Table 2
Water Data Summary - Building 41 (B41) South Settling Basin
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)	B41S-SW-009 2/8/2008 (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	23	10 U			10 U	
Cyanide, Total										
Cyanide, Total	200	200000			4500 W	3.6 B J			10 U	
Dioxane										
1,4-Dioxane	24	240		6.1				22 Z		
Hexavalent Chromium										
Hexavalent Chromium	100	100000		110		50 U			0 U	
Hexavalent Chromium-Diss										
Hexavalent Chromium	100	100000		110			50 U			0 U
Mercury										
Mercury	2	2000	2	0.57	0.24	0.2 U			0.2 U	
Mercury-Diss										
Mercury	2	2000	2	0.57			0.2 U			0.2 U
Metal										
Antimony	6	6000	6	15	40.2 WYZ	10 U			0.076 B	
Arsenic	10	10000	10	0.045	26 WYZ	10 U			1 U	
Barium	2000	2000000	2000	7300	213	26.8 B J			26.2	
Beryllium	4	4000	4	73	0.58 B	0.49 B J			1 U	
Cadmium	5	5000	5	18	1210 WYZ	0.51 B			0.44 B	
Chromium	100	100000	100		9190 WY	2.9 B			8.9 J	
Copper	1000	1000000	1300	1500	238 J	25 U			0.9 B	
Lead	5	5000	15		67.6 WY	3 U			0.28 B	
Nickel	100	100000		730	3530 WZ	19.4 B			18.6	
Selenium	50	50000	50	180	8	5 U			0.39 B	
Silver	100	100000		180	0.83 B	1.4 B			1 U	
Thallium	2	2000	2	2.4	10 U	10 U			0.099 B	
Vanadium	720	720000		180	129 Z	2.2 B			1.4 J	
Zinc	2000	2000000		10950	4640 J W	20.2 J			15.8	
Metal-Diss										
Antimony	6	6000	6	15			10 U			0.091 B J
Arsenic	10	10000	10	0.045			10 U			1 U
Barium	2000	2000000	2000	7300			25.7 B			25.1
Beryllium	4	4000	4	73			0.41 B J			1 U
Cadmium	5	5000	5	18			0.64 B			0.48 B
Chromium	100	100000	100				2.9 B			7.3 J E
Copper	1000	1000000	1300	1500			25 U			0.86 B
Lead	5	5000	15				3 U			0.12 B J
Nickel	100	100000		730			18.6 B			17.6
Selenium	50	50000	50	180			5 U			0.59 B
Silver	100	100000		180			1.5 B			1 U
Thallium	2	2000	2	2.4			10 U			0.092 B J
Vanadium	720	720000		180			3 B			0.58 B
Zinc	2000	2000000		10950			15.8 B J			16.3
PCB										
Arochlor-1016	7.2	7.2	0.5	0.96	0.38 U					
Arochlor-1221	5.2	5.2	0.5	0.0068	0.38 U					
Arochlor-1232	5.2	5.2	0.5	0.0068	0.38 U					
Arochlor-1242	5.2	5.2	0.5	0.034	0.38 U					
Arochlor-1248	1.4	1.4	0.5	0.034	0.38 U					
Arochlor-1254	1.4	1.4	0.5	0.034	0.38 U					
Arochlor-1260	4.3	4.3	0.5	0.034	0.38 U					

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SVOC										
1,2,4-Trichlorobenzene	70	7000	70	8.2	100 U			9.5 U	9.6 U	
1,2-Dichlorobenzene	600	60000	600	370	28 J			9.5 U	9.6 U	
1,3-Dichlorobenzene	600	60000			100 U			9.5 U	9.6 U	
1,4-Dichlorobenzene	75	7500	75	0.43	100 U			9.5 U	9.6 U	
2,4,5-Trichlorophenol	10000	1000000		3700	100 U			9.5 U	9.6 U	
2,4,6-Trichlorophenol	31	31000		6.1	100 U			9.5 U	9.6 U	
2,4-Dichlorophenol	20	2000		110	100 U			9.5 U	9.6 U	
2,4-Dimethylphenol	2000	2000000		730	100 U			9.5 U	9.6 U	
2,4-Dinitrophenol	41	410		73	500 U			48 U	48 U	
2,4-Dinitrotoluene	8.4	8400		73	100 U			9.5 U	9.6 U	
2,6-Dinitrotoluene	100	100000		37	100 U			9.5 U	9.6 U	
2-Chloronaphthalene	8200	8200		2900	100 U			9.5 U	9.6 U	
2-Chlorophenol	40	40		180	100 U			9.5 U	9.6 U	
2-Methylnaphthalene	2000	2000		2.3	100 U			9.5 U	9.6 U	
2-Methylphenol	5100	510000			100 U			9.5 U	9.6 U	
2-Nitroaniline	5.8	5.8		110	500 U			48 U	48 U	
2-Nitrophenol	820	820000			100 U			9.5 U	9.6 U	
3,3'-Dichlorobenzidine	5.8	3100		0.15	500 U			48 U	48 U	
3/4-Methylphenol					150			9.5 U	9.6 U	
3-Nitroaniline	5.8	5.8			500 U			48 U	48 U	
4,6-Dinitro-2-Methylphenol					500 U			48 U	48 U	
4-Bromophenyl phenyl ether					100 U			9.5 U	9.6 U	
4-Chloro-3-Methyl-Phenol	510	510			12 J			9.5 U	9.6 U	
4-Chloroaniline	410	410		0.34	100 U			9.5 U	0.53 J	
4-Chlorodiphenyl Ether					100 U			9.5 U	9.6 U	
4-Nitroaniline	5.8	5.8		3.4	500 U			48 U	48 U	
4-Nitrophenol	60	60000			500 U			48 U	48 U	
Acenaphthene	3800	3800		2200	100 U			9.5 U	9.6 U	
Acenaphthylene	6100	16000			100 U			9.5 U	9.6 U	
Anthracene	66	66		11000	100 U			9.5 U	9.6 U	
Benzo (A) Anthracene	3.6	11	0.2	0.029	100 U			9.5 U	9.6 U	
Benzo (a) Pyrene	0.2	3.8	0.2	0.0029	100 U			9.5 U	9.6 U	
Benzo (b) Fluoranthene	1.2	1.2		0.029	100 U			9.5 U	9.6 U	
Benzo (g,h,i) Perylene	0.26	0.26			100 U			9.5 U	9.6 U	
Benzo (k) Fluoranthene	0.55	0.55		0.29	100 U			9.5 U	9.6 U	
Bis(2-Chloroethoxy) Methane				110	100 U			9.5 U	9.6 U	
Bis(2-Chloroethyl) Ether	0.55	55		0.012	100 U			9.5 U	9.6 U	
Bis(2-Chloroisopropyl) Ether	300	30000			100 U			9.5 U	9.6 U	
Bis(2-Ethylhexyl) Phthalate	6	290	6	4.8	140 WYZ			2.1 J	9.6 U	
Butylbenzylphthalate	2700	2700			100 U			9.5 U	9.6 U	
Carbazole	130	1200			100 U			9.5 U	9.6 U	
Chrysene	1.9	1.9		2.9	100 U			9.5 U	9.6 U	
Dibenzo (a,h) Anthracene	0.36	0.6		0.0029	100 U			9.5 U	9.6 U	
Dibenzofuran					100 U			9.5 U	9.6 U	
Diethylphthalate	5000	1100000		29000	100 U			9.5 U	9.6 U	
Dimethylphthalate					100 U			9.5 U	9.6 U	
Di-n-Butylphthalate	10000	400000			11 J			9.5 U	9.6 U	
Di-n-octylphthalate	2000	3000			100 U			9.5 U	9.6 U	
Fluoranthene	260	260		1500	100 U			9.5 U	9.6 U	
Fluorene	1900	1900		1500	100 U			9.5 U	9.6 U	
Hexachlorobenzene	1	6	1		100 U			9.5 U	9.6 U	
Hexachlorobutadiene	1	1000			100 U			9.5 U	9.6 U	
Hexachlorocyclopentadiene	50	1800	50		500 U			48 U	48 U	
Hexachloroethane	1	100			100 U			9.5 U	9.6 U	
Indeno (1,2,3-cd) Pyrene	3.6	62		0.029	100 U			9.5 U	9.6 U	
Isophorone	100	100000		71	100 U			9.5 U	9.6 U	
Naphthalene	100	10000		0.14	100 U			9.5 U	9.6 U	
Nitrobenzene	51	51000		0.12	100 U			9.5 U	9.6 U	
N-Nitrosodi-N-Propylamine	0.37	370		0.0096	100 U			9.5 U	9.6 U	
N-Nitrosodiphenylamine	530	35000		14	100 U			9.5 U	9.6 U	
Pentachlorophenol	1	1000	1	0.56	500 U			48 U	48 U	
Phenanthrene	1100	1100			100 U			9.5 U	9.6 U	
Phenol	4000	400000		11000	940			9.5 U	9.6 U	
Pyrene	130	130		1100	100 U			9.5 U	9.6 U	

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VOC										
1,1,1,2-Tetrachloroethane	70	7000		0.52	5 U	50 U			50 U	
1,1,1-Trichloroethane	200	2000	200	200	5 U	50 U			50 U	
1,1,2,2-Tetrachloroethane	0.3	30		0.067	5 U	50 U			50 U	
1,1,2-Trichloroethane	5	50	5	5	5 U	50 U			50 U	
1,1-Dichloroethane	110	1100		2.4	1.2 J	14 J			17 J	
1,1-Dichloroethene	7	70	7		5 U	46 J WY			40 J WY	
1,2-Dibromoethane	0.05	5	0.05	0.0065	5 U	50 U			50 U	
1,2-Dichloroethane	5	50	5	0.15	5 U	50 U			50 U	
1,2-Dichloropropane	5	50	5	0.39	5 U	50 U			50 U	
1,4-Dioxane	24	240		6.1	1000 U	10000 U			10000 U	
2-Butanone	4000	400000			13 J	500 U			500 U	
2-Hexanone					50 U	500 U			500 U	
4-Methyl-2-Pentanone	410	41000		2000	50 U	500 U			500 U	
Acetone	10000	100000		22000	120	500 U			500 U	
Acrylonitrile	2.7	270		0.045	100 U	1000 U			1000 U	
Benzene	5	500	5	0.41	5 U	50 U			50 U	
Bromochloromethane	90	90			5 U	50 U			50 U	
Bromodichloromethane	100	100		0.12	5 U	50 U			50 U	
Bromoform	80	8000		8.5	5 U	50 U			50 U	
Bromomethane	10	1000		8.7	5 U	50 U			50 U	
Carbon Disulfide	4100	4100		1000	31	50 U			50 U	
Carbon Tetrachloride	5	50	5	0.2	5 U	50 U			50 U	
Chlorobenzene	100	10000	100	91	5 U	50 U			50 U	
Chlorodibromomethane	80	8000			5 U	50 U			50 U	
Chloroethane	900	90000			5 U	50 U			50 U	
Chloroform	80	800		0.19	5 U	50 U			50 U	
Chloromethane	30	3000		190	5 U	50 U			50 U	
cis-1,2-Dichloroethene	70	700	70		8.4	1200 WXYZ			1100 WXYZ	
cis-1,3-Dichloropropene	26	2600			5 U	50 U			50 U	
Ethylbenzene	700	70000	700	1.5	11	50 U			50 U	
Methyl tert-butyl ether	20	200		12	5 U	50 U			50 U	
Methylene chloride	5	500		4.8	1.4 J	140 B WZ			50 U	
Styrene	100	10000	100	1600	5 U	50 U			50 U	
Tetrachloroethene	5	50	5		0.47 J Z	310 WXYZ			210 WXYZ	
Toluene	1000	100000	1000	2300	5 U	50 U			50 U	
trans-1,2-Dichloroethene	100	1000	100		2.2 J	50 U			50 U	
trans-1,3-Dichloropropene	26	2600			5 U	50 U			50 U	
Trichloroethene	5	50	5		1.1 J Z	570 WXYZ			480 WXYZ	
Vinyl Chloride	2	20	2	0.016	15 WYZ	37 J WXYZ			27 J WXYZ	
Xylenes (Total)	10000	180000	10000	200	1.4 J	150 U			150 U	

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 Used 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 tap water. Per EPA, for certain low-toxicity chemicals, the screening levels exceed possible concentrations at the target risks.