Table 3.10-2
Soils Data Summary - North End of Building 4 - Former Methylene Chloride Area (B4MC)
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)	B4MC-SB-001 1 - 3 6/28/2007	B4MC-SB-001 6 - 8 7/2/2007	B4MC-SB-002 1 - 3 6/28/2007	B4MC-SB-002 1 - 3 6/28/2007	B4MC-SB-002 Dup 1 - 3 6/28/2007	B4MC-SB-002 10 - 12 7/2/2007	B4MC-SB-003 1 - 3 6/28/2007	B4MC-SB-003 8 - 10 7/2/2007	B4MC-SB-004 1 - 3 7/24/2007	B4MC-SB-004 10 - 12 7/24/2007
Cyanide, Free														
Cyanide, Free	200	56000	190000	20000	0.37 B	0.55 U	0.59 U	0.59 U	0.58 U	0.58 U	0.65 U	0.56 U	0.61 U	0.62 U
Cyanide, Total														
Cyanide, Total	200	56000	190000	20000	0.18 B J	0.32 B	0.19 B J	0.59 U	0.33 B J	0.28 B	0.21 B J	0.17 B	0.61 U	0.62 U
Mercury														
Mercury	10	840	190000	24	0.3	0.022 B	0.075	0.081	0.11	0.023 B	0.049	0.059	0.057	0.11
Metal														
Antimony	27	1100	190000	410	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.1 U	1.2 U	1.2 U
Arsenic	150	53	190000	1.6	2.7	4.4	2.4	3.7	2.6	3.6	5.2	2.8	5.2	6.3
Barium	8200	190000	190000	190000	132	42.4	38.9	70.2	35.3	32.2	96.6	40.6	54.5	68.9
Beryllium	320	5600	190000	2000	0.81 J	0.52	0.47 J	0.76 J	0.38 B J	0.5	0.62 J	0.41 B	0.82 J	0.7 J
Cadmium	38	210	190000	800	0.6 U	0.55 U	0.065 B	0.59 U	0.58 U	0.58 U	0.65 U	0.56 U	0.083 B	0.087 B
Chromium				1400	10.4	10	8.9	16.4	9.3	8.9	24	11.6	22.9	25.1
Copper	36000	100000	190000	41000	5.8	6.5	5.9	9.6	6	10.9	9	7.6	11.2	12.8
Lead	450	1000	190000	800	16.2	7.2	12.2	11.2	7.5	7.2	12	7.7	11.1	11.5
Nickel	650	56000	190000	20000	6.4	4 B	4.1 B	7.8	3.9 B	6.3	8.6	5.9	11.9	12
Selenium	26	14000	190000	5100	0.6 U	0.69	0.59 U	0.67	0.58 U	0.54 B	1	0.56 U	0.47 B	0.64
Silver	84	14000	190000	5100	0.068 B	0.55 U	0.59 U	0.59 U	0.58 U	0.58 U	0.65 U	0.56 U	0.61 U	0.62 U
Thallium	14	200	190000	66	1.2 U	0.44 B	1.2 U	1.2 U	1.2 U	1.2 U	0.79 B	1.1 U	1.2 U	1.2 U
Vanadium	72000	20000	190000	7200	17.9	15.8	16.6	25	16	16.4	40.3	18.5	33.2	36.6
Zinc	12000	190000	190000	310000	31.3	9.8	15.2	23.4	13.3	22	30.8	13.8	32.8 J	38.3 J
Total Solids														
Percent Solids					83.40%	90.60%	84.90%	85.20%	86.90%	86.20%	77%	88.80%	81.90%	80.50%
Volatile Organic Compound														
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,1-Dichloroethane	11	1000	1200	17	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0025 J	0.0061 J	0.24 U	0.006 U	0.0053 U
1,1-Dichloroethene	0.7	33	38	1100	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0012 J	0.0064 U	0.24 U	0.006 U	0.0053 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
1,4-Dioxane	2.4	210	240	160	1.1 U	0.96 U	1.1 U	1.2 U	1.1 U	0.95 U	1.3 U	47 U	1.2 U	1.1 U
2-Butanone	580	10000	10000	190000	0.011 J	0.019 U	0.022 U	0.024 U	0.023 U	0.019 U	0.025 U	0.95 U	0.024 U	0.021 U
2-Hexanone					0.021 U	0.019 U	0.022 U	0.024 U	0.023 U	0.019 U	0.025 U	0.95 U	0.024 U	0.021 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.021 U	0.019 U	0.022 U	0.024 U	0.023 U	0.019 U	0.025 U	0.064 J	0.024 U	0.021 U
Acetone	1000	10000	10000	610000	0.049	0.019 U	0.0056 J	0.024 U	0.023 U	0.019 U	0.031	0.95 U	0.04	0.021 U
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.096 U	0.11 U	0.12 U	0.11 U	0.095 U	0.13 U	4.7 U	0.12 U	0.11 U
Benzene	0.5	210	240	5.6	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Bromochloromethane	9	10000	10000		0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Bromoform	10	1500	1700	220	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Bromomethane	1	270	300	35	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Chlorobenzene	10	10000	10000	1500	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Chloroform	10	17	19	1.5	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U

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

Table 3.10-2
Soils Data Summary - North End of Building 4 - Former Methylene Chloride Area (B4MC)
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)	B4MC-SB-001 1 - 3 6/28/2007	B4MC-SB-001 6 - 8 7/2/2007	B4MC-SB-002 1 - 3 6/28/2007	B4MC-SB-002 1 - 3 6/28/2007	B4MC-SB-002 Dup 1 - 3 6/28/2007	B4MC-SB-002 10 - 12 7/2/2007	B4MC-SB-003 1 - 3 6/28/2007	B4MC-SB-003 8 - 10 7/2/2007	B4MC-SB-004 1 - 3 7/24/2007	B4MC-SB-004 10 - 12 7/24/2007
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0051 J	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0034 J	0.013	0.24 U	0.006 U	0.0053 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.017	0.24 U	0.006 U	0.0053 U
Methyl tert-butyl ether	2	3200	3700	190	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.0026 J B	0.0016 J B	0.002 J B	0.0019 J B	0.0018 J B	0.0018 J B	0.024 B	0.59	0.0029 J B	0.003 J B
Styrene	24	10000	10000	38000	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0053 U	0.0048 U	0.0021 J	0.0043 J	0.002 J	0.016	0.0047 J	0.24 U	0.006 U	0.0053 U
Toluene	100	10000	10000	46000	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0022 J	0.24 U	0.006 U	0.0053 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0016 J	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.0083	0.0048 U	0.0026 J	0.0016 J	0.0017 J	0.017	0.02	0.24 U	0.006 U	0.0053 U
Vinyl Chloride	0.2	53	220	1.7	0.0053 U	0.0048 U	0.0054 U	0.006 U	0.0057 U	0.0048 U	0.0064 U	0.24 U	0.006 U	0.0053 U
Xylenes (Total)	1000	10000	10000	2600	0.016 U	0.014 U	0.016 U	0.018 U	0.017 U	0.014 U	0.08	0.71 U	0.018 U	0.016 U

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

Table 3.10-2
Soils Data Summary - North End of Building 4 - Former Methylene Chloride Area (B4MC)
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)	B4MC-SB-005 1 - 3 7/23/2007	B4MC-SB-005 13 - 15 7/23/2007	B4MC-SB-006 1 - 3 7/6/2007	B4MC-SB-006 13 - 15 7/6/2007	B4MC-SB-007 1 - 3 7/6/2007	B4MC-SB-007 13 - 15 7/6/2007
Cyanide, Free										
Cyanide, Free	200	56000	190000	20000	0.6 U	0.41 B	0.59 U	0.6 U	0.62 U	0.59 U
Cyanide, Total										
Cyanide, Total	200	56000	190000	20000	0.17 B	0.11 B	0.59 U	0.6 U	0.15 B	0.59 U
Mercury										
Mercury	10	840	190000	24	0.03 B	0.033 B	0.035 B	0.054	0.042	0.049
Metal										
Antimony	27	1100	190000	410	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U
Arsenic	150	53	190000	1.6	6.1	2.3	3.8	1.3	5.3	2.1
Barium	8200	190000	190000	190000	64.9	28.1	54	28.6	55.4	20.8 B
Beryllium	320	5600	190000	2000	1 J	0.56 J	0.7 J	0.81 J	0.79 J	0.82 J
Cadmium	38	210	190000	800	0.3 B	0.48 B	0.59 U	0.6 U	0.62 U	0.59 U
Chromium				1400	26.7	36.7	16.1	29.8	19.8	16.8
Copper	36000	100000	190000	41000	11.2	17.3	9.5	17.9	12.8	16.7
Lead	450	1000	190000	800	10	8.5	8.6	12.3	11.6	7
Nickel	650	56000	190000	20000	12.1	8	8.9	9	12	10.7
Selenium	26	14000	190000	5100	1	1.5	0.52 B	0.81	0.64	0.87
Silver	84	14000	190000	5100	0.6 U	0.56 U	0.59 U	0.6 U	0.62 U	0.59 U
Thallium	14	200	190000	66	1.2 U	1.1 U	1.2 U	0.81 B	1.2 U	0.53 B
Vanadium	72000	20000	190000	7200	34.8	30.3	26.9	23.3	31.1	19.8
Zinc	12000	190000	190000	310000	34.7 J	26.4 J	22.6	28.2	37.8	28.5
Total Solids										
Percent Solids					83%	88.80%	85.10%	82.80%	80.70%	84.60%
Volatile Organic Compound										
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,1-Dichloroethane	11	1000	1200	17	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,1-Dichloroethene	0.7	33	38	1100	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,2-Dichloroethane	0.5	63	73	2.2	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,2-Dichloropropane	0.5	160	180	4.7	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
1,4-Dioxane	2.4	210	240	160	1.1 U	0.98 U	1.1 U	0.99 U	1.2 U	1.1 U
2-Butanone	580	10000	10000	190000	0.022 U	0.02 U	0.023 U	0.02 U	0.024 U	0.021 U
2-Hexanone					0.022 U	0.02 U	0.023 U	0.02 U	0.024 U	0.021 U
4-Methyl-2-Pentanone	41	4300	4900	52000	0.022 U	0.02 U	0.023 U	0.02 U	0.024 U	0.021 U
Acetone	1000	10000	10000	610000	0.022 U	0.02 U	0.023 U	0.02 U	0.024 U	0.021 U
Acrylonitrile	0.27	24	28	1.2	0.11 U	0.098 U	0.11 U	0.099 U	0.12 U	0.11 U
Benzene	0.5	210	240	5.6	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Bromochloromethane	9	10000	10000		0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Bromodichloromethane	10	45	51	1.4	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Bromoform	10	1500	1700	220	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Bromomethane	1	270	300	35	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Carbon Disulfide	410	10000	10000	3000	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Chlorobenzene	10	10000	10000	1500	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Chlorodibromomethane	10	61	70	3.4	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Chloroethane	90	10000	10000	62000	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Chloroform	10	17	19	1.5	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Chloromethane	0.3	920	1000	510	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U

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

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Soils Data Summary - North End of Building 4 - Former Methylene Chloride Area (B4MC)
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Location/ID Depth (ft.) Sample Date Parameter	MSC Soil to GW Used Aquifer (mg/kg)	MSC Direct Contact 0 - 2 ft (mg/kg)	MSC Direct Contact 2 - 15 ft (mg/kg)	EPA RSL Industrial Soil (mg/kg)	B4MC-SB-005 1 - 3 7/23/2007	B4MC-SB-005 13 - 15 7/23/2007	B4MC-SB-006 1 - 3 7/6/2007	B4MC-SB-006 13 - 15 7/6/2007	B4MC-SB-007 1 - 3 7/6/2007	B4MC-SB-007 13 - 15 7/6/2007
cis-1,2-Dichloroethene	7	1900	2100	10000	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
cis-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Ethylbenzene	70	10000	10000	29	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Methyl tert-butyl ether	2	3200	3700	190	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Methylene chloride	0.5	3500	4000	54	0.0027 J B	0.0018 J B	0.0019 J B	0.0015 J B	0.002 J B	0.0017 J B
Styrene	24	10000	10000	38000	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0055 U	0.0034 J	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Toluene	100	10000	10000	46000	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
trans-1,2-Dichloroethene	10	3700	4300	500	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
trans-1,3-Dichloropropene	2.6	410	470	8.4	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Trichloroethene	0.5	970	1100	14	0.0055 U	0.0024 J	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Vinyl Chloride	0.2	53	220	1.7	0.0055 U	0.0049 U	0.0056 U	0.0049 U	0.0061 U	0.0053 U
Xylenes (Total)	1000	10000	10000	2600	0.017 U	0.015 U	0.017 U	0.015 U	0.018 U	0.016 U

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