Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	CW-1 6/15/2009	CW-1A 6/15/2009	CW-2 6/15/2009	CW-3 6/15/2009	CW-4 6/15/2009	CW-5 6/15/2009	CW-6 6/16/2009	CW-7 6/16/2009	CW-7A 6/16/2009	CW-8 6/16/2009	CW-9 6/15/2009	CW-13 6/15/2009	CW-15A 6/15/2009	CW-17 6/15/2009
1,4-Dioxane																		
1,4-Dioxane	5.6	24		6.1													99	
Cyanide, Free																		
Cyanide, Free	200	200	200	730														
Cyanide, Total																		
Cyanide, Total	200	200		730														
METAL																		
Antimony	6	6	6	15														
Arsenic	10	10	10	0.045														
Beryllium	4	4	4	73														
Cadmium	5	5	5	18														
Chromium	100	100	100															
Hexavalent Chromium	100	100		110														
Lead	5	5	15															1.1
Mercury	2	2	2	0.57														
Nickel	100	100		730														
METAL (Dissolved)																		
Antimony	6	6	6	15														
Arsenic	10	10	10	0.045														
Beryllium	4	4	4	73														
Cadmium	5	5	5	18														
Chromium	100	100	100															
Hexavalent Chromium	100	100		110														
Lead	5	5	15															0.58 B
Mercury	2	2	2	0.57														
Nickel	100	100		730														
TOTAL VOC																		
					78	52.58	23.26	50.4	105.8	10.82	112.72	8.55	189.1	402.3	1703.9	1370.8	19910	220
VOC																		
1,1,1,2-Tetrachloroethane	70	70		0.52	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
1,1,1-Trichloroethane	200	200	200	9100	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	11	66	14 J	6300	11
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
1,1,2-Trichloroethane	5	5	5	0.24	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
1,1-Dichloroethane	27	110		2.4	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	2.9 J	6.9 J	25 U	110 J	3.2 J
1,1-Dichloroethene	7	7	7	340	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	7.9 J	16 J	12 J	1500	10 U
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
1,2-Dichloroethane	5	5	5	0.15	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
1,2-Dichloropropane	5	5	5	0.39	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
1,4-Dioxane	5.6	24		6.1	400 U	400 U	200 U	200 U	600 U	200 U	400 U	200 U	2000 U	2000 U	5000 U	5000 U	50000 U	2000 U
2-Butanone	4000	4000		7100	20 U	20 U	10 U	10 U	30 U	10 U	20 U	10 U	100 U	100 U	250 U	250 U	2500 U	100 U
2-Hexanone					20 U	20 U	10 U	10 U	30 U	10 U	20 U	10 U	100 U	100 U	250 U	250 U	2500 U	100 U
4-Methyl-2-Pentanone	190	410		2000	20 U	20 U	10 U	10 U	30 U	10 U	20 U	10 U	100 U	100 U	250 U	250 U	2500 U	100 U
Acetone	3700	10000		22000	20 U	20 U	10 U	10 U	30 U	10 U	20 U	10 U	100 U	100 U	250 U	250 U	2500 U	100 U
Acrylonitrile	0.63	2.7		0.045	40 U	40 U	20 U	20 U	60 U	20 U	40 U	20 U	200 U	200 U	500 U	500 U	5000 U	200 U
Benzene	5	5	5	0.41	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Bromochloromethane	90	90			2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Bromodichloromethane	100	100		0.12	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Bromoform	80	80		8.5	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Bromomethane	10	10		8.7	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Carbon Disulfide	1900	4100		1000	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Carbon Tetrachloride	5	5	5	0.2	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Chlorobenzene	100	100	100	91	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Chlorodibromomethane	80	80		0.15	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Chloroethane	230	900		21000	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Chloroform	80	80		0.19	2 U	2 U	1 U	1 U	3 U	0.22 J	2 U	0.67 J	10 U	10 U	25 U	25 U	250 U	10 U
Chloromethane	30	30		190	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
cis-1,2-Dichloroethene	70	70	70	370	12	0.83 J	3.8	27	28	3.6	30	0.29 J	10 U	95	94	500	5600	51

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June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	CW-1 6/15/2009	CW-1A 6/15/2009	CW-2 6/15/2009	CW-3 6/15/2009	CW-4 6/15/2009	CW-5 6/15/2009	CW-6 6/16/2009	CW-7 6/16/2009	CW-7A 6/16/2009	CW-8 6/16/2009	CW-9 6/15/2009	CW-13 6/15/2009	CW-15A 6/15/2009	CW-17 6/15/2009
cis-1,3-Dichloropropene	6.6	26		0.43	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Ethylbenzene	700	700	700	1.5	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Methyl tert-butyl ether	20	20		12	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Methylene chloride	5	5		4.8	2 U	2 U	1 U	1 U	3 U	1 U	0.72 J B	1 U	5.5 J B	4.5 J B	11 J	8.8 J	250 U	3.8 J B
Styrene	100	100	100	1600	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Tetrachloroethene	5	5	5	0.11	2 U	0.75 J	0.46 J	1.4	5.8	3.2	64	0.19 J	3.6 J	21	950	220	1600	41
Toluene	1000	1000	1000	2300	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
trans-1,2-Dichloroethene	100	100	100	110	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
trans-1,3-Dichloropropene	6.6	26		0.43	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	25 U	250 U	10 U
Trichloroethene	5	5	5	1.7	66	51	19	22	72	3.8	18	7.4	180	260	560	600	4800	110
Vinyl Chloride	2	2	2	0.016	2 U	2 U	1 U	1 U	3 U	1 U	2 U	1 U	10 U	10 U	25 U	16 J	250 U	10 U
Xylenes (Total)	10000	10000	10000	200	6 U	6 U	3 U	3 U	9 U	3 U	6 U	3 U	30 U	30 U	75 U	75 U	750 U	30 U

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Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-2 6/24/2009	MW-5 6/18/2009	MW-6 6/16/2009	MW-7 7/7/2009	MW-10 6/30/2009	MW-12 6/23/2009	MW-16S 7/9/2009	MW-17 6/19/2009	MW-18D 7/9/2009	MW-18S 7/9/2009	MW-20D 6/16/2009	MW-20D Dup 6/16/2009	MW-20M 6/19/2009	MW-32D 7/14/2009
1,4-Dioxane																		
1,4-Dioxane	5.6	24		6.1														14
Cyanide, Free																		
Cyanide, Free	200	200	200	730	100 J													
Cyanide, Total																		
Cyanide, Total	200	200		730	980													
METAL																		
Antimony	6	6	6	15											3.6	2.9	0.46 B J	
Arsenic	10	10	10	0.045							1 U				1.2	0.85 B	17.3	
Beryllium	4	4	4	73											0.16 B	0.13 B	9.2	
Cadmium	5	5	5	18														
Chromium	100	100	100					114							13.6 J	14.4 J	52	
Hexavalent Chromium	100	100		110				170 J							50 U	50 U	50 U	
Lead	5	5	15								5.8		0.93 B	1.8	45.6	42	248	
Mercury	2	2	2	0.57														
Nickel	100	100		730											5.5	5.9	181	
METAL (Dissolved)																		
Antimony	6	6	6	15											0.77 B J	0.8 B J	0.33 B J	
Arsenic	10	10	10	0.045							1 U				0.44 B	0.66 B	1 U	
Beryllium	4	4	4	73											1 U	1 U	0.16 B	
Cadmium	5	5	5	18														
Chromium	100	100	100					113							6.5 J	7.6 J	5.9 J	
Hexavalent Chromium	100	100		110				140							50 U	50 U	50 U	
Lead	5	5	15								0.043 B		0.038 B	0.053 B	0.071 B	0.14 B	0.45 B	
Mercury	2	2	2	0.57														
Nickel	100	100		730											3.8	4.1	12.9	
TOTAL VOC																		
					110	4.19	0	1504	530.4	52.1	0	31.83	2594	970	0	0	0	1097
VOC																		
1,1,1,2-Tetrachloroethane	70	70		0.52	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
1,1,1-Trichloroethane	200	200	200	9100	5 U	0.3 J	1 U	59	25 U	2 U		1 U	100 U	50 U				25 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
1,1,2-Trichloroethane	5	5	5	0.24	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
1,1-Dichloroethane	27	110		2.4	5 U	1 U	1 U	12 J	25 U	2 U		1 U	100 U	50 U				11 J
1,1-Dichloroethene	7	7	7	340	5 U	1 U	1 U	59	25 U	2 U		1 U	100 U	50 U				42
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
1,2-Dichloroethane	5	5	5	0.15	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
1,2-Dichloropropane	5	5	5	0.39	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
1,4-Dioxane	5.6	24		6.1	1000 U	200 U	200 U	10000 U	5000 U	400 U		200 U	20000 U	10000 U				5000 U
2-Butanone	4000	4000		7100	50 U	0.77 J	10 U	500 U	250 U	20 U		10 U	1000 U	500 U				250 U
2-Hexanone					50 U	10 U	10 U	500 U	250 U	20 U		10 U	1000 U	500 U				250 U
4-Methyl-2-Pentanone	190	410		2000	50 U	10 U	10 U	500 U	250 U	20 U		10 U	1000 U	500 U				250 U
Acetone	3700	10000		22000	50 U	10 U	10 U	500 U	250 U	20 U		10 U	1000 U	500 U				250 U
Acrylonitrile	0.63	2.7		0.045	100 U	20 U	20 U	1000 U	500 U	40 U		20 U	2000 U	1000 U				500 U
Benzene	5	5	5	0.41	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Bromochloromethane	90	90			5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Bromodichloromethane	100	100		0.12	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Bromoform	80	80		8.5	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Bromomethane	10	10		8.7	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Carbon Disulfide	1900	4100		1000	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Carbon Tetrachloride	5	5	5	0.2	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Chlorobenzene	100	100	100	91	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Chlorodibromomethane	80	80		0.15	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Chloroethane	230	900		21000	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Chloroform	80	80		0.19	5 U	1 U	1 U	50 U	25 U	2 U		0.87 J	100 U	50 U				25 U
Chloromethane	30	30		190	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
cis-1,2-Dichloroethene	70	70	70	370	5 U	2.5	1 U	300	340	2 U		0.45 J	770	300				390

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cis-1,3-Dichloropropene	6.6	26		0.43	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Ethylbenzene	700	700	700	1.5	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Methyl tert-butyl ether	20	20		12	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Methylene chloride	5	5		4.8	5 U	1 U	1 U	54 B	8.4 J	2 U		1 U	100 U	50 U				25 U
Styrene	100	100	100	1600	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Tetrachloroethene	5	5	5	0.11	94	1 U	1 U	270	25 U	2.1		0.51 J	100 U	50 U				26
Toluene	1000	1000	1000	2300	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
trans-1,2-Dichloroethene	100	100	100	110	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
trans-1,3-Dichloropropene	6.6	26		0.43	5 U	1 U	1 U	50 U	25 U	2 U		1 U	100 U	50 U				25 U
Trichloroethene	5	5	5	1.7	16	0.62 J	1 U	750	170	50		30	1800	670				590
Vinyl Chloride	2	2	2	0.016	5 U	1 U	1 U	50 U	12 J	2 U		1 U	24 J	50 U				38
Xylenes (Total)	10000	10000	10000	200	15 U	3 U	3 U	150 U	75 U	6 U		3 U	300 U	150 U				75 U

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1,4-Dioxane																			
1,4-Dioxane	5.6	24		6.1															
Cyanide, Free																			
Cyanide, Free	200	200	200	730															
Cyanide, Total																			
Cyanide, Total	200	200		730															
METAL																			
Antimony	6	6	6	15															
Arsenic	10	10	10	0.045															
Beryllium	4	4	4	73															
Cadmium	5	5	5	18															
Chromium	100	100	100		17.3													4470	
Hexavalent Chromium	100	100		110	50 U													5100	
Lead	5	5	15												62		1		
Mercury	2	2	2	0.57															
Nickel	100	100		730															
METAL (Dissolved)																			
Antimony	6	6	6	15															
Arsenic	10	10	10	0.045															
Beryllium	4	4	4	73															
Cadmium	5	5	5	18															
Chromium	100	100	100		16.2													4440	
Hexavalent Chromium	100	100		110	50 U													4400	
Lead	5	5	15												0.02 B		1 U		
Mercury	2	2	2	0.57															
Nickel	100	100		730															
TOTAL VOC																			
					376	245.8	24.2	215.9	9832	154.9	75.84	278	98.7	0.83	0	310.9	0	453.5	20030
VOC																			
1,1,1,2-Tetrachloroethane	70	70		0.52	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
1,1,1-Trichloroethane	200	200	200	9100	90	2.6 J	1 U	5 U	710	8.3 J	0.64 J	10 U	2 U	1 U	1 U	20 U	1 U	10 U	4900
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
1,1,2-Trichloroethane	5	5	5	0.24	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
1,1-Dichloroethane	27	110		2.4	10 J	5 U	1 U	1.9 J	200 U	10 U	1.3 J	10 U	2 U	1 U	1 U	20 U	1 U	10 U	1600
1,1-Dichloroethene	7	7	7	340	16	4.2 J	0.3 J	3.1 J	72 J	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	11	640
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
1,2-Dichloroethane	5	5	5	0.15	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
1,2-Dichloropropane	5	5	5	0.39	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
1,4-Dioxane	5.6	24		6.1	3000 U	1000 U	200 U	1000 U	40000 U	2000 U	400 U	2000 U	400 U	200 U	200 U	4000 U	200 U	2000 U	80000 U
2-Butanone	4000	4000		7100	150 U	50 U	10 U	50 U	2000 U	100 U	20 U	100 U	20 U	10 U	10 U	200 U	10 U	100 U	4000 U
2-Hexanone					150 U	50 U	10 U	50 U	2000 U	100 U	20 U	100 U	20 U	10 U	10 U	200 U	10 U	100 U	4000 U
4-Methyl-2-Pentanone	190	410		2000	150 U	50 U	10 U	50 U	2000 U	100 U	20 U	100 U	20 U	10 U	10 U	200 U	10 U	100 U	4000 U
Acetone	3700	10000		22000	150 U	50 U	10 U	50 U	2000 U	100 U	20 U	100 U	20 U	10 U	10 U	200 U	10 U	100 U	4000 U
Acrylonitrile	0.63	2.7		0.045	300 U	100 U	20 U	100 U	4000 U	200 U	40 U	200 U	40 U	20 U	20 U	400 U	20 U	200 U	8000 U
Benzene	5	5	5	0.41	15 UJ	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Bromochloromethane	90	90			15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Bromodichloromethane	100	100		0.12	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Bromoform	80	80		8.5	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Bromomethane	10	10		8.7	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Carbon Disulfide	1900	4100		1000	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Carbon Tetrachloride	5	5	5	0.2	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Chlorobenzene	100	100	100	91	15 UJ	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Chlorodibromomethane	80	80		0.15	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Chloroethane	230	900		21000	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Chloroform	80	80		0.19	15 U	5 U	3.5	2.3 J	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Chloromethane	30	30		190	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
cis-1,2-Dichloroethene	70	70	70	370	56	48	4	50	240	11	16	68	26	1 U	1 U	13 J	1 U	110	6800

Note
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J= Organics; estimated. Inorganics; blank contamination.
B= Organics; blank contamination. Inorganics; estimated.
E= Inorganics: matrix interference.

Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-32S 7/6/2009	MW-34D 6/25/2009	MW-34S 6/16/2009	MW-35D 6/25/2009	MW-37D 7/13/2009	MW-37S 7/1/2009	MW-38D 6/18/2009	MW-39D 6/29/2009	MW-39S 6/22/2009	MW-40D 6/19/2009	MW-40S 6/15/2009	MW-43D 6/26/2009	MW-43S 6/16/2009	MW-47 7/15/2009	MW-49D 7/13/2009
cis-1,3-Dichloropropene	6.6	26		0.43	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Ethylbenzene	700	700	700	1.5	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Methyl tert-butyl ether	20	20		12	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Methylene chloride	5	5		4.8	15 U	5 U	1 U	5 U	110 J	3.6 J B	2 U	10 U	2 U	1 U	1 U	20 U	1 U	2.5 J	230 J
Styrene	100	100	100	1600	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Tetrachloroethene	5	5	5	0.11	14 J	21	3.4	7.7	6400	120	1.9 J	10	5.7	1 U	1 U	7.9 J	1 U	70	660
Toluene	1000	1000	1000	2300	15 UJ	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
trans-1,2-Dichloroethene	100	100	100	110	15 U	5 U	1 U	0.9 J	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
trans-1,3-Dichloropropene	6.6	26		0.43	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Trichloroethene	5	5	5	1.7	190	170	13	150	2300	12	56	200	67	0.83 J	1 U	290	1 U	260	5200
Vinyl Chloride	2	2	2	0.016	15 U	5 U	1 U	5 U	200 U	10 U	2 U	10 U	2 U	1 U	1 U	20 U	1 U	10 U	400 U
Xylenes (Total)	10000	10000	10000	200	45 U	15 U	3 U	15 U	600 U	30 U	6 U	30 U	6 U	3 U	3 U	60 U	3 U	30 U	1200 U

Note
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U= Not detected.
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B= Organics; blank contamination. Inorganics; estimated.
E= Inorganics: matrix interference.

Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-49S 7/14/2009	MW-50D 7/14/2009	MW-50S 7/1/2009	MW-51D 7/7/2009	MW-51S 7/1/2009	MW-52 7/13/2009	MW-52 Dup 7/13/2009	MW-54 6/30/2009	MW-55 6/30/2009	MW-64D 7/6/2009	MW-64S 6/30/2009	MW-65D 6/22/2009	MW-66S 7/7/2009	MW-69 7/2/2009	MW-74D 6/25/2009
1,4-Dioxane																			
1,4-Dioxane	5.6	24		6.1	140							58							
Cyanide, Free																			
Cyanide, Free	200	200	200	730					6.6 B J				2.2 B J						
Cyanide, Total																			
Cyanide, Total	200	200		730					12				10 U						
METAL																			
Antimony	6	6	6	15															
Arsenic	10	10	10	0.045	5.8										0.45 B		1 U		
Beryllium	4	4	4	73															
Cadmium	5	5	5	18															
Chromium	100	100	100						304 J							17.3	11.9		
Hexavalent Chromium	100	100		110					410							50 U	50 UJ		
Lead	5	5	15		2.8		2 J			16.1	16.1		5.8 J		0.92 B J		0.82 B		
Mercury	2	2	2	0.57															
Nickel	100	100		730												10.2			
METAL (Dissolved)																			
Antimony	6	6	6	15															
Arsenic	10	10	10	0.045	4.3										1 U		1 U		
Beryllium	4	4	4	73															
Cadmium	5	5	5	18															
Chromium	100	100	100						301							6.2 J	6.2		
Hexavalent Chromium	100	100		110					400							50 U	50 U		
Lead	5	5	15		0.07 B		0.049 B J			0.12 B	0.079 B		0.037 B J		0.05 B J		0.17 B J		
Mercury	2	2	2	0.57															
Nickel	100	100		730												7.1			
TOTAL VOC																			
					8730	9433	223.2	51.36	2413	0	0	926	0	967	366	0	0	60.3	130.3
VOC																			
1,1,1,2-Tetrachloroethane	70	70		0.52	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
1,1,1-Trichloroethane	200	200	200	9100	850	160 J	10 U	1 U	37 J			50 U		50 U	15 U			5 U	1.6 J
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
1,1,2-Trichloroethane	5	5	5	0.24	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
1,1-Dichloroethane	27	110		2.4	800	860	1.9 J	0.55 J	75 U			17 J		50 U	15 U			5 U	5 U
1,1-Dichloroethene	7	7	7	340	390 J	360	3.2 J	2.3	59 J			100		50 U	15 U			5 U	2.3 J
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
1,2-Dichloroethane	5	5	5	0.15	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
1,2-Dichloropropane	5	5	5	0.39	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
1,4-Dioxane	5.6	24		6.1	80000 U	50000 U	2000 U	200 U	15000 U			10000 U		10000 U	3000 U			1000 U	1000 U
2-Butanone	4000	4000		7100	4000 U	2500 U	100 U	10 U	750 U			500 U		500 U	150 U			50 U	50 U
2-Hexanone					4000 U	2500 U	100 U	10 U	750 U			500 U		500 U	150 U			50 U	50 U
4-Methyl-2-Pentanone	190	410		2000	4000 U	2500 U	100 U	10 U	750 U			500 U		500 U	150 U			50 U	50 U
Acetone	3700	10000		22000	4000 U	2500 U	100 U	10 U	750 U			500 U		500 U	150 U			50 U	50 U
Acrylonitrile	0.63	2.7		0.045	8000 U	5000 U	200 U	20 U	1500 U			1000 U		1000 U	300 U			100 U	100 U
Benzene	5	5	5	0.41	400 U	250 U	10 U	1 U	75 U			50 U		50 UJ	15 U			5 U	5 U
Bromochloromethane	90	90			400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Bromodichloromethane	100	100		0.12	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Bromoform	80	80		8.5	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Bromomethane	10	10		8.7	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Carbon Disulfide	1900	4100		1000	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Carbon Tetrachloride	5	5	5	0.2	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Chlorobenzene	100	100	100	91	400 U	250 U	10 U	1 U	75 U			50 U		50 UJ	15 U			5 U	5 U
Chlorodibromomethane	80	80		0.15	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Chloroethane	230	900		21000	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Chloroform	80	80		0.19	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Chloromethane	30	30		190	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
cis-1,2-Dichloroethene	70	70	70	370	4200	3600	110	15	460			140		50 U	15 U			54	52

Note
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Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-49S 7/14/2009	MW-50D 7/14/2009	MW-50S 7/1/2009	MW-51D 7/7/2009	MW-51S 7/1/2009	MW-52 7/13/2009	MW-52 Dup 7/13/2009	MW-54 6/30/2009	MW-55 6/30/2009	MW-64D 7/6/2009	MW-64S 6/30/2009	MW-65D 6/22/2009	MW-66S 7/7/2009	MW-69 7/2/2009	MW-74D 6/25/2009
cis-1,3-Dichloropropene	6.6	26		0.43	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Ethylbenzene	700	700	700	1.5	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Methyl tert-butyl ether	20	20		12	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Methylene chloride	5	5		4.8	400 U	250 U	3.2 J B	1 U	40 J B			20 J		17 J B	6 J			3 J	5 U
Styrene	100	100	100	1600	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Tetrachloroethene	5	5	5	0.11	190 J	590	4.9 J	1.9	950			79		340	120			5 U	5.4
Toluene	1000	1000	1000	2300	400 U	250 U	10 U	0.29 J	75 U			50 U		50 UJ	15 U			5 U	5 U
trans-1,2-Dichloroethene	100	100	100	110	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
trans-1,3-Dichloropropene	6.6	26		0.43	400 U	250 U	10 U	1 U	75 U			50 U		50 U	15 U			5 U	5 U
Trichloroethene	5	5	5	1.7	2300	3800	100	31	840			570		610	240			3.3 J	69
Vinyl Chloride	2	2	2	0.016	400 U	63 J	10 U	0.32 J	27 J			50 U		50 U	15 U			5 U	5 U
Xylenes (Total)	10000	10000	10000	200	1200 U	750 U	30 U	3 U	220 U			150 U		150 U	45 U			15 U	15 U

Note
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Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-74S 6/22/2009	MW-75D 7/13/2009	MW-75S 7/14/2009	MW-77 7/8/2009	MW-79 6/22/2009	MW-81D 7/13/2009	MW-81S 7/13/2009	MW-82 6/23/2009	MW-85 7/1/2009	MW-87 7/9/2009	MW-88 6/26/2009	MW-91 6/25/2009	MW-92 7/8/2009	MW-93D 6/26/2009	MW-93S 6/17/2009
1,4-Dioxane																			
1,4-Dioxane	5.6	24		6.1										19					
Cyanide, Free																			
Cyanide, Free	200	200	200	730					2.1 B J							3.3 B J	14		
Cyanide, Total																			
Cyanide, Total	200	200		730					10 U							25	13		
METAL																			
Antimony	6	6	6	15															
Arsenic	10	10	10	0.045															
Beryllium	4	4	4	73															
Cadmium	5	5	5	18															
Chromium	100	100	100																
Hexavalent Chromium	100	100		110															
Lead	5	5	15											0.52 B					
Mercury	2	2	2	0.57															
Nickel	100	100		730															
METAL (Dissolved)																			
Antimony	6	6	6	15															
Arsenic	10	10	10	0.045															
Beryllium	4	4	4	73															
Cadmium	5	5	5	18															
Chromium	100	100	100																
Hexavalent Chromium	100	100		110															
Lead	5	5	15											1 U					
Mercury	2	2	2	0.57															
Nickel	100	100		730															
TOTAL VOC																			
					86.21	4168	26600	2980	78.3	1243	3483	59.21	54.5	2646	532.1	141.9	289.1	483.5	7.17
VOC																			
1,1,1,2-Tetrachloroethane	70	70		0.52	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
1,1,1-Trichloroethane	200	200	200	9100	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	32 J	7.7 J	10 U	10 U	9.8 J	1 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
1,1,2-Trichloroethane	5	5	5	0.24	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
1,1-Dichloroethane	27	110		2.4	0.68 J	200 U	2000 U	100 U	21	50 U	15 J	0.21 J	5 U	100 U	25 U	10 U	10 U	4.1 J	0.66 J
1,1-Dichloroethene	7	7	7	340	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	40 J	8.4 J	10 U	10 U	6.6 J	1 U
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
1,2-Dichloroethane	5	5	5	0.15	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
1,2-Dichloropropane	5	5	5	0.39	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
1,4-Dioxane	5.6	24		6.1	400 U	40000 U	400000 U	20000 U	800 U	10000 U	25000 U	200 U	1000 U	20000 U	5000 U	2000 U	2000 U	2500 U	200 U
2-Butanone	4000	4000		7100	20 U	2000 U	20000 U	1000 U	40 U	500 U	1200 U	10 U	50 U	1000 U	250 U	100 U	100 U	120 U	10 U
2-Hexanone					20 U	2000 U	20000 U	1000 U	40 U	500 U	1200 U	10 U	50 U	1000 U	250 U	100 U	100 U	120 U	10 U
4-Methyl-2-Pentanone	190	410		2000	20 U	2000 U	20000 U	1000 U	40 U	500 U	1200 U	10 U	50 U	1000 U	250 U	100 U	100 U	120 U	10 U
Acetone	3700	10000		22000	20 U	2000 U	20000 U	1000 U	40 U	500 U	1200 U	10 U	50 U	1000 U	250 U	100 U	100 U	120 U	10 U
Acrylonitrile	0.63	2.7		0.045	40 U	4000 U	40000 U	2000 U	80 U	1000 U	2500 U	20 U	100 U	2000 U	500 U	200 U	200 U	250 U	20 U
Benzene	5	5	5	0.41	2 U	200 U	2000 U	2000	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Bromochloromethane	90	90			2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Bromodichloromethane	100	100		0.12	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Bromoform	80	80		8.5	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Bromomethane	10	10		8.7	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Carbon Disulfide	1900	4100		1000	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Carbon Tetrachloride	5	5	5	0.2	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Chlorobenzene	100	100	100	91	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Chlorodibromomethane	80	80		0.15	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Chloroethane	230	900		21000	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Chloroform	80	80		0.19	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	0.41 J
Chloromethane	30	30		190	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
cis-1,2-Dichloroethene	70	70	70	370	27	68 J	2000 U	100 U	53	230	720	29	53	840	120	10 U	10 U	23	2.9

Note
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B= Organics; blank contamination. Inorganics; estimated.
E= Inorganics: matrix interference.

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June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-74S 6/22/2009	MW-75D 7/13/2009	MW-75S 7/14/2009	MW-77 7/8/2009	MW-79 6/22/2009	MW-81D 7/13/2009	MW-81S 7/13/2009	MW-82 6/23/2009	MW-85 7/1/2009	MW-87 7/9/2009	MW-88 6/26/2009	MW-91 6/25/2009	MW-92 7/8/2009	MW-93D 6/26/2009	MW-93S 6/17/2009
cis-1,3-Dichloropropene	6.6	26		0.43	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Ethylbenzene	700	700	700	1.5	2 U	200 U	2000 U	110	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Methyl tert-butyl ether	20	20		12	2 U	200 U	2000 U	610	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Methylene chloride	5	5		4.8	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	1.5 J B	100 U	25 U	1.9 J	5.1 J	12 U	1 U
Styrene	100	100	100	1600	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Tetrachloroethene	5	5	5	0.11	5.8	2900	20000	100 U	4 U	43 J	48 J	1.6	5 U	34 J	16 J	120	240	200	1.9
Toluene	1000	1000	1000	2300	2 U	200 U	2000 U	100	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
trans-1,2-Dichloroethene	100	100	100	110	0.73 J	200 U	2000 U	100 U	1.6 J	50 U	120 U	1.4	5 U	100 U	25 U	10 U	10 U	12 U	1 U
trans-1,3-Dichloropropene	6.6	26		0.43	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Trichloroethene	5	5	5	1.7	52	1200	6600	100 U	2.7 J	970	2700	27	5 U	1700	380	20	44	240	1.3
Vinyl Chloride	2	2	2	0.016	2 U	200 U	2000 U	100 U	4 U	50 U	120 U	1 U	5 U	100 U	25 U	10 U	10 U	12 U	1 U
Xylenes (Total)	10000	10000	10000	200	6 U	600 U	6000 U	160 J	12 U	150 U	380 U	3 U	15 U	300 U	75 U	30 U	30 U	38 U	3 U

Note
Blank results indicate analyte was not analyzed for.
U= Not detected.
J= Organics; estimated. Inorganics; blank contamination.
B= Organics; blank contamination. Inorganics; estimated.
E= Inorganics: matrix interference.

Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-94 7/8/2009	MW-95 6/23/2009	MW-96D 7/6/2009	MW-96S 7/2/2009	MW-97 7/1/2009	MW-98D 6/17/2009	MW-98I 6/18/2009	MW-98S 6/17/2009	MW-99D 6/25/2009	MW-99S 6/26/2009	MW-100D 7/1/2009	MW-100I 6/30/2009	MW-100S 7/2/2009	MW-101D 6/23/2009
1,4-Dioxane																		
1,4-Dioxane	5.6	24		6.1														
Cyanide, Free																		
Cyanide, Free	200	200	200	730						2.4 B J	4.3 B J	3.1 B J						
Cyanide, Total																		
Cyanide, Total	200	200		730						10 U	7.3 B	9.9 B						
METAL																		
Antimony	6	6	6	15														
Arsenic	10	10	10	0.045	1 U													
Beryllium	4	4	4	73	1 U													
Cadmium	5	5	5	18														
Chromium	100	100	100		10.4 J													
Hexavalent Chromium	100	100		110	50 U													
Lead	5	5	15		0.36 B													
Mercury	2	2	2	0.57														
Nickel	100	100		730	5.9													
METAL (Dissolved)																		
Antimony	6	6	6	15														
Arsenic	10	10	10	0.045	1 U													
Beryllium	4	4	4	73	1 U													
Cadmium	5	5	5	18														
Chromium	100	100	100		4.3													
Hexavalent Chromium	100	100		110	50 U													
Lead	5	5	15		0.14 B													
Mercury	2	2	2	0.57														
Nickel	100	100		730	3.5													
TOTAL VOC																		
					311.2	56.79	378	1620	631.1	0.17	35.16	15.59	111.3	165.3	328.1	353	225.6	48.14
VOC																		
1,1,1,2-Tetrachloroethane	70	70		0.52	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
1,1,1-Trichloroethane	200	200	200	9100	10 U	1 U	25 U	50 U	25 U	1 U	0.39 J	1 U	2.9 J	3.6 J	4.2 J	3.9 J	3 J	1 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
1,1,2-Trichloroethane	5	5	5	0.24	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
1,1-Dichloroethane	27	110		2.4	10 U	0.39 J	25 U	50 U	5.1 J	1 U	0.38 J	0.19 J	5 U	5 U	2.3 J	1.6 J	10 U	0.48 J
1,1-Dichloroethene	7	7	7	340	10 U	1 U	25 U	50 U	25 U	1 U	0.39 J	1 U	3.1 J	2.7 J	5.4 J	4.2 J	3.6 J	0.56 J
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
1,2-Dichloroethane	5	5	5	0.15	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
1,2-Dichloropropane	5	5	5	0.39	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
1,4-Dioxane	5.6	24		6.1	2000 U	200 U	5000 U	10000 U	5000 U	200 U	200 U	200 U	1000 U	1000 U	2000 U	2000 U	2000 U	200 U
2-Butanone	4000	4000		7100	100 U	10 U	250 U	500 U	250 U	10 U	10 U	10 U	50 U	50 U	100 U	100 U	100 U	10 U
2-Hexanone					100 U	10 U	250 U	500 U	250 U	10 U	10 U	10 U	50 U	50 U	100 U	100 U	100 U	10 U
4-Methyl-2-Pentanone	190	410		2000	100 U	10 U	250 U	500 U	250 U	10 U	10 U	10 U	50 U	50 U	100 U	100 U	100 U	10 U
Acetone	3700	10000		22000	100 U	10 U	250 U	500 U	250 U	10 U	10 U	10 U	50 U	50 U	100 U	100 U	100 U	10 U
Acrylonitrile	0.63	2.7		0.045	200 U	20 U	500 U	1000 U	500 U	20 U	20 U	20 U	100 U	100 U	200 U	200 U	200 U	20 U
Benzene	5	5	5	0.41	10 U	1 U	25 UJ	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Bromochloromethane	90	90			10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Bromodichloromethane	100	100		0.12	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Bromoform	80	80		8.5	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Bromomethane	10	10		8.7	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Carbon Disulfide	1900	4100		1000	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Carbon Tetrachloride	5	5	5	0.2	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Chlorobenzene	100	100	100	91	10 U	1 U	25 UJ	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Chlorodibromomethane	80	80		0.15	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Chloroethane	230	900		21000	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Chloroform	80	80		0.19	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1.1
Chloromethane	30	30		190	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
cis-1,2-Dichloroethene	70	70	70	370	180	19	46	53	240	1 U	6.7	1.8	11	28	69	49	40	16

Note
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cis-1,3-Dichloropropene	6.6	26		0.43	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Ethylbenzene	700	700	700	1.5	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Methyl tert-butyl ether	20	20		12	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Methylene chloride	5	5		4.8	2.5 J	1 U	25 U	17 J B	16 J	1 U	1 U	1 U	5 U	5 U	3.2 J B	4.3 J	4 J	1 U
Styrene	100	100	100	1600	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Tetrachloroethene	5	5	5	0.11	5.8 J	3.2	22 J	450	20 J	1 U	5.3	2.6	8.3	11	94	110	65	6
Toluene	1000	1000	1000	2300	10 U	1 U	25 UJ	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
trans-1,2-Dichloroethene	100	100	100	110	2.9 J	0.2 J	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
trans-1,3-Dichloropropene	6.6	26		0.43	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Trichloroethene	5	5	5	1.7	120	34	310	1100	350	0.17 J	22	11	86	120	150	180	110	24
Vinyl Chloride	2	2	2	0.016	10 U	1 U	25 U	50 U	25 U	1 U	1 U	1 U	5 U	5 U	10 U	10 U	10 U	1 U
Xylenes (Total)	10000	10000	10000	200	30 U	3 U	75 U	150 U	75 U	3 U	3 U	3 U	15 U	15 U	30 U	30 U	30 U	3 U

Note
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Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-101D Dup 6/23/2009	MW-101S 6/18/2009	MW-102D 7/2/2009	MW-102D Dup 7/2/2009	MW-102S 6/24/2009	MW-103D 6/23/2009	MW-103S 6/29/2009	MW-104 6/24/2009	MW-105 7/9/2009	MW-106 6/24/2009	MW-107 6/24/2009	MW-108D 6/17/2009	MW-108S 6/22/2009
1,4-Dioxane																	
1,4-Dioxane	5.6	24		6.1													
Cyanide, Free																	
Cyanide, Free	200	200	200	730													
Cyanide, Total																	
Cyanide, Total	200	200		730													
METAL																	
Antimony	6	6	6	15													
Arsenic	10	10	10	0.045													1 U
Beryllium	4	4	4	73													0.19 B
Cadmium	5	5	5	18													1 U
Chromium	100	100	100														
Hexavalent Chromium	100	100		110													
Lead	5	5	15									0.87 B					1.2
Mercury	2	2	2	0.57													
Nickel	100	100		730													5.7
METAL (Dissolved)																	
Antimony	6	6	6	15													
Arsenic	10	10	10	0.045													1 U
Beryllium	4	4	4	73													0.21 B
Cadmium	5	5	5	18													1 U
Chromium	100	100	100														
Hexavalent Chromium	100	100		110													
Lead	5	5	15									1 U					1 U
Mercury	2	2	2	0.57													
Nickel	100	100		730													4.3
TOTAL VOC																	
					33.5	29.91	151.3	130.8	321.79	135.5	336.9	63.88	1623	141.3	38.37	1.68	4.38
VOC																	
1,1,1,2-Tetrachloroethane	70	70		0.52	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	200	9100	1 U	0.46 J	10 U	10 U	97	5 U	5.1 J	1 U	23 J	1.7 J	2.3	1 U	1 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5	5	0.24	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	27	110		2.4	0.3 J	1 U	10 U	10 U	17	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	7	7	7	340	1 U	0.35 J	10 U	10 U	62	5 U	10 U	1 U	50 U	5 U	0.55 J	1 U	1 U
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,2-Dichloroethane	5	5	5	0.15	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	5	5	5	0.39	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
1,4-Dioxane	5.6	24		6.1	200 U	200 U	2000 U	2000 U	600 U	1000 U	2000 U	200 U	10000 U	1000 U	200 U	200 U	200 U
2-Butanone	4000	4000		7100	10 U	10 U	100 U	100 U	30 U	50 U	100 U	10 U	500 U	50 U	10 U	10 U	1.1 J
2-Hexanone					10 U	10 U	100 U	100 U	30 U	50 U	100 U	10 U	500 U	50 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	190	410		2000	10 U	10 U	100 U	100 U	30 U	50 U	100 U	10 U	500 U	50 U	10 U	10 U	10 U
Acetone	3700	10000		22000	10 U	10 U	100 U	100 U	30 U	50 U	100 U	10 U	500 U	50 U	10 U	10 U	3.1 J
Acrylonitrile	0.63	2.7		0.045	20 U	20 U	200 U	200 U	60 U	100 U	200 U	20 U	1000 U	100 U	20 U	20 U	20 U
Benzene	5	5	5	0.41	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Bromochloromethane	90	90			1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Bromodichloromethane	100	100		0.12	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Bromoform	80	80		8.5	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Bromomethane	10	10		8.7	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Carbon Disulfide	1900	4100		1000	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Carbon Tetrachloride	5	5	5	0.2	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Chlorobenzene	100	100	100	91	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Chlorodibromomethane	80	80		0.15	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Chloroethane	230	900		21000	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Chloroform	80	80		0.19	0.9 J	0.9 J	10 U	10 U	3 U	5 U	10 U	0.91 J	50 U	5 U	0.42 J	0.39 J	1 U
Chloromethane	30	30		190	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	70	370	12	3.5	7.6 J	8.5 J	36	3.5 J	10	1.5	120	18	4.1	1 U	1 U

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Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-101D Dup 6/23/2009	MW-101S 6/18/2009	MW-102D 7/2/2009	MW-102D Dup 7/2/2009	MW-102S 6/24/2009	MW-103D 6/23/2009	MW-103S 6/29/2009	MW-104 6/24/2009	MW-105 7/9/2009	MW-106 6/24/2009	MW-107 6/24/2009	MW-108D 6/17/2009	MW-108S 6/22/2009
cis-1,3-Dichloropropene	6.6	26		0.43	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Ethylbenzene	700	700	700	1.5	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	20		12	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Methylene chloride	5	5		4.8	1 U	1 U	6.6 J	3.2 J B	0.79 J	5 U	2.8 J	0.57 J	50 U	1.6 J	1 U	1 U	1 U
Styrene	100	100	100	1600	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Tetrachloroethene	5	5	5	0.11	4.3	3.7	7.1 J	9.1 J	27	12	39	7.9	1200	10	15	0.55 J	1 U
Toluene	1000	1000	1000	2300	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	0.18 J
trans-1,2-Dichloroethene	100	100	100	110	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	6.6	26		0.43	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Trichloroethene	5	5	5	1.7	16	21	130	110	82	120	280	53	280	110	16	0.74 J	1 U
Vinyl Chloride	2	2	2	0.016	1 U	1 U	10 U	10 U	3 U	5 U	10 U	1 U	50 U	5 U	1 U	1 U	1 U
Xylenes (Total)	10000	10000	10000	200	3 U	3 U	30 U	30 U	9 U	15 U	30 U	3 U	150 U	15 U	3 U	3 U	3 U

Note
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Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-109D 6/23/2009	MW-109S 6/26/2009	MW-110 6/24/2009	MW-111 6/29/2009	MW-112 6/19/2009	MW-113 7/6/2009	MW-114 7/15/2009	MW-115 6/30/2009	MW-116 7/8/2009	MW-117 6/23/2009	RW-2 7/16/2009	RW-4 Folk 6/18/2009	RW-5 7/8/2009
1,4-Dioxane																	
1,4-Dioxane	5.6	24		6.1									5.6	1			
Cyanide, Free																	
Cyanide, Free	200	200	200	730				1.8 B J						26 J		2.3 B J	
Cyanide, Total																	
Cyanide, Total	200	200		730				10 U						31		10 U	
METAL																	
Antimony	6	6	6	15													
Arsenic	10	10	10	0.045						1.0 U		5.8					
Beryllium	4	4	4	73													
Cadmium	5	5	5	18													
Chromium	100	100	100														
Hexavalent Chromium	100	100		110													
Lead	5	5	15							0.27 B		5.6 J				6.1 J	
Mercury	2	2	2	0.57						0.20 U							
Nickel	100	100		730													
METAL (Dissolved)																	
Antimony	6	6	6	15													
Arsenic	10	10	10	0.045						1.0 U		5.4					
Beryllium	4	4	4	73													
Cadmium	5	5	5	18													
Chromium	100	100	100														
Hexavalent Chromium	100	100		110													
Lead	5	5	15							1.0 U		0.021 B J				2.3 J	
Mercury	2	2	2	0.57						0.2 U							
Nickel	100	100		730													
TOTAL VOC																	
					219	381	164.1	7.27	9.94	1850	7670	554.5	540.9	39.44	5.38	0.18	2.93
VOC																	
1,1,1,2-Tetrachloroethane	70	70		0.52	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	200	200	9100	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5	5	0.24	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	27	110		2.4	5 U	10 U	5 U	1 U	1 U	100 U	200 U	130	4.9 J	0.39 J	1 U	1 U	1 U
1,1-Dichloroethene	7	7	7	340	5 U	10 U	5 U	1 U	1 U	34 J	200 U	17	25 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	5	5	0.15	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	5	5	0.39	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
1,4-Dioxane	5.6	24		6.1	1000 U	2000 U	1000 U	200 U	200 U	20000 U	40000 U	3000 U	5000 U	200 U	200 U	200 U	200 U
2-Butanone	4000	4000		7100	50 U	100 U	50 U	10 U	10 U	1000 U	2000 U	150 U	250 U	10 U	10 U	10 U	10 U
2-Hexanone					50 U	100 U	50 U	10 U	10 U	1000 U	2000 U	150 U	250 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	190	410		2000	50 U	100 U	50 U	10 U	10 U	1000 U	2000 U	150 U	250 U	10 U	10 U	10 U	10 U
Acetone	3700	10000		22000	50 U	100 U	50 U	10 U	10 U	1000 U	2000 U	150 U	250 U	10 U	10 U	10 U	10 U
Acrylonitrile	0.63	2.7		0.045	100 U	200 U	100 U	20 U	20 U	2000 U	4000 U	300 U	500 U	20 U	20 U	20 U	20 U
Benzene	5	5	5	0.41	100	200	5 U	1 U	1 U	100 UJ	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Bromochloromethane	90	90			5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Bromodichloromethane	100	100		0.12	5 U	10 U	5 U	1 U	0.59 J	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Bromoform	80	80		8.5	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Bromomethane	10	10		8.7	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Carbon Disulfide	1900	4100		1000	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	5	5	0.2	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	100	100	91	5 U	10 U	5 U	1 U	1 U	100 UJ	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	80		0.15	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Chloroethane	230	900		21000	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Chloroform	80	80		0.19	5 U	10 U	1.1 J	1 U	2.9	100 U	200 U	15 U	25 U	0.65 J	1.3	0.18 J	1 U
Chloromethane	30	30		190	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	70	370	5 U	10 U	5 U	1.1	0.25 J	660	2400	290	370	12	1 U	1 U	1.4

Note
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Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	MW-109D 6/23/2009	MW-109S 6/26/2009	MW-110 6/24/2009	MW-111 6/29/2009	MW-112 6/19/2009	MW-113 7/6/2009	MW-114 7/15/2009	MW-115 6/30/2009	MW-116 7/8/2009	MW-117 6/23/2009	RW-2 7/16/2009	RW-4 Folk 6/18/2009	RW-5 7/8/2009
cis-1,3-Dichloropropene	6.6	26		0.43	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	700	700	1.5	10	25	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	20		12	27	26	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Methylene chloride	5	5		4.8	5 U	10 U	1 J	1 U	1 U	36 J B	100 J	15 U	8 J	1 U	1 U	1 U	1 U
Styrene	100	100	100	1600	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	5	5	0.11	5 U	10 U	63	0.66 J	1 U	20 J	970	4.8 J	39	4.4	0.18 J	1 U	0.23 J
Toluene	1000	1000	1000	2300	5 U	10 U	5 U	1 U	1 U	100 UJ	200 U	15 U	25 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	100	110	5 U	10 U	5 U	1 U	1 U	100 U	200 U	3.5 J	25 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	6.6	26		0.43	5 U	10 U	5 U	1 U	1 U	100 U	200 U	15 U	25 U	1 U	1 U	1 U	1 U
Trichloroethene	5	5	5	1.7	5 U	10 U	99	4.9	6.2	1100	4200	9.2 J	100	22	3.9	1 U	1.3
Vinyl Chloride	2	2	2	0.016	5 U	10 U	5 U	1 U	1 U	100 U	200 U	100	19 J	1 U	1 U	1 U	1 U
Xylenes (Total)	10000	10000	10000	200	82	130	15 U	0.61 J	3 U	300 U	600 U	45 U	75 U	3 U	3 U	3 U	3 U

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Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	Spring at Bldg 14 S1 6/24/2009	Spring at Bldg 14 S2 6/24/2009	TATE (S-6) 6/26/2009	HERMAN (S-7) 6/26/2009
1,4-Dioxane								
1,4-Dioxane	5.6	24		6.1				
Cyanide, Free								
Cyanide, Free	200	200	200	730			2.3 B J	1.8 B J
Cyanide, Total								
Cyanide, Total	200	200		730			10 U	10 U
METAL								
Antimony	6	6	6	15	15.4 J			
Arsenic	10	10	10	0.045				
Beryllium	4	4	4	73				
Cadmium	5	5	5	18				
Chromium	100	100	100					
Hexavalent Chromium	100	100		110				
Lead	5	5	15		30.4	0.033 B		
Mercury	2	2	2	0.57				
Nickel	100	100		730				
METAL (Dissolved)								
Antimony	6	6	6	15	15.2			
Arsenic	10	10	10	0.045				
Beryllium	4	4	4	73				
Cadmium	5	5	5	18				
Chromium	100	100	100					
Hexavalent Chromium	100	100		110				
Lead	5	5	15		1.3	0.81 B		
Mercury	2	2	2	0.57				
Nickel	100	100		730				
TOTAL VOC								
					0	0	0.91	0.84
VOC								
1,1,1,2-Tetrachloroethane	70	70		0.52			1 U	1 U
1,1,1-Trichloroethane	200	200	200	9100			1 U	1 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067			1 U	1 U
1,1,2-Trichloroethane	5	5	5	0.24			1 U	1 U
1,1-Dichloroethane	27	110		2.4			1 U	1 U
1,1-Dichloroethene	7	7	7	340			1 U	1 U
1,2-Dibromoethane	0.05	0.05	0.05	0.0065			1 U	1 U
1,2-Dichloroethane	5	5	5	0.15			1 U	1 U
1,2-Dichloropropane	5	5	5	0.39			1 U	1 U
1,4-Dioxane	5.6	24		6.1			200 U	200 U
2-Butanone	4000	4000		7100			10 U	10 U
2-Hexanone							10 U	10 U
4-Methyl-2-Pentanone	190	410		2000			10 U	10 U
Acetone	3700	10000		22000			10 U	10 U
Acrylonitrile	0.63	2.7		0.045			20 U	20 U
Benzene	5	5	5	0.41			1 U	1 U
Bromochloromethane	90	90					1 U	1 U
Bromodichloromethane	100	100		0.12			1 U	1 U
Bromoform	80	80		8.5			1 U	1 U
Bromomethane	10	10		8.7			1 U	1 U
Carbon Disulfide	1900	4100		1000			1 U	1 U
Carbon Tetrachloride	5	5	5	0.2			1 U	1 U
Chlorobenzene	100	100	100	91			1 U	1 U
Chlorodibromomethane	80	80		0.15			1 U	1 U
Chloroethane	230	900		21000			1 U	1 U
Chloroform	80	80		0.19			0.91 J	0.84 J
Chloromethane	30	30		190			1 U	1 U
cis-1,2-Dichloroethene	70	70	70	370			1 U	1 U

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Table A-2
Groundwater Quality Analyses Summary
June 2009 Key Well Sampling Event
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	Spring at Bldg 14 S1 6/24/2009	Spring at Bldg 14 S2 6/24/2009	TATE (S-6) 6/26/2009	HERMAN (S-7) 6/26/2009
cis-1,3-Dichloropropene	6.6	26		0.43			1 U	1 U
Ethylbenzene	700	700	700	1.5			1 U	1 U
Methyl tert-butyl ether	20	20		12			1 U	1 U
Methylene chloride	5	5		4.8			1 U	1 U
Styrene	100	100	100	1600			1 U	1 U
Tetrachloroethene	5	5	5	0.11			1 U	1 U
Toluene	1000	1000	1000	2300			1 U	1 U
trans-1,2-Dichloroethene	100	100	100	110			1 U	1 U
trans-1,3-Dichloropropene	6.6	26		0.43			1 U	1 U
Trichloroethene	5	5	5	1.7			1 U	1 U
Vinyl Chloride	2	2	2	0.016			1 U	1 U
Xylenes (Total)	10000	10000	10000	200			3 U	3 U

Note
Blank results indicate analyte was not analyzed for.
U= Not detected.
J= Organics; estimated. Inorganics; blank contamination.
B= Organics; blank contamination. Inorganics; estimated.
E= Inorganics: matrix interference.