Table 3.
Groundwater Data Summary - Building 41 (B41) East Trench
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer (ug/L)	MSC Non-Used Aquifer (ug/L)	Federal MCL (ug/L)	EPA RBC Tap Water (ug/L)	MW-117 2/26/2009 (ug/L)	MW-116 5/21/2008 (ug/L)	MW-116 5/21/2008 (ug/L)	MW-116 6/10/2008 (ug/L)	MW-116 9/3/2008 (ug/L)	MW-116 9/3/2008 (ug/L)
Cyanide, Free										
Cyanide, Free	200	200000	200	730	4.6 B	10 U			10 U	
Cyanide, Total										
Cyanide, Total	200	200000			110	3.6 B J			10 U	
Dioxane										
1,4-Dioxane	24	240		6.1				22 Z		
Hexavalent Chromium										
Hexavalent Chromium	100	100000		110	10 U	50 U			0 U	
Hexavalent Chromium-Diss										
Hexavalent Chromium	100	100000		110	10 U		50 U			0 U
Mercury										
Mercury	2	2000	2	0.57	0.2 U	0.2 U			0.2 U	
Mercury-Diss										
Mercury	2	2000	2	0.57	0.2 U		0.2 U			0.2 U
Metal										
Antimony	6	6000	6	15	0.47 B J	10 U			0.076 B	
Arsenic	10	10000	10	0.045	0.89 B Z	10 U			1 U	
Barium	2000	2000000	2000	7300	273 J	26.8 B J			26.2	
Beryllium	4	4000	4	73	1 U	0.49 B J			1 U	
Cadmium	5	5000	5	18	1 U	0.51 B			0.44 B	
Chromium	100	100000	100		7.1 J	2.9 B			8.9 J	
Copper	1000	1000000	1300	1500	2.5	25 U			0.9 B	
Lead	5	5000	15		0.29 B J	3 U			0.28 B	
Nickel	100	100000		730	4.8	19.4 B			18.6	
Selenium	50	50000	50	180	1.5 B J	5 U			0.39 B	
Silver	100	100000		180	1 U	1.4 B			1 U	
Thallium	2	2000	2	2.4	0.072 B J	10 U			0.099 B	
Vanadium	720	720000		180	1.4 J	2.2 B			1.4 J	
Zinc	2000	2000000		10950	4.7 B	20.2 J			15.8	
Metal-Diss										
Antimony	6	6000	6	15	0.51 B		10 U			0.091 B J
Arsenic	10	10000	10	0.045	1 U		10 U			1 U
Barium	2000	2000000	2000	7300	266 J		25.7 B			25.1
Beryllium	4	4000	4	73	1 U		0.41 B J			1 U
Cadmium	5	5000	5	18	1 U		0.64 B			0.48 B
Chromium	100	100000	100		6.7 J E		2.9 B			7.3 J E
Copper	1000	1000000	1300	1500	1.6 B		25 U			0.86 B
Lead	5	5000	15		0.23 B J		3 U			0.12 B J
Nickel	100	100000		730	4.3		18.6 B			17.6
Selenium	50	50000	50	180	0.76 B		5 U			0.59 B
Silver	100	100000		180	1 U		1.5 B			1 U
Thallium	2	2000	2	2.4	0.15 B J		10 U			0.092 B J
Vanadium	720	720000		180	1 U		3 B			0.58 B
Zinc	2000	2000000		10950	4.2 B		15.8 B J			16.3
SVOC										
1,2,4-Trichlorobenzene	70	7000	70	0.96	9.7 U			9.5 U	9.6 U	
1,2-Dichlorobenzene	600	60000	600	0.0068	9.7 U			9.5 U	9.6 U	
1,3-Dichlorobenzene	600	60000		0.0068	9.7 U			9.5 U	9.6 U	
1,4-Dichlorobenzene	75	7500	75	0.034	9.7 U			9.5 U	9.6 U	
2,4,5-Trichlorophenol	10000	1000000		0.034	9.7 U			9.5 U	9.6 U	
2,4,6-Trichlorophenol	31	31000		0.034	9.7 U			9.5 U	9.6 U	
2,4-Dichlorophenol	20	2000		0.034	9.7 U			9.5 U	9.6 U	
2,4-Dimethylphenol	2000	2000000			9.7 U			9.5 U	9.6 U	
2,4-Dinitrophenol	41	410		8.2	48 U			48 U	48 U	
2,4-Dinitrotoluene	8.4	8400		370	9.7 U			9.5 U	9.6 U	
2,6-Dinitrotoluene	100	100000			9.7 U			9.5 U	9.6 U	
2-Chloronaphthalene	8200	8200		0.43	9.7 U			9.5 U	9.6 U	
2-Chlorophenol	40	40		3700	9.7 U			9.5 U	9.6 U	
2-Methylnaphthalene	2000	2000		6.1	9.7 U			9.5 U	9.6 U	
2-Methylphenol	5100	510000		110	9.7 U			9.5 U	9.6 U	
2-Nitroaniline	5.8	5.8		730	48 U			48 U	48 U	
2-Nitrophenol	820	820000		73	9.7 U			9.5 U	9.6 U	
3,3'-Dichlorobenzidine	5.8	3100		73	48 U			48 U	48 U	
3/4-Methylphenol				37	9.7 U			9.5 U	9.6 U	
3-Nitroaniline	5.8	5.8		2900	48 U			48 U	48 U	
4,6-Dinitro-2-Methylphenol				180	48 U			48 U	48 U	
4-Bromophenyl phenyl ether				2.3	9.7 U			9.5 U	9.6 U	

a. Blank results indicate analyte was not analyzed for.

Table 3.
Groundwater Data Summary - Building 41 (B41) East Trench
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer (ug/L)	MSC Non-Used Aquifer (ug/L)	Federal MCL (ug/L)	EPA RBC Tap Water (ug/L)	MW-117 2/26/2009 (ug/L)	MW-116 5/21/2008 (ug/L)	MW-116 5/21/2008 (ug/L)	MW-116 6/10/2008 (ug/L)	MW-116 9/3/2008 (ug/L)	MW-116 9/3/2008 (ug/L)
4-Chloro-3-Methyl-Phenol	510	510			9.7 U			9.5 U	9.6 U	
4-Chloroaniline	410	410		110	9.7 U			9.5 U	0.53 J	
4-Chlorodiphenyl Ether					9.7 U			9.5 U	9.6 U	
4-Nitroaniline	5.8	5.8		0.15	48 U			48 U	48 U	
4-Nitrophenol	60	60000			48 U			48 U	48 U	
Acenaphthene	3800	3800			9.7 U			9.5 U	9.6 U	
Acenaphthylene	6100	16000			9.7 U			9.5 U	9.6 U	
Anthracene	66	66			9.7 U			9.5 U	9.6 U	
Benzo (A) Anthracene	3.6	11	0.2		9.7 U			9.5 U	9.6 U	
Benzo (a) Pyrene	0.2	3.8	0.2	0.34	9.7 U			9.5 U	9.6 U	
Benzo (b) Fluoranthene	1.2	1.2			9.7 U			9.5 U	9.6 U	
Benzo (g,h,i) Perylene	0.26	0.26		3.4	9.7 U			9.5 U	9.6 U	
Benzo (k) Fluoranthene	0.55	0.55			9.7 U			9.5 U	9.6 U	
Bis(2-Chloroethoxy) Methane				2200	9.7 U			9.5 U	9.6 U	
Bis(2-Chloroethyl) Ether	0.55	55			9.7 U			9.5 U	9.6 U	
Bis(2-Chloroisopropyl) Ether	300	30000		11000	9.7 U			9.5 U	9.6 U	
Bis(2-Ethylhexyl) Phthalate	6	290	6	0.029	9.7 U			2.1 J	9.6 U	
Butylbenzylphthalate	2700	2700		0.0029	9.7 U			9.5 U	9.6 U	
Carbazole	130	1200		0.029	9.7 U			9.5 U	9.6 U	
Chrysene	1.9	1.9			9.7 U			9.5 U	9.6 U	
Dibenzo (a,h) Anthracene	0.36	0.6		0.29	9.7 U			9.5 U	9.6 U	
Dibenzofuran				110	9.7 U			9.5 U	9.6 U	
Diethylphthalate	5000	1100000		0.012	9.7 U			9.5 U	9.6 U	
Dimethylphthalate					9.7 U			9.5 U	9.6 U	
Di-n-Butylphthalate	10000	400000		4.8	9.7 U			9.5 U	9.6 U	
Di-n-octylphthalate	2000	3000			9.7 U			9.5 U	9.6 U	
Fluoranthene	260	260			9.7 U			9.5 U	9.6 U	
Fluorene	1900	1900		2.9	9.7 U			9.5 U	9.6 U	
Hexachlorobenzene	1	6	1	0.0029	9.7 U			9.5 U	9.6 U	
Hexachlorobutadiene	1	1000			9.7 U			9.5 U	9.6 U	
Hexachlorocyclopentadiene	50	1800	50	29000	48 U			48 U	48 U	
Hexachloroethane	1	100			9.7 U			9.5 U	9.6 U	
Indeno (1,2,3-cd) Pyrene	3.6	62			9.7 U			9.5 U	9.6 U	
Isophorone	100	100000			9.7 U			9.5 U	9.6 U	
Naphthalene	100	10000		1500	9.7 U			9.5 U	9.6 U	
Nitrobenzene	51	51000		1500	9.7 U			9.5 U	9.6 U	
N-Nitrosodi-N-Propylamine	0.37	370			9.7 U			9.5 U	9.6 U	
N-Nitrosodiphenylamine	530	35000			9.7 U			9.5 U	9.6 U	
Pentachlorophenol	1	1000	1		48 U			48 U	48 U	
Phenanthrene	1100	1100			9.7 U			9.5 U	9.6 U	
Phenol	4000	400000		0.029	9.7 U			9.5 U	9.6 U	
Pyrene	130	130		71	9.7 U			9.5 U	9.6 U	
TOTAL VOC				0.14						
				0.12	115.71	2317			1874	
VOC				0.0096						
1,1,1,2-Tetrachloroethane	70	7000		14	1 U	50 U			50 U	
1,1,1-Trichloroethane	200	2000	200	0.56	1 U	50 U			50 U	
1,1,2,2-Tetrachloroethane	0.3	30			1 U	50 U			50 U	
1,1,2-Trichloroethane	5	50	5	11000	1 U	50 U			50 U	
1,1-Dichloroethane	110	1100		1100	1 U	14 J			17 J	
1,1-Dichloroethene	7	70	7		0.72 J	46 J WY			40 J WY	
1,2-Dibromoethane	0.05	5	0.05	0.52	1 U	50 U			50 U	
1,2-Dichloroethane	5	50	5	200	1 U	50 U			50 U	
1,2-Dichloropropane	5	50	5	0.067	1 U	50 U			50 U	
1,4-Dioxane	24	240		5	200 U	10000 U			10000 U	
2-Butanone	4000	400000		2.4	10 U	500 U			500 U	
2-Hexanone					10 U	500 U			500 U	
4-Methyl-2-Pentanone	410	41000		0.0065	10 U	500 U			500 U	
Acetone	10000	100000		0.15	10 U	500 U			500 U	
Acrylonitrile	2.7	270		0.39	20 U	1000 U			1000 U	
Benzene	5	500	5	6.1	1 U	50 U			50 U	
Bromochloromethane	90	90			1 U	50 U			50 U	
Bromodichloromethane	100	100			1 U	50 U			50 U	
Bromoform	80	8000		2000	1 U	50 U			50 U	
Bromomethane	10	1000		22000	1 U	50 U			50 U	
Carbon Disulfide	4100	4100		0.045	1 U	50 U			50 U	
Carbon Tetrachloride	5	50	5	0.41	1 U	50 U			50 U	

a. Blank results indicate analyte was not analyzed for.

Table 3.
Groundwater Data Summary - Building 41 (B41) East Trench
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer (ug/L)	MSC Non-Used Aquifer (ug/L)	Federal MCL (ug/L)	EPA RBC Tap Water (ug/L)	MW-117 2/26/2009 (ug/L)	MW-116 5/21/2008 (ug/L)	MW-116 5/21/2008 (ug/L)	MW-116 6/10/2008 (ug/L)	MW-116 9/3/2008 (ug/L)	MW-116 9/3/2008 (ug/L)
Chlorobenzene	100	10000	100		1 U	50 U			50 U	
Chlorodibromomethane	80	8000		0.12	1 U	50 U			50 U	
Chloroethane	900	90000		8.5	1 U	50 U			50 U	
Chloroform	80	800		8.7	1 U	50 U			50 U	
Chloromethane	30	3000		1000	1 U	50 U			50 U	
cis-1,2-Dichloroethene	70	700	70	0.2	39	1200 WXYZ			1100 WXYZ	
cis-1,3-Dichloropropene	26	2600		91	1 U	50 U			50 U	
Ethylbenzene	700	70000	700		1 U	50 U			50 U	
Methyl tert-butyl ether	20	200			1 U	50 U			50 U	
Methylene chloride	5	500		0.19	1 U	140 B WZ			50 U	
Styrene	100	10000	100	190	1 U	50 U			50 U	
Tetrachloroethene	5	50	5		36 WYZ	310 WXYZ			210 WXYZ	
Toluene	1000	100000	1000		1 U	50 U			50 U	
trans-1,2-Dichloroethene	100	1000	100	1.5	0.43 J	50 U			50 U	
trans-1,3-Dichloropropene	26	2600		12	1 U	50 U			50 U	
Trichloroethene	5	50	5	4.8	39 WYZ	570 WXYZ			480 WXYZ	
Vinyl Chloride	2	20	2	1600	0.56 J Z	37 J WXYZ			27 J WXYZ	
Xylenes (Total)	10000	180000	10000		3 U	150 U			150 U	
				2300						

Laboratory Qualifiers

Qualifier	Explanation
	Organic Data Qualifiers
J	Indicates an estimated value. This flag is used when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
B	Analyte is found in the associated blank, as well as in the sample.
U	Indicates sample was analyzed for, but not detected. Report with the detection limit value.
	Inorganic Data Qualifiers
J	Analyte is found in the associated blank, as well as in the sample.
B	Indicates an estimated value. This flag is used when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
E	Matrix Interference
U	Indicates sample was analyzed for, but not detected. Report with the detection limit value.

Screening Value Comparison Qualifiers

Qualifier	Explanation
	Water
W	Excedence of the Pennsylvania DEP Act 2 Medium Specific Concentration for Non-Residential Use Aquifers.
X	Excedence of the Pennsylvania DEP Act 2 Medium Specific Concentration for Non-Residential Non-Used Aquifers.
Y	Excedence of the United States EPA Maximum Contaminant Level.
Z	Excedence of the United States EPA Region 3 Risked Based Concentrations for water.

NOTES:

Water results in individual laboratory data tables are in ug/L unless noted in the analyte list.
RBCs - Risk Based Concentrations from:
United States Environmental Protection Agency (EPA), May 19, 2009; Regional Screening Level Table.
MSCs - Medium Specific Concentrations from:
Pennsylvania Department of Environmental Protection (DEP), November 24, 2001; from Chapter 250, Appendix A.

a. Blank results indicate analyte was not analyzed for.