Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	A-4 7 - 9 8/9/1995	CS-1 3.5 10/28/1999	CS-2 4 10/28/1999	CS-3 1.5 10/28/1999	CS-4 6 10/28/1999	CS-5 6 10/28/1999	CS-6 2.5 10/28/1999	CS-7 3.5 10/28/1999	CS-7 Dup 3.5 10/28/1999	CS-8 3 10/28/1999	D-2 7 - 9 8/9/1995	OWCA-CB-1 2 - 2.5 4/25/1988
Cyanide																
Cyanide, Free	200	56000	190000	20000												0 U
Cyanide, Total	200	56000	190000	20000												0.056
Hexavalent Chromium																
Hexavalent Chromium	190	420	190000	200												
Mercury																
Mercury	10	840	190000	24												
Metal																
Antimony	27	1100	190000	410												0 U
Arsenic	150	53	190000	1.6												16
Barium	8200	190000	190000	190000												
Beryllium	320	5600	190000	2000												0 U
Cadmium	38	210	190000	800												0 U
Chromium				1400												15
Copper	36000	100000	190000	41000												13
Hexavalent Chromium	190	420	190000	200												
Lead	450	1000	190000	800												8.7
Mercury	10	840	190000	24												0 U
Nickel	650	56000	190000	20000												6.7
Selenium	26	14000	190000	5100												0 U
Silver	84	14000	190000	5100												0 U
Thallium	14	200	190000	66												0 U
Vanadium	72000	20000	190000	7200												
Zinc	12000	190000	190000	310000												22
Polychlorinated Biphenols																
Arochlor-1016	200	200	10000	21												
Arochlor-1221	2.5	160	10000	0.62												
Arochlor-1232	2	160	10000	0.62												
Arochlor-1242	62	160	10000	0.74												
Arochlor-1248	67	44	10000	0.74												
Arochlor-1254	280	44	10000	0.74												
Arochlor-1260	1900	130	190000	0.74												
PCBs (Total)				0.74												
Semi Volatile Organic Compound																
1,2,4-Trichlorobenzene	27	10000	10000	400												
1,2-Dichlorobenzene	60	10000	10000	10000												
1,3-Dichlorobenzene	61	10000	10000													
1,4-Dichlorobenzene	10	3300	190000	13												
2,4,5-Trichlorophenol	6100	190000	190000	62000												
2,4,6-Trichlorophenol	8.9	840	190000	160												
2,4-Dichlorophenol	2	8400	190000	1800												
2,4-Dimethylphenol	200	10000	10000	12000												
2,4-Dinitrophenol	4.1	5600	190000	1200												
2,4-Dinitrotoluene	0.84	260	190000	5.5												
2,6-Dinitrotoluene	10	2800	190000	620												
2-Chloronaphthalene	18000	190000	190000	82000												
2-Chlorophenol	4.4	920	1100	5100												
2-Methylnaphthalene	8000	10000	10000	4100												
2-Methylphenol	510	10000	10000	31000												
2-Nitroaniline	0.58	160	190000	1800												
2-Nitrophenol	82	22000	190000													

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	A-4 7 - 9 8/9/1995	CS-1 3.5 10/28/1999	CS-2 4 10/28/1999	CS-3 1.5 10/28/1999	CS-4 6 10/28/1999	CS-5 6 10/28/1999	CS-6 2.5 10/28/1999	CS-7 3.5 10/28/1999	CS-7 Dup 3.5 10/28/1999	CS-8 3 10/28/1999	D-2 7 - 9 8/9/1995	OWCA-CB-1 2 - 2.5 4/25/1988
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																
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																
Volatile Organic Compound																
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8												

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	A-4 7 - 9 8/9/1995	CS-1 3.5 10/28/1999	CS-2 4 10/28/1999	CS-3 1.5 10/28/1999	CS-4 6 10/28/1999	CS-5 6 10/28/1999	CS-6 2.5 10/28/1999	CS-7 3.5 10/28/1999	CS-7 Dup 3.5 10/28/1999	CS-8 3 10/28/1999	D-2 7 - 9 8/9/1995	OWCA-CB-1 2 - 2.5 4/25/1988
1,1,1-Trichloroethane	20	10000	10000	39000	0.0058 U										0.029 U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0058 U										0.029 U	
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0058 U										0.029 U	
1,1-Dichloroethane	11	1000	1200	17	0.0058 U										0.029 U	
1,1-Dichloroethene	0.7	33	38	1100	0.0058 U										0.029 U	
1,2-Dibromoethane	0.005	0.93	8.6	0.17												
1,2-Dichloroethane	0.5	63	73	2.2	0.0058 U										0.029 U	
1,2-Dichloropropane	0.5	160	180	4.7	0.0058 U										0.029 U	
1,4-Dioxane	2.4	210	240	160												
2-Butanone	580	10000	10000	190000	0.058 U										0.29 U	
2-Chloroethyl Vinyl Ether					0.058 U										0.29 U	
2-Hexanone					0.058 U										0.29 U	
4-Methyl-2-Pentanone	41	4300	4900	52000	0.058 U										0.29 U	
Acetone	1000	10000	10000	610000	0.058 U										0.29 U	
Acrylonitrile	0.27	24	28	1.2												
Benzene	0.5	210	240	5.6	0.0058 U										0.129 U	
Bromochloromethane	9	10000	10000													
Bromodichloromethane	10	45	51	1.4	0.0058 U										0.029 U	
Bromoform	10	1500	1700	220	0.0058 U										0.029 U	
Bromomethane	1	270	300	35	0.012 U										0.059 U	
Carbon Disulfide	410	10000	10000	3000	0.0058 U										0.029 U	
Carbon Tetrachloride	0.5	110	120	1.3	0.012 U										0.059 U	
Chlorobenzene	10	10000	10000	1500	0.0058 U										0.029 U	
Chlorodibromomethane	10	61	70	3.4	0.0058 U										0.029 U	
Chloroethane	90	10000	10000	62000	0.0058 U										0.029 U	
Chloroform	10	17	19	1.5	0.0058 U										0.029 U	
Chloromethane	0.3	920	1000	510	0.012 U										0.059 U	
cis-1,2-Dichloroethene	7	1900	2100	10000												
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0058 U										0.029 U	
Ethylbenzene	70	10000	10000	29	0.0058 U										0.029 U	0 U
Methyl tert-butyl ether	2	3200	3700	190												
Methylene chloride	0.5	3500	4000	54	0.012 U										0.059 U	
Naphthalene	25	56000	190000	20		0.63	0.059	0.014	0.012	0.025	0.009	0.005 U	0.005 U	0.005 U		
Styrene	24	10000	10000	38000	0.0058 U										0.029 U	
Tetrachloroethene	0.5	1500	3300	2.7	0.0058 U										26	0 U
Toluene	100	10000	10000	46000	0.0058 U	9.1 D	0.15	0.005 U	0.032	0.17	0.005 U	0.005 U	0.005 U	0.005 U	0.029 U	0 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0058 U										0.029 U	0 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0058 U										0.029 U	
Trichloroethene	0.5	970	1100	14	0.0058 U										0.53	0 U
Vinyl Acetate	120	10000	10000	4200	0.058 U										0.29 U	
Vinyl Chloride	0.2	53	220	1.7	0.012 U										0.059 U	
Xylenes (Total)	1000	10000	10000	2600	0.029 U										0.085	

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Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-1 6 - 6.5 4/25/1988	OWCA-CB-2 2 - 2.5 4/25/1988	OWCA-CB-2 10 - 10.5 4/25/1988	OWCA-CB-3 2 - 2.5 4/25/1988	OWCA-CB-3 12 - 12.5 4/26/1988	OWCA-CB-4 4 - 4.5 4/25/1988	OWCA-CB-5 2 - 2.5 4/26/1988	OWCA-CB-6 10 - 10.5 4/26/1988	OWCA-CB-7 3 - 3.5 4/26/1988	OWCA-CB-8 4 - 4.5 4/26/1988	OWCA-CB-9 4 - 4.5 4/27/1988
Cyanide															
Cyanide, Free	200	56000	190000	20000	0 U	0.2	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Cyanide, Total	200	56000	190000	20000	0.04	0 U	0 U	0 U	0 U	0 U	0.02	0 U	0.092		
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200											
Mercury															
Mercury	10	840	190000	24											
Metal															
Antimony	27	1100	190000	410	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Arsenic	150	53	190000	1.6	13	14	28	20	16	18	15	8.7	20		
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0 U	0 U	7.3	0 U	0 U	0 U	0 U	0 U	0 U		
Cadmium	38	210	190000	800	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Chromium				1400	11	20	49	19	14	14	13	11	15		
Copper	36000	100000	190000	41000	13	19	45	16	30	26	20	21	22		
Hexavalent Chromium	190	420	190000	200											
Lead	450	1000	190000	800	7.3	21	50	7.3	23	3.3	10	11	8.7		
Mercury	10	840	190000	24	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Nickel	650	56000	190000	20000	6.7	4	27	8.7	20	3.3	6.7	5.3	12		
Selenium	26	14000	190000	5100	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Silver	84	14000	190000	5100	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Thallium	14	200	190000	66	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U		
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	25	19	230	25	33	17	18	35	31		
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21											
Arochlor-1221	2.5	160	10000	0.62											
Arochlor-1232	2	160	10000	0.62											
Arochlor-1242	62	160	10000	0.74											
Arochlor-1248	67	44	10000	0.74											
Arochlor-1254	280	44	10000	0.74											
Arochlor-1260	1900	130	190000	0.74											
PCBs (Total)				0.74											
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400											
1,2-Dichlorobenzene	60	10000	10000	10000											
1,3-Dichlorobenzene	61	10000	10000												
1,4-Dichlorobenzene	10	3300	190000	13											
2,4,5-Trichlorophenol	6100	190000	190000	62000											
2,4,6-Trichlorophenol	8.9	840	190000	160											
2,4-Dichlorophenol	2	8400	190000	1800											
2,4-Dimethylphenol	200	10000	10000	12000											
2,4-Dinitrophenol	4.1	5600	190000	1200											
2,4-Dinitrotoluene	0.84	260	190000	5.5											
2,6-Dinitrotoluene	10	2800	190000	620											
2-Chloronaphthalene	18000	190000	190000	82000											
2-Chlorophenol	4.4	920	1100	5100											
2-Methylnaphthalene	8000	10000	10000	4100											
2-Methylphenol	510	10000	10000	31000											
2-Nitroaniline	0.58	160	190000	1800											
2-Nitrophenol	82	22000	190000												

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-1 6 - 6.5 4/25/1988	OWCA-CB-2 2 - 2.5 4/25/1988	OWCA-CB-2 10 - 10.5 4/25/1988	OWCA-CB-3 2 - 2.5 4/25/1988	OWCA-CB-3 12 - 12.5 4/26/1988	OWCA-CB-4 4 - 4.5 4/25/1988	OWCA-CB-5 2 - 2.5 4/26/1988	OWCA-CB-6 10 - 10.5 4/26/1988	OWCA-CB-7 3 - 3.5 4/26/1988	OWCA-CB-8 4 - 4.5 4/26/1988	OWCA-CB-9 4 - 4.5 4/27/1988
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															
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															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8											

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-1 6 - 6.5 4/25/1988	OWCA-CB-2 2 - 2.5 4/25/1988	OWCA-CB-2 10 - 10.5 4/25/1988	OWCA-CB-3 2 - 2.5 4/25/1988	OWCA-CB-3 12 - 12.5 4/26/1988	OWCA-CB-4 4 - 4.5 4/25/1988	OWCA-CB-5 2 - 2.5 4/26/1988	OWCA-CB-6 10 - 10.5 4/26/1988	OWCA-CB-7 3 - 3.5 4/26/1988	OWCA-CB-8 4 - 4.5 4/26/1988	OWCA-CB-9 4 - 4.5 4/27/1988
1,1,1-Trichloroethane	20	10000	10000	39000	0 U	0.005	0 U	0.005	0 U	0 U	0 U	0 U	0 U	0 U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9											
1,1,2-Trichloroethane	0.5	100	120	5.5											
1,1-Dichloroethane	11	1000	1200	17											
1,1-Dichloroethene	0.7	33	38	1100								0 U	0 U	0 U	0.105
1,2-Dibromoethane	0.005	0.93	8.6	0.17											
1,2-Dichloroethane	0.5	63	73	2.2											
1,2-Dichloropropane	0.5	160	180	4.7											
1,4-Dioxane	2.4	210	240	160											
2-Butanone	580	10000	10000	190000											
2-Chloroethyl Vinyl Ether															
2-Hexanone															
4-Methyl-2-Pentanone	41	4300	4900	52000											
Acetone	1000	10000	10000	610000											
Acrylonitrile	0.27	24	28	1.2											
Benzene	0.5	210	240	5.6											
Bromochloromethane	9	10000	10000												
Bromodichloromethane	10	45	51	1.4											
Bromoform	10	1500	1700	220											
Bromomethane	1	270	300	35											
Carbon Disulfide	410	10000	10000	3000											
Carbon Tetrachloride	0.5	110	120	1.3											
Chlorobenzene	10	10000	10000	1500											
Chlorodibromomethane	10	61	70	3.4											
Chloroethane	90	10000	10000	62000											
Chloroform	10	17	19	1.5											
Chloromethane	0.3	920	1000	510											
cis-1,2-Dichloroethene	7	1900	2100	10000											
cis-1,3-Dichloropropene	2.6	410	470	8.4											
Ethylbenzene	70	10000	10000	29	0 U	0.19	0.01	0 U	0 U	0 U	0.38	0 U	2	0 U	0 U
Methyl tert-butyl ether	2	3200	3700	190											
Methylene chloride	0.5	3500	4000	54											
Naphthalene	25	56000	190000	20											
Styrene	24	10000	10000	38000											
Tetrachloroethene	0.5	1500	3300	2.7	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0.01
Toluene	100	10000	10000	46000	0 U	0.64	0.01	0 U	0 U	0.03	4.6	0 U	20	0 U	0.06
trans-1,2-Dichloroethene	10	3700	4300	500	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0.275
trans-1,3-Dichloropropene	2.6	410	470	8.4											
Trichloroethene	0.5	970	1100	14	0 U	0 U	0.065	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Vinyl Acetate	120	10000	10000	4200											
Vinyl Chloride	0.2	53	220	1.7											
Xylenes (Total)	1000	10000	10000	2600											

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-9 4 - 4.5 4/26/1988	OWCA-CB-9 10 - 10.5 4/27/1988	OWCA-CB-10 4 - 4.5 4/26/1988	OWCA-CB-11 4 - 4.5 4/27/1988	OWCA-CB-11 4 - 4.5 4/26/1988	OWCA-CB-12 4 - 4.5 4/27/1988	OWCA-CB-12 9 - 9.5 4/27/1988	OWCA-CB-13 2 - 2.5 4/27/1988	OWCA-CB-13 8 - 8.5 4/27/1988	OWCA-CB-14 4 - 4.5 4/28/1988
Cyanide														
Cyanide, Free	200	56000	190000	20000	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Cyanide, Total	200	56000	190000	20000	0.14		0.02		0.184	0.08	0.292	0.05	0 U	0 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Arsenic	150	53	190000	1.6	16		15		22	5	10	11	27	14
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Cadmium	38	210	190000	800	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Chromium				1400	15		13		16	13	14	11	20	8.7
Copper	36000	100000	190000	41000	35		17		19	21	23	21	21	14
Hexavalent Chromium	190	420	190000	200										
Lead	450	1000	190000	800	11		7.3		6	7.3	13	6	10	3.7
Mercury	10	840	190000	24	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Nickel	650	56000	190000	20000	210		6.7		7.3	9.3	10.6	7	0.27	5.7
Selenium	26	14000	190000	5100	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Silver	84	14000	190000	5100	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Thallium	14	200	190000	66	0 U		0 U		0 U	0 U	0 U	0 U	0 U	0 U
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000	23		20		20	24	40	17	27	0.23
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21										
Arochlor-1221	2.5	160	10000	0.62										
Arochlor-1232	2	160	10000	0.62										
Arochlor-1242	62	160	10000	0.74										
Arochlor-1248	67	44	10000	0.74										
Arochlor-1254	280	44	10000	0.74										
Arochlor-1260	1900	130	190000	0.74										
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400										
1,2-Dichlorobenzene	60	10000	10000	10000										
1,3-Dichlorobenzene	61	10000	10000											
1,4-Dichlorobenzene	10	3300	190000	13										
2,4,5-Trichlorophenol	6100	190000	190000	62000										
2,4,6-Trichlorophenol	8.9	840	190000	160										
2,4-Dichlorophenol	2	8400	190000	1800										
2,4-Dimethylphenol	200	10000	10000	12000										
2,4-Dinitrophenol	4.1	5600	190000	1200										
2,4-Dinitrotoluene	0.84	260	190000	5.5										
2,6-Dinitrotoluene	10	2800	190000	620										
2-Chloronaphthalene	18000	190000	190000	82000										
2-Chlorophenol	4.4	920	1100	5100										
2-Methylnaphthalene	8000	10000	10000	4100										
2-Methylphenol	510	10000	10000	31000										
2-Nitroaniline	0.58	160	190000	1800										
2-Nitrophenol	82	22000	190000											

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-9 4 - 4.5 4/26/1988	OWCA-CB-9 10 - 10.5 4/27/1988	OWCA-CB-10 4 - 4.5 4/26/1988	OWCA-CB-11 4 - 4.5 4/27/1988	OWCA-CB-11 4 - 4.5 4/26/1988	OWCA-CB-12 4 - 4.5 4/27/1988	OWCA-CB-12 9 - 9.5 4/27/1988	OWCA-CB-13 2 - 2.5 4/27/1988	OWCA-CB-13 8 - 8.5 4/27/1988	OWCA-CB-14 4 - 4.5 4/28/1988
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														
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														
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8										

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-9 4 - 4.5 4/26/1988	OWCA-CB-9 10 - 10.5 4/27/1988	OWCA-CB-10 4 - 4.5 4/26/1988	OWCA-CB-11 4 - 4.5 4/27/1988	OWCA-CB-11 4 - 4.5 4/26/1988	OWCA-CB-12 4 - 4.5 4/27/1988	OWCA-CB-12 9 - 9.5 4/27/1988	OWCA-CB-13 2 - 2.5 4/27/1988	OWCA-CB-13 8 - 8.5 4/27/1988	OWCA-CB-14 4 - 4.5 4/28/1988
1,1,1-Trichloroethane	20	10000	10000	39000		0 U		0.015		0 U	0 U	0 U		0.01
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9										
1,1,2-Trichloroethane	0.5	100	120	5.5										
1,1-Dichloroethane	11	1000	1200	17										
1,1-Dichloroethene	0.7	33	38	1100		0 U		0.01		0 U	0 U			
1,2-Dibromoethane	0.005	0.93	8.6	0.17										
1,2-Dichloroethane	0.5	63	73	2.2										
1,2-Dichloropropane	0.5	160	180	4.7										
1,4-Dioxane	2.4	210	240	160										
2-Butanone	580	10000	10000	190000										
2-Chloroethyl Vinyl Ether														
2-Hexanone														
4-Methyl-2-Pentanone	41	4300	4900	52000										
Acetone	1000	10000	10000	610000										
Acrylonitrile	0.27	24	28	1.2										
Benzene	0.5	210	240	5.6										
Bromochloromethane	9	10000	10000											
Bromodichloromethane	10	45	51	1.4										
Bromoform	10	1500	1700	220										
Bromomethane	1	270	300	35										
Carbon Disulfide	410	10000	10000	3000										
Carbon Tetrachloride	0.5	110	120	1.3										
Chlorobenzene	10	10000	10000	1500										
Chlorodibromomethane	10	61	70	3.4										
Chloroethane	90	10000	10000	62000										
Chloroform	10	17	19	1.5										
Chloromethane	0.3	920	1000	510										
cis-1,2-Dichloroethene	7	1900	2100	10000										
cis-1,3-Dichloropropene	2.6	410	470	8.4										
Ethylbenzene	70	10000	10000	29		0 U		0 U		0 U	0 U	0 U		0 U
Methyl tert-butyl ether	2	3200	3700	190										
Methylene chloride	0.5	3500	4000	54										
Naphthalene	25	56000	190000	20										
Styrene	24	10000	10000	38000										
Tetrachloroethene	0.5	1500	3300	2.7		0 U		0 U		0 U	0 U	0 U		0.04
Toluene	100	10000	10000	46000		0 U		0 U		0 U	0 U	0 U		0 U
trans-1,2-Dichloroethene	10	3700	4300	500		0 U		0 U		0 U	0 U	0 U		0.005
trans-1,3-Dichloropropene	2.6	410	470	8.4										
Trichloroethene	0.5	970	1100	14		0 U		0 U		0 U	0 U	0 U		0.13
Vinyl Acetate	120	10000	10000	4200										
Vinyl Chloride	0.2	53	220	1.7										
Xylenes (Total)	1000	10000	10000	2600										

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-14 9 - 9.5 4/28/1988	OWCA-CB-15 6 - 6.5 4/28/1988	OWCA-CB-16 4 - 4.5 4/28/1988	OWCA-CB-16 10 - 10.5 4/28/1988	OWCA-CB-17 4 - 4.5 4/28/1988	OWCA-CB-17 12 - 12.5 4/28/1988	OWCA-CB-18 10 - 10.5 4/28/1988	OWCA-CB-19 4 - 4.5 4/28/1988	OWCA-SB-001 3 - 5 5/1/2007	OWCA-SB-001 6 - 8 5/1/2007
Cyanide														
Cyanide, Free	200	56000	190000	20000		0.53	0.5	0.4	0 U					
Cyanide, Total	200	56000	190000	20000		3.8	6.4	4	0.08					
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200										
Mercury														
Mercury	10	840	190000	24										
Metal														
Antimony	27	1100	190000	410		0 U	0 U	0 U	0 U					
Arsenic	150	53	190000	1.6		15	11	6.5	0 U					
Barium	8200	190000	190000	190000										
Beryllium	320	5600	190000	2000		0 U	0 U	0 U	0 U					
Cadmium	38	210	190000	800		0 U	2.7	1.3	0 U					
Chromium				1400		8	23	21	10					
Copper	36000	100000	190000	41000		21	31	33	11					
Hexavalent Chromium	190	420	190000	200										
Lead	450	1000	190000	800		4.7	6	6	10					
Mercury	10	840	190000	24		0 U	0 U	0 U	0 U					
Nickel	650	56000	190000	20000		190	73	80	4.7					
Selenium	26	14000	190000	5100		0 U	0 U	0 U	0 U					
Silver	84	14000	190000	5100		0 U	0 U	0 U	19					
Thallium	14	200	190000	66		0 U	0 U	0 U	0 U					
Vanadium	72000	20000	190000	7200										
Zinc	12000	190000	190000	310000		0.15	0.24	0.47	0.19					
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21										
Arochlor-1221	2.5	160	10000	0.62										
Arochlor-1232	2	160	10000	0.62										
Arochlor-1242	62	160	10000	0.74										
Arochlor-1248	67	44	10000	0.74										
Arochlor-1254	280	44	10000	0.74										
Arochlor-1260	1900	130	190000	0.74										
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400										
1,2-Dichlorobenzene	60	10000	10000	10000										
1,3-Dichlorobenzene	61	10000	10000											
1,4-Dichlorobenzene	10	3300	190000	13										
2,4,5-Trichlorophenol	6100	190000	190000	62000										
2,4,6-Trichlorophenol	8.9	840	190000	160										
2,4-Dichlorophenol	2	8400	190000	1800										
2,4-Dimethylphenol	200	10000	10000	12000										
2,4-Dinitrophenol	4.1	5600	190000	1200										
2,4-Dinitrotoluene	0.84	260	190000	5.5										
2,6-Dinitrotoluene	10	2800	190000	620										
2-Chloronaphthalene	18000	190000	190000	82000										
2-Chlorophenol	4.4	920	1100	5100										
2-Methylnaphthalene	8000	10000	10000	4100										
2-Methylphenol	510	10000	10000	31000										
2-Nitroaniline	0.58	160	190000	1800										
2-Nitrophenol	82	22000	190000											

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-14 9 - 9.5 4/28/1988	OWCA-CB-15 6 - 6.5 4/28/1988	OWCA-CB-16 4 - 4.5 4/28/1988	OWCA-CB-16 10 - 10.5 4/28/1988	OWCA-CB-17 4 - 4.5 4/28/1988	OWCA-CB-17 12 - 12.5 4/28/1988	OWCA-CB-18 10 - 10.5 4/28/1988	OWCA-CB-19 4 - 4.5 4/28/1988	OWCA-SB-001 3 - 5 5/1/2007	OWCA-SB-001 6 - 8 5/1/2007
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														
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													83.20%	85.90%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8									0.0052 U	0.0048 U

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-CB-14 9 - 9.5 4/28/1988	OWCA-CB-15 6 - 6.5 4/28/1988	OWCA-CB-16 4 - 4.5 4/28/1988	OWCA-CB-16 10 - 10.5 4/28/1988	OWCA-CB-17 4 - 4.5 4/28/1988	OWCA-CB-17 12 - 12.5 4/28/1988	OWCA-CB-18 10 - 10.5 4/28/1988	OWCA-CB-19 4 - 4.5 4/28/1988	OWCA-SB-001 3 - 5 5/1/2007	OWCA-SB-001 6 - 8 5/1/2007
1,1,1-Trichloroethane	20	10000	10000	39000	0.015	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0.0052 U	0.0048 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9									0.0052 U	0.0048 U
1,1,2-Trichloroethane	0.5	100	120	5.5									0.0052 U	0.0048 U
1,1-Dichloroethane	11	1000	1200	17									0.0052 U	0.0048 U
1,1-Dichloroethene	0.7	33	38	1100							0 U	0 U	0.0052 U	0.0048 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17									0.0052 U	0.0048 U
1,2-Dichloroethane	0.5	63	73	2.2									0.0052 U	0.0048 U
1,2-Dichloropropane	0.5	160	180	4.7									0.0052 U	0.0048 U
1,4-Dioxane	2.4	210	240	160									1 U	0.95 U
2-Butanone	580	10000	10000	190000									0.021 U	0.019 U
2-Chloroethyl Vinyl Ether														
2-Hexanone													0.021 U	0.019 U
4-Methyl-2-Pentanone	41	4300	4900	52000									0.021 U	0.019 U
Acetone	1000	10000	10000	610000									0.021 U	0.019 U
Acrylonitrile	0.27	24	28	1.2									0.1 U	0.095 U
Benzene	0.5	210	240	5.6									0.0052 U	0.0048 U
Bromochloromethane	9	10000	10000										0.0052 U	0.0048 U
Bromodichloromethane	10	45	51	1.4									0.0052 U	0.0048 U
Bromoform	10	1500	1700	220									0.0052 U	0.0048 U
Bromomethane	1	270	300	35									0.0052 U	0.0048 U
Carbon Disulfide	410	10000	10000	3000									0.0052 U	0.0048 U
Carbon Tetrachloride	0.5	110	120	1.3									0.0052 U	0.0048 U
Chlorobenzene	10	10000	10000	1500									0.0052 U	0.0048 U
Chlorodibromomethane	10	61	70	3.4									0.0052 U	0.0048 U
Chloroethane	90	10000	10000	62000									0.0052 U	0.0048 U
Chloroform	10	17	19	1.5									0.0052 U	0.0048 U
Chloromethane	0.3	920	1000	510									0.0052 U	0.0048 U
cis-1,2-Dichloroethene	7	1900	2100	10000									0.0052 U	0.0048 U
cis-1,3-Dichloropropene	2.6	410	470	8.4									0.0052 U	0.0048 U
Ethylbenzene	70	10000	10000	29	0 U	0 U	0.35	0.04	0 U	0 U	0 U	0 U	0.0052 U	0.0048 U
Methyl tert-butyl ether	2	3200	3700	190									0.0052 U	0.0048 U
Methylene chloride	0.5	3500	4000	54									0.0052 U	0.0048 U
Naphthalene	25	56000	190000	20										
Styrene	24	10000	10000	38000									0.0052 U	0.0048 U
Tetrachloroethene	0.5	1500	3300	2.7	0.205	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0.0052 U	0.0048 U
Toluene	100	10000	10000	46000	0 U	0.79	125.7	1.015	0 U	0 U			0.0052 U	0.0048 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.045	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0.0052 U	0.0048 U
trans-1,3-Dichloropropene	2.6	410	470	8.4									0.0052 U	0.0048 U
Trichloroethene	0.5	970	1100	14	0.31	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0.0052 U	0.0048 U
Vinyl Acetate	120	10000	10000	4200										
Vinyl Chloride	0.2	53	220	1.7									0.0052 U	0.0048 U
Xylenes (Total)	1000	10000	10000	2600									0.015 U	0.014 U

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-001 8 - 10 5/1/2007	OWCA-SB-002 4 - 6 5/9/2007	OWCA-SB-002 6 - 8 5/9/2007	OWCA-SB-002 8 - 10 5/9/2007	OWCA-SB-003 3 - 5 5/9/2007	OWCA-SB-003 6 - 8 5/9/2007	OWCA-SB-003 8 - 10 5/9/2007	OWCA-SB-004 3 - 5 5/9/2007	OWCA-SB-004 6 - 8 5/9/2007
Cyanide													
Cyanide, Free	200	56000	190000	20000									
Cyanide, Total	200	56000	190000	20000									
Hexavalent Chromium													
Hexavalent Chromium	190	420	190000	200									
Mercury													
Mercury	10	840	190000	24									
Metal													
Antimony	27	1100	190000	410									
Arsenic	150	53	190000	1.6									
Barium	8200	190000	190000	190000									
Beryllium	320	5600	190000	2000									
Cadmium	38	210	190000	800									
Chromium				1400									
Copper	36000	100000	190000	41000									
Hexavalent Chromium	190	420	190000	200									
Lead	450	1000	190000	800									
Mercury	10	840	190000	24									
Nickel	650	56000	190000	20000									
Selenium	26	14000	190000	5100									
Silver	84	14000	190000	5100									
Thallium	14	200	190000	66									
Vanadium	72000	20000	190000	7200									
Zinc	12000	190000	190000	310000									
Polychlorinated Biphenols													
Arochlor-1016	200	200	10000	21									
Arochlor-1221	2.5	160	10000	0.62									
Arochlor-1232	2	160	10000	0.62									
Arochlor-1242	62	160	10000	0.74									
Arochlor-1248	67	44	10000	0.74									
Arochlor-1254	280	44	10000	0.74									
Arochlor-1260	1900	130	190000	0.74									
PCBs (Total)				0.74									
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400									
1,2-Dichlorobenzene	60	10000	10000	10000									
1,3-Dichlorobenzene	61	10000	10000										
1,4-Dichlorobenzene	10	3300	190000	13									
2,4,5-Trichlorophenol	6100	190000	190000	62000									
2,4,6-Trichlorophenol	8.9	840	190000	160									
2,4-Dichlorophenol	2	8400	190000	1800									
2,4-Dimethylphenol	200	10000	10000	12000									
2,4-Dinitrophenol	4.1	5600	190000	1200									
2,4-Dinitrotoluene	0.84	260	190000	5.5									
2,6-Dinitrotoluene	10	2800	190000	620									
2-Chloronaphthalene	18000	190000	190000	82000									
2-Chlorophenol	4.4	920	1100	5100									
2-Methylnaphthalene	8000	10000	10000	4100									
2-Methylphenol	510	10000	10000	31000									
2-Nitroaniline	0.58	160	190000	1800									
2-Nitrophenol	82	22000	190000										

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-001 8 - 10 5/1/2007	OWCA-SB-002 4 - 6 5/9/2007	OWCA-SB-002 6 - 8 5/9/2007	OWCA-SB-002 8 - 10 5/9/2007	OWCA-SB-003 3 - 5 5/9/2007	OWCA-SB-003 6 - 8 5/9/2007	OWCA-SB-003 8 - 10 5/9/2007	OWCA-SB-004 3 - 5 5/9/2007	OWCA-SB-004 6 - 8 5/9/2007
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													
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					81.30%	78.20%	83.80%	87.10%	85.90%	85%	83.70%	84.60%	87.90%
Volatile Organic Compound													
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-001 8 - 10 5/1/2007	OWCA-SB-002 4 - 6 5/9/2007	OWCA-SB-002 6 - 8 5/9/2007	OWCA-SB-002 8 - 10 5/9/2007	OWCA-SB-003 3 - 5 5/9/2007	OWCA-SB-003 6 - 8 5/9/2007	OWCA-SB-003 8 - 10 5/9/2007	OWCA-SB-004 3 - 5 5/9/2007	OWCA-SB-004 6 - 8 5/9/2007
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
1,4-Dioxane	2.4	210	240	160	1 U	1.1 U	0.99 U	0.95 U	0.99 U	0.95 U	0.98 U	1 U	0.99 U
2-Butanone	580	10000	10000	190000	0.02 U	0.021 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U
2-Chloroethyl Vinyl Ether													
2-Hexanone					0.02 U	0.021 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U	0.021 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U
Acetone	1000	10000	10000	610000	0.02 U	0.021 U	0.013 J	0.019 U	0.02 U	0.18	0.02 U	0.02 U	0.14
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.11 U	0.099 U	0.095 U	0.099 U	0.095 U	0.098 U	0.1 U	0.099 U
Benzene	0.5	210	240	5.6	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Bromochloromethane	9	10000	10000		0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Bromoform	10	1500	1700	220	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Bromomethane	1	270	300	35	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Chloroform	10	17	19	1.5	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Ethylbenzene	70	10000	10000	29	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0089	0.0049 U	0.005 U	0.0015 J
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Methylene chloride	0.5	3500	4000	54	0.0027 J	0.0022 J	0.002 J	0.0013 J	0.0016 J	0.0012 J	0.0019 J	0.0025 J	0.0017 J
Naphthalene	25	56000	190000	20									
Styrene	24	10000	10000	38000	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Toluene	100	10000	10000	46000	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Trichloroethene	0.5	970	1100	14	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0056	0.0049 U	0.005 U	0.0048 J
Vinyl Acetate	120	10000	10000	4200									
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.0054 U	0.005 U	0.0048 U	0.0049 U	0.0048 U	0.0049 U	0.005 U	0.005 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.048	0.015 U	0.015 U	0.0075 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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-004 8 - 10 5/9/2007	OWCA-SB-006 3 - 5 5/9/2007	OWCA-SB-006 6 - 8 5/9/2007	OWCA-SB-006 Dup 6 - 8 5/9/2007	OWCA-SB-006 8 - 10 5/9/2007	OWCA-SB-007 8 - 10 5/3/2007	OWCA-SB-007 21 - 23 5/3/2007	OWCA-SB-008 8 - 10 5/3/2007	OWCA-SB-008 14 - 16 5/3/2007
Cyanide													
Cyanide, Free	200	56000	190000	20000									
Cyanide, Total	200	56000	190000	20000									
Hexavalent Chromium													
Hexavalent Chromium	190	420	190000	200									
Mercury													
Mercury	10	840	190000	24									
Metal													
Antimony	27	1100	190000	410									
Arsenic	150	53	190000	1.6									
Barium	8200	190000	190000	190000									
Beryllium	320	5600	190000	2000									
Cadmium	38	210	190000	800									
Chromium				1400									
Copper	36000	100000	190000	41000									
Hexavalent Chromium	190	420	190000	200									
Lead	450	1000	190000	800									
Mercury	10	840	190000	24									
Nickel	650	56000	190000	20000									
Selenium	26	14000	190000	5100									
Silver	84	14000	190000	5100									
Thallium	14	200	190000	66									
Vanadium	72000	20000	190000	7200									
Zinc	12000	190000	190000	310000									
Polychlorinated Biphenols													
Arochlor-1016	200	200	10000	21									
Arochlor-1221	2.5	160	10000	0.62									
Arochlor-1232	2	160	10000	0.62									
Arochlor-1242	62	160	10000	0.74									
Arochlor-1248	67	44	10000	0.74									
Arochlor-1254	280	44	10000	0.74									
Arochlor-1260	1900	130	190000	0.74									
PCBs (Total)				0.74									
Semi Volatile Organic Compound													
1,2,4-Trichlorobenzene	27	10000	10000	400									
1,2-Dichlorobenzene	60	10000	10000	10000									
1,3-Dichlorobenzene	61	10000	10000										
1,4-Dichlorobenzene	10	3300	190000	13									
2,4,5-Trichlorophenol	6100	190000	190000	62000									
2,4,6-Trichlorophenol	8.9	840	190000	160									
2,4-Dichlorophenol	2	8400	190000	1800									
2,4-Dimethylphenol	200	10000	10000	12000									
2,4-Dinitrophenol	4.1	5600	190000	1200									
2,4-Dinitrotoluene	0.84	260	190000	5.5									
2,6-Dinitrotoluene	10	2800	190000	620									
2-Chloronaphthalene	18000	190000	190000	82000									
2-Chlorophenol	4.4	920	1100	5100									
2-Methylnaphthalene	8000	10000	10000	4100									
2-Methylphenol	510	10000	10000	31000									
2-Nitroaniline	0.58	160	190000	1800									
2-Nitrophenol	82	22000	190000										

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

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Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-004 8 - 10 5/9/2007	OWCA-SB-006 3 - 5 5/9/2007	OWCA-SB-006 6 - 8 5/9/2007	OWCA-SB-006 Dup 6 - 8 5/9/2007	OWCA-SB-006 8 - 10 5/9/2007	OWCA-SB-007 8 - 10 5/3/2007	OWCA-SB-007 21 - 23 5/3/2007	OWCA-SB-008 8 - 10 5/3/2007	OWCA-SB-008 14 - 16 5/3/2007
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													
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					83.30%	92.90%	80.90%	80.80%	81.30%	83.80%	84.60%	82.90%	79.90%
Volatile Organic Compound													
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-004 8 - 10 5/9/2007	OWCA-SB-006 3 - 5 5/9/2007	OWCA-SB-006 6 - 8 5/9/2007	OWCA-SB-006 Dup 6 - 8 5/9/2007	OWCA-SB-006 8 - 10 5/9/2007	OWCA-SB-007 8 - 10 5/3/2007	OWCA-SB-007 21 - 23 5/3/2007	OWCA-SB-008 8 - 10 5/3/2007	OWCA-SB-008 14 - 16 5/3/2007
1,1,1-Trichloroethane	20	10000	10000	39000	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,1-Dichloroethane	11	1000	1200	17	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.0041 J	0.0047 U	0.0012 J	0.0058 U
1,1-Dichloroethene	0.7	33	38	1100	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
1,4-Dioxane	2.4	210	240	160	1 U	0.89 U	1.1 U	1 U	0.98 U	1 U	0.95 U	0.98 U	1.2 U
2-Butanone	580	10000	10000	190000	0.02 U	0.018 U	0.022 U	0.021 U	0.02 U	0.02 U	0.0056 J	0.02 U	0.023 U
2-Chloroethyl Vinyl Ether													
2-Hexanone					0.02 U	0.018 U	0.022 U	0.021 U	0.02 U	0.02 U	0.019 U	0.02 U	0.023 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.02 U	0.018 U	0.022 U	0.021 U	0.02 U	0.02 U	0.0027 J	0.02 U	0.023 U
Acetone	1000	10000	10000	610000	0.02 U	0.0059 J	0.022 U	0.017 J	0.02 U	0.011 J	0.018 J	0.02 U	0.022 J
Acrylonitrile	0.27	24	28	1.2	0.1 U	0.089 U	0.11 U	0.1 U	0.098 U	0.1 U	0.095 U	0.098 U	0.12 U
Benzene	0.5	210	240	5.6	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Bromochloromethane	9	10000	10000		0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Bromodichloromethane	10	45	51	1.4	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Bromoform	10	1500	1700	220	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Bromomethane	1	270	300	35	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Carbon Disulfide	410	10000	10000	3000	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Chlorobenzene	10	10000	10000	1500	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Chlorodibromomethane	10	61	70	3.4	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Chloroethane	90	10000	10000	62000	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Chloroform	10	17	19	1.5	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Chloromethane	0.3	920	1000	510	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.004 J	0.0047 U	0.0049 U	0.0058 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Ethylbenzene	70	10000	10000	29	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.016	0.0012 J	0.016	0.0023 J
Methyl tert-butyl ether	2	3200	3700	190	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Methylene chloride	0.5	3500	4000	54	0.002 J	0.0024 J	0.0023 J	0.0014 J	0.0018 J	0.0015 J	0.0041 J	0.0013 J	0.0039 J
Naphthalene	25	56000	190000	20									
Styrene	24	10000	10000	38000	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Toluene	100	10000	10000	46000	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.00089 J	0.0047 U	0.0049 U	0.0058 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Trichloroethene	0.5	970	1100	14	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Vinyl Acetate	120	10000	10000	4200									
Vinyl Chloride	0.2	53	220	1.7	0.0051 U	0.0045 U	0.0054 U	0.0051 U	0.0049 U	0.005 U	0.0047 U	0.0049 U	0.0058 U
Xylenes (Total)	1000	10000	10000	2600	0.015 U	0.013 U	0.016 U	0.015 U	0.015 U	0.015 U	0.014 U	0.0061 J	0.017 U

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-009 1 - 3 4/27/2007	OWCA-SB-009 5 - 7 4/27/2007	OWCA-SB-010 1 - 3 4/26/2007	OWCA-SB-010 4 - 6 4/26/2007	OWCA-SP-1 0 - 0.5 4/27/1995	OWCA-SP-1 17 - 17.5 4/27/1995	OWCA-SP-1 23 - 23.5 4/27/1995	OWCA-SP-2 0 - 0.5 4/28/1995	OWCA-SP-2 5 - 5.5 4/28/1995	OWCA-SP-2 23 - 23.5 4/28/1995
Cyanide														
Cyanide, Free	200	56000	190000	20000										
Cyanide, Total	200	56000	190000	20000					0 U	0 U	0 U	0 U	0 U	0 U
Hexavalent Chromium														
Hexavalent Chromium	190	420	190000	200	0.48 U	0.44 U	0.24 B	0.45 U						
Mercury														
Mercury	10	840	190000	24	0.047	0.026 B	0.018 B	0.044						
Metal														
Antimony	27	1100	190000	410	0.19 B J	0.47 B J	1.2 U	1.2 U						
Arsenic	150	53	190000	1.6	3.5	6.4	5	7	5.1	8.7	8.3	4.3	4.3	32
Barium	8200	190000	190000	190000	81.4	53.2	65.7	47.9						
Beryllium	320	5600	190000	2000	0.83 J	0.72 J	0.96 J	0.72 J	0.71	2.3	1.3	0.55	0.71	1.7
Cadmium	38	210	190000	800	0.085 B	0.56 U	0.6 U	0.36 B	0.12	0.76	1.1	0.33	0 U	0 U
Chromium				1400	7.7	8.5	17.4	19.6	18	18	8.2	18	18	21
Copper	36000	100000	190000	41000	3.4	6.2	12.9	7.9	7.1	25	33	12	9.5	19
Hexavalent Chromium	190	420	190000	200					0 U	0 U	0 U	0 U	0 U	0 U
Lead	450	1000	190000	800	11.1	6.5	8.6 J	13.9 J	7.9	16	19	11	8.5	26
Mercury	10	840	190000	24					1.7	0 U	0 U	0 U	0 U	0 U
Nickel	650	56000	190000	20000	3.3 B	4.2 B	5.4	8.9	7.1	43	45	21	7.1	100
Selenium	26	14000	190000	5100	0.61 U	0.56 U	0.51 B	0.58 U						
Silver	84	14000	190000	5100	0.61 U	0.56 U	0.6 U	0.58 U						
Thallium	14	200	190000	66	1.2 U	1.1 U	1.2 U	1.2 U						
Vanadium	72000	20000	190000	7200	12.2	12.4	24.8	25.2						
Zinc	12000	190000	190000	310000	22.8 J	8.9 J	20.1	25.5	35	150	130	54	31	44
Polychlorinated Biphenols														
Arochlor-1016	200	200	10000	21	0.02 U	0.019 U	0.02 U	0.019 U						
Arochlor-1221	2.5	160	10000	0.62	0.02 U	0.019 U	0.02 U	0.019 U						
Arochlor-1232	2	160	10000	0.62	0.02 U	0.019 U	0.02 U	0.019 U						
Arochlor-1242	62	160	10000	0.74	0.02 U	0.019 U	0.02 U	0.019 U						
Arochlor-1248	67	44	10000	0.74	0.02 U	0.019 U	0.02 U	0.019 U						
Arochlor-1254	280	44	10000	0.74	0.02 U	0.019 U	0.02 U	0.019 U						
Arochlor-1260	1900	130	190000	0.74	0.02 U	0.019 U	0.02 U	0.019 U						
PCBs (Total)				0.74										
Semi Volatile Organic Compound														
1,2,4-Trichlorobenzene	27	10000	10000	400	0.4 U	0.37 U	0.39 U	0.38 U						
1,2-Dichlorobenzene	60	10000	10000	10000	0.4 U	0.37 U	0.39 U	0.38 U						
1,3-Dichlorobenzene	61	10000	10000		0.4 U	0.37 U	0.39 U	0.38 U						
1,4-Dichlorobenzene	10	3300	190000	13	0.4 U	0.37 U	0.39 U	0.38 U						
2,4,5-Trichlorophenol	6100	190000	190000	62000	0.4 U	0.37 U	0.39 U	0.38 U						
2,4,6-Trichlorophenol	8.9	840	190000	160	0.4 U	0.37 U	0.39 U	0.38 U						
2,4-Dichlorophenol	2	8400	190000	1800	0.4 U	0.37 U	0.39 U	0.38 U						
2,4-Dimethylphenol	200	10000	10000	12000	0.4 U	0.37 U	0.39 U	0.38 U						
2,4-Dinitrophenol	4.1	5600	190000	1200	1.9 U	1.8 U	1.9 U	1.9 U						
2,4-Dinitrotoluene	0.84	260	190000	5.5	0.4 U	0.37 U	0.39 U	0.38 U						
2,6-Dinitrotoluene	10	2800	190000	620	0.4 U	0.37 U	0.39 U	0.38 U						
2-Chloronaphthalene	18000	190000	190000	82000	0.4 U	0.37 U	0.39 U	0.38 U						
2-Chlorophenol	4.4	920	1100	5100	0.4 U	0.37 U	0.39 U	0.38 U						
2-Methylnaphthalene	8000	10000	10000	4100	0.4 U	0.37 U	0.39 U	0.38 U						
2-Methylphenol	510	10000	10000	31000	0.4 U	0.37 U	0.39 U	0.38 U						
2-Nitroaniline	0.58	160	190000	1800	1.9 U	1.8 U	1.9 U	1.9 U						
2-Nitrophenol	82	22000	190000		0.4 U	0.37 U	0.39 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 3.2-1
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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)	OWCA-SB-009 1 - 3 4/27/2007	OWCA-SB-009 5 - 7 4/27/2007	OWCA-SB-010 1 - 3 4/26/2007	OWCA-SB-010 4 - 6 4/26/2007	OWCA-SP-1 0 - 0.5 4/27/1995	OWCA-SP-1 17 - 17.5 4/27/1995	OWCA-SP-1 23 - 23.5 4/27/1995	OWCA-SP-2 0 - 0.5 4/28/1995	OWCA-SP-2 5 - 5.5 4/28/1995	OWCA-SP-2 23 - 23.5 4/28/1995
3,3'-Dichlorobenzidine	32	180	190000	3.8	1.9 U	1.8 U	1.9 U	1.9 U						
3/4-Methylphenol				5100	0.4 U	0.37 U	0.39 U	0.38 U						
3-Nitroaniline	0.58	160	190000		1.9 U	1.8 U	1.9 U	1.9 U						
4,6-Dinitro-2-Methylphenol				62	1.9 U	1.8 U	1.9 U	1.9 U						
4-Bromophenyl phenyl ether					0.4 U	0.37 U	0.39 U	0.38 U						
4-Chloro-3-Methyl-Phenol	110	14000	190000		0.4 U	0.37 U	0.39 U	0.38 U						
4-Chloroaniline	52	11000	190000	8.6	0.4 U	0.37 U	0.39 U	0.38 U						
4-Chlorodiphenyl Ether					0.4 U	0.37 U	0.39 U	0.38 U						
4-Nitroaniline	0.58	160	190000	86	1.9 U	1.8 U	1.9 U	1.9 U						
4-Nitrophenol	6	22000	190000		1.9 U	1.8 U	1.9 U	1.9 U						
Acenaphthene	4700	170000	190000	33000	0.4 U	0.37 U	0.39 U	0.38 U						
Acenaphthylene	6900	170000	190000	33000	0.4 U	0.37 U	0.39 U	0.38 U						
Anthracene	350	190000	190000	170000	0.4 U	0.37 U	0.39 U	0.38 U						
Benzo (A) Anthracene	320	110	190000	2.1	0.037 J	0.37 U	0.39 U	0.38 U						
Benzo (a) Pyrene	46	11	190000	0.21	0.4 U	0.37 U	0.39 U	0.38 U						
Benzo (b) Fluoranthene	170	110	190000	2.1	0.4 U	0.37 U	0.39 U	0.38 U						
Benzo (g,h,i) Perylene	180	170000	190000		0.039 J	0.37 U	0.39 U	0.38 U						
Benzo (k) Fluoranthene	610	1100	190000	21	0.4 U	0.37 U	0.39 U	0.38 U						
Bis(2-Chloroethoxy) Methane				1800	0.4 U	0.37 U	0.39 U	0.38 U						
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.4 U	0.37 U	0.39 U	0.38 U						
Bis(2-Chloroisopropyl) Ether	30	160	190	17	0.4 U	0.37 U	0.39 U	0.38 U						
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.4 U	0.37 U	0.39 U	0.38 U						
Butylbenzylphthalate	10000	10000	10000	910	0.025 J	0.37 U	0.39 U	0.38 U						
Carbazole	83	4000	190000		0.4 U	0.37 U	0.39 U	0.38 U						
Chrysene	230	11000	190000	210	0.063 J	0.37 U	0.39 U	0.38 U						
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.4 U	0.37 U	0.39 U	0.38 U						
Dibenzofuran					0.4 U	0.37 U	0.39 U	0.38 U						
Diethylphthalate	500	10000	10000	490000	0.4 U	0.37 U	0.39 U	0.38 U						
Dimethylphthalate					0.4 U	0.37 U	0.39 U	0.38 U						
Di-n-Butylphthalate	4100	10000	10000	62000	0.4 U	0.37 U	0.39 U	0.38 U						
Di-n-octylphthalate	10000	10000	10000		0.4 U	0.37 U	0.39 U	0.38 U						
Fluoranthene	3200	110000	190000	22000	0.042 J	0.37 U	0.39 U	0.38 U						
Fluorene	3800	110000	190000	22000	0.4 U	0.37 U	0.39 U	0.38 U						
Hexachlorobenzene	0.96	50	190000	1.1	0.4 U	0.37 U	0.39 U	0.38 U						
Hexachlorobutadiene	1.2	560	10000	22	0.4 U	0.37 U	0.39 U	0.38 U						
Hexachlorocyclopentadiene	91	10000	10000	3700	1.9 U	1.8 U	1.9 U	1.9 U						
Hexachloroethane	0.56	2800	190000	120	0.4 U	0.37 U	0.39 U	0.38 U						
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.026 J	0.37 U	0.39 U	0.38 U						
Isophorone	10	10000	10000	1800	0.4 U	0.37 U	0.39 U	0.38 U						
Naphthalene	25	56000	190000	20	0.4 U	0.37 U	0.39 U	0.38 U						
Nitrobenzene	5.1	1400	10000	22	0.4 U	0.37 U	0.39 U	0.38 U						
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.4 U	0.37 U	0.39 U	0.38 U						
N-Nitrosodiphenylamine	83	16000	190000	350	0.4 U	0.37 U	0.39 U	0.38 U						
Pentachlorophenol	5	660	190000	9	1.9 U	1.8 U	1.9 U	1.9 U						
Phenanthrene	10000	190000	190000		0.028 J	0.37 U	0.39 U	0.38 U						
Phenol	400	190000	190000	180000	0.4 U	0.37 U	0.39 U	0.38 U						
Pyrene	2200	84000	190000	17000	0.11 J	0.37 U	0.39 U	0.38 U						
Total Solids														
Percent Solids					82.10%	89.70%	83.70%	86.10%						
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0048 U	0.0045 U	0.0045 U	0.0045 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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SB-009 1 - 3 4/27/2007	OWCA-SB-009 5 - 7 4/27/2007	OWCA-SB-010 1 - 3 4/26/2007	OWCA-SB-010 4 - 6 4/26/2007	OWCA-SP-1 0 - 0.5 4/27/1995	OWCA-SP-1 17 - 17.5 4/27/1995	OWCA-SP-1 23 - 23.5 4/27/1995	OWCA-SP-2 0 - 0.5 4/28/1995	OWCA-SP-2 5 - 5.5 4/28/1995	OWCA-SP-2 23 - 23.5 4/28/1995
1,1,1-Trichloroethane	20	10000	10000	39000	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U			0 U		
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
1,1-Dichloroethane	11	1000	1200	17	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U			0 U		
1,1-Dichloroethene	0.7	33	38	1100	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
1,2-Dichloroethane	0.5	63	73	2.2	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
1,2-Dichloropropane	0.5	160	180	4.7	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
1,4-Dioxane	2.4	210	240	160	0.96 U	0.9 U	0.91 U	0.89 U						
2-Butanone	580	10000	10000	190000	0.019 U	0.018 U	0.018 U	0.018 U	0 U	0 U	0 U	0 U	0 U	0 U
2-Chloroethyl Vinyl Ether														
2-Hexanone					0.019 U	0.018 U	0.018 U	0.018 U						
4-Methyl-2-Pentanone	41	4300	4900	52000	0.019 U	0.018 U	0.018 U	0.018 U						
Acetone	1000	10000	10000	610000	0.019 U	0.018 U	0.0068 J	0.0016 J	0 U	0 U	0 U	0 U	0 U	0 U
Acrylonitrile	0.27	24	28	1.2	0.096 U	0.09 U	0.091 U	0.089 U						
Benzene	0.5	210	240	5.6	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U			0 U		
Bromochloromethane	9	10000	10000		0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Bromodichloromethane	10	45	51	1.4	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Bromoform	10	1500	1700	220	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Bromomethane	1	270	300	35	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Carbon Disulfide	410	10000	10000	3000	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Carbon Tetrachloride	0.5	110	120	1.3	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Chlorobenzene	10	10000	10000	1500	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Chlorodibromomethane	10	61	70	3.4	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Chloroethane	90	10000	10000	62000	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Chloroform	10	17	19	1.5	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Chloromethane	0.3	920	1000	510	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Ethylbenzene	70	10000	10000	29	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U	0 U	0 U	0 U	0 U	0 U
Methyl tert-butyl ether	2	3200	3700	190	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Methylene chloride	0.5	3500	4000	54	0.0019 J B	0.0037 J B	0.0025 J	0.001 J						
Naphthalene	25	56000	190000	20										
Styrene	24	10000	10000	38000	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U			0 U	0 U	
Tetrachloroethene	0.5	1500	3300	2.7	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U			0 U		
Toluene	100	10000	10000	46000	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U	0 U	0 U	0 U	0 U	0 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Trichloroethene	0.5	970	1100	14	0.0048 U	0.0045 U	0.0045 U	0.0045 U	0 U			0 U	0.0083	
Vinyl Acetate	120	10000	10000	4200										
Vinyl Chloride	0.2	53	220	1.7	0.0048 U	0.0045 U	0.0045 U	0.0045 U						
Xylenes (Total)	1000	10000	10000	2600	0.014 U	0.014 U	0.014 U	0.013 U	0 U	0 U	0 U	0 U	0 U	0 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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SP-3 0 - 0.5 4/28/1995	OWCA-SP-3 2 - 2.5 4/28/1995	OWCA-SP-3 10 - 10.5 4/28/1995	OWCA-SP-3 18 - 18.5 4/28/1995	OWCA-SP-4 0 - 0.5 4/27/1995	OWCA-SP-4 6 - 6.5 4/27/1995	OWCA-SP-4 23 - 23.5 4/27/1995	*OWCA-SP-5 0 - 2 4/28/1995	OWCA-SP-5 8 - 8.5 4/28/1995	OWCA-SP-5 13 - 13.5 4/27/1995	OWCA-SP-6 0 - 0.5 4/27/1995
Cyanide															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total	200	56000	190000	20000	0 U	0 U	5.4	0.38	0.071	0.44	0 U	4.2	0 U	0 U	1.1
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200											
Mercury															
Mercury	10	840	190000	24											
Metal															
Antimony	27	1100	190000	410											
Arsenic	150	53	190000	1.6	5.9	4.9	3.3	4.8	5.4	6.3	3.8	4	2.6	5.8	9.3
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	0.7	0.7	1.2	1.4	0.83	0.67	1.2	0 U	0 U	2.1	1
Cadmium	38	210	190000	800	0 U	0 U	0.12	0.25	0.36	0 U	0.12	4.2	0 U	0.86	0.56
Chromium				1400	20	19	16	20	20	17	18	35	27	25	19
Copper	36000	100000	190000	41000	9.3	9.3	23	16	9.5	7.8	11	20	5.8	33	13
Hexavalent Chromium	190	420	190000	200	0 U	0 U	0 U	0 U	0 U	2.2	0 U	3.6	0 U	0 U	0 U
Lead	450	1000	190000	800	7.9	9	26	26	8.3	6.2	14	62	12	17	7.8
Mercury	10	840	190000	24	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Nickel	650	56000	190000	20000	9.3	8.1	34	43	8.3	8.9	66	42	8.1	30	8.9
Selenium	26	14000	190000	5100											
Silver	84	14000	190000	5100											
Thallium	14	200	190000	66											
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	31	26	37	86	38	18	28	150	22	83	42
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21											
Arochlor-1221	2.5	160	10000	0.62											
Arochlor-1232	2	160	10000	0.62											
Arochlor-1242	62	160	10000	0.74											
Arochlor-1248	67	44	10000	0.74											
Arochlor-1254	280	44	10000	0.74											
Arochlor-1260	1900	130	190000	0.74											
PCBs (Total)				0.74											
Semi Volatile Organic Compound															
1,2,4-Trichlorobenzene	27	10000	10000	400											
1,2-Dichlorobenzene	60	10000	10000	10000											
1,3-Dichlorobenzene	61	10000	10000												
1,4-Dichlorobenzene	10	3300	190000	13											
2,4,5-Trichlorophenol	6100	190000	190000	62000											
2,4,6-Trichlorophenol	8.9	840	190000	160											
2,4-Dichlorophenol	2	8400	190000	1800											
2,4-Dimethylphenol	200	10000	10000	12000											
2,4-Dinitrophenol	4.1	5600	190000	1200											
2,4-Dinitrotoluene	0.84	260	190000	5.5											
2,6-Dinitrotoluene	10	2800	190000	620											
2-Chloronaphthalene	18000	190000	190000	82000											
2-Chlorophenol	4.4	920	1100	5100											
2-Methylnaphthalene	8000	10000	10000	4100								21	0 U		
2-Methylphenol	510	10000	10000	31000											
2-Nitroaniline	0.58	160	190000	1800											
2-Nitrophenol	82	22000	190000												

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SP-3 0 - 0.5 4/28/1995	OWCA-SP-3 2 - 2.5 4/28/1995	OWCA-SP-3 10 - 10.5 4/28/1995	OWCA-SP-3 18 - 18.5 4/28/1995	OWCA-SP-4 0 - 0.5 4/27/1995	OWCA-SP-4 6 - 6.5 4/27/1995	OWCA-SP-4 23 - 23.5 4/27/1995	*OWCA-SP-5 0 - 2 4/28/1995	OWCA-SP-5 8 - 8.5 4/28/1995	OWCA-SP-5 13 - 13.5 4/27/1995	OWCA-SP-6 0 - 0.5 4/27/1995
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															
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								13	0 U		
Butylbenzylphthalate	10000	10000	10000	910								11	0 U		
Carbazole	83	4000	190000												
Chrysene	230	11000	190000	210								0 U	0 U		
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								0 U	0 U		
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								89	0 U		
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									0 U	0 U		
Phenol	400	190000	190000	180000											
Pyrene	2200	84000	190000	17000								0 U	0 U		
Total Solids															
Percent Solids															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8											

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SP-3 0 - 0.5 4/28/1995	OWCA-SP-3 2 - 2.5 4/28/1995	OWCA-SP-3 10 - 10.5 4/28/1995	OWCA-SP-3 18 - 18.5 4/28/1995	OWCA-SP-4 0 - 0.5 4/27/1995	OWCA-SP-4 6 - 6.5 4/27/1995	OWCA-SP-4 23 - 23.5 4/27/1995	*OWCA-SP-5 0 - 2 4/28/1995	OWCA-SP-5 8 - 8.5 4/28/1995	OWCA-SP-5 13 - 13.5 4/27/1995	OWCA-SP-6 0 - 0.5 4/27/1995
1,1,1-Trichloroethane	20	10000	10000	39000	0 U				0 U			0 U			0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9											
1,1,2-Trichloroethane	0.5	100	120	5.5											
1,1-Dichloroethane	11	1000	1200	17	0 U				0 U			0 U			0 U
1,1-Dichloroethene	0.7	33	38	1100											
1,2-Dibromoethane	0.005	0.93	8.6	0.17											
1,2-Dichloroethane	0.5	63	73	2.2											
1,2-Dichloropropane	0.5	160	180	4.7											
1,4-Dioxane	2.4	210	240	160											
2-Butanone	580	10000	10000	190000	0 U	0 U	5.2	3.9	0 U	0 U	0 U	1.4	0 U	0 U	0 U
2-Chloroethyl Vinyl Ether															
2-Hexanone															
4-Methyl-2-Pentanone	41	4300	4900	52000											
Acetone	1000	10000	10000	610000	0.058	0 U	1.3	0.85	0 U	0 U	0 U	0.51	0 U	0 U	0 U
Acrylonitrile	0.27	24	28	1.2											
Benzene	0.5	210	240	5.6	0 U				0 U			0.042			0 U
Bromochloromethane	9	10000	10000												
Bromodichloromethane	10	45	51	1.4											
Bromoform	10	1500	1700	220											
Bromomethane	1	270	300	35											
Carbon Disulfide	410	10000	10000	3000											
Carbon Tetrachloride	0.5	110	120	1.3											
Chlorobenzene	10	10000	10000	1500											
Chlorodibromomethane	10	61	70	3.4											
Chloroethane	90	10000	10000	62000											
Chloroform	10	17	19	1.5											
Chloromethane	0.3	920	1000	510											
cis-1,2-Dichloroethene	7	1900	2100	10000											
cis-1,3-Dichloropropene	2.6	410	470	8.4											
Ethylbenzene	70	10000	10000	29	0.007	0.0093	0.11	0.2	0 U	0 U	0 U	19	0 U	27	0 U
Methyl tert-butyl ether	2	3200	3700	190											
Methylene chloride	0.5	3500	4000	54											
Naphthalene	25	56000	190000	20											
Styrene	24	10000	10000	38000	0 U	0 U	0 U		0 U	0 U		15	0 U	0.027	0 U
Tetrachloroethene	0.5	1500	3300	2.7	0 U				0 U			0 U			0 U
Toluene	100	10000	10000	46000	0 U	0 U	0.35	0.64	0 U	0 U	0 U	110	0 U	0.027	0 U
trans-1,2-Dichloroethene	10	3700	4300	500											
trans-1,3-Dichloropropene	2.6	410	470	8.4											
Trichloroethene	0.5	970	1100	14	0 U	0 U	0 U		0 U	0 U		0 U	0 U	0 U	0 U
Vinyl Acetate	120	10000	10000	4200											
Vinyl Chloride	0.2	53	220	1.7											
Xylenes (Total)	1000	10000	10000	2600	0.24	0.2	0.95	1.4	0 U	0 U	0 U	100	0 U	0.26	0 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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SP-6 9.5 - 10 4/28/1995	OWCA-SP-7 0 - 0.5 4/26/1995	OWCA-SP-7 2 - 2.5 4/26/1995	OWCA-SP-7 12 - 12.5 4/26/1995	OWCA-SP-7 16 - 16.5 4/26/1995	OWCA-SP-8 0 - 0.5 4/27/1995	OWCA-SP-8 6 - 6.5 4/27/1995	WCA-SG8a 1.5 - 2 12/29/1999	WCA-SG8b 23 - 23.5 12/30/1999	WCA-SG9a 2 - 2.5 12/30/1999	WCA-SG9b 21 - 21.5 12/30/1999
Cyanide															
Cyanide, Free	200	56000	190000	20000											
Cyanide, Total	200	56000	190000	20000	0.11	110	9.1	1.5	2.6	0.06	0 U	0 U	0 U	0 U	0 U
Hexavalent Chromium															
Hexavalent Chromium	190	420	190000	200											
Mercury															
Mercury	10	840	190000	24											
Metal															
Antimony	27	1100	190000	410								0 U	0 U	0 U	1.06
Arsenic	150	53	190000	1.6	4.1	5.8	11	4.4	3.4	3.3	7.3	1.98	0 U	8.56	4.04
Barium	8200	190000	190000	190000											
Beryllium	320	5600	190000	2000	1.4	0.7	0.8	1.9	1.4	0.48	1.2	0.344	0.323	0.609	1.05
Cadmium	38	210	190000	800	0.33	1	1.5	0.12	0 U	0 U	0.23	0 U	0 U	0 U	0 U
Chromium				1400	15	22	20	21	20	27	20	4.86	6.39	7.66	6.7
Copper	36000	100000	190000	41000	9.9	13	11	28	19	8.4	14	3.29	3.93	9.95	9.67
Hexavalent Chromium	190	420	190000	200	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Lead	450	1000	190000	800	11	11	9.3	37	29	8.1	13	9.62	8.11	7.52	13.9
Mercury	10	840	190000	24	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Nickel	650	56000	190000	20000	9.9	120	210	52	280	7.2	10	1.53	1.54	2.6	11.5
Selenium	26	14000	190000	5100								0 U	0 U	0 U	0 U
Silver	84	14000	190000	5100								0 U	0 U	0 U	0 U
Thallium	14	200	190000	66								0 U	0 U	0 U	0 U
Vanadium	72000	20000	190000	7200											
Zinc	12000	190000	190000	310000	33	41	44	48	41	35	50	9.37	4.38	8.27	40.4
Polychlorinated Biphenols															
Arochlor-1016	200	200	10000	21								0 U	0 U	0 U	0 U
Arochlor-1221	2.5	160	10000	0.62								0 U	0 U	0 U	0 U
Arochlor-1232	2	160	10000	0.62								0 U	0 U	0 U	0 U
Arochlor-1242	62	160	10000	0.74								0 U	0 U	0 U	0 U
Arochlor-1248	67	44	10000	0.74								0 U	0 U	0 U	0 U
Arochlor-1254	280	44	10000	0.74								0 U	0 U	0 U	0 U
Arochlor-1260	1900	130	190000	0.74								0 U	0 U	0 U	0 U
PCBs (Total)				0.74								0 U	0 U	0 U	
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								0 U	0 U	0 U	1.06
2-Chloronaphthalene	18000	190000	190000	82000											
2-Chlorophenol	4.4	920	1100	5100											
2-Methylnaphthalene	8000	10000	10000	4100		0 U	0 U			0 U	0 U				
2-Methylphenol	510	10000	10000	31000											
2-Nitroaniline	0.58	160	190000	1800											
2-Nitrophenol	82	22000	190000												

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SP-6 9.5 - 10 4/28/1995	OWCA-SP-7 0 - 0.5 4/26/1995	OWCA-SP-7 2 - 2.5 4/26/1995	OWCA-SP-7 12 - 12.5 4/26/1995	OWCA-SP-7 16 - 16.5 4/26/1995	OWCA-SP-8 0 - 0.5 4/27/1995	OWCA-SP-8 6 - 6.5 4/27/1995	WCA-SG8a 1.5 - 2 12/29/1999	WCA-SG8b 23 - 23.5 12/30/1999	WCA-SG9a 2 - 2.5 12/30/1999	WCA-SG9b 21 - 21.5 12/30/1999
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															
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		0 U	0 U			0 U	0 U				
Butylbenzylphthalate	10000	10000	10000	910		0 U	0 U			0 U	0 U				
Carbazole	83	4000	190000												
Chrysene	230	11000	190000	210		0.58	0 U			0 U	0 U				
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		1.5	0 U			0 U	0 U				
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		0.58	0 U			0 U	0 U				
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			0.58	0 U			0 U	0 U				
Phenol	400	190000	190000	180000											
Pyrene	2200	84000	190000	17000		1	0 U			0 U	0 U				
Total Solids															
Percent Solids															
Volatile Organic Compound															
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8											

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	OWCA-SP-6 9.5 - 10 4/28/1995	OWCA-SP-7 0 - 0.5 4/26/1995	OWCA-SP-7 2 - 2.5 4/26/1995	OWCA-SP-7 12 - 12.5 4/26/1995	OWCA-SP-7 16 - 16.5 4/26/1995	OWCA-SP-8 0 - 0.5 4/27/1995	OWCA-SP-8 6 - 6.5 4/27/1995	WCA-SG8a 1.5 - 2 12/29/1999	WCA-SG8b 23 - 23.5 12/30/1999	WCA-SG9a 2 - 2.5 12/30/1999	WCA-SG9b 21 - 21.5 12/30/1999
1,1,1-Trichloroethane	20	10000	10000	39000		0.26				0 U	0 U	0 U	0 U	0 U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9											
1,1,2-Trichloroethane	0.5	100	120	5.5											
1,1-Dichloroethane	11	1000	1200	17		0.03				0 U	0 U	0 U	0 U	0 U	0 U
1,1-Dichloroethene	0.7	33	38	1100											
1,2-Dibromoethane	0.005	0.93	8.6	0.17											
1,2-Dichloroethane	0.5	63	73	2.2											
1,2-Dichloropropane	0.5	160	180	4.7											
1,4-Dioxane	2.4	210	240	160											
2-Butanone	580	10000	10000	190000	0 U	0.57	1.1	2.2	0.93	0 U	0 U	0 U	0 U	0 U	0 U
2-Chloroethyl Vinyl Ether															
2-Hexanone															
4-Methyl-2-Pentanone	41	4300	4900	52000				0.43			0 U				
Acetone	1000	10000	10000	610000	0 U	0 U	0.34	3	0.9	0 U	0 U	0.0195	0.0151	0.0114	0 U
Acrylonitrile	0.27	24	28	1.2											
Benzene	0.5	210	240	5.6		0 U				0 U	0 U	0 U	0 U	0 U	0 U
Bromochloromethane	9	10000	10000												
Bromodichloromethane	10	45	51	1.4											
Bromoform	10	1500	1700	220											
Bromomethane	1	270	300	35											
Carbon Disulfide	410	10000	10000	3000								0 U	0 U	0 U	0 U
Carbon Tetrachloride	0.5	110	120	1.3											
Chlorobenzene	10	10000	10000	1500								0 U	0 U	0 U	0.00742
Chlorodibromomethane	10	61	70	3.4											
Chloroethane	90	10000	10000	62000											
Chloroform	10	17	19	1.5								0 U	0 U	0 U	0 U
Chloromethane	0.3	920	1000	510											
cis-1,2-Dichloroethene	7	1900	2100	10000								0 U	0 U	0 U	0 U
cis-1,3-Dichloropropene	2.6	410	470	8.4											
Ethylbenzene	70	10000	10000	29	0 U	15	0 U	0 U	0.071	0 U	0.13				
Methyl tert-butyl ether	2	3200	3700	190											
Methylene chloride	0.5	3500	4000	54								0 U	0 U	0 U	0 U
Naphthalene	25	56000	190000	20											
Styrene	24	10000	10000	38000	0 U	0 U	0 U	0 U		0 U	0 U				
Tetrachloroethene	0.5	1500	3300	2.7		0.31				0 U	0 U	0 U	0 U	0 U	0 U
Toluene	100	10000	10000	46000	0 U	23	0.076	0 U	0.099	0 U	0 U	0 U	0 U	0 U	0 U
trans-1,2-Dichloroethene	10	3700	4300	500											
trans-1,3-Dichloropropene	2.6	410	470	8.4											
Trichloroethene	0.5	970	1100	14	0 U	0.11	0 U	0 U		0 U	0 U	0 U	0 U	0 U	0 U
Vinyl Acetate	120	10000	10000	4200											
Vinyl Chloride	0.2	53	220	1.7											
Xylenes (Total)	1000	10000	10000	2600	0 U	100	0.2	0 U	0.43	0.16	0.33				

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	WCA-SG10a 2 - 2.5 12/29/1999	WCA-SG10b 20 - 20.5 12/29/1999
Cyanide						
Cyanide, Free	200	56000	190000	20000		
Cyanide, Total	200	56000	190000	20000	0 U	0 U
Hexavalent Chromium						
Hexavalent Chromium	190	420	190000	200		
Mercury						
Mercury	10	840	190000	24		
Metal						
Antimony	27	1100	190000	410	0 U	0 U
Arsenic	150	53	190000	1.6	2.09	6.6
Barium	8200	190000	190000	190000		
Beryllium	320	5600	190000	2000	0.308	2.14
Cadmium	38	210	190000	800	0 U	0.506
Chromium				1400	8.42	12.5
Copper	36000	100000	190000	41000	5.41	15
Hexavalent Chromium	190	420	190000	200	0 U	0 U
Lead	450	1000	190000	800	7.56	17.9
Mercury	10	840	190000	24	0 U	0 U
Nickel	650	56000	190000	20000	2.52	17.5
Selenium	26	14000	190000	5100	0 U	0 U
Silver	84	14000	190000	5100	0 U	0 U
Thallium	14	200	190000	66	0 U	0 U
Vanadium	72000	20000	190000	7200		
Zinc	12000	190000	190000	310000	11	97.5
Polychlorinated Biphenols						
Arochlor-1016	200	200	10000	21	0 U	0 U
Arochlor-1221	2.5	160	10000	0.62	0 U	0 U
Arochlor-1232	2	160	10000	0.62	0 U	0 U
Arochlor-1242	62	160	10000	0.74	0 U	0 U
Arochlor-1248	67	44	10000	0.74	0 U	0 U
Arochlor-1254	280	44	10000	0.74	0 U	0 U
Arochlor-1260	1900	130	190000	0.74	0 U	0 U
PCBs (Total)				0.74	0 U	0 U
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	0 U	0 U
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			

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 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	WCA-SG10a 2 - 2.5 12/29/1999	WCA-SG10b 20 - 20.5 12/29/1999
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						
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						
Volatile Organic Compound						
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8		

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

Table 3.2-1
Soils Data Summary - Old Waste Containment Area (OWCA)
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)	WCA-SG10a 2 - 2.5 12/29/1999	WCA-SG10b 20 - 20.5 12/29/1999
1,1,1-Trichloroethane	20	10000	10000	39000	0 U	0 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9		
1,1,2-Trichloroethane	0.5	100	120	5.5		
1,1-Dichloroethane	11	1000	1200	17	0 U	0 U
1,1-Dichloroethene	0.7	33	38	1100		
1,2-Dibromoethane	0.005	0.93	8.6	0.17		
1,2-Dichloroethane	0.5	63	73	2.2		
1,2-Dichloropropane	0.5	160	180	4.7		
1,4-Dioxane	2.4	210	240	160		
2-Butanone	580	10000	10000	190000	0 U	0 U
2-Chloroethyl Vinyl Ether						
2-Hexanone						
4-Methyl-2-Pentanone	41	4300	4900	52000		
Acetone	1000	10000	10000	610000	0.0187	0.0158
Acrylonitrile	0.27	24	28	1.2		
Benzene	0.5	210	240	5.6	0 U	0 U
Bromochloromethane	9	10000	10000			
Bromodichloromethane	10	45	51	1.4		
Bromoform	10	1500	1700	220		
Bromomethane	1	270	300	35		
Carbon Disulfide	410	10000	10000	3000	0 U	0 U
Carbon Tetrachloride	0.5	110	120	1.3		
Chlorobenzene	10	10000	10000	1500	0 U	0 U
Chlorodibromomethane	10	61	70	3.4		
Chloroethane	90	10000	10000	62000		
Chloroform	10	17	19	1.5	0 U	0 U
Chloromethane	0.3	920	1000	510		
cis-1,2-Dichloroethene	7	1900	2100	10000	0 U	0 U
cis-1,3-Dichloropropene	2.6	410	470	8.4		
Ethylbenzene	70	10000	10000	29		
Methyl tert-butyl ether	2	3200	3700	190		
Methylene chloride	0.5	3500	4000	54	0 U	0 U
Naphthalene	25	56000	190000	20		
Styrene	24	10000	10000	38000		
Tetrachloroethene	0.5	1500	3300	2.7	0 U	0 U
Toluene	100	10000	10000	46000	0 U	0 U
trans-1,2-Dichloroethene	10	3700	4300	500		
trans-1,3-Dichloropropene	2.6	410	470	8.4		
Trichloroethene	0.5	970	1100	14	0 U	0.00844
Vinyl Acetate	120	10000	10000	4200		
Vinyl Chloride	0.2	53	220	1.7		
Xylenes (Total)	1000	10000	10000	2600		

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