18	0.042 U	0.042	0.042 U	0.042 U	0.04 U	0.035 U	0.04 J	0.041 U
Bis(2-Chloroethoxy) Methane				1800	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.04 U	0.043 U	0.039 U	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.4 U	0.43 U	0.099 J	0.42 U	0.12 J	0.42 U	0.42 U	0.4 U	0.35 U	0.1 J	0.41 U
Butylbenzylphthalate	10000	10000	10000	910	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Carbazole	83	4000	190000		0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Chrysene	230	11000	190000	210	0.17 J	0.43 U	0.25 J	0.42 U	0.055 J	0.42 U	0.054 J	0.4 U	0.35 U	0.066 J	0.41 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.04 U	0.043 U	0.098	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
Dibenzofuran					0.4 U	0.43 U	0.045 J	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Diethylphthalate	500	10000	10000	490000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Dimethylphthalate					0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Di-n-octylphthalate	10000	10000	10000		0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Fluoranthene	3200	110000	190000	22000	0.23 J	0.43 U	0.25 J	0.42 U	0.09 J	0.42 U	0.016 J	0.4 U	0.35 U	0.071 J	0.41 U
Fluorene	3800	110000	190000	22000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Hexachlorobenzene	0.96	50	190000	1.1	0.04 U	0.043 U	0.039 U	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
Hexachlorobutadiene	1.2	560	10000	22	0.08 U	0.087 U	0.078 U	0.085 U	0.078 U	0.083 U	0.085 U	0.08 U	0.07 U	0.084 U	0.082 U
Hexachlorocyclopentadiene	91	10000	10000	3700	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Hexachloroethane	0.56	2800	190000	120	0.04 U	0.043 U	0.039 U	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.1	0.043 U	0.2	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
Isophorone	10	10000	10000	1800	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Naphthalene	25	56000	190000	20	0.4 U	0.43 U	0.14 J	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Nitrobenzene	5.1	1400	10000	22	0.04 U	0.043 U	0.039 U	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.04 U	0.043 U	0.039 U	0.042 U	0.039 U	0.042 U	0.042 U	0.04 U	0.035 U	0.042 U	0.041 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Pentachlorophenol	5	660	190000	9	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.4 U	1.7 U	1.6 U
Phenanthrene	10000	190000	190000		0.11 J	0.43 U	0.32 J	0.42 U	0.029 J	0.42 U	0.084 J	0.4 U	0.35 U	0.08 J	0.41 U
Phenol	400	190000	190000	180000	0.4 U	0.43 U	0.39 U	0.42 U	0.39 U	0.42 U	0.42 U	0.4 U	0.35 U	0.42 U	0.41 U
Pyrene	2200	84000	190000	17000	0.22 J	0.43 U	0.46	0.42 U	0.084 J	0.42 U	0.031 J	0.4 U	0.35 U	0.062 J	0.41 U
Toxicity Characteristic Leaching Procedure - Volatile Organic Compound															
1,1-Dichloroethene	0.7	33	38	1100							0.002 mg/l U	0.1 mg/l U		0.002 mg/l U	0.002 mg/l U
1,2-Dichloroethane	0.5	63	73	2.2							0.002 mg/l U	0.1 mg/l U		0.002 mg/l U	0.002 mg/l U
2-Butanone	580	10000	10000	190000							0.005 mg/l U	0.25 mg/l U		0.005 mg/l U	0.005 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-047 0 - 2 2/12/2004	BPA-SB-047 4 - 6 2/12/2004	BPA-SB-048 0 - 2 2/17/2004	BPA-SB-048 5 - 7 2/17/2004	*BPA-SB-049 0 - 2 2/17/2004	BPA-SB-049 5 - 7 2/17/2004	BPA-SB-050 0 - 2 2/17/2004	BPA-SB-050 5 - 7 2/17/2004	BPA-SB-050 12 - 14 2/17/2004	BPA-SB-051 0 - 2 2/17/2004	BPA-SB-051 5 - 7 2/17/2004
Benzene	0.5	210	240	5.6							0.001 mg/l U	0.05 mg/l U		0.001 mg/l U	0.001 mg/l U
Carbon Tetrachloride	0.5	110	120	1.3							0.002 mg/l U	0.1 mg/l U		0.002 mg/l U	0.002 mg/l U
Chlorobenzene	10	10000	10000	1500							0.005 mg/l U	0.25 mg/l U		0.005 mg/l U	0.005 mg/l U
Chloroform	10	17	19	1.5							0.005 mg/l U	0.25 mg/l U		0.005 mg/l U	0.0044 mg/l J
Tetrachloroethene	0.5	1500	3300	2.7							0.12 mg/l	8.5 mg/l		0.055 mg/l	0.0062 mg/l
Trichloroethene	0.5	970	1100	14							0.013 mg/l	0.091 mg/l		0.021 mg/l	0.0012 mg/l
Vinyl Chloride	0.2	53	220	1.7							0.005 mg/l U	0.25 mg/l U		0.005 mg/l U	0.005 mg/l U
Total Solids															
Percent Solids															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.005 U	0.0057 U	0.0027 J	0.015	0.0047 U	0.0013 J	11 U	110 U	0.0046 U	0.56 U	0.58 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	2.3 U	22 U	0.0009 U	0.11 U	0.12 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.003 U	0.0034 U	0.0031 U	0.0039 U	0.0028 U	0.0032 U	6.9 U	65 U	0.0027 U	0.33 U	0.35 U
1,1-Dichloroethane	11	1000	1200	17	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
1,1-Dichloroethene	0.7	33	38	1100	0.002 U	0.0023 U	0.0021 U	0.0026 U	0.0019 U	0.0021 U	4.6 U	43 U	0.0018 U	0.22 U	0.23 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
1,2-Dichloroethane	0.5	63	73	2.2	0.002 U	0.0023 U	0.0021 U	0.0026 U	0.0019 U	0.0021 U	4.6 U	43 U	0.0018 U	0.22 U	0.23 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	2.3 U	22 U	0.0009 U	0.11 U	0.12 U
1,4-Dioxane	2.4	210	240	160	1 U	1.1 U	1 U	1.3 U	0.93 U	1.1 U	2300 U	22000 U	0.91 U	110 U	120 U
2-Butanone	580	10000	10000	190000	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Acetone	1000	10000	10000	610000	0.046	0.056	0.044	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	0.05 U	0.057 U	0.052 U	0.064 U	0.047 U	0.053 U	110 U	1100 U	0.046 U	5.6 U	5.8 U
Benzene	0.5	210	240	5.6	0.001 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	2.3 U	22 U	0.0009 U	0.11 U	0.12 U
Bromochloromethane	9	10000	10000		0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.0011 U	0.001 U	0.0013 U	0.0009 U	0.0011 U	2.3 U	22 U	0.0009 U	0.11 U	0.12 U
Bromoform	10	1500	1700	220	0.004 U	0.0046 U	0.0042 U	0.0052 U	0.0037 U	0.0043 U	9.2 U	87 U	0.0036 U	0.44 U	0.47 U
Bromomethane	1	270	300	35	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Carbon Disulfide	410	10000	10000	3000	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Carbon Tetrachloride	0.5	110	120	1.3	0.002 U	0.0023 U	0.0021 U	0.0026 U	0.0019 U	0.0021 U	4.6 U	43 U	0.0018 U	0.22 U	0.23 U
Chlorobenzene	10	10000	10000	1500	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Chlorodibromomethane	10	61	70	3.4	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Chloroethane	90	10000	10000	62000	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Chloroform	10	17	19	1.5	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Chloromethane	0.3	920	1000	510	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.005 U	0.0057 U	0.0052 U	0.0012 J	0.0047 U	0.0053 U	11 U	110 U	0.0009 J	0.56 U	0.58 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Ethylbenzene	70	10000	10000	29	0.004 U	0.0046 U	0.0042 U	0.0052 U	0.0037 U	0.0043 U	9.2 U	87 U	0.0036 U	0.44 U	0.47 U
Methyl tert-butyl ether	2	3200	3700	190	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Methylene chloride	0.5	3500	4000	54	0.003 U	0.0034 U	0.0006 JB	0.0039 U	0.0028 U	0.0032 U	6.9 U	65 U	0.0027 U	0.33 U	0.35 U
Styrene	24	10000	10000	38000	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0006 J	0.0006 J	0.007	0.031	0.0009 U	0.0039	210	4100	0.062	5.3	1.2
Toluene	100	10000	10000	46000	0.005 U	0.0057 U	0.0012 JB	0.0012 JB	0.0008 JB	0.001 JB	11 U	110 U	0.0009 JB	0.56 U	0.58 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U
Trichloroethene	0.5	970	1100	14	0.0015	0.0006 J	0.022	0.017	0.0006 J	0.0031	14	110	0.013	0.63	0.25
Vinyl Chloride	0.2	53	220	1.7	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U

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

Table 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	*BPA-SB-047 0 - 2 2/12/2004	BPA-SB-047 4 - 6 2/12/2004	BPA-SB-048 0 - 2 2/17/2004	BPA-SB-048 5 - 7 2/17/2004	*BPA-SB-049 0 - 2 2/17/2004	BPA-SB-049 5 - 7 2/17/2004	BPA-SB-050 0 - 2 2/17/2004	BPA-SB-050 5 - 7 2/17/2004	BPA-SB-050 12 - 14 2/17/2004	BPA-SB-051 0 - 2 2/17/2004	BPA-SB-051 5 - 7 2/17/2004
Xylenes (Total)	1000	10000	10000	2600	0.005 U	0.0057 U	0.0052 U	0.0064 U	0.0047 U	0.0053 U	11 U	110 U	0.0046 U	0.56 U	0.58 U

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

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Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-052 0 - 2 2/18/2004	BPA-SB-052 6 - 8 2/18/2004	BPA-SB-052 Dup 6 - 8 2/18/2004	*BPA-SB-053 0 - 2 3/10/2004	BPA-SB-053 7 - 9 3/10/2004	BPA-SB-054 0 - 1 3/13/2004	BPA-SB-054 7 - 9 3/13/2004	BPA-SB-055 0 - 2 3/13/2004	BPA-SB-055 Dup 0 - 2 3/13/2004	BPA-SB-055 2 - 4 3/13/2004
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U			1.6	0.5 U	
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	2 U	2 U	2 U	2 U	2 U			2 U	2 U	
Mercury														
Mercury	10	840	190000	24	0.02 B	0.021 U	0.021 U	0.06	0.02 U			0.05	0.05	
Metal														
Antimony	27	1100	190000	410	0.99 B	0.48 U	0.57 B	0.46 U	0.48 U			0.47 U	0.47 U	
Arsenic	150	53	190000	1.6	2.6 B	6	2.5 B	4.4	5			6.4	5.1	
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0.29	0.52	0.25 B	0.6	0.43			0.5	0.55	
Cadmium	38	210	190000	800	0.09 B	0.049 U	0.05 U	0.47 B	0.049 U			0.048 U	0.048 U	
Chromium				1400	9.4	22.1	8.5	13.4	15.2			16.7	14.4	
Copper	36000	100000	190000	41000	99.6	23.4	9.3	23.8	17.7			15.1	15.6	
Lead	450	1000	190000	800	27.1	10.5	5.4	35.9	9.9			16.5	16.6	
Nickel	650	56000	190000	20000	6.5	14.2	6.9	7.3	11.9			7.3	6.5	
Selenium	26	14000	190000	5100	0.49 U	0.58 B	0.48 U	0.46 U	0.67			0.65	0.47 U	
Silver	84	14000	190000	5100	1.1 B	0.087 U	0.087 U	0.083 U	0.086 U			0.084 U	0.084 U	
Thallium	14	200	190000	66	0.55 U	0.54 U	0.54 U	0.52 U	0.54 U			0.53 U	0.53 U	
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	167	44.8	40.6	54.7	37.5			29.1	26.9	
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.084 U	0.083 U	0.083 U	0.079 U	0.082 U			0.08 U	0.08 U	
Arochlor-1221	2.5	160	10000	0.62	0.084 U	0.083 U	0.083 U	0.079 U	0.082 U			0.08 U	0.08 U	
Arochlor-1232	2	160	10000	0.62	0.084 U	0.083 U	0.083 U	0.079 U	0.082 U			0.08 U	0.08 U	
Arochlor-1242	62	160	10000	0.74	0.084 U	0.083 U	0.083 U	0.079 U	0.082 U			0.08 U	0.08 U	
Arochlor-1248	67	44	10000	0.74	0.084 U	0.083 U	0.083 U	0.079 U	0.082 U			0.08 U	0.08 U	
Arochlor-1254	280	44	10000	0.74	0.084 U	0.083 U	0.083 U	0.054 J	0.082 U			0.08 U	0.08 U	
Arochlor-1260	1900	130	190000	0.74	0.084 U	0.083 U	0.083 U	0.079 U	0.082 U			0.08 U	0.08 U	
PCBs (Total)				0.74	0.084 U	0.083 U	0.083 U	0.054 J	0.082 U			0.08 U	0.08 U	
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.042 U	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.04 U	
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U			1.6 U	1.6 U	
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.083 U	0.082 U	0.082 U	0.079 U	0.082 U			0.08 U	0.08 U	
2,6-Dinitrotoluene	10	2800	190000	620	0.083 U	0.082 U	0.082 U	0.079 U	0.082 U			0.08 U	0.08 U	
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2-Methylnaphthalene	8000	10000	10000	4100	0.25 J	0.41 U	0.41 U	0.11 J	0.41 U			0.4 U	0.4 U	
2-Methylphenol	510	10000	10000	31000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
2-Nitroaniline	0.58	160	190000	1800	0.83 U	0.82 U	0.82 U	0.79 U	0.82 U			0.8 U	0.8 U	
2-Nitrophenol	82	22000	190000		0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
3,3'-Dichlorobenzidine	32	180	190000	3.8	0.83 U	0.82 U	0.82 U	0.79 U	0.82 U			0.8 U	0.8 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-052 0 - 2 2/18/2004	BPA-SB-052 6 - 8 2/18/2004	BPA-SB-052 Dup 6 - 8 2/18/2004	*BPA-SB-053 0 - 2 3/10/2004	BPA-SB-053 7 - 9 3/10/2004	BPA-SB-054 0 - 1 3/13/2004	BPA-SB-054 7 - 9 3/13/2004	BPA-SB-055 0 - 2 3/13/2004	BPA-SB-055 Dup 0 - 2 3/13/2004	BPA-SB-055 2 - 4 3/13/2004
3/4-Methylphenol				5100										
3-Nitroaniline	0.58	160	190000		0.83 U	0.82 U	0.82 U	0.79 U	0.82 U			0.8 U	0.8 U	
4,6-Dinitro-2-Methylphenol				62	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U			1.6 U	1.6 U	
4-Bromophenyl phenyl ether					0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
4-Chlorodiphenyl Ether					0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
4-METHYLPHENOL	51	14000	190000	3100	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
4-Nitroaniline	0.58	160	190000	86	0.83 U	0.82 U	0.82 U	0.79 U	0.82 U			0.8 U	0.8 U	
4-Nitrophenol	6	22000	190000		1.7 U	1.6 U	1.6 U	1.6 U	1.6 U			1.6 U	1.6 U	
Acenaphthene	4700	170000	190000	33000	1.1	0.41 U	0.41 U	0.091 J	0.41 U			0.4 U	0.4 U	
Acenaphthylene	6900	170000	190000	33000	0.14 J	0.41 U	0.41 U	0.59	0.41 U			0.016 J	0.016 J	
Anthracene	350	190000	190000	170000	1.8	0.41 U	0.41 U	0.48	0.41 U			0.4 U	0.011 J	
Benzo (A) Anthracene	320	110	190000	2.1	3.1	0.041 U	0.041 U	1.7	0.041 U			0.032 J	0.056	
Benzo (a) Pyrene	46	11	190000	0.21	2.2	0.041 U	0.041 U	1.9	0.041 U			0.04 J	0.07	
Benzo (b) Fluoranthene	170	110	190000	2.1	1.9	0.041 U	0.041 U	1.8	0.041 U			0.027 J	0.056	
Benzo (g,h,i) Perylene	180	170000	190000		0.92	0.41 U	0.41 U	0.43	0.41 U			0.029 J	0.066 J	
Benzo (k) Fluoranthene	610	1100	190000	21	2.4	0.041 U	0.041 U	2.2	0.041 U			0.038 J	0.065	
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.042 U	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.04 U	
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Carbazole	83	4000	190000		1	0.41 U	0.41 U	0.071 J	0.41 U			0.4 U	0.4 U	
Chrysene	230	11000	190000	210	2.9	0.41 U	0.41 U	2.2	0.41 U			0.043 J	0.07 J	
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.4	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.021 J	
Dibenzofuran					0.6	0.41 U	0.41 U	0.087 J	0.41 U			0.4 U	0.4 U	
Diethylphthalate	500	10000	10000	490000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Dimethylphthalate					0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Fluoranthene	3200	110000	190000	22000	5	0.41 U	0.41 U	3.2	0.41 U			0.058 J	0.095 J	
Fluorene	3800	110000	190000	22000	0.95	0.41 U	0.41 U	0.14 J	0.41 U			0.4 U	0.4 U	
Hexachlorobenzene	0.96	50	190000	1.1	0.042 U	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.04 U	
Hexachlorobutadiene	1.2	560	10000	22	0.083 U	0.082 U	0.082 U	0.079 U	0.082 U			0.08 U	0.08 U	
Hexachlorocyclopentadiene	91	10000	10000	3700	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Hexachloroethane	0.56	2800	190000	120	0.042 U	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.04 U	
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.96	0.041 U	0.041 U	0.54	0.041 U			0.024 J	0.058	
Isophorone	10	10000	10000	1800	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Naphthalene	25	56000	190000	20	0.74	0.41 U	0.41 U	0.1 J	0.41 U			0.4 U	0.4 U	
Nitrobenzene	5.1	1400	10000	22	0.042 U	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.04 U	
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.042 U	0.041 U	0.041 U	0.039 U	0.041 U			0.04 U	0.04 U	
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Pentachlorophenol	5	660	190000	9	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U			1.6 U	1.6 U	
Phenanthrene	10000	190000	190000		5.8	0.41 U	0.41 U	1.7	0.41 U			0.027 J	0.02 J	
Phenol	400	190000	190000	180000	0.42 U	0.41 U	0.41 U	0.39 U	0.41 U			0.4 U	0.4 U	
Pyrene	2200	84000	190000	17000	4.4	0.41 U	0.41 U	3.2	0.41 U			0.09 J	0.12 J	
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										

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	*BPA-SB-052 0 - 2 2/18/2004	BPA-SB-052 6 - 8 2/18/2004	BPA-SB-052 Dup 6 - 8 2/18/2004	*BPA-SB-053 0 - 2 3/10/2004	BPA-SB-053 7 - 9 3/10/2004	BPA-SB-054 0 - 1 3/13/2004	BPA-SB-054 7 - 9 3/13/2004	BPA-SB-055 0 - 2 3/13/2004	BPA-SB-055 Dup 0 - 2 3/13/2004	BPA-SB-055 2 - 4 3/13/2004
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														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0009 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.001 U	0.0012 U	0.0013 U	0.001 U	0.0011 U	0.099 U	0.11 U	0.001 U	0.001 U	0.0011 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0032 U	0.0034 U	0.0038 U	0.003 U	0.0034 U	0.3 U	0.32 U	0.003 U	0.0029 U	0.0032 U
1,1-Dichloroethane	11	1000	1200	17	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
1,1-Dichloroethene	0.7	33	38	1100	0.0021 U	0.0023 U	0.0025 U	0.002 U	0.0023 U	0.2 U	0.22 U	0.002 U	0.0019 U	0.0022 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0021 U	0.0023 U	0.0025 U	0.002 U	0.0023 U	0.2 U	0.22 U	0.002 U	0.0019 U	0.0022 U
1,2-Dichloropropane	0.5	160	180	4.7	0.001 U	0.0012 U	0.0013 U	0.001 U	0.0011 U	0.099 U	0.11 U	0.001 U	0.001 U	0.0011 U
1,4-Dioxane	2.4	210	240	160	1 U	1.2 U	1.3 U	0.99 U	1.1 U	99 U	110 U	1 U	0.96 U	1.1 U
2-Butanone	580	10000	10000	190000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0038 J	0.0054 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Acetone	1000	10000	10000	610000	0.031	0.0058 U	0.038	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.031	0.027
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.053 U	0.058 U	0.063 U	0.05 U	0.057 U	4.9 U	5.4 U	0.05 U	0.048 U	0.054 U
Benzene	0.5	210	240	5.6	0.001 U	0.0012 U	0.0013 U	0.001 U	0.0011 U	0.099 U	0.11 U	0.001 U	0.001 U	0.0011 U
Bromochloromethane	9	10000	10000		0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Bromodichloromethane	10	45	51	1.4	0.001 U	0.0012 U	0.0013 U	0.001 U	0.0011 U	0.099 U	0.11 U	0.001 U	0.001 U	0.0011 U
Bromoform	10	1500	1700	220	0.0042 U	0.0046 U	0.0051 U	0.004 U	0.0046 U	0.4 U	0.43 U	0.004 U	0.0038 U	0.0043 U
Bromomethane	1	270	300	35	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Carbon Disulfide	410	10000	10000	3000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0021 U	0.0023 U	0.0025 U	0.002 U	0.0023 U	0.2 U	0.22 U	0.002 U	0.0019 U	0.0022 U
Chlorobenzene	10	10000	10000	1500	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Chlorodibromomethane	10	61	70	3.4	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Chloroethane	90	10000	10000	62000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Chloroform	10	17	19	1.5	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Chloromethane	0.3	920	1000	510	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0009 J	0.0024 J	0.0033 J	0.001 J	0.0048 J	1.1	0.81	0.005 U	0.0048 U	0.0054 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Ethylbenzene	70	10000	10000	29	0.0042 U	0.0046 U	0.0051 U	0.004 U	0.0046 U	0.4 U	0.43 U	0.004 U	0.0038 U	0.0043 U
Methyl tert-butyl ether	2	3200	3700	190	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Methylene chloride	0.5	3500	4000	54	0.0017 JB	0.0018 JB	0.0025 JB	0.0005 JB	0.0006 JB	0.3 U	0.32 U	0.0011 JB	0.0017 JB	0.001 JB
Styrene	24	10000	10000	38000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Tetrachloroethene	0.5	1500	3300	2.7	0.15	0.032	0.064	0.06	0.016	4.7	0.75	0.0026	0.0043	0.052
Toluene	100	10000	10000	46000	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 U	0.0054 U
Trichloroethene	0.5	970	1100	14	0.13	0.029	0.054	0.068	0.032	7.8	0.96	0.0014	0.0024	0.0092
Vinyl Chloride	0.2	53	220	1.7	0.0053 U	0.0058 U	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	*BPA-SB-052 0 - 2 2/18/2004	BPA-SB-052 6 - 8 2/18/2004	BPA-SB-052 Dup 6 - 8 2/18/2004	*BPA-SB-053 0 - 2 3/10/2004	BPA-SB-053 7 - 9 3/10/2004	BPA-SB-054 0 - 1 3/13/2004	BPA-SB-054 7 - 9 3/13/2004	BPA-SB-055 0 - 2 3/13/2004	BPA-SB-055 Dup 0 - 2 3/13/2004	BPA-SB-055 2 - 4 3/13/2004
Xylenes (Total)	1000	10000	10000	2600	0.0053 U	0.0012 J	0.0063 U	0.005 U	0.0057 U	0.49 U	0.54 U	0.005 U	0.0048 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 3.5-1
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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)	BPA-SB-056 0 - 1 4/12/2007	BPA-SB-056 Dup 8 - 10 4/12/2007	BPA-SB-056 8 - 10 4/12/2007	BPA-SB-057 Dup 3 - 5 8/24/2007	BPA-SB-057 3 - 5 8/24/2007	BPA-SB-057 11 - 13 8/24/2007	BPA-SB-058 1 - 3 8/24/2007	BPA-SB-058 13 - 15 8/24/2007	BPA-SB-059 1 - 3 8/24/2007	BPA-SB-059 13 - 15 8/24/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.59 U	0.63 U	0.64 U	0.62 U	0.16 B	0.58 U	0.62 U	0.21 B	0.61 U	0.18 B
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.18 B	0.63 U	0.15 B	0.14 B	0.13 B	0.18 B	0.62 U	0.61 U	0.28 B	0.16 B
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.47 U	0.51 U	0.51 U	0.5 UJ	0.49 UJ	0.48 UJ	0.49 UJ	0.5 UJ	0.48 UJ	0.5 UJ
Mercury														
Mercury	10	840	190000	24	0.15	0.041	0.036 B	0.029 B	0.034 B	0.015 B	0.035 B	0.013 B	0.037 B	0.015 B
Metal														
Antimony	27	1100	190000	410	0.4 B	1.3 U	1.3 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ
Arsenic	150	53	190000	1.6	3.7	3.9	4.3	5.4	5.6	5.1	4.2	4.7	2.6	3.6
Barium	8200	190000	190000	190000	79.4	39.7	41.5	90.1	91.5	35.4	55.4	40.5	45.2	28.7
Beryllium	320	5600	190000	2000	0.6	0.65	0.79	0.84 J	0.96 J	0.63 J	0.71 J	0.73 J	0.61 J	0.72 J
Cadmium	38	210	190000	800	0.68	0.63 U	1.3 U	3.1 UJ	3.1 UJ	2.9 UJ	3.1 UJ	3.1 UJ	3.1 UJ	3.2 UJ
Chromium				1400	26.2	18.8	24.1	22.3	22.6	18.1	21.2	13.5	19.7	15.6
Copper	36000	100000	190000	41000	30.7	19.1	21.8	18.7 J	20 J	15.9 J	18.6 J	16.4 J	31 J	15.6 J
Lead	450	1000	190000	800	42	12.3	15.5	10.2	10	10	10.8	9.3	9.2	8.9
Nickel	650	56000	190000	20000	10.5	14.9	15.4	15.2	15.4	14.5	19.7	13.8	27	12.5
Selenium	26	14000	190000	5100	0.59 U	0.63 U	0.64 U	0.88	0.95	0.81	1.1	0.63	1.4	0.72
Silver	84	14000	190000	5100	0.22 B	0.63 U	0.64 U	0.62 U	0.62 U	0.58 U	0.62 U	0.61 U	0.61 U	0.63 U
Thallium	14	200	190000	66	1.2 U	0.56 B J	0.42 B J	1.4	1.4	0.79 B	1.2	0.49 B	1.5	1.1 B
Vanadium	72000	20000	190000	7200	18.4	25.6	28.2	28.8	26	14.1	28.5	16	22	15.5
Zinc	12000	190000	190000	310000	111	41.3	46.4	51.4 J	56.9 J	47.2 J	76.4 J	44.7 J	119 J	42.7 J
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
Arochlor-1221	2.5	160	10000	0.62	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
Arochlor-1232	2	160	10000	0.62	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
Arochlor-1242	62	160	10000	0.74	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
Arochlor-1248	67	44	10000	0.74	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
Arochlor-1254	280	44	10000	0.74	0.77	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
Arochlor-1260	1900	130	190000	0.74	0.02 U	0.021 U	0.021 U	0.021 U	0.02 U	0.019 U	0.021 U	0.02 U	0.02 U	0.021 U
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2,6-Dinitrotoluene	10	2800	190000	620	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2-Chloronaphthalene	18000	190000	190000	82000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.037 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
2-Nitrophenol	82	22000	190000		0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-056 0 - 1 4/12/2007	BPA-SB-056 Dup 8 - 10 4/12/2007	BPA-SB-056 8 - 10 4/12/2007	BPA-SB-057 Dup 3 - 5 8/24/2007	BPA-SB-057 3 - 5 8/24/2007	BPA-SB-057 11 - 13 8/24/2007	BPA-SB-058 1 - 3 8/24/2007	BPA-SB-058 13 - 15 8/24/2007	BPA-SB-059 1 - 3 8/24/2007	BPA-SB-059 13 - 15 8/24/2007
3/4-Methylphenol				5100	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
3-Nitroaniline	0.58	160	190000		3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
4,6-Dinitro-2-Methylphenol				62	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
4-Bromophenyl phenyl ether					0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
4-Chlorodiphenyl Ether					0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100										
4-Nitroaniline	0.58	160	190000	86	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
4-Nitrophenol	6	22000	190000		3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
Acenaphthene	4700	170000	190000	33000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.051 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Anthracene	350	190000	190000	170000	0.072 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.22 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Benzo (a) Pyrene	46	11	190000	0.21	0.22 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.27 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Benzo (g,h,i) Perylene	180	170000	190000		0.21 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.1 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Bis(2-Chloroethoxy) Methane				1800	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Carbazole	83	4000	190000		0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Chrysene	230	11000	190000	210	0.25 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Dibenzofuran					0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Dimethylphthalate					0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.35 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Fluorene	3800	110000	190000	22000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Hexachlorobutadiene	1.2	560	10000	22	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Hexachlorocyclopentadiene	91	10000	10000	3700	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
Hexachloroethane	0.56	2800	190000	120	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.17 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Isophorone	10	10000	10000	1800	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Naphthalene	25	56000	190000	20	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Pentachlorophenol	5	660	190000	9	3.8 U	2 U	2 U	2 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U
Phenanthrene	10000	190000	190000		0.2 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Phenol	400	190000	190000	180000	0.78 U	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
Pyrene	2200	84000	190000	17000	0.33 J	0.41 U	0.42 U	0.41 U	0.4 U	0.38 U	0.41 U	0.4 U	0.4 U	0.42 U
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										

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-056 0 - 1 4/12/2007	BPA-SB-056 Dup 8 - 10 4/12/2007	BPA-SB-056 8 - 10 4/12/2007	BPA-SB-057 Dup 3 - 5 8/24/2007	BPA-SB-057 3 - 5 8/24/2007	BPA-SB-057 11 - 13 8/24/2007	BPA-SB-058 1 - 3 8/24/2007	BPA-SB-058 13 - 15 8/24/2007	BPA-SB-059 1 - 3 8/24/2007	BPA-SB-059 13 - 15 8/24/2007
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					84.60%	79.70%	78.10%	80.50%	80.70%	85.90%	80.60%	81.80%	81.60%	79%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,1-Dichloroethene	0.7	33	38	1100	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
1,4-Dioxane	2.4	210	240	160	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.97 U	1.1 U	0.97 U	1.1 U
2-Butanone	580	10000	10000	190000	0.0024 J	0.022 U	0.022 U	0.021 U	0.021 U	0.022 U	0.019 U	0.022 U	0.019 U	0.023 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.022 U	0.022 U	0.022 U	0.021 U	0.021 U	0.022 U	0.019 U	0.022 U	0.019 U	0.023 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.022 U	0.022 U	0.022 U	0.021 U	0.021 U	0.022 U	0.019 U	0.022 U	0.019 U	0.023 U
Acetone	1000	10000	10000	610000	0.022 U	0.022 U	0.022 U	0.021 U	0.021 U	0.022 U	0.019 U	0.022 U	0.0049 J	0.023 U
Acrolein	0.012	1.1	1.2	0.68										
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.097 U	0.11 U	0.097 U	0.11 U
Benzene	0.5	210	240	5.6	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Bromochloromethane	9	10000	10000		0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Bromodichloromethane	10	45	51	1.4	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Bromoform	10	1500	1700	220	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Bromomethane	1	270	300	35	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Chlorobenzene	10	10000	10000	1500	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Chlorodibromomethane	10	61	70	3.4	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Chloroethane	90	10000	10000	62000	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Chloroform	10	17	19	1.5	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Chloromethane	0.3	920	1000	510	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Ethylbenzene	70	10000	10000	29	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Methylene chloride	0.5	3500	4000	54	0.0016 J	0.0017 J	0.0017 J	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Styrene	24	10000	10000	38000	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0054 U	0.0055 U	0.0054 U	0.0024 J	0.0065	0.0056 U	0.0048 U	0.003 J	0.0048 U	0.0057 U
Toluene	100	10000	10000	46000	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Trichloroethene	0.5	970	1100	14	0.0031 J	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 U
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.0055 U	0.0054 U	0.0053 U	0.0053 U	0.0056 U	0.0048 U	0.0054 U	0.0048 U	0.0057 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	BPA-SB-056 0 - 1 4/12/2007	BPA-SB-056 Dup 8 - 10 4/12/2007	BPA-SB-056 8 - 10 4/12/2007	BPA-SB-057 Dup 3 - 5 8/24/2007	BPA-SB-057 3 - 5 8/24/2007	BPA-SB-057 11 - 13 8/24/2007	BPA-SB-058 1 - 3 8/24/2007	BPA-SB-058 13 - 15 8/24/2007	BPA-SB-059 1 - 3 8/24/2007	BPA-SB-059 13 - 15 8/24/2007
Xylenes (Total)	1000	10000	10000	2600	0.016 U	0.017 U	0.016 U	0.016 U	0.016 U	0.017 U	0.015 U	0.016 U	0.015 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-060 2 - 4 8/22/2007	BPA-SB-060 13 - 15 8/22/2007	BPA-SB-061 1 - 3 8/22/2007	BPA-SB-061 13 - 15 8/22/2007	BPA-SB-062 1 - 3 8/22/2007	BPA-SB-062 13 - 15 8/22/2007	BPA-SB-063 1 - 3 8/22/2007	BPA-SB-063 13 - 15 8/22/2007	BPA-SB-064 2 - 4 8/22/2007	BPA-SB-064 13 - 15 8/22/2007	BPA-SB-065 2 - 4 8/22/2007
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000	0.64 U	0.61 U	0.63 U	0.64 U	0.62 U	0.62 U	0.63 U	0.62 U	0.64 U	0.6 U	0.64 U
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	2.1	1.3	0.63 U	0.64 U	0.62 U	0.62 U	0.17 B	0.13 B	0.29 B	0.6 U	0.14 B
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	0.63	0.5 U	0.51 U	0.5 U	0.5 U	0.18 B	0.49 U	0.48 U	0.51 U	0.48 U	0.52 U
Mercury															
Mercury	10	840	190000	24	0.025 B	0.0093 B	0.033 B	0.017 B	0.028 B	0.012 B	0.036 B	0.017 B	0.016 B	0.011 B	0.016 B
Metal															
Antimony	27	1100	190000	410	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U
Arsenic	150	53	190000	1.6	3.3	2.9	2.8	4.3	1.6	5.8	3.8	3.7	2.6	3.7	5.4
Barium	8200	190000	190000	190000	201	29.2	75.5	38.1	65.3	44	60.1	38.1	149	27.4	75.1
Beryllium	320	5600	190000	2000	0.98 J	0.63 J	0.75 J	0.69 J	0.6 J	0.74 J	0.66 J	0.64 J	1.1 J	0.62 J	0.8 J
Cadmium	38	210	190000	800	0.11 B	0.61 U	0.17 B	0.07 B	0.26 B	0.12 B	0.18 B	0.11 B	0.64 U	0.15 B	0.14 B
Chromium				1400	15	12.1	16.7	14.8	19.4	16.5	21.4	14.8	13	14.6	22.7
Copper	36000	100000	190000	41000	8.5	14.6	18.8	14.9	19.8	14.6	41.1	15.8	8	16.1	16.8
Lead	450	1000	190000	800	11	8.2	11.5	9.9	8.9	11.8	15.2	10	10	9	12.3
Nickel	650	56000	190000	20000	10.1	11.3	21.2	11.9	24.2	11.7	20.8	13	10.4	12.5	14.7
Selenium	26	14000	190000	5100	3.2 U	0.48 B	0.63 U	0.42 B	0.46 B	0.58 B	0.97	0.62 U	0.64 U	0.41 B	0.76
Silver	84	14000	190000	5100	1.3	0.61 U	0.27 B	0.64 U	0.13 B	0.62 U	0.095 B	0.62 U	0.1 B	0.6 U	0.64 U
Thallium	14	200	190000	66	6.4 U	1 B	2	1.4	1.6	1.8	1.6	1.3	1.3	1.3	1.6
Vanadium	72000	20000	190000	7200	15.5	14	20.2	19.4	19.6	16.3	21.3	17.5	13.8	15.7	28.9
Zinc	12000	190000	190000	310000	37.7 J	37.8 J	77 J	42.9 J	90.4 J	43.2 J	69.5 J	45.4 J	37.7 J	42 J	49.2 J
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
Arochlor-1221	2.5	160	10000	0.62	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
Arochlor-1232	2	160	10000	0.62	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
Arochlor-1242	62	160	10000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
Arochlor-1248	67	44	10000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
Arochlor-1254	280	44	10000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
Arochlor-1260	1900	130	190000	0.74	0.021 U	0.02 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U
PCBs (Total)				0.74											
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2,6-Dinitrotoluene	10	2800	190000	620	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2-Chloronaphthalene	18000	190000	190000	82000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2-Methylphenol	510	10000	10000	31000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
2-Nitrophenol	82	22000	190000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-060 2 - 4 8/22/2007	BPA-SB-060 13 - 15 8/22/2007	BPA-SB-061 1 - 3 8/22/2007	BPA-SB-061 13 - 15 8/22/2007	BPA-SB-062 1 - 3 8/22/2007	BPA-SB-062 13 - 15 8/22/2007	BPA-SB-063 1 - 3 8/22/2007	BPA-SB-063 13 - 15 8/22/2007	BPA-SB-064 2 - 4 8/22/2007	BPA-SB-064 13 - 15 8/22/2007	BPA-SB-065 2 - 4 8/22/2007
3/4-Methylphenol				5100	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
3-Nitroaniline	0.58	160	190000		2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
4,6-Dinitro-2-Methylphenol				62	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
4-Bromophenyl phenyl ether					0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
4-Chlorodiphenyl Ether					0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
4-METHYLPHENOL	51	14000	190000	3100											
4-Nitroaniline	0.58	160	190000	86	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
4-Nitrophenol	6	22000	190000		2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
Acenaphthene	4700	170000	190000	33000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Anthracene	350	190000	190000	170000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.022 J
Benzo (a) Pyrene	46	11	190000	0.21	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.048 J
Benzo (g,h,i) Perylene	180	170000	190000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.022 J
Benzo (k) Fluoranthene	610	1100	190000	21	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.016 J
Bis(2-Chloroethoxy) Methane				1800	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Carbazole	83	4000	190000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Chrysene	230	11000	190000	210	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.027 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Dibenzofuran					0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Diethylphthalate	500	10000	10000	490000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Dimethylphthalate					0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.027 J
Fluorene	3800	110000	190000	22000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Hexachlorobutadiene	1.2	560	10000	22	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
Hexachloroethane	0.56	2800	190000	120	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Isophorone	10	10000	10000	1800	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Naphthalene	25	56000	190000	20	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Pentachlorophenol	5	660	190000	9	2.1 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	2 U	1.9 U	2 U
Phenanthrene	10000	190000	190000		0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Phenol	400	190000	190000	180000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
Pyrene	2200	84000	190000	17000	0.42 U	0.4 U	0.42 U	0.43 U	0.41 U	0.41 U	0.41 U	0.41 U	0.42 U	0.4 U	0.42 U
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											

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-060 2 - 4 8/22/2007	BPA-SB-060 13 - 15 8/22/2007	BPA-SB-061 1 - 3 8/22/2007	BPA-SB-061 13 - 15 8/22/2007	BPA-SB-062 1 - 3 8/22/2007	BPA-SB-062 13 - 15 8/22/2007	BPA-SB-063 1 - 3 8/22/2007	BPA-SB-063 13 - 15 8/22/2007	BPA-SB-064 2 - 4 8/22/2007	BPA-SB-064 13 - 15 8/22/2007	BPA-SB-065 2 - 4 8/22/2007
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					77.70%	82.10%	78.80%	77.60%	80.90%	81.20%	79.90%	81.10%	78%	83.20%	77.60%
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,1-Dichloroethane	11	1000	1200	17	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,1-Dichloroethene	0.7	33	38	1100	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
1,4-Dioxane	2.4	210	240	160	1.2 U	1 U	1.2 U	1.1 U	1.1 U	1 U	1 U	1 U	1.1 U	1.1 U	1.1 U
2-Butanone	580	10000	10000	190000	0.023 U	0.021 U	0.023 U	0.022 U	0.021 U	0.02 U	0.021 U	0.021 U	0.022 U	0.022 U	0.021 U
2-Chloroethyl Vinyl Ether															
2-Hexanone					0.023 U	0.021 U	0.023 U	0.022 U	0.021 U	0.02 U	0.021 U	0.021 U	0.022 U	0.022 U	0.021 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.023 U	0.021 U	0.023 U	0.022 U	0.021 U	0.02 U	0.021 U	0.021 U	0.022 U	0.022 U	0.021 U
Acetone	1000	10000	10000	610000	0.023 U	0.021 U	0.023 U	0.022 U	0.0066 J	0.02 U	0.021 U	0.021 U	0.022 U	0.022 U	0.021 U
Acrolein	0.012	1.1	1.2	0.68											
Acrylonitrile	0.27	24	28	1.2	0.12 U	0.1 U	0.12 U	0.11 U	0.11 U	0.1 U	0.1 U	0.1 U	0.11 U	0.11 U	0.11 U
Benzene	0.5	210	240	5.6	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Bromochloromethane	9	10000	10000		0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Bromodichloromethane	10	45	51	1.4	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Bromoform	10	1500	1700	220	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Bromomethane	1	270	300	35	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Carbon Disulfide	410	10000	10000	3000	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Chlorobenzene	10	10000	10000	1500	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Chlorodibromomethane	10	61	70	3.4	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Chloroethane	90	10000	10000	62000	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Chloroform	10	17	19	1.5	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Chloromethane	0.3	920	1000	510	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Ethylbenzene	70	10000	10000	29	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Methyl tert-butyl ether	2	3200	3700	190	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Methylene chloride	0.5	3500	4000	54	0.0083	0.0062	0.0079	0.0031 J	0.0032 J	0.008	0.008	0.0032 J	0.0036 J	0.0033 J	0.0032 J
Styrene	24	10000	10000	38000	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0058 U	0.0052 U	0.0058 U	0.031	0.0053 U	0.0017 J	0.0052 U	0.028	0.029	0.0055 U	0.0056
Toluene	100	10000	10000	46000	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 U	0.0054 U
Trichloroethene	0.5	970	1100	14	0.012	0.0013 J	0.0058 U	0.0048 J	0.0053 U	0.005 U	0.0052 U	0.0038 J	0.0078	0.0055 U	0.0042 J
Vinyl Chloride	0.2	53	220	1.7	0.0058 U	0.0052 U	0.0058 U	0.0055 U	0.0053 U	0.005 U	0.0052 U	0.0052 U	0.0054 U	0.0055 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-060 2 - 4 8/22/2007	BPA-SB-060 13 - 15 8/22/2007	BPA-SB-061 1 - 3 8/22/2007	BPA-SB-061 13 - 15 8/22/2007	BPA-SB-062 1 - 3 8/22/2007	BPA-SB-062 13 - 15 8/22/2007	BPA-SB-063 1 - 3 8/22/2007	BPA-SB-063 13 - 15 8/22/2007	BPA-SB-064 2 - 4 8/22/2007	BPA-SB-064 13 - 15 8/22/2007	BPA-SB-065 2 - 4 8/22/2007
Xylenes (Total)	1000	10000	10000	2600	0.017 U	0.016 U	0.018 U	0.017 U	0.016 U	0.015 U	0.016 U	0.016 U	0.016 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.

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Soils Data Summary - Burn Pile Area (BPA)
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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)	BPA-SB-065 13 - 15 8/22/2007	BPA-SB-066 2 - 4 8/22/2007	BPA-SB-066 Dup 13 - 15 8/22/2007	BPA-SB-066 13 - 15 8/22/2007	BPA-SB-067 0 - 2 4/12/2007	BPA-SB-067 8 - 10 4/12/2007	BPA-SB-068 2 - 4 8/24/2007	BPA-SB-068 13 - 15 8/24/2007	BPA-SB-069 2 - 4 8/22/2007	BPA-SB-069 10 - 12 8/22/2007	EW-1 6.5 - 7 3/8/2007
Cyanide, Free															
Cyanide, Free	200	56000	190000	20000	0.6 U	0.64 U	0.61 U	0.62 U	0.61 U	0.62 U	0.63 U	0.58 U	0.61 U	0.59 U	
Cyanide, Total															
Cyanide, Total	200	56000	190000	20000	0.6 U	0.17 B	0.61 U	0.62 U	0.3 B	0.62 U	0.16 B	0.58 U	0.61 U	0.59 U	
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200	0.48 U	0.52 U	0.49 U	0.5 U	0.49 U	0.5 U	0.51 UJ	0.46 UJ	0.49 U	0.46 U	
Mercury															
Mercury	10	840	190000	24	0.012 B	0.01 B	0.015 B	0.019 B	1.2	0.041	0.024 B	0.013 B	0.017 B	0.011 B	
Metal															
Antimony	27	1100	190000	410	1.2 U	1.3 U	1.2 U	1.2 U	0.35 B	1.2 U	1.3 U	1.2 UJ	1.2 U	1.2 U	
Arsenic	150	53	190000	1.6	5.7	3	3.6	3.9	4.9	3.1	3.8	4.2	5.1	3.4	
Barium	8200	190000	190000	190000	33.1	134	30.6	29.6	96.1	117	104	34.4	47.7	31.7	
Beryllium	320	5600	190000	2000	0.68 J	0.92 J	0.58 J	0.59 J	0.56	0.61	1 J	0.66 J	0.73 J	0.54 J	
Cadmium	38	210	190000	800	0.15 B	0.076 B	0.12 B	0.11 B	0.92	0.62 U	1.3 UJ	2.9 UJ	0.19 B	0.087 B	
Chromium				1400	16.3	15.4	15	15.1	20.2	16.7	15.1	16	22.1	13.5	
Copper	36000	100000	190000	41000	19.3	11.3	14	15	45.5	17.4	12 J	15.5 J	19.1	14.6	
Lead	450	1000	190000	800	14.5	9.9	9.2	9.9	51.6	11.9	11.5	10	11.7	8.7	
Nickel	650	56000	190000	20000	16.6	11.3 E	11.5	12.4	14.1	13.4	11.2	13.8	13.7	11.5	
Selenium	26	14000	190000	5100	0.49 B	0.52 B	0.61 U	0.62 U	0.61 U	0.62 U	0.69	0.54 B	0.63	0.41 B	
Silver	84	14000	190000	5100	0.6 U	0.64 U	0.61 U	0.62 U	0.23 B	0.62 U	0.63 U	0.58 U	0.61 U	0.59 U	
Thallium	14	200	190000	66	1.3	1.8	1.3	1.2	1.2 U	1.2 U	0.98 B	0.65 B	1.3	1 B	
Vanadium	72000	20000	190000	7200	14.6	18	16.2	16.1	17.2	23	18.2	14.7	26.6	15.6	
Zinc	12000	190000	190000	310000	49.2 J	40.7 J E	42 J	42.1 J	180	39.5	40.9 J	43.2 J	46.3 J	40.8 J	
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21	0.02 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
Arochlor-1221	2.5	160	10000	0.62	0.02 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
Arochlor-1232	2	160	10000	0.62	0.02 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
Arochlor-1242	62	160	10000	0.74	0.02 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
Arochlor-1248	67	44	10000	0.74	0.02 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
Arochlor-1254	280	44	10000	0.74	0.02 U	0.021 U	0.02 U	0.021 U	0.18	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
Arochlor-1260	1900	130	190000	0.74	0.02 U	0.021 U	0.02 U	0.021 U	0.02 U	0.021 U	0.021 U	0.019 U	0.02 U	0.02 U	
PCBs (Total)				0.74											
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2,6-Dinitrotoluene	10	2800	190000	620	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2-Methylnaphthalene	8000	10000	10000	4100	0.39 U	0.42 U	0.4 U	0.41 U	0.048 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2-Methylphenol	510	10000	10000	31000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
2-Nitroaniline	0.58	160	190000	1800	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
2-Nitrophenol	82	22000	190000		0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	

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Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-065 13 - 15 8/22/2007	BPA-SB-066 2 - 4 8/22/2007	BPA-SB-066 Dup 13 - 15 8/22/2007	BPA-SB-066 13 - 15 8/22/2007	BPA-SB-067 0 - 2 4/12/2007	BPA-SB-067 8 - 10 4/12/2007	BPA-SB-068 2 - 4 8/24/2007	BPA-SB-068 13 - 15 8/24/2007	BPA-SB-069 2 - 4 8/22/2007	BPA-SB-069 10 - 12 8/22/2007	EW-1 6.5 - 7 3/8/2007
3/4-Methylphenol				5100	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
3-Nitroaniline	0.58	160	190000		1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
4,6-Dinitro-2-Methylphenol				62	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
4-Bromophenyl phenyl ether					0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
4-Chlorodiphenyl Ether					0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
4-METHYLPHENOL	51	14000	190000	3100											
4-Nitroaniline	0.58	160	190000	86	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
4-Nitrophenol	6	22000	190000		1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
Acenaphthene	4700	170000	190000	33000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Acenaphthylene	6900	170000	190000	33000	0.39 U	0.42 U	0.4 U	0.41 U	0.038 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Anthracene	350	190000	190000	170000	0.39 U	0.42 U	0.4 U	0.41 U	0.029 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Benzo (A) Anthracene	320	110	190000	2.1	0.017 J	0.42 U	0.4 U	0.41 U	0.14 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Benzo (a) Pyrene	46	11	190000	0.21	0.024 J	0.42 U	0.4 U	0.41 U	0.18 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Benzo (b) Fluoranthene	170	110	190000	2.1	0.39 U	0.42 U	0.4 U	0.41 U	0.22 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Benzo (g,h,i) Perylene	180	170000	190000		0.39 U	0.42 U	0.4 U	0.41 U	0.18 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Benzo (k) Fluoranthene	610	1100	190000	21	0.39 U	0.42 U	0.4 U	0.41 U	0.08 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.39 U	0.42 U	0.4 U	0.41 U	0.027 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Carbazole	83	4000	190000		0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Chrysene	230	11000	190000	210	0.017 J	0.42 U	0.4 U	0.41 U	0.17 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.39 U	0.42 U	0.4 U	0.41 U	0.026 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Dibenzofuran					0.39 U	0.42 U	0.4 U	0.41 U	0.023 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Diethylphthalate	500	10000	10000	490000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Dimethylphthalate					0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Fluoranthene	3200	110000	190000	22000	0.39 U	0.42 U	0.4 U	0.41 U	0.17 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Fluorene	3800	110000	190000	22000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Hexachlorobenzene	0.96	50	190000	1.1	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Hexachlorobutadiene	1.2	560	10000	22	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
Hexachloroethane	0.56	2800	190000	120	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.39 U	0.42 U	0.4 U	0.41 U	0.15 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Isophorone	10	10000	10000	1800	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Naphthalene	25	56000	190000	20	0.39 U	0.42 U	0.4 U	0.41 U	0.044 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Nitrobenzene	5.1	1400	10000	22	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Pentachlorophenol	5	660	190000	9	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	
Phenanthrene	10000	190000	190000		0.39 U	0.42 U	0.4 U	0.41 U	0.11 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Phenol	400	190000	190000	180000	0.39 U	0.42 U	0.4 U	0.41 U	0.4 U	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
Pyrene	2200	84000	190000	17000	0.024 J	0.42 U	0.4 U	0.41 U	0.16 J	0.41 U	0.41 U	0.38 U	0.4 U	0.38 U	
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											

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	BPA-SB-065 13 - 15 8/22/2007	BPA-SB-066 2 - 4 8/22/2007	BPA-SB-066 Dup 13 - 15 8/22/2007	BPA-SB-066 13 - 15 8/22/2007	BPA-SB-067 0 - 2 4/12/2007	BPA-SB-067 8 - 10 4/12/2007	BPA-SB-068 2 - 4 8/24/2007	BPA-SB-068 13 - 15 8/24/2007	BPA-SB-069 2 - 4 8/22/2007	BPA-SB-069 10 - 12 8/22/2007	EW-1 6.5 - 7 3/8/2007
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					83.10%	78.60%	82.60%	80.50%	82.40%	80.50%	79.90%	86.40%	81.40%	85.20%	80.80%
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
1,4-Dioxane	2.4	210	240	160	1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U	1 U	1.1 U	1 U	46 U
2-Butanone	580	10000	10000	190000	0.02 U	0.022 U	0.021 U	0.023 U	0.024 U	0.022 U	0.021 U	0.02 U	0.022 U	0.02 U	0.23 U
2-Chloroethyl Vinyl Ether															0.46 U
2-Hexanone					0.02 U	0.022 U	0.021 U	0.023 U	0.024 U	0.022 U	0.021 U	0.02 U	0.022 U	0.02 U	
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U	0.022 U	0.021 U	0.023 U	0.024 U	0.022 U	0.021 U	0.02 U	0.022 U	0.02 U	
Acetone	1000	10000	10000	610000	0.02 U	0.022 U	0.021 U	0.023 U	0.024 U	0.022 U	0.021 U	0.02 U	0.022 U	0.02 U	
Acrolein	0.012	1.1	1.2	0.68											4.6 U
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.11 U	0.11 U	0.12 U	0.12 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	4.6 U
Benzene	0.5	210	240	5.6	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Bromochloromethane	9	10000	10000		0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Bromoform	10	1500	1700	220	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Bromomethane	1	270	300	35	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Chloroform	10	17	19	1.5	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.15 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Ethylbenzene	70	10000	10000	29	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	
Methylene chloride	0.5	3500	4000	54	0.0032 J	0.0028 J	0.0027 J	0.004 J	0.006 U	0.0011 J	0.0052 U	0.0051 U	0.003 J	0.0034 J	0.042 J
Styrene	24	10000	10000	38000	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	
Tetrachloroethene	0.5	1500	3300	2.7	0.0031 J	0.0056 U	0.0089	0.0016 J	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.068	0.08	0.58
Toluene	100	10000	10000	46000	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 U
Trichloroethene	0.5	970	1100	14	0.0021 J	0.0056 U	0.0054	0.0014 J	0.006 U	0.0054 U	0.0014 J	0.0051 U	0.0039 J	0.0069	0.61
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.0056 U	0.0053 U	0.0058 U	0.006 U	0.0054 U	0.0052 U	0.0051 U	0.0055 U	0.0051 U	0.23 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	BPA-SB-065 13 - 15 8/22/2007	BPA-SB-066 2 - 4 8/22/2007	BPA-SB-066 Dup 13 - 15 8/22/2007	BPA-SB-066 13 - 15 8/22/2007	BPA-SB-067 0 - 2 4/12/2007	BPA-SB-067 8 - 10 4/12/2007	BPA-SB-068 2 - 4 8/24/2007	BPA-SB-068 13 - 15 8/24/2007	BPA-SB-069 2 - 4 8/22/2007	BPA-SB-069 10 - 12 8/22/2007	EW-1 6.5 - 7 3/8/2007
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.017 U	0.016 U	0.017 U	0.018 U	0.016 U	0.016 U	0.015 U	0.016 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	EW-1 14 - 14.5 3/8/2007	EW-1 15.5 - 16 3/8/2007	HD-A-SS-13-02-001 8/4/2004	PZ-E5 9 - 9.5 3/8/2007	PZ-E5 14 - 14.5 3/8/2007	PZ-E5 19.5 - 20 3/8/2007	PZ-E15 9 - 9.5 3/8/2007	PZ-E15 15 - 15.5 3/8/2007	PZ-E15 19.5 - 20 3/8/2007	PZ-S5 9.5 - 10 3/8/2007	PZ-S5 13 - 13.5 3/8/2007	PZ-S5 14 - 14.5 3/8/2007	PZ-S15 11.5 - 12 3/8/2007
Cyanide, Free																	
Cyanide, Free	200	56000	190000	20000													
Cyanide, Total																	
Cyanide, Total	200	56000	190000	20000													
Hexavalent Chromium																	
Hexavalent Chromium	190	420	190000	200			2 U										
Mercury																	
Mercury	10	840	190000	24			0.03										
Metal																	
Antimony	27	1100	190000	410			0.67 U										
Arsenic	150	53	190000	1.6			3.3										
Barium	8200	190000	190000	190000													
Beryllium	320	5600	190000	2000			0.55										
Cadmium	38	210	190000	800			0.14 B										
Chromium				1400			12.1										
Copper	36000	100000	190000	41000			17.6										
Lead	450	1000	190000	800			208										
Nickel	650	56000	190000	20000			6.8										
Selenium	26	14000	190000	5100			0.48 U										
Silver	84	14000	190000	5100			0.16 U										
Thallium	14	200	190000	66			0.54 U										
Vanadium	72000	20000	190000	7200													
Zinc	12000	190000	190000	310000			39.1										
Polychlorinated Biphenols																	
Arochlor-1016	200	200	10000	21			0.077 U										
Arochlor-1221	2.5	160	10000	0.62			0.077 U										
Arochlor-1232	2	160	10000	0.62			0.077 U										
Arochlor-1242	62	160	10000	0.74			0.077 U										
Arochlor-1248	67	44	10000	0.74			0.077 U										
Arochlor-1254	280	44	10000	0.74			0.077 U										
Arochlor-1260	1900	130	190000	0.74			0.077 U										
PCBs (Total)				0.74			0.077 U										
Semi Volatile Organic Compound																	
1,2,4-Trichlorobenzene	27	10000	10000	400			0.038 U										
1,2-Dichlorobenzene	60	10000	10000	10000			0.38 U										
1,3-Dichlorobenzene	61	10000	10000				0.38 U										
1,4-Dichlorobenzene	10	3300	190000	13			0.38 U										
2,4,5-Trichlorophenol	6100	190000	190000	62000			0.38 U										
2,4,6-Trichlorophenol	8.9	840	190000	160			0.38 U										
2,4-Dichlorophenol	2	8400	190000	1800			0.38 U										
2,4-Dimethylphenol	200	10000	10000	12000			0.38 U										
2,4-Dinitrophenol	4.1	5600	190000	1200			1.5 U										
2,4-Dinitrotoluene	0.84	260	190000	5.5			0.077 U										
2,6-Dinitrotoluene	10	2800	190000	620			0.077 U										
2-Chloronaphthalene	18000	190000	190000	82000			0.38 U										
2-Chlorophenol	4.4	920	1100	5100			0.38 U										
2-Methylnaphthalene	8000	10000	10000	4100			0.38 U										
2-Methylphenol	510	10000	10000	31000			0.38 U										
2-Nitroaniline	0.58	160	190000	1800			0.77 U										
2-Nitrophenol	82	22000	190000				0.38 U										
3,3'-Dichlorobenzidine	32	180	190000	3.8			0.77 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	EW-1 14 - 14.5 3/8/2007	EW-1 15.5 - 16 3/8/2007	HD-A-SS-13-02-001 8/4/2004	PZ-E5 9 - 9.5 3/8/2007	PZ-E5 14 - 14.5 3/8/2007	PZ-E5 19.5 - 20 3/8/2007	PZ-E15 9 - 9.5 3/8/2007	PZ-E15 15 - 15.5 3/8/2007	PZ-E15 19.5 - 20 3/8/2007	PZ-S5 9.5 - 10 3/8/2007	PZ-S5 13 - 13.5 3/8/2007	PZ-S5 14 - 14.5 3/8/2007	PZ-S15 11.5 - 12 3/8/2007
3/4-Methylphenol				5100													
3-Nitroaniline	0.58	160	190000				0.77 U										
4,6-Dinitro-2-Methylphenol				62			1.5 U										
4-Bromophenyl phenyl ether							0.38 U										
4-Chloro-3-Methyl-Phenol	110	14000	190000				0.38 U										
4-Chloroaniline	52	11000	190000	8.6			0.38 U										
4-Chlorodiphenyl Ether							0.38 U										
4-METHYLPHENOL	51	14000	190000	3100			0.38 U										
4-Nitroaniline	0.58	160	190000	86			0.77 U										
4-Nitrophenol	6	22000	190000				1.5 U										
Acenaphthene	4700	170000	190000	33000			0.38 U										
Acenaphthylene	6900	170000	190000	33000			0.38 U										
Anthracene	350	190000	190000	170000			0.0085 J										
Benzo (A) Anthracene	320	110	190000	2.1			0.047										
Benzo (a) Pyrene	46	11	190000	0.21			0.041										
Benzo (b) Fluoranthene	170	110	190000	2.1			0.042										
Benzo (g,h,i) Perylene	180	170000	190000				0.029 J										
Benzo (k) Fluoranthene	610	1100	190000	21			0.045										
Bis(2-Chloroethoxy) Methane				1800			0.38 U										
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9			0.038 U										
Bis(2-Chloroisopropyl) Ether	30	160	190	17			0.38 U										
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120			0.084 J										
Butylbenzylphthalate	10000	10000	10000	910			0.38 U										
Carbazole	83	4000	190000				0.38 U										
Chrysene	230	11000	190000	210			0.056 J										
Dibenzo (a,h) Anthracene	160	11	190000	0.21			0.038 U										
Dibenzofuran							0.38 U										
Diethylphthalate	500	10000	10000	490000			0.38 U										
Dimethylphthalate							0.38 U										
Di-n-Butylphthalate	4100	10000	10000	62000			0.38 U										
Di-n-octylphthalate	10000	10000	10000				0.38 U										
Fluoranthene	3200	110000	190000	22000			0.073 J										
Fluorene	3800	110000	190000	22000			0.38 U										
Hexachlorobenzene	0.96	50	190000	1.1			0.038 U										
Hexachlorobutadiene	1.2	560	10000	22			0.077 U										
Hexachlorocyclopentadiene	91	10000	10000	3700			0.38 U										
Hexachloroethane	0.56	2800	190000	120			0.038 U										
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1			0.029 J										
Isophorone	10	10000	10000	1800			0.38 U										
Naphthalene	25	56000	190000	20			0.0078 J										
Nitrobenzene	5.1	1400	10000	22			0.038 U										
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25			0.038 U										
N-Nitrosodiphenylamine	83	16000	190000	350			0.38 U										
Pentachlorophenol	5	660	190000	9			1.5 U										
Phenanthrene	10000	190000	190000				0.033 J										
Phenol	400	190000	190000	180000			0.38 U										
Pyrene	2200	84000	190000	17000			0.07 J										
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													

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	EW-1 14 - 14.5 3/8/2007	EW-1 15.5 - 16 3/8/2007	HD-A-SS-13-02-001 8/4/2004	PZ-E5 9 - 9.5 3/8/2007	PZ-E5 14 - 14.5 3/8/2007	PZ-E5 19.5 - 20 3/8/2007	PZ-E15 9 - 9.5 3/8/2007	PZ-E15 15 - 15.5 3/8/2007	PZ-E15 19.5 - 20 3/8/2007	PZ-S5 9.5 - 10 3/8/2007	PZ-S5 13 - 13.5 3/8/2007	PZ-S5 14 - 14.5 3/8/2007	PZ-S15 11.5 - 12 3/8/2007
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					81.80%	83.20%		80.90%	84.50%	93.80%	81.60%	82.10%	86.90%	82.90%	82.90%	82.50%	82.80%
Volatile Organic Compound																	
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8			0.0055 U										
1,1,1-Trichloroethane	20	10000	10000	39000	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.23 U	0.0057 U	0.0011 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.23 U	0.0057 U	0.0033 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,1-Dichloroethane	11	1000	1200	17	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,1-Dichloroethene	0.7	33	38	1100	0.23 U	0.0057 U	0.0022 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17			0.0055 U										
1,2-Dichloroethane	0.5	63	73	2.2	0.23 U	0.0057 U	0.0022 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,2-Dichloropropane	0.5	160	180	4.7	0.23 U	0.0057 U	0.0011 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
1,4-Dioxane	2.4	210	240	160	45 U	1.1 U	1.1 U	1.1 U	1.2 U	0.88 U	1.4 U	1.5 U	1.1 U	55 U	0.72 U	43 U	51 U
2-Butanone	580	10000	10000	190000	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
2-Chloroethyl Vinyl Ether					0.45 U	0.011 U		0.011 U	0.012 U	0.0088 U	0.014 U	0.015 U	0.011 U	0.55 U	0.0072 U	0.43 U	0.51 U
2-Hexanone							0.0055 U										
4-Methyl-2-Pentanone	41	4300	4900	52000			0.0055 U										
Acetone	1000	10000	10000	610000			0.055										
Acrolein	0.012	1.1	1.2	0.68	4.5 U	0.11 U		0.11 U	0.12 U	0.088 U	0.14 U	0.15 U	0.11 U	5.5 U	0.072 U	4.3 U	5.1 U
Acrylonitrile	0.27	24	28	1.2	4.5 U	0.11 U	0.055 U	0.11 U	0.12 U	0.088 U	0.14 U	0.15 U	0.11 U	5.5 U	0.072 U	4.3 U	5.1 U
Benzene	0.5	210	240	5.6	0.23 U	0.0057 U	0.0011 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Bromochloromethane	9	10000	10000				0.0055 U										
Bromodichloromethane	10	45	51	1.4	0.23 U	0.0057 U	0.0011 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Bromoform	10	1500	1700	220	0.23 U	0.0057 U	0.0044 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Bromomethane	1	270	300	35	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Carbon Disulfide	410	10000	10000	3000			0.0055 U										
Carbon Tetrachloride	0.5	110	120	1.3	0.23 U	0.0057 U	0.0022 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Chlorobenzene	10	10000	10000	1500	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Chlorodibromomethane	10	61	70	3.4	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Chloroethane	90	10000	10000	62000	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Chloroform	10	17	19	1.5	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Chloromethane	0.3	920	1000	510	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.23 U	0.0032 J	0.0055 U	0.0026 J	0.0033 J	0.0044 U	0.0031 J	0.0036 J	0.0053 U	0.28 U	0.00066 J	0.22 U	0.037 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Ethylbenzene	70	10000	10000	29	0.23 U	0.0057 U	0.0044 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Methyl tert-butyl ether	2	3200	3700	190			0.0055 U										
Methylene chloride	0.5	3500	4000	54	0.045 J	0.0015 J B	0.0033 U	0.0057 U	0.0019 J B	0.0044 U	0.0049 J B	0.0023 J B	0.0053 U	0.061 J	0.0036 U	0.037 J	0.063 J
Styrene	24	10000	10000	38000			0.0055 U										
Tetrachloroethene	0.5	1500	3300	2.7	0.39	0.062	0.0011 U	0.04	0.046	0.0025 J	0.058	0.041	0.0049 J	0.79	0.018	0.36	0.69
Toluene	100	10000	10000	46000	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 U
Trichloroethene	0.5	970	1100	14	0.73	0.15	0.0011 U	0.048	0.1	0.0042 J	0.059	0.076	0.0035 J	1.2	0.042	0.75	1.3
Vinyl Chloride	0.2	53	220	1.7	0.23 U	0.0057 U	0.0055 U	0.0057 U	0.0059 U	0.0044 U	0.0068 U	0.0074 U	0.0053 U	0.28 U	0.0036 U	0.22 U	0.26 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
Former York Naval Ordnance Plant - York, PA

Parameter / Location/ID / Depth (ft.) / Sample Date	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)	EW-1 14 - 14.5 3/8/2007	EW-1 15.5 - 16 3/8/2007	HD-A-SS-13-02-001 8/4/2004	PZ-E5 9 - 9.5 3/8/2007	PZ-E5 14 - 14.5 3/8/2007	PZ-E5 19.5 - 20 3/8/2007	PZ-E15 9 - 9.5 3/8/2007	PZ-E15 15 - 15.5 3/8/2007	PZ-E15 19.5 - 20 3/8/2007	PZ-S5 9.5 - 10 3/8/2007	PZ-S5 13 - 13.5 3/8/2007	PZ-S5 14 - 14.5 3/8/2007	PZ-S15 11.5 - 12 3/8/2007
Xylenes (Total)	1000	10000	10000	2600			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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	PZ-S15 18 - 18.5 3/8/2007	PZ-S15 19.5 - 20 3/8/2007
Cyanide, Free						
Cyanide, Free	200	56000	190000	20000		
Cyanide, Total						
Cyanide, Total	200	56000	190000	20000		
Hexavalent Chromium						
Hexavalent Chromium	190	420	190000	200		
Mercury						
Mercury	10	840	190000	24		
Metal						
Antimony	27	1100	190000	410		
Arsenic	150	53	190000	1.6		
Barium	8200	190000	190000	190000		
Beryllium	320	5600	190000	2000		
Cadmium	38	210	190000	800		
Chromium				1400		
Copper	36000	100000	190000	41000		
Lead	450	1000	190000	800		
Nickel	650	56000	190000	20000		
Selenium	26	14000	190000	5100		
Silver	84	14000	190000	5100		
Thallium	14	200	190000	66		
Vanadium	72000	20000	190000	7200		
Zinc	12000	190000	190000	310000		
Polychlorinated Biphenols						
Arochlor-1016	200	200	10000	21		
Arochlor-1221	2.5	160	10000	0.62		
Arochlor-1232	2	160	10000	0.62		
Arochlor-1242	62	160	10000	0.74		
Arochlor-1248	67	44	10000	0.74		
Arochlor-1254	280	44	10000	0.74		
Arochlor-1260	1900	130	190000	0.74		
PCBs (Total)				0.74		
Semi Volatile Organic Compound						
1,2,4-Trichlorobenzene	27	10000	10000	400		
1,2-Dichlorobenzene	60	10000	10000	10000		
1,3-Dichlorobenzene	61	10000	10000			
1,4-Dichlorobenzene	10	3300	190000	13		
2,4,5-Trichlorophenol	6100	190000	190000	62000		
2,4,6-Trichlorophenol	8.9	840	190000	160		
2,4-Dichlorophenol	2	8400	190000	1800		
2,4-Dimethylphenol	200	10000	10000	12000		
2,4-Dinitrophenol	4.1	5600	190000	1200		
2,4-Dinitrotoluene	0.84	260	190000	5.5		
2,6-Dinitrotoluene	10	2800	190000	620		
2-Chloronaphthalene	18000	190000	190000	82000		
2-Chlorophenol	4.4	920	1100	5100		
2-Methylnaphthalene	8000	10000	10000	4100		
2-Methylphenol	510	10000	10000	31000		
2-Nitroaniline	0.58	160	190000	1800		
2-Nitrophenol	82	22000	190000			
3,3'-Dichlorobenzidine	32	180	190000	3.8		

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	PZ-S15 18 - 18.5 3/8/2007	PZ-S15 19.5 - 20 3/8/2007
3/4-Methylphenol				5100		
3-Nitroaniline	0.58	160	190000			
4,6-Dinitro-2-Methylphenol				62		
4-Bromophenyl phenyl ether						
4-Chloro-3-Methyl-Phenol	110	14000	190000			
4-Chloroaniline	52	11000	190000	8.6		
4-Chlorodiphenyl Ether						
4-METHYLPHENOL	51	14000	190000	3100		
4-Nitroaniline	0.58	160	190000	86		
4-Nitrophenol	6	22000	190000			
Acenaphthene	4700	170000	190000	33000		
Acenaphthylene	6900	170000	190000	33000		
Anthracene	350	190000	190000	170000		
Benzo (A) Anthracene	320	110	190000	2.1		
Benzo (a) Pyrene	46	11	190000	0.21		
Benzo (b) Fluoranthene	170	110	190000	2.1		
Benzo (g,h,i) Perylene	180	170000	190000			
Benzo (k) Fluoranthene	610	1100	190000	21		
Bis(2-Chloroethoxy) Methane				1800		
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9		
Bis(2-Chloroisopropyl) Ether	30	160	190	17		
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120		
Butylbenzylphthalate	10000	10000	10000	910		
Carbazole	83	4000	190000			
Chrysene	230	11000	190000	210		
Dibenzo (a,h) Anthracene	160	11	190000	0.21		
Dibenzofuran						
Diethylphthalate	500	10000	10000	490000		
Dimethylphthalate						
Di-n-Butylphthalate	4100	10000	10000	62000		
Di-n-octylphthalate	10000	10000	10000			
Fluoranthene	3200	110000	190000	22000		
Fluorene	3800	110000	190000	22000		
Hexachlorobenzene	0.96	50	190000	1.1		
Hexachlorobutadiene	1.2	560	10000	22		
Hexachlorocyclopentadiene	91	10000	10000	3700		
Hexachloroethane	0.56	2800	190000	120		
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1		
Isophorone	10	10000	10000	1800		
Naphthalene	25	56000	190000	20		
Nitrobenzene	5.1	1400	10000	22		
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25		
N-Nitrosodiphenylamine	83	16000	190000	350		
Pentachlorophenol	5	660	190000	9		
Phenanthrene	10000	190000	190000			
Phenol	400	190000	190000	180000		
Pyrene	2200	84000	190000	17000		
Toxicity Characteristic Leaching Procedure - 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		

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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	PZ-S15 18 - 18.5 3/8/2007	PZ-S15 19.5 - 20 3/8/2007
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					88.80%	91.60%
Volatile Organic Compound						
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8		
1,1,1-Trichloroethane	20	10000	10000	39000	0.0039 U	0.0043 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0039 U	0.0043 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0039 U	0.0043 U
1,1-Dichloroethane	11	1000	1200	17	0.0039 U	0.0043 U
1,1-Dichloroethene	0.7	33	38	1100	0.0039 U	0.0043 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17		
1,2-Dichloroethane	0.5	63	73	2.2	0.0039 U	0.0043 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0039 U	0.0043 U
1,4-Dioxane	2.4	210	240	160	0.79 U	0.86 U
2-Butanone	580	10000	10000	190000	0.0039 U	0.0043 U
2-Chloroethyl Vinyl Ether					0.0079 U	0.0086 U
2-Hexanone						
4-Methyl-2-Pentanone	41	4300	4900	52000		
Acetone	1000	10000	10000	610000		
Acrolein	0.012	1.1	1.2	0.68	0.079 U	0.086 U
Acrylonitrile	0.27	24	28	1.2	0.079 U	0.086 U
Benzene	0.5	210	240	5.6	0.0039 U	0.0043 U
Bromochloromethane	9	10000	10000			
Bromodichloromethane	10	45	51	1.4	0.0039 U	0.0043 U
Bromoform	10	1500	1700	220	0.0039 U	0.0043 U
Bromomethane	1	270	300	35	0.0039 U	0.0043 U
Carbon Disulfide	410	10000	10000	3000		
Carbon Tetrachloride	0.5	110	120	1.3	0.0039 U	0.0043 U
Chlorobenzene	10	10000	10000	1500	0.0039 U	0.0043 U
Chlorodibromomethane	10	61	70	3.4	0.0039 U	0.0043 U
Chloroethane	90	10000	10000	62000	0.0039 U	0.0043 U
Chloroform	10	17	19	1.5	0.0039 U	0.0043 U
Chloromethane	0.3	920	1000	510	0.0039 U	0.0043 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.006	0.0012 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0039 U	0.0043 U
Ethylbenzene	70	10000	10000	29	0.0039 U	0.0043 U
Methyl tert-butyl ether	2	3200	3700	190		
Methylene chloride	0.5	3500	4000	54	0.0022 J B	0.0035 J B
Styrene	24	10000	10000	38000		
Tetrachloroethene	0.5	1500	3300	2.7	0.041	0.02
Toluene	100	10000	10000	46000	0.0039 U	0.0043 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0039 U	0.0043 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0039 U	0.0043 U
Trichloroethene	0.5	970	1100	14	0.13	0.06
Vinyl Chloride	0.2	53	220	1.7	0.0039 U	0.0043 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 3.5-1
Soils Data Summary - Burn Pile Area (BPA)
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)	PZ-S15 18 - 18.5 3/8/2007	PZ-S15 19.5 - 20 3/8/2007
Xylenes (Total)	1000	10000	10000	2600		

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