Table 3.11-2
Soils Data Summary - Former Coal Storage Area (NW Bldg 10) (FCSA)
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)	FCSA-SB-001 0 - 2 5/9/2007	FCSA-SB-001 4 - 6 5/9/2007	FCSA-SB-002 0 - 2 5/8/2007	FCSA-SB-002 1 - 3 6/29/2007	FCSA-SB-002 8 - 10 7/6/2007	FCSA-SB-003 0 - 2 5/7/2007	FCSA-SB-003 8 - 10 5/7/2007	FCSA-SB-004 0 - 2 5/8/2007	FCSA-SB-004 7 - 9 5/9/2007
Hexavalent Chromium													
Hexavalent Chromium	190	420	190000	200	1.2	1.2							0.52 U
Mercury													
Mercury	10	840	190000	24			0.034 B	0.066	0.07	0.052	0.048	0.092	
Metal													
Antimony	27	1100	190000	410			1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	0.22 B	
Arsenic	150	53	190000	1.6			7.4	5.3	5.9	3.4	4.8	8.8	
Barium	8200	190000	190000	190000			66.6	51.9	41.9	73.8	72	42.8	
Beryllium	320	5600	190000	2000			0.58	0.78 J	0.71 J	0.71 J	1 J	0.52	
Cadmium	38	210	190000	800			0.51 B	0.53 B	0.64 U	0.39 B	3.1 U	1.5	
Chromium				1400			17.2	21	11.5	14.6	14.9	71.9	
Copper	36000	100000	190000	41000			18.6	60.4	6.3	9.2	5.9	43.8	
Lead	450	1000	190000	800			12.7	14.7	17.2	19.7	11.3	331	
Nickel	650	56000	190000	20000			13.3	17.3	7.2	12.2	8.3	9.2	
Selenium	26	14000	190000	5100			0.59 U	0.63 B	0.79	0.79	2.2	0.63	
Silver	84	14000	190000	5100			0.12 B	0.64 U	0.098 B	0.58 U	0.61 U	8	
Thallium	14	200	190000	66			1.2 U	0.55 B	0.82 B	1.2 U	1.2 U	0.53 B	
Vanadium	72000	20000	190000	7200			51.6	45.2	28.6	17.9	30	21.7	
Zinc	12000	190000	190000	310000			49.1 J	86.8 E	15.2	48.4 J	21.1 J	37.3 J	
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
1,2-Dichlorobenzene	60	10000	10000	10000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
1,3-Dichlorobenzene	61	10000	10000		0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
1,4-Dichlorobenzene	10	3300	190000	13	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.016 J	0.013 J	0.79 U	0.42 U
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2,4,6-Trichlorophenol	8.9	840	190000	160	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2,4-Dichlorophenol	2	8400	190000	1800	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2,4-Dimethylphenol	200	10000	10000	12000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2,6-Dinitrotoluene	10	2800	190000	620	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2-Chloronaphthalene	18000	190000	190000	82000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2-Chlorophenol	4.4	920	1100	5100	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2-Methylnaphthalene	8000	10000	10000	4100	0.058 J	0.4 U	0.17 J	0.34 J	0.42 U	0.032 J	0.4 U	0.14 J	0.42 U
2-Methylphenol	510	10000	10000	31000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
2-Nitroaniline	0.58	160	190000	1800	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
2-Nitrophenol	82	22000	190000		0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
3/4-Methylphenol				5100	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
3-Nitroaniline	0.58	160	190000		1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
4,6-Dinitro-2-Methylphenol				62	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
4-Bromophenyl phenyl ether					0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
4-Chloroaniline	52	11000	190000	8.6	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
4-Chlorodiphenyl Ether					0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
4-Nitroaniline	0.58	160	190000	86	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
4-Nitrophenol	6	22000	190000		1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
Acenaphthene	4700	170000	190000	33000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Acenaphthylene	6900	170000	190000	33000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Anthracene	350	190000	190000	170000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Benzo (A) Anthracene	320	110	190000	2.1	0.4 U	0.4 U	0.77 U	0.079 J	0.42 U	0.025 J	0.4 U	0.79 U	0.42 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)	FCSA-SB-001 0 - 2 5/9/2007	FCSA-SB-001 4 - 6 5/9/2007	FCSA-SB-002 0 - 2 5/8/2007	FCSA-SB-002 1 - 3 6/29/2007	FCSA-SB-002 8 - 10 7/6/2007	FCSA-SB-003 0 - 2 5/7/2007	FCSA-SB-003 8 - 10 5/7/2007	FCSA-SB-004 0 - 2 5/8/2007	FCSA-SB-004 7 - 9 5/9/2007
Benzo (a) Pyrene	46	11	190000	0.21	0.4 U	0.4 U	0.77 U	0.056 J	0.42 U	0.026 J	0.4 U	0.79 U	0.42 U
Benzo (b) Fluoranthene	170	110	190000	2.1	0.4 U	0.4 U	0.77 U	0.075 J	0.42 U	0.032 J	0.4 U	0.79 U	0.42 U
Benzo (g,h,i) Perylene	180	170000	190000		0.4 U	0.4 U	0.77 U	0.092 J	0.42 U	0.056 J	0.4 U	0.79 U	0.42 U
Benzo (k) Fluoranthene	610	1100	190000	21	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Bis(2-Chloroethoxy) Methane				1800	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.4 U	0.4 U	0.77 U	0.28 J	0.42 U	0.098 J	0.4 U	0.79 U	0.42 U
Butylbenzylphthalate	10000	10000	10000	910	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.014 J	0.0094 J	0.79 U	0.42 U
Carbazole	83	4000	190000		0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Chrysene	230	11000	190000	210	0.4 U	0.4 U	0.77 U	0.11 J	0.42 U	0.032 J	0.4 U	0.79 U	0.42 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.058 J	0.4 U	0.79 U	0.42 U
Dibenzofuran					0.015 J	0.4 U	0.044 J	0.096 J	0.42 U	0.011 J	0.4 U	0.033 J	0.42 U
Diethylphthalate	500	10000	10000	490000	0.4 U	0.4 U	0.77 U	0.15 J	0.42 U	0.012 J	0.01 J	0.79 U	0.42 U
Dimethylphthalate					0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.066 J	0.4 U	0.79 U	0.42 U
Di-n-Butylphthalate	4100	10000	10000	62000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.14 J	0.4 U	0.79 U	0.42 U
Di-n-octylphthalate	10000	10000	10000		0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Fluoranthene	3200	110000	190000	22000	0.4 U	0.4 U	0.77 U	0.11 J	0.42 U	0.054 J	0.4 U	0.79 U	0.42 U
Fluorene	3800	110000	190000	22000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Hexachlorobenzene	0.96	50	190000	1.1	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Hexachlorobutadiene	1.2	560	10000	22	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
Hexachloroethane	0.56	2800	190000	120	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.4 U	0.4 U	0.77 U	0.038 J	0.42 U	0.037 J	0.4 U	0.79 U	0.42 U
Isophorone	10	10000	10000	1800	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Naphthalene	25	56000	190000	20	0.034 J	0.4 U	0.12 J	0.23 J	0.42 U	0.023 J	0.4 U	0.081 J	0.42 U
Nitrobenzene	5.1	1400	10000	22	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.79 U	0.42 U
Pentachlorophenol	5	660	190000	9	1.9 U	1.9 U	3.7 U	4.1 U	2 U	1.9 U	2 U	3.9 U	2 U
Phenanthrene	10000	190000	190000		0.03 J	0.4 U	0.09 J	0.2 J	0.42 U	0.038 J	0.4 U	0.095 J	0.42 U
Phenol	400	190000	190000	180000	0.4 U	0.4 U	0.77 U	0.84 U	0.42 U	0.38 U	0.4 U	0.024 J	0.42 U
Pyrene	2200	84000	190000	17000	0.4 U	0.4 U	0.77 U	0.081 J	0.42 U	0.045 J	0.4 U	0.79 U	0.42 U
Total Solids													
Percent Solids					83%	82.40%	85.50%	78.10%	78.50%	85.90%	81.90%	83%	79.50%
Volatile Organic Compound													
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
1,4-Dioxane	2.4	210	240	160	1 U	1 U	1.1 U	1.1 U	1.1 U	1.2 U	0.99 U	1.2 U	1.1 U
2-Butanone	580	10000	10000	190000	0.02 U	0.02 U	0.022 U	0.021 U	0.022 U	0.024 U	0.02 U	0.024 U	0.021 U
2-Hexanone					0.02 U	0.02 U	0.022 U	0.021 U	0.022 U	0.024 U	0.02 U	0.024 U	0.021 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U	0.02 U	0.022 U	0.021 U	0.022 U	0.024 U	0.02 U	0.024 U	0.021 U
Acetone	1000	10000	10000	610000	0.02 U	0.02 U	0.022 U	0.021 U	0.022 U	0.024 U	0.02 U	0.024 U	0.021 U
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.1 U	0.11 U	0.11 U	0.11 U	0.12 U	0.099 U	0.12 U	0.11 U

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Benzene	0.5	210	240	5.6	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Bromochloromethane	9	10000	10000		0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Bromoform	10	1500	1700	220	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Bromomethane	1	270	300	35	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Chloroform	10	17	19	1.5	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.0013 J	0.002 J
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.0016 J B	0.0019 J B	0.0054 U	0.0012 J B	0.0017 J B	0.0027 J	0.0066	0.0016 J	0.0017 J B
Styrene	24	10000	10000	38000	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0017 J	0.006 U	0.0053 U
Toluene	100	10000	10000	46000	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.067	0.021
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.0051 U	0.0054 U	0.0053 U	0.0055 U	0.0059 U	0.0049 U	0.006 U	0.0053 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.015 U	0.016 U	0.016 U	0.017 U	0.018 U	0.015 U	0.018 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.