Table 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-001 4 - 6 7/12/2007	BD54-SB-001 9 - 11 7/12/2007	BD54-SB-001 12 - 14 7/12/2007	BD54-SB-002 1 - 3 7/12/2007	BD54-SB-002 5 - 7 7/12/2007	BD54-SB-002 12 - 14 7/12/2007	BD54-SB-003 4 - 6 7/12/2007	BD54-SB-003 9 - 11 7/12/2007	BD54-SB-003 12 - 14 7/12/2007	BD54-SB-004 1 - 3 7/11/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.61 U	0.61 U	0.61 U	0.59 U	0.6 U	0.6 U	0.57 U	0.59 U	0.63 U	0.58 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.16 B J	0.61 U	0.61 U	0.4 B J	0.6 U	0.6 U	0.57 U	0.59 U	0.63 U	0.19 B
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.49 U	0.45 B	0.22 B	0.49 U	0.33 B	0.48 U	0.47 U	0.31 B	0.51 U	0.16 B
Mercury														
Mercury	10	840	190000	24	0.033 B	0.042	0.071	0.043	0.063	0.032 B	0.026 B	0.051	0.024 B	0.027 B
Metal														
Antimony	27	1100	190000	410	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.15 B J	1.1 U	1.2 U	1.3 U	1.2 U
Arsenic	150	53	190000	1.6	2.1	6	2.4	4.1	4.5	0.65 B	3.7	0.86 B	0.4 B	5.3
Barium	8200	190000	190000	190000	65.1	53.1	126	55	41.7	24.3	30.2	49.5	25.5	45.4 J
Beryllium	320	5600	190000	2000	0.6 J	0.74 J	0.74 J	0.76 J	0.64 J	0.24 B J	0.85 J	0.4 B J	0.34 B J	0.54 J
Cadmium	38	210	190000	800	0.078 B	0.12 B	0.09 B	0.14 B	0.2 B	0.6 U	0.32 B	0.59 U	0.63 U	0.58 U
Chromium				1400	8.8	14.1	15.5	12.6	15.2	4	15.6	7.1	3.9	23.9 J
Copper	36000	100000	190000	41000	3.6	7.2	5.9	6.6	8	2.1 B	4.7	2.6 B	2.5 B	7.4
Lead	450	1000	190000	800	8.5 J	8.8 J	11.2 J	10 J	9.4 J	3.9	11.7	7	3.3	8.6
Nickel	650	56000	190000	20000	3.9 B	6.6	7.9	5.2	6.1	1.2 B	5.2	2.5 B	1.1 B	5.1 J
Selenium	26	14000	190000	5100	0.4 B	0.73	0.51 B	0.55 B	1	0.6 U	0.39 B	0.59 U	0.63 U	0.95
Silver	84	14000	190000	5100	0.61 U	0.61 U	0.61 U	0.59 U	0.6 U	0.6 U	0.57 U	0.59 U	0.63 U	0.58 U
Thallium	14	200	190000	66	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U	1.2 U
Vanadium	72000	20000	190000	7200	15.9	25	21.5	20.6	33.4	2.8 B	22.9	6.2	5.1 B	29.9
Zinc	12000	190000	190000	310000	18.4	27.4	19.9	19.5	16.4	2.8 J	23.4 J	6.2 J	2.9 J	17.6 J
Other														
N-Hexane Extractable Material														
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
1,3-Dichlorobenzene	61	10000	10000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
1,4-Dichlorobenzene	10	3300	190000	13	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2,4-Dichlorophenol	2	8400	190000	1800	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2,4-Dimethylphenol	200	10000	10000	12000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2,6-Dinitrotoluene	10	2800	190000	620	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2-Chloronaphthalene	18000	190000	190000	82000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2-Chlorophenol	4.4	920	1100	5100	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2-Methylnaphthalene	8000	10000	10000	4100	0.4 U	0.4 U	0.4 U	0.029 J	0.4 U	0.4 U	0.03 J	0.39 U	0.42 U	0.38 U
2-Methylphenol	510	10000	10000	31000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
2-Nitroaniline	0.58	160	190000	1800	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
2-Nitrophenol	82	22000	190000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
3/4-Methylphenol				5100	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
3-Nitroaniline	0.58	160	190000		1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
4,6-Dinitro-2-Methylphenol				62	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
4-Bromophenyl phenyl ether					0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
4-Chloroaniline	52	11000	190000	8.6	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
4-Chlorodiphenyl Ether					0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 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 3.25-2
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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)	BD54-SB-001 4 - 6 7/12/2007	BD54-SB-001 9 - 11 7/12/2007	BD54-SB-001 12 - 14 7/12/2007	BD54-SB-002 1 - 3 7/12/2007	BD54-SB-002 5 - 7 7/12/2007	BD54-SB-002 12 - 14 7/12/2007	BD54-SB-003 4 - 6 7/12/2007	BD54-SB-003 9 - 11 7/12/2007	BD54-SB-003 12 - 14 7/12/2007	BD54-SB-004 1 - 3 7/11/2007
4-Nitroaniline	0.58	160	190000	86	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
4-Nitrophenol	6	22000	190000		1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
Acenaphthene	4700	170000	190000	33000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.11 J	0.39 U	0.42 U	0.38 U
Acenaphthylene	6900	170000	190000	33000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.26 J	0.074 J	0.42 U	0.38 U
Anthracene	350	190000	190000	170000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.24 J	0.043 J	0.42 U	0.38 U
Benzo (A) Anthracene	320	110	190000	2.1	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.5	0.13 J	0.42 U	0.38 U
Benzo (a) Pyrene	46	11	190000	0.21	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.53	0.15 J	0.42 U	0.38 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.55	0.16 J	0.42 U	0.38 U
Benzo (g,h,i) Perylene	180	170000	190000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.35 J	0.094 J	0.42 U	0.38 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.21 J	0.061 J	0.42 U	0.38 U
Bis(2-Chloroethoxy) Methane				1800	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.4 U	0.058 J	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Butylbenzylphthalate	10000	10000	10000	910	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Carbazole	83	4000	190000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Chrysene	230	11000	190000	210	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.52	0.11 J	0.42 U	0.38 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.029 J	0.39 U	0.42 U	0.38 U
Dibenzofuran					0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.061 J	0.39 U	0.42 U	0.38 U
Diethylphthalate	500	10000	10000	490000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Dimethylphthalate					0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Di-n-octylphthalate	10000	10000	10000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Fluoranthene	3200	110000	190000	22000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	1	0.22 J	0.42 U	0.38 U
Fluorene	3800	110000	190000	22000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.21 J	0.39 U	0.42 U	0.38 U
Hexachlorobenzene	0.96	50	190000	1.1	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Hexachlorobutadiene	1.2	560	10000	22	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
Hexachloroethane	0.56	2800	190000	120	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.29 J	0.085 J	0.42 U	0.38 U
Isophorone	10	10000	10000	1800	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Naphthalene	25	56000	190000	20	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Nitrobenzene	5.1	1400	10000	22	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Pentachlorophenol	5	660	190000	9	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U
Phenanthrene	10000	190000	190000		0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.7	0.11 J	0.42 U	0.38 U
Phenol	400	190000	190000	180000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	0.37 U	0.39 U	0.42 U	0.38 U
Pyrene	2200	84000	190000	17000	0.4 U	0.4 U	0.4 U	0.39 U	0.4 U	0.4 U	1.1	0.27 J	0.42 U	0.38 U
Total Solids														
Percent Solids					82.40%	82%	81.90%	84.20%	82.70%	83.50%	88.30%	84.60%	79.50%	85.70%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 J	0.0053 U	0.003 J	0.06	0.02	0.0089	0.016	0.072	0.006 U	0.0051 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
1,1-Dichloroethane	11	1000	1200	17	0.0075	0.0053 U	0.0091	0.17	0.099	0.016	0.037	0.066	0.012	0.0051 U
1,1-Dichloroethene	0.7	33	38	1100	0.0053 U	0.0053 U	0.0052 U	0.0036 J	0.0012 J	0.0041 U	0.0048 U	0.014	0.006 U	0.0051 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U

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1,4-Dioxane	2.4	210	240	160	1.1 U	1.1 U	1 U	1 U	1.1 U	0.83 U	0.95 U	1.1 U	1.2 U	1 U
2-Butanone	580	10000	10000	190000	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.017 U	0.019 U	0.022 U	0.024 U	0.02 U
2-Hexanone					0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.017 U	0.019 U	0.022 U	0.024 U	0.02 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.017 U	0.019 U	0.022 U	0.024 U	0.02 U
Acetone	1000	10000	10000	610000	0.021 U	0.021 U	0.021 U	0.02 U	0.021 U	0.0075 J	0.019 U	0.022 U	0.03	0.02 U
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.11 U	0.1 U	0.1 U	0.11 U	0.083 U	0.095 U	0.11 U	0.12 U	0.1 U
Benzene	0.5	210	240	5.6	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Bromochloromethane	9	10000	10000		0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Bromodichloromethane	10	45	51	1.4	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Bromoform	10	1500	1700	220	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Bromomethane	1	270	300	35	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Carbon Disulfide	410	10000	10000	3000	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Chlorobenzene	10	10000	10000	1500	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Chlorodibromomethane	10	61	70	3.4	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Chloroethane	90	10000	10000	62000	0.0053 U	0.0053 U	0.0052 U	0.028	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Chloroform	10	17	19	1.5	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Chloromethane	0.3	920	1000	510	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0053 U	0.0053 U	0.0052 U	0.016	0.0053	0.025	0.0048	0.064	0.042	0.0051 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Ethylbenzene	70	10000	10000	29	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Methyl tert-butyl ether	2	3200	3700	190	0.0053 U	0.0053 U	0.0052 U	0.0016 J	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Methylene chloride	0.5	3500	4000	54	0.0039 J B	0.0058 B	0.0039 J B	0.0088 B	0.0052 J B	0.0034 J B	0.0034 J B	0.0047 J B	0.0041 J B	0.0018 J B
Styrene	24	10000	10000	38000	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0053 U	0.0053 U	0.0052 U	0.012	0.0053 U	0.047	0.0048 U	0.037	0.048	0.0051 U
Toluene	100	10000	10000	46000	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0014 J	0.0048 U	0.0027 J	0.0032 J	0.0051 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Trichloroethene	0.5	970	1100	14	0.0053 U	0.0053 U	0.0052 U	0.0052	0.0053 U	0.017	0.0048 U	0.054	0.027	0.0051 U
Vinyl Chloride	0.2	53	220	1.7	0.0053 U	0.0053 U	0.0052 U	0.005 U	0.0053 U	0.0041 U	0.0048 U	0.0054 U	0.006 U	0.0051 U
Xylenes (Total)	1000	10000	10000	2600	0.016 U	0.016 U	0.016 U	0.015 U	0.016 U	0.012 U	0.014 U	0.016 U	0.018 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-004 5 - 7 7/11/2007	BD54-SB-004 13 - 15 7/11/2007	BD54-SB-005 4 - 6 7/12/2007	BD54-SB-005 8 - 10 7/12/2007	BD54-SB-005 12 - 14 7/12/2007	BD54-SB-006 4 - 6 7/12/2007	BD54-SB-006 9 - 11 7/12/2007	BD54-SB-006 12 - 14 7/12/2007	BD54-SB-007 1 - 3 7/12/2007	BD54-SB-007 5 - 7 7/12/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.57 U	0.62 U	0.6 U	0.18 B	0.15 B	0.24 B	0.24 B	0.6 U	0.21 B	0.56 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.57 U	0.42 B	0.6 U	0.57 U	0.16 B J	0.62 U	0.58 U	0.6 U	0.57 U	0.56 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.47 U	0.5 U	0.38 B	0.21 B	0.41 U	0.51 U	0.45 U	0.49 U	0.46 U	0.44 U
Mercury														
Mercury	10	840	190000	24	0.019 B	0.02 B	0.04	0.031 B	0.024 B	0.052	0.038	0.046	0.043	0.031 B
Metal														
Antimony	27	1100	190000	410	1.1 U	1.2 U	1.2 U	1.1 U	1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U
Arsenic	150	53	190000	1.6	3.9	1.2	4.4	4.1	1.3	1.2	0.79 B	0.92 B	5.7	3.7
Barium	8200	190000	190000	190000	26.2 J	69.9 J	60.1	55.1	28.4	131	40.2	47.8	53	43.1
Beryllium	320	5600	190000	2000	0.66 J	0.5 J	0.73 J	0.76 J	0.38 B J	0.5 J	0.3 B J	0.43 B J	1 J	1.1 J
Cadmium	38	210	190000	800	0.1 B	0.62 U	0.16 B	0.15 B	0.51 U	0.62 U	0.58 U	0.6 U	0.12 B	0.09 B
Chromium				1400	15.3 J	7.2 J	14.3	14.4	6.3	13.9	4.8	9.1	13.3	22.3
Copper	36000	100000	190000	41000	5.2	5.2	6.8	6	3.8	4.5	2.5 B	5	9	4.9
Lead	450	1000	190000	800	6.3	5.6	8.2 J	8.3 J	8.6 J	10.2 J	5.7 J	7.7 J	15.2	7
Nickel	650	56000	190000	20000	3.9 B J	4.9 B J	6.1	5.4	2 B	6.8	1.8 B	2.7 B	6.9	4.4 B
Selenium	26	14000	190000	5100	0.64	0.62 U	0.48 B	0.66	0.51 U	0.62 U	0.58 U	0.6 U	0.57 U	0.47 B
Silver	84	14000	190000	5100	0.57 U	0.62 U	0.6 U	0.57 U	0.51 U	0.62 U	0.58 U	0.6 U	0.57 U	0.56 U
Thallium	14	200	190000	66	0.47 B	1.2 U	1.2 U	1.1 U	1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U
Vanadium	72000	20000	190000	7200	17.2	11.7	24.1	21.5	16.1	13.8	5.4 B	9.8	25.3	19.3
Zinc	12000	190000	190000	310000	13.1 J	19.2 J	19.4	15.9	5.9	10.1	3.8	5.4	18 J	8.9 J
Other														
N-Hexane Extractable Material														
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
1,3-Dichlorobenzene	61	10000	10000		0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
1,4-Dichlorobenzene	10	3300	190000	13	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2,4-Dichlorophenol	2	8400	190000	1800	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2,4-Dimethylphenol	200	10000	10000	12000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2,6-Dinitrotoluene	10	2800	190000	620	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2-Chloronaphthalene	18000	190000	190000	82000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2-Chlorophenol	4.4	920	1100	5100	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2-Methylnaphthalene	8000	10000	10000	4100	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.091 J	0.37 U
2-Methylphenol	510	10000	10000	31000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
2-Nitroaniline	0.58	160	190000	1800	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
2-Nitrophenol	82	22000	190000		0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
3/4-Methylphenol				5100	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
3-Nitroaniline	0.58	160	190000		1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
4,6-Dinitro-2-Methylphenol				62	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
4-Bromophenyl phenyl ether					0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
4-Chloroaniline	52	11000	190000	8.6	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
4-Chlorodiphenyl Ether					0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-004 5 - 7 7/11/2007	BD54-SB-004 13 - 15 7/11/2007	BD54-SB-005 4 - 6 7/12/2007	BD54-SB-005 8 - 10 7/12/2007	BD54-SB-005 12 - 14 7/12/2007	BD54-SB-006 4 - 6 7/12/2007	BD54-SB-006 9 - 11 7/12/2007	BD54-SB-006 12 - 14 7/12/2007	BD54-SB-007 1 - 3 7/12/2007	BD54-SB-007 5 - 7 7/12/2007
4-Nitroaniline	0.58	160	190000	86	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
4-Nitrophenol	6	22000	190000		1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
Acenaphthene	4700	170000	190000	33000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.21 J	0.37 U
Acenaphthylene	6900	170000	190000	33000	0.38 U	0.41 U	0.03 J	0.024 J	0.33 U	0.41 U	0.38 U	0.4 U	0.96	0.37 U
Anthracene	350	190000	190000	170000	0.38 U	0.41 U	0.023 J	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.45	0.37 U
Benzo (A) Anthracene	320	110	190000	2.1	0.38 U	0.41 U	0.075 J	0.1 J	0.014 J	0.028 J	0.38 U	0.4 U	1.5	0.37 U
Benzo (a) Pyrene	46	11	190000	0.21	0.38 U	0.41 U	0.057 J	0.12 J	0.019 J	0.021 J	0.38 U	0.4 U	1.6	0.37 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.38 U	0.41 U	0.1 J	0.14 J	0.33 U	0.41 U	0.38 U	0.4 U	1.7	0.37 U
Benzo (g,h,i) Perylene	180	170000	190000		0.38 U	0.41 U	0.042 J	0.052 J	0.33 U	0.41 U	0.38 U	0.4 U	1.2	0.37 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.38 U	0.41 U	0.04 J	0.051 J	0.33 U	0.41 U	0.38 U	0.4 U	0.67	0.37 U
Bis(2-Chloroethoxy) Methane				1800	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Butylbenzylphthalate	10000	10000	10000	910	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Carbazole	83	4000	190000		0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Chrysene	230	11000	190000	210	0.38 U	0.41 U	0.036 J	0.095 J	0.013 J	0.027 J	0.38 U	0.4 U	1.6	0.37 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.16 J	0.37 U
Dibenzofuran					0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.09 J	0.37 U
Diethylphthalate	500	10000	10000	490000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Dimethylphthalate					0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Di-n-octylphthalate	10000	10000	10000		0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Fluoranthene	3200	110000	190000	22000	0.38 U	0.41 U	0.15 J	0.2 J	0.024 J	0.048 J	0.38 U	0.4 U	3.1	0.37 U
Fluorene	3800	110000	190000	22000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37	0.37 U
Hexachlorobenzene	0.96	50	190000	1.1	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Hexachlorobutadiene	1.2	560	10000	22	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
Hexachloroethane	0.56	2800	190000	120	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.38 U	0.41 U	0.066 J	0.048 J	0.33 U	0.41 U	0.38 U	0.4 U	1	0.37 U
Isophorone	10	10000	10000	1800	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Naphthalene	25	56000	190000	20	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.13 J	0.37 U
Nitrobenzene	5.1	1400	10000	22	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Pentachlorophenol	5	660	190000	9	1.8 U	2 U	1.9 U	1.8 U	1.6 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U
Phenanthrene	10000	190000	190000		0.38 U	0.41 U	0.059 J	0.06 J	0.33 U	0.41 U	0.38 U	0.4 U	1.5	0.37 U
Phenol	400	190000	190000	180000	0.38 U	0.41 U	0.39 U	0.37 U	0.33 U	0.41 U	0.38 U	0.4 U	0.37 U	0.37 U
Pyrene	2200	84000	190000	17000	0.38 U	0.41 U	0.12 J	0.18 J	0.024 J	0.043 J	0.38 U	0.4 U	3.7	0.37 U
Total Solids														
Percent Solids					87.10%	80.40%	83.60%	88.10%	98.10%	81.30%	86.20%	83.40%	88.10%	88.90%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0048 U	0.0056 U	0.0046 J	0.0051 U	0.0031 J	0.005 U	0.012	0.0053 U	0.013	0.04
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
1,1-Dichloroethane	11	1000	1200	17	0.0048 U	0.0056 U	0.024	0.0041 J	0.017	0.0038 J	0.046	0.0063	0.047	0.052
1,1-Dichloroethene	0.7	33	38	1100	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-004 5 - 7 7/11/2007	BD54-SB-004 13 - 15 7/11/2007	BD54-SB-005 4 - 6 7/12/2007	BD54-SB-005 8 - 10 7/12/2007	BD54-SB-005 12 - 14 7/12/2007	BD54-SB-006 4 - 6 7/12/2007	BD54-SB-006 9 - 11 7/12/2007	BD54-SB-006 12 - 14 7/12/2007	BD54-SB-007 1 - 3 7/12/2007	BD54-SB-007 5 - 7 7/12/2007
1,4-Dioxane	2.4	210	240	160	0.96 U	1.1 U	1 U	1 U	0.97 U	1 U	0.95 U	1.1 U	1.1 U	0.98 U
2-Butanone	580	10000	10000	190000	0.019 U	0.022 U	0.021 U	0.02 U	0.019 U	0.02 U	0.019 U	0.021 U	0.021 U	0.02 U
2-Hexanone					0.019 U	0.022 U	0.021 U	0.02 U	0.019 U	0.02 U	0.019 U	0.021 U	0.021 U	0.02 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.019 U	0.022 U	0.021 U	0.02 U	0.019 U	0.02 U	0.019 U	0.021 U	0.021 U	0.02 U
Acetone	1000	10000	10000	610000	0.019 U	0.023	0.021 U	0.02 U	0.019 U	0.0095 J	0.019 U	0.021 U	0.021 U	0.02 U
Acrylonitrile	0.27	24	28	1.2	0.096 U	0.11 U	0.1 U	0.1 U	0.097 U	0.1 U	0.095 U	0.11 U	0.11 U	0.098 U
Benzene	0.5	210	240	5.6	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Bromochloromethane	9	10000	10000		0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Bromodichloromethane	10	45	51	1.4	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Bromoform	10	1500	1700	220	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Bromomethane	1	270	300	35	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Carbon Disulfide	410	10000	10000	3000	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Chlorobenzene	10	10000	10000	1500	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Chlorodibromomethane	10	61	70	3.4	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Chloroethane	90	10000	10000	62000	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Chloroform	10	17	19	1.5	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Chloromethane	0.3	920	1000	510	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0048 U	0.0056 U	0.0051	0.0051 U	0.0033 J	0.005 U	0.0092	0.0045 J	0.0077	0.009
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Ethylbenzene	70	10000	10000	29	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Methyl tert-butyl ether	2	3200	3700	190	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Methylene chloride	0.5	3500	4000	54	0.0009 J B	0.0017 J B	0.005 J B	0.0041 J B	0.003 J B	0.0044 J B	0.0038 J B	0.0044 J B	0.0062 B	0.0029 J B
Styrene	24	10000	10000	38000	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0048 U	0.0056 U	0.0013 J	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Toluene	100	10000	10000	46000	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Trichloroethene	0.5	970	1100	14	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Vinyl Chloride	0.2	53	220	1.7	0.0048 U	0.0056 U	0.0051 U	0.0051 U	0.0048 U	0.005 U	0.0048 U	0.0053 U	0.0053 U	0.0049 U
Xylenes (Total)	1000	10000	10000	2600	0.014 U	0.017 U	0.015 U	0.015 U	0.015 U	0.015 U	0.014 U	0.016 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-007 12 - 14 7/12/2007	BD54-SB-008 1 - 3 7/11/2007	BD54-SB-008 5 - 7 7/11/2007	BD54-SB-008 8 - 10 7/11/2007	BD54-SB-009 0 - 2 7/12/2007	BD54-SB-009 6 - 8 7/12/2007	BD54-SB-009 13 - 15 7/12/2007	BD54-SB-010 0 - 2 7/12/2007	BD54-SB-010 6 - 8 7/12/2007	BD54-SB-010 12 - 14 7/12/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.41 B	0.59 U	0.59 U	0.6 U	0.27 B	0.57 U	0.62 U	0.55 U	0.63 U	0.6 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.63 J	0.59 U	0.59 U	0.6 U	0.12 B	0.43 B	0.62 U	0.55 U	0.63 U	0.6 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.25 B	0.48 U	0.48 U	0.47 U	6.5	0.21 B	0.23 B	4	0.47 B	0.67
Mercury														
Mercury	10	840	190000	24	0.019 B	0.03 B	0.018 B	0.04	0.092	0.018 B	0.035 B	0.055	0.044	0.045
Metal														
Antimony	27	1100	190000	410	1.2 U	1.2 U	1.2 U	1.2 U	0.39 B J	0.11 B J	1.2 U	0.68 B J	1.3 U	1.2 U
Arsenic	150	53	190000	1.6	0.44 B	5.5	2	1.1 B	2.5	3.8	5.8	2.4	9.3	2.7
Barium	8200	190000	190000	190000	14.3 B	47.1 J	66.1 J	44.2 J	46.4	69.1	45.4	47	57.7	46.8
Beryllium	320	5600	190000	2000	0.18 B J	0.72 J	0.59 J	0.34 B J	0.51 J	0.86 J	1.2 J	0.43 B J	0.97 J	0.58 J
Cadmium	38	210	190000	800	0.6 U	0.59 U	0.59 U	0.6 U	0.23 B	0.15 B	0.24 B	0.6	0.3 B	0.076 B
Chromium				1400	16.7	19.3 J	9.8 J	7.5 J	10	16.9	19.8	55.9	20.6	8.2
Copper	36000	100000	190000	41000	1.3 B	9.4	3.3	2.9 B	17.5	4.6	24	10.5	9.1	4.3
Lead	450	1000	190000	800	3.1	10.2	6.6	6.6	12.6 J	9 J	18.8 J	14.2 J	17.1 J	8 J
Nickel	650	56000	190000	20000	0.82 B	7.7 J	4.5 B J	2.3 B J	5	5.2	6.9	8.3	9.5	3.7 B
Selenium	26	14000	190000	5100	0.6 U	1	0.42 B	0.6 U	0.61 U	0.5 B	0.89	0.55 U	1.1	0.6 U
Silver	84	14000	190000	5100	0.6 U	0.59 U	0.59 U	0.6 U	0.61 U	0.57 U	0.18 B	0.045 B	0.15 B	0.6 U
Thallium	14	200	190000	66	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1.3 U	1.2 U
Vanadium	72000	20000	190000	7200	2.4 B	30.4	15.3	8.2	13.9	26.3	39.8	14.4	35.2	12.7
Zinc	12000	190000	190000	310000	8.5 J	23.1 J	11.2 J	6 J	30.7	18.8	19.6	296	45.1	10.2
Other														
N-Hexane Extractable Material														
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2,6-Dinitrotoluene	10	2800	190000	620	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2-Methylnaphthalene	8000	10000	10000	4100	0.39 U	0.022 J	0.38 U	0.39 U	0.87 J	0.38 U	0.41 U	0.52 J	0.41 U	0.39 U
2-Methylphenol	510	10000	10000	31000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
2-Nitroaniline	0.58	160	190000	1800	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
2-Nitrophenol	82	22000	190000		0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
3/4-Methylphenol				5100	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
3-Nitroaniline	0.58	160	190000		1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
4,6-Dinitro-2-Methylphenol				62	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
4-Bromophenyl phenyl ether					0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
4-Chlorodiphenyl Ether					0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-007 12 - 14 7/12/2007	BD54-SB-008 1 - 3 7/11/2007	BD54-SB-008 5 - 7 7/11/2007	BD54-SB-008 8 - 10 7/11/2007	BD54-SB-009 0 - 2 7/12/2007	BD54-SB-009 6 - 8 7/12/2007	BD54-SB-009 13 - 15 7/12/2007	BD54-SB-010 0 - 2 7/12/2007	BD54-SB-010 6 - 8 7/12/2007	BD54-SB-010 12 - 14 7/12/2007
4-Nitroaniline	0.58	160	190000	86	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
4-Nitrophenol	6	22000	190000		1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
Acenaphthene	4700	170000	190000	33000	0.057 J	0.073 J	0.38 U	0.39 U	0.97 J	0.38 U	0.41 U	0.47 J	0.41 U	0.39 U
Acenaphthylene	6900	170000	190000	33000	0.36 J	0.78	0.38 U	0.032 J	6	0.38 U	0.41 U	1.8 J	0.41 U	0.39 U
Anthracene	350	190000	190000	170000	0.13 J	0.32 J	0.38 U	0.39 U	4.2	0.38 U	0.41 U	1.4 J	0.41 U	0.39 U
Benzo (A) Anthracene	320	110	190000	2.1	0.37 J	0.82	0.38 U	0.045 J	9.3	0.38 U	0.41 U	3.2 J	0.41 U	0.031 J
Benzo (a) Pyrene	46	11	190000	0.21	0.4	1.4	0.38 U	0.048 J	10	0.38 U	0.41 U	3.2 J	0.41 U	0.39 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.47	1.4	0.38 U	0.056 J	11	0.38 U	0.41 U	3.4 J	0.41 U	0.023 J
Benzo (g,h,i) Perylene	180	170000	190000		0.3 J	1.6	0.38 U	0.39 U	8.1	0.38 U	0.41 U	2.4 J	0.41 U	0.39 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.15 J	0.36 J	0.38 U	0.031 J	4.1	0.38 U	0.41 U	1.7 J	0.41 U	0.39 U
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.39 U	0.38 U	0.39 U	0.21 J	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Carbazole	83	4000	190000		0.39 U	0.39 U	0.38 U	0.39 U	1.2 J	0.38 U	0.41 U	0.34 J	0.41 U	0.39 U
Chrysene	230	11000	190000	210	0.41	0.96	0.38 U	0.046 J	8.5	0.38 U	0.41 U	3.1 J	0.41 U	0.026 J
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.036 J	0.23 J	0.38 U	0.39 U	1.7	0.38 U	0.41 U	0.33 J	0.41 U	0.39 U
Dibenzofuran					0.029 J	0.028 J	0.38 U	0.39 U	1.1 J	0.38 U	0.41 U	0.54 J	0.41 U	0.39 U
Diethylphthalate	500	10000	10000	490000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Dimethylphthalate					0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Fluoranthene	3200	110000	190000	22000	0.67	0.89	0.38 U	0.05 J	23	0.38 U	0.41 U	7.1	0.41 U	0.061 J
Fluorene	3800	110000	190000	22000	0.1 J	0.14 J	0.38 U	0.39 U	2.5	0.38 U	0.41 U	1 J	0.41 U	0.39 U
Hexachlorobenzene	0.96	50	190000	1.1	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Hexachlorobutadiene	1.2	560	10000	22	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
Hexachloroethane	0.56	2800	190000	120	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.25 J	1.2	0.38 U	0.026 J	7.2	0.38 U	0.41 U	2 J	0.41 U	0.39 U
Isophorone	10	10000	10000	1800	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Naphthalene	25	56000	190000	20	0.39 U	0.039 J	0.38 U	0.39 U	0.74 J	0.38 U	0.41 U	0.55 J	0.41 U	0.39 U
Nitrobenzene	5.1	1400	10000	22	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Pentachlorophenol	5	660	190000	9	1.9 U	1.9 U	1.9 U	1.9 U	7.7 U	1.8 U	2 U	17 U	2 U	1.9 U
Phenanthrene	10000	190000	190000		0.27 J	0.37 J	0.38 U	0.025 J	15	0.38 U	0.41 U	4.8	0.035 J	0.059 J
Phenol	400	190000	190000	180000	0.39 U	0.39 U	0.38 U	0.39 U	1.6 U	0.38 U	0.41 U	3.6 U	0.41 U	0.39 U
Pyrene	2200	84000	190000	17000	0.76	1.9	0.38 U	0.1 J	20	0.38 U	0.41 U	6.4	0.41 U	0.058 J
Total Solids														
Percent Solids					83.70%	84.20%	85.30%	83.90%	82.30%	87.20%	80.40%	91.50%	79.20%	83%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0015 J	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0036 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0019 J	0.0048 U	0.0045 J	0.0048 U	0.003 J	0.005 J
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-007 12 - 14 7/12/2007	BD54-SB-008 1 - 3 7/11/2007	BD54-SB-008 5 - 7 7/11/2007	BD54-SB-008 8 - 10 7/11/2007	BD54-SB-009 0 - 2 7/12/2007	BD54-SB-009 6 - 8 7/12/2007	BD54-SB-009 13 - 15 7/12/2007	BD54-SB-010 0 - 2 7/12/2007	BD54-SB-010 6 - 8 7/12/2007	BD54-SB-010 12 - 14 7/12/2007
1,4-Dioxane	2.4	210	240	160	1 U	1 U	0.93 U	0.93 U	1.1 U	0.96 U	1 U	0.96 U	1.1 U	1.1 U
2-Butanone	580	10000	10000	190000	0.021 U	0.02 U	0.019 U	0.019 U	0.023 U	0.019 U	0.021 U	0.019 U	0.022 U	0.021 U
2-Hexanone					0.021 U	0.02 U	0.019 U	0.019 U	0.023 U	0.019 U	0.021 U	0.019 U	0.022 U	0.021 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.021 U	0.02 U	0.019 U	0.019 U	0.023 U	0.019 U	0.021 U	0.019 U	0.022 U	0.021 U
Acetone	1000	10000	10000	610000	0.021 U	0.02 U	0.019 U	0.019 U	0.023 U	0.019 U	0.021 U	0.012 J	0.022 U	0.0068 J
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.1 U	0.093 U	0.093 U	0.11 U	0.096 U	0.1 U	0.096 U	0.11 U	0.11 U
Benzene	0.5	210	240	5.6	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Bromochloromethane	9	10000	10000		0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Bromoform	10	1500	1700	220	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Bromomethane	1	270	300	35	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Chloroform	10	17	19	1.5	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 U	0.0011 J	0.0046 U	0.0047 U	0.0024 J	0.0048 U	0.0044 J	0.0048 U	0.0056 U	0.0063
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.0044 J B	0.0022 J B	0.0023 J B	0.0025 J B	0.0049 J B	0.0055 B	0.0045 J B	0.0038 J B	0.0039 J B	0.005 J B
Styrene	24	10000	10000	38000	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0041 J	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0066
Toluene	100	10000	10000	46000	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0053 J	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0012 J
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.005 U	0.0046 U	0.0047 U	0.0056 U	0.0048 U	0.0052 U	0.0048 U	0.0056 U	0.0053 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.015 U	0.014 U	0.014 U	0.017 U	0.014 U	0.015 U	0.005 J	0.017 U	0.0068 J

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

Table 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-011 1 - 3 7/12/2007	BD54-SB-011 6 - 8 7/12/2007	BD54-SB-011 11 - 13 7/12/2007	BD54-SB-012 1 - 3 7/11/2007	BD54-SB-012 6 - 8 7/11/2007	BD54-SB-012 13 - 15 7/11/2007	BD54-SB-013 3 - 5 7/11/2007	BD54-SB-013 6 - 8 7/11/2007	BD54-SB-013 Dup 6 - 8 7/12/2007	BD54-SB-013 13 - 15 7/11/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.59 U	0.54 U	0.61 U	0.6 U	0.59 U	0.57 U	0.58 U	0.57 U	0.55 U	0.59 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.12 B J	1.8 J	0.61 U	0.6 U	0.59 U	0.57 U	0.58 U	0.57 U	2	0.59 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.48 U	0.8	0.25 B	0.49 U	0.49 U	0.45 U	0.45 U	0.46 U	0.94	0.48 U
Mercury														
Mercury	10	840	190000	24	0.049	0.037	0.054	0.095	0.038 B	0.051	0.016 B	0.025 B	0.037	0.055
Metal														
Antimony	27	1100	190000	410	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U
Arsenic	150	53	190000	1.6	3.6	3.7	1 B	5.4	1.6	0.98 B	3.2	2.9	4.5	0.87 B
Barium	8200	190000	190000	190000	64.2	80.5	74.3	44.7 J	46.7 J	69.7 J	77.4 J	44.4 J	69.5	46.7 J
Beryllium	320	5600	190000	2000	0.75 J	0.82 J	0.66 J	0.66 J	0.34 B J	0.56 J	0.7 J	0.54 J	1.1 J	0.47 B J
Cadmium	38	210	190000	800	0.097 B	0.21 B	0.61 U	0.6 U	0.59 U	0.57 U	0.58 U	0.57 U	0.3 B	0.59 U
Chromium				1400	15.6	15.9	9.3	21.1 J	11.1 J	8.3 J	14.2 J	8.5 J	23.1	9.2 J
Copper	36000	100000	190000	41000	5.8	7.1	4.6	9.4	2.9 B	3.4	4.8	5.4	6.7	4.5
Lead	450	1000	190000	800	10.4	11.7	12.6	9.7	7	8.4	7.5	5.4	13.7	19.2
Nickel	650	56000	190000	20000	5.8	10.6	3.3 B	8.1 J	3 B J	2.5 B J	5.6 J	4.2 B J	9.7	3.9 B J
Selenium	26	14000	190000	5100	0.59 U	2.7 U	0.61 U	0.85	0.59 U	0.57 U	0.58 U	0.57 U	2.8 U	0.59 U
Silver	84	14000	190000	5100	0.59 U	0.77	0.61 U	0.6 U	0.59 U	0.57 U	0.58 U	0.57 U	0.74	0.59 U
Thallium	14	200	190000	66	1.2 U	5.4 U	1.2 U	0.5 B	1.2 U	1.1 U	1.2 U	1.1 U	5.5 U	1.2 U
Vanadium	72000	20000	190000	7200	16.5	18	12	33.3	11.2	13.2	19.7	15.1	27.6	15.7
Zinc	12000	190000	190000	310000	27.8 J	12.1 J	9.6 J	21.4 J	6.9 J	13.6 J	21.4 J	9.8 J	11.5 J	7.9 J
Other														
N-Hexane Extractable Material														
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
1,3-Dichlorobenzene	61	10000	10000		0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
1,4-Dichlorobenzene	10	3300	190000	13	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2,4-Dichlorophenol	2	8400	190000	1800	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2,4-Dimethylphenol	200	10000	10000	12000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2,6-Dinitrotoluene	10	2800	190000	620	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2-Chloronaphthalene	18000	190000	190000	82000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2-Chlorophenol	4.4	920	1100	5100	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2-Methylnaphthalene	8000	10000	10000	4100	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2-Methylphenol	510	10000	10000	31000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
2-Nitroaniline	0.58	160	190000	1800	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
2-Nitrophenol	82	22000	190000		0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
3/4-Methylphenol				5100	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
3-Nitroaniline	0.58	160	190000		1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
4,6-Dinitro-2-Methylphenol				62	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
4-Bromophenyl phenyl ether					0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
4-Chloroaniline	52	11000	190000	8.6	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
4-Chlorodiphenyl Ether					0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-011 1 - 3 7/12/2007	BD54-SB-011 6 - 8 7/12/2007	BD54-SB-011 11 - 13 7/12/2007	BD54-SB-012 1 - 3 7/11/2007	BD54-SB-012 6 - 8 7/11/2007	BD54-SB-012 13 - 15 7/11/2007	BD54-SB-013 3 - 5 7/11/2007	BD54-SB-013 6 - 8 7/11/2007	BD54-SB-013 Dup 6 - 8 7/12/2007	BD54-SB-013 13 - 15 7/11/2007
4-Nitroaniline	0.58	160	190000	86	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	6	22000	190000		1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Acenaphthene	4700	170000	190000	33000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.02 J	0.37 U	0.39 U
Acenaphthylene	6900	170000	190000	33000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.053 J	0.16 J	0.37 U	0.39 U
Anthracene	350	190000	190000	170000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.038 J	0.11 J	0.37 U	0.39 U
Benzo (A) Anthracene	320	110	190000	2.1	0.39 U	0.054 J	0.4 U	0.02 J	0.39 U	0.37 U	0.13 J	0.45	0.066 J	0.39 U
Benzo (a) Pyrene	46	11	190000	0.21	0.39 U	0.36 U	0.4 U	0.021 J	0.39 U	0.37 U	0.16 J	0.53	0.37 U	0.39 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.39 U	0.063 J	0.4 U	0.4 U	0.39 U	0.37 U	0.19 J	0.62	0.088 J	0.39 U
Benzo (g,h,i) Perylene	180	170000	190000		0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.15 J	0.56	0.37 U	0.39 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.39 U	0.039 J	0.4 U	0.4 U	0.39 U	0.37 U	0.073 J	0.31 J	0.034 J	0.39 U
Bis(2-Chloroethoxy) Methane				1800	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Butylbenzylphthalate	10000	10000	10000	910	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Carbazole	83	4000	190000		0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Chrysene	230	11000	190000	210	0.39 U	0.056 J	0.4 U	0.4 U	0.39 U	0.37 U	0.13 J	0.47	0.076 J	0.39 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.047 J	0.37 U	0.39 U
Dibenzofuran					0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Diethylphthalate	500	10000	10000	490000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Dimethylphthalate					0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Di-n-octylphthalate	10000	10000	10000		0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Fluoranthene	3200	110000	190000	22000	0.39 U	0.087 J	0.4 U	0.4 U	0.39 U	0.37 U	0.17 J	0.61	0.11 J	0.39 U
Fluorene	3800	110000	190000	22000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Hexachlorobenzene	0.96	50	190000	1.1	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Hexachlorobutadiene	1.2	560	10000	22	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Hexachloroethane	0.56	2800	190000	120	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.39 U	0.039 J	0.4 U	0.4 U	0.39 U	0.37 U	0.14 J	0.45	0.37 U	0.39 U
Isophorone	10	10000	10000	1800	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Naphthalene	25	56000	190000	20	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Nitrobenzene	5.1	1400	10000	22	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Pentachlorophenol	5	660	190000	9	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Phenanthrene	10000	190000	190000		0.39 U	0.039 J	0.4 U	0.4 U	0.39 U	0.37 U	0.089 J	0.2 J	0.054 J	0.39 U
Phenol	400	190000	190000	180000	0.39 U	0.36 U	0.4 U	0.4 U	0.39 U	0.37 U	0.38 U	0.38 U	0.37 U	0.39 U
Pyrene	2200	84000	190000	17000	0.39 U	0.093 J	0.4 U	0.033 J	0.39 U	0.37 U	0.24 J	0.87	0.12 J	0.39 U
Total Solids														
Percent Solids					84.30%	91.80%	82.20%	82.90%	84.10%	87.60%	85.90%	87.80%	90.40%	84.20%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0058 U	0.01	0.0086	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.038	0.0025 J
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
1,1-Dichloroethane	11	1000	1200	17	0.005 J	0.031	0.018	0.0063	0.0038 J	0.0051 U	0.0057 U	0.0056 U	0.12	0.0064
1,1-Dichloroethene	0.7	33	38	1100	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-011 1 - 3 7/12/2007	BD54-SB-011 6 - 8 7/12/2007	BD54-SB-011 11 - 13 7/12/2007	BD54-SB-012 1 - 3 7/11/2007	BD54-SB-012 6 - 8 7/11/2007	BD54-SB-012 13 - 15 7/11/2007	BD54-SB-013 3 - 5 7/11/2007	BD54-SB-013 6 - 8 7/11/2007	BD54-SB-013 Dup 6 - 8 7/12/2007	BD54-SB-013 13 - 15 7/11/2007
1,4-Dioxane	2.4	210	240	160	1.2 U	1.2 U	1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
2-Butanone	580	10000	10000	190000	0.023 U	0.024 U	0.021 U	0.021 U	0.021 U	0.021 U	0.023 U	0.023 U	0.024 U	0.024 U
2-Hexanone					0.023 U	0.024 U	0.021 U	0.021 U	0.021 U	0.021 U	0.023 U	0.023 U	0.024 U	0.024 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.023 U	0.024 U	0.021 U	0.021 U	0.021 U	0.021 U	0.023 U	0.023 U	0.024 U	0.024 U
Acetone	1000	10000	10000	610000	0.049	0.024 U	0.021 U	0.047	0.021 U	0.017 J	0.023 U	0.023 U	0.024 U	0.024 U
Acrylonitrile	0.27	24	28	1.2	0.12 U	0.12 U	0.1 U	0.11 U	0.11 U	0.1 U	0.11 U	0.11 U	0.12 U	0.12 U
Benzene	0.5	210	240	5.6	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Bromochloromethane	9	10000	10000		0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Bromodichloromethane	10	45	51	1.4	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Bromoform	10	1500	1700	220	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Bromomethane	1	270	300	35	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Carbon Disulfide	410	10000	10000	3000	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Chlorobenzene	10	10000	10000	1500	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Chlorodibromomethane	10	61	70	3.4	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Chloroethane	90	10000	10000	62000	0.011	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Chloroform	10	17	19	1.5	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Chloromethane	0.3	920	1000	510	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.002 J	0.003 J	0.022	0.22	0.14	0.0051 U	0.0013 J	0.0056 U	0.0073	0.026
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Ethylbenzene	70	10000	10000	29	0.018	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Methyl tert-butyl ether	2	3200	3700	190	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Methylene chloride	0.5	3500	4000	54	0.0047 J B	0.0041 J B	0.0034 J B	0.0023 J B	0.0021 J B	0.0027 J B	0.003 J B	0.0028 J B	0.0042 J B	0.003 J B
Styrene	24	10000	10000	38000	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0058 U	0.0059 U	0.0052 U	0.0018 J	0.0053 U	0.0051 U	0.0018 J	0.0056 U	0.0061 U	0.0059 U
Toluene	100	10000	10000	46000	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Trichloroethene	0.5	970	1100	14	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0039 J
Vinyl Chloride	0.2	53	220	1.7	0.0058 U	0.0059 U	0.0052 U	0.0054 U	0.0053 U	0.0051 U	0.0057 U	0.0056 U	0.0061 U	0.0059 U
Xylenes (Total)	1000	10000	10000	2600	0.12	0.018 U	0.016 U	0.016 U	0.016 U	0.015 U	0.017 U	0.017 U	0.018 U	0.018 U

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

Table 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-014 0 - 2 7/12/2007	BD54-SB-014 6 - 8 7/12/2007	BD54-SB-014 13 - 15 7/12/2007	BD54-SB-015 0 - 2 7/11/2007	BD54-SB-015 6 - 8 7/11/2007	BD54-SB-015 13 - 15 7/11/2007	BD54-SB-016 0 - 2 7/11/2007	BD54-SB-016 6 - 8 7/11/2007	BD54-SB-016 13 - 15 7/11/2007
Cyanide, Free													
Cyanide, Free	200	56000	190000	20000	0.54 U	0.63 U	0.61 U	0.59 U	0.61 U	0.56 U	0.56 U	0.57 U	0.58 U
Cyanide, Total													
Cyanide, Total	200	56000	190000	20000	0.54 U	0.12 B	0.61 U	0.59 U	0.64	0.56 U	0.56 U	0.57 U	0.58 U
Hexavalent Chromium													
Hexavalent Chromium	190	420	190000	200	0.21 B	0.74	0.49 U	0.47 U	0.85	0.45 U	0.46 U	0.44 U	1.7
Mercury													
Mercury	10	840	190000	24	0.04	0.04 B	0.045	0.049	0.071	0.016 B	0.047	0.028 B	0.079
Metal													
Antimony	27	1100	190000	410	1.1 U	1.3 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	0.14 B	1.2 U
Arsenic	150	53	190000	1.6	4.3	5.3	1.4	3.3	4.2	1 B	4	0.99 B	2.4
Barium	8200	190000	190000	190000	84.8	71.2	35	58.9 J	48.8 J	31.2 J	42 J	21.6 B J	45 J
Beryllium	320	5600	190000	2000	0.84 J	0.92 J	0.43 B J	0.8 J	0.63 J	0.36 B J	0.58 J	0.26 B J	0.56 J
Cadmium	38	210	190000	800	0.22 B	0.24 B	0.61 U	0.59 U	0.61 U	0.56 U	0.26 B	0.15 B	0.58 U
Chromium				1400	15.7	21.8	8.3	11.5 J	18.7 J	5.7 J	15.7 J	6.2 J	7.3 J
Copper	36000	100000	190000	41000	6.7	9.5	3.5	8.4	5.4	2.2 B	6.4	2.6 B	4.7
Lead	450	1000	190000	800	11.8 J	10.8 J	12.4 J	11	8.5	6.3	8.5	9	7.7
Nickel	650	56000	190000	20000	5.9	9	3.1 B	6.2 J	5.9 J	1.9 B J	5.3 J	2.2 B J	2.3 B J
Selenium	26	14000	190000	5100	0.31 B	0.59 B	0.61 U	0.56 B	0.6 B	0.56 U	0.56 U	0.57 U	0.4 B
Silver	84	14000	190000	5100	0.14 B	0.11 B	0.61 U	0.59 U	0.61 U	0.56 U	0.56 U	0.57 U	0.58 U
Thallium	14	200	190000	66	1.1 U	1.3 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
Vanadium	72000	20000	190000	7200	28.1	30.2	17.5	18.1	27.8	6.1	21.4	7.2	22.8
Zinc	12000	190000	190000	310000	18.5	28.4	6.8	26.7 J	15.6 J	4.6 J	36.4 J	11.1 J	4 J
Other													
N-Hexane Extractable Material													
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
1,3-Dichlorobenzene	61	10000	10000		0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
1,4-Dichlorobenzene	10	3300	190000	13	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2,4-Dichlorophenol	2	8400	190000	1800	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2,4-Dimethylphenol	200	10000	10000	12000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2,6-Dinitrotoluene	10	2800	190000	620	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2-Chloronaphthalene	18000	190000	190000	82000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2-Chlorophenol	4.4	920	1100	5100	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2-Methylnaphthalene	8000	10000	10000	4100	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2-Methylphenol	510	10000	10000	31000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
2-Nitroaniline	0.58	160	190000	1800	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
2-Nitrophenol	82	22000	190000		0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
3/4-Methylphenol				5100	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
3-Nitroaniline	0.58	160	190000		1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
4,6-Dinitro-2-Methylphenol				62	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
4-Bromophenyl phenyl ether					0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
4-Chloroaniline	52	11000	190000	8.6	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
4-Chlorodiphenyl Ether					0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-014 0 - 2 7/12/2007	BD54-SB-014 6 - 8 7/12/2007	BD54-SB-014 13 - 15 7/12/2007	BD54-SB-015 0 - 2 7/11/2007	BD54-SB-015 6 - 8 7/11/2007	BD54-SB-015 13 - 15 7/11/2007	BD54-SB-016 0 - 2 7/11/2007	BD54-SB-016 6 - 8 7/11/2007	BD54-SB-016 13 - 15 7/11/2007
4-Nitroaniline	0.58	160	190000	86	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
4-Nitrophenol	6	22000	190000		1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
Acenaphthene	4700	170000	190000	33000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.031 J	0.051 J	0.38 U
Acenaphthylene	6900	170000	190000	33000	0.038 J	0.42 U	0.4 U	0.045 J	0.028 J	0.37 U	0.16 J	0.48	0.38 U
Anthracene	350	190000	190000	170000	0.36 U	0.42 U	0.4 U	0.03 J	0.41 U	0.37 U	0.089 J	0.24 J	0.38 U
Benzo (A) Anthracene	320	110	190000	2.1	0.14 J	0.03 J	0.4 U	0.1 J	0.069 J	0.37 U	0.29 J	0.82	0.38 U
Benzo (a) Pyrene	46	11	190000	0.21	0.14 J	0.032 J	0.4 U	0.12 J	0.07 J	0.37 U	0.34 J	0.99	0.38 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.16 J	0.038 J	0.4 U	0.13 J	0.067 J	0.37 U	0.33 J	0.97	0.38 U
Benzo (g,h,i) Perylene	180	170000	190000		0.11 J	0.42 U	0.4 U	0.054 J	0.41 U	0.37 U	0.16 J	0.83	0.38 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.065 J	0.42 U	0.4 U	0.03 J	0.014 J	0.37 U	0.11 J	0.37	0.38 U
Bis(2-Chloroethoxy) Methane				1800	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Butylbenzylphthalate	10000	10000	10000	910	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Carbazole	83	4000	190000		0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Chrysene	230	11000	190000	210	0.13 J	0.03 J	0.4 U	0.11 J	0.06 J	0.37 U	0.34 J	0.93	0.38 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.03 J	0.13 J	0.38 U
Dibenzofuran					0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Diethylphthalate	500	10000	10000	490000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Dimethylphthalate					0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Di-n-octylphthalate	10000	10000	10000		0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Fluoranthene	3200	110000	190000	22000	0.23 J	0.047 J	0.4 U	0.16 J	0.096 J	0.37 U	0.41	1.1	0.38 U
Fluorene	3800	110000	190000	22000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.044 J	0.08 J	0.38 U
Hexachlorobenzene	0.96	50	190000	1.1	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Hexachlorobutadiene	1.2	560	10000	22	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
Hexachloroethane	0.56	2800	190000	120	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.095 J	0.016 J	0.4 U	0.031 J	0.41 U	0.37 U	0.22 J	0.66	0.38 U
Isophorone	10	10000	10000	1800	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Naphthalene	25	56000	190000	20	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.037 J	0.37 U	0.38 U
Nitrobenzene	5.1	1400	10000	22	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Pentachlorophenol	5	660	190000	9	1.7 U	2 U	2 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U
Phenanthrene	10000	190000	190000		0.083 J	0.021 J	0.4 U	0.11 J	0.087 J	0.37 U	0.14 J	0.23 J	0.38 U
Phenol	400	190000	190000	180000	0.36 U	0.42 U	0.4 U	0.39 U	0.41 U	0.37 U	0.37 U	0.37 U	0.38 U
Pyrene	2200	84000	190000	17000	0.23 J	0.05 J	0.4 U	0.24 J	0.16 J	0.37 U	0.84	1.9	0.38 U
Total Solids													
Percent Solids					91.80%	79.10%	81.90%	85.20%	81.50%	89.30%	88.80%	88.40%	86.10%
Volatile Organic Compound													
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.006 U	0.0066	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.0019 J	0.031	0.0038 J	0.01	0.0015 J	0.0065 U	0.0095	0.01
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	BD54-SB-014 0 - 2 7/12/2007	BD54-SB-014 6 - 8 7/12/2007	BD54-SB-014 13 - 15 7/12/2007	BD54-SB-015 0 - 2 7/11/2007	BD54-SB-015 6 - 8 7/11/2007	BD54-SB-015 13 - 15 7/11/2007	BD54-SB-016 0 - 2 7/11/2007	BD54-SB-016 6 - 8 7/11/2007	BD54-SB-016 13 - 15 7/11/2007
1,4-Dioxane	2.4	210	240	160	1 U	1.2 U	0.99 U	1.5 U	1.1 U	0.97 U	1.3 U	1 U	1 U
2-Butanone	580	10000	10000	190000	0.02 U	0.024 U	0.02 U	0.03 U	0.022 U	0.019 U	0.026 U	0.02 U	0.02 U
2-Hexanone					0.02 U	0.024 U	0.02 U	0.03 U	0.022 U	0.019 U	0.026 U	0.02 U	0.02 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U	0.024 U	0.02 U	0.03 U	0.022 U	0.019 U	0.026 U	0.02 U	0.02 U
Acetone	1000	10000	10000	610000	0.048	0.017 J	0.02 U	0.035	0.022 U	0.019 U	0.04	0.02 U	0.02 U
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.12 U	0.099 U	0.15 U	0.11 U	0.097 U	0.13 U	0.1 U	0.1 U
Benzene	0.5	210	240	5.6	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Bromochloromethane	9	10000	10000		0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Bromoform	10	1500	1700	220	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Bromomethane	1	270	300	35	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0048 J	0.005 U	0.0051 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Chloroethane	90	10000	10000	62000	0.0063	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Chloroform	10	17	19	1.5	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0013 J	0.013	0.12	0.032	0.12	0.021	0.081	0.22	0.011
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Ethylbenzene	70	10000	10000	29	0.0095	0.0047 J	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Methylene chloride	0.5	3500	4000	54	0.0045 J B	0.0044 J B	0.0044 J B	0.0031 J B	0.0023 J B	0.0023 J B	0.0038 J B	0.0017 J B	0.0018 J B
Styrene	24	10000	10000	38000	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0015 J	0.0049 U	0.088	0.1	0.0016 J
Toluene	100	10000	10000	46000	0.0051 U	0.0062	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.005 U	0.0051 U
Trichloroethene	0.5	970	1100	14	0.0051 U	0.0014 J	0.0078	0.0075 U	0.002 J	0.0049 U	0.012	0.0082	0.0013 J
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.006 U	0.0049 U	0.0075 U	0.0054 U	0.0049 U	0.0065 U	0.0051	0.0051 U
Xylenes (Total)	1000	10000	10000	2600	0.13	0.024	0.011 J	0.022 U	0.016 U	0.015 U	0.02 U	0.015 U	0.015 U

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

Table 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	*Bldg 54 East Side Wall Middle 1.5 - 2 6/21/2007	*Bldg 54 East Side Wall North 2.3 - 2.8 6/21/2007	*Bldg 54 East Side Wall South 0.25 - 0.75 6/21/2007	*Bldg 54 L. East Side Wall North 1.75 - 2.25 6/21/2007
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	0.087	0.038	0.037 B	0.051
Metal								
Antimony	27	1100	190000	410	7.6 J	0.40 J	0.78 J	0.65 J
Arsenic	150	53	190000	1.6	5	2.4	2.4	3.2
Barium	8200	190000	190000	190000	65.8 J	32.6 J	55.4 J	45.6 J
Beryllium	320	5600	190000	2000	0.36 B	0.49	0.67	0.54 B
Cadmium	38	210	190000	800	1.8	0.45 B	0.079 B	1.1 B
Chromium				1400	937	143	198	51.2
Copper	36000	100000	190000	41000	43.9	15.1	8.4	18.3
Lead	450	1000	190000	800	121 J	31.7 J	16.8 J	20.2 J
Nickel	650	56000	190000	20000	14.9 J	9.5 J	5.9 J	11.8 J
Selenium	26	14000	190000	5100	0.55 U	0.58 U	0.61 U	0.69 U
Silver	84	14000	190000	5100	0.46 B	0.58 U	0.61 U	0.69 U
Thallium	14	200	190000	66	1.1 U	1.2 U	1.2 U	1.4 U
Vanadium	72000	20000	190000	7200	20.4	16.4	17.9	19.4
Zinc	12000	190000	190000	310000	362 J	161 J	29.6 J	514 J
Other								
N-Hexane Extractable Material					18600	9980	10000	12700
Semi Volatile Organic Compound								
1,2,4-Trichlorobenzene	27	10000	10000	400				
1,2-Dichlorobenzene	60	10000	10000	10000				
1,3-Dichlorobenzene	61	10000	10000					
1,4-Dichlorobenzene	10	3300	190000	13				
2,4,5-Trichlorophenol	6100	190000	190000	62000				
2,4,6-Trichlorophenol	8.9	840	190000	160				
2,4-Dichlorophenol	2	8400	190000	1800				
2,4-Dimethylphenol	200	10000	10000	12000				
2,4-Dinitrophenol	4.1	5600	190000	1200				
2,4-Dinitrotoluene	0.84	260	190000	5.5				
2,6-Dinitrotoluene	10	2800	190000	620				
2-Chloronaphthalene	18000	190000	190000	82000				
2-Chlorophenol	4.4	920	1100	5100				
2-Methylnaphthalene	8000	10000	10000	4100				
2-Methylphenol	510	10000	10000	31000				
2-Nitroaniline	0.58	160	190000	1800				
2-Nitrophenol	82	22000	190000					
3,3'-Dichlorobenzidine	32	180	190000	3.8				
3/4-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								

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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	*Bldg 54 East Side Wall Middle 1.5 - 2 6/21/2007	*Bldg 54 East Side Wall North 2.3 - 2.8 6/21/2007	*Bldg 54 East Side Wall South 0.25 - 0.75 6/21/2007	*Bldg 54 L. East Side Wall North 1.75 - 2.25 6/21/2007
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				
Total Solids								
Percent Solids					90.20%	85.60%	81.80%	72.80%
Volatile Organic Compound								
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	10 U	1.3 U	6.6 U	0.83 U
1,1,1-Trichloroethane	20	10000	10000	39000	370	43	170	26
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	10 U	1.3 U	6.6 U	0.83 U
1,1,2-Trichloroethane	0.5	100	120	5.5	10 U	1.3 U	6.6 U	0.83 U
1,1-Dichloroethane	11	1000	1200	17	48	5.2	38	8.5
1,1-Dichloroethene	0.7	33	38	1100	7.9 J	1.1 J	6.6 U	0.59 J
1,2-Dibromoethane	0.005	0.93	8.6	0.17	10 U	1.3 U	6.6 U	0.83 U
1,2-Dichloroethane	0.5	63	73	2.2	10 U	1.3 U	6.6 U	0.83 U
1,2-Dichloropropane	0.5	160	180	4.7	10 U	1.3 U	6.6 U	0.83 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 3.25-2
Soils Data Summary - Building 54 (BD54)
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)	*Bldg 54 East Side Wall Middle 1.5 - 2 6/21/2007	*Bldg 54 East Side Wall North 2.3 - 2.8 6/21/2007	*Bldg 54 East Side Wall South 0.25 - 0.75 6/21/2007	*Bldg 54 L. East Side Wall North 1.75 - 2.25 6/21/2007
1,4-Dioxane	2.4	210	240	160	2100 U	260 U	1300 U	170 U
2-Butanone	580	10000	10000	190000	42 U	5.2 U	26 U	3.3 U
2-Hexanone					42 U	5.2 U	26 U	3.3 U
4-Methyl-2-Pentanone	41	4300	4900	52000	42 U	5.2 U	26 U	3.3 U
Acetone	1000	10000	10000	610000	42 U	5.2 U	26 U	3.3 U
Acrylonitrile	0.27	24	28	1.2	210 U	26 U	130 U	17 U
Benzene	0.5	210	240	5.6	10 U	1.3 U	6.6 U	0.83 U
Bromochloromethane	9	10000	10000		10 U	1.3 U	6.6 U	0.83 U
Bromodichloromethane	10	45	51	1.4	10 U	1.3 U	6.6 U	0.83 U
Bromoform	10	1500	1700	220	10 U	1.3 U	6.6 U	0.83 U
Bromomethane	1	270	300	35	10 U	1.3 U	6.6 U	0.83 U
Carbon Disulfide	410	10000	10000	3000	10 U	1.3 U	6.6 U	0.83 U
Carbon Tetrachloride	0.5	110	120	1.3	10 U	1.3 U	6.6 U	0.83 U
Chlorobenzene	10	10000	10000	1500	10 U	1.3 U	6.6 U	0.83 U
Chlorodibromomethane	10	61	70	3.4	10 U	1.3 U	6.6 U	0.83 U
Chloroethane	90	10000	10000	62000	10 U	1.3 U	6.6 U	0.83 U
Chloroform	10	17	19	1.5	10 U	1.3 U	6.6 U	0.83 U
Chloromethane	0.3	920	1000	510	10 U	1.3 U	6.6 U	0.83 U
cis-1,2-Dichloroethene	7	1900	2100	10000	2.8 J	0.44 J	1.8 J	0.69 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	10 U	1.3 U	6.6 U	0.83 U
Ethylbenzene	70	10000	10000	29	10 U	1.3 U	6.6 U	0.83 U
Methyl tert-butyl ether	2	3200	3700	190	10 U	1.3 U	6.6 U	0.83 U
Methylene chloride	0.5	3500	4000	54	10 U	1.3 U	6.6 U	0.83 U
Styrene	24	10000	10000	38000	10 U	1.3 U	6.6 U	0.83 U
Tetrachloroethene	0.5	1500	3300	2.7	10 U	1.3 U	2.6 J	0.83 U
Toluene	100	10000	10000	46000	10 U	1.3 U	6.6 U	0.83 U
trans-1,2-Dichloroethene	10	3700	4300	500	10 U	1.3 U	6.6 U	0.83 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	10 U	1.3 U	6.6 U	0.83 U
Trichloroethene	0.5	970	1100	14	10 U	1.3 U	6.6 U	0.83 U
Vinyl Chloride	0.2	53	220	1.7	10 U	1.3 U	6.6 U	0.83 U
Xylenes (Total)	1000	10000	10000	2600	31 U	3.9 U	20 U	2.5 U

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