

# HW-48

## EPA Validated Data Summary Report

### Dimock Residential Sampling

Sample Date: 2/8/2012

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW48z	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW48	1-Propanol	10,000.00 U ug/L					
HW48z	1-Propanol	10,000.00 U ug/L					
HW48	2-Butanol	10,000.00 U ug/L					
HW48z	2-Butanol	10,000.00 U ug/L					
HW48	Ethanol	10,000.00 U ug/L					
HW48z	Ethanol	10,000.00 U ug/L					
HW48	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW48z	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW48	Anionic Surfactants	0.01 U mg/L					
HW48z	Anionic Surfactants	0.02 mg/L					
HW48	Heterotrophic Plate Count	R cfu/1mL					
HW48z	Heterotrophic Plate Count	R cfu/1mL					
HW48	Total Coliform Bacteria	1.00 U cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW48z	Total Coliform Bacteria	1.00 U cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW48	Ethane	1.20 U ug/L					
HW48z	Ethane	1.20 U ug/L					
HW48	Ethene	1.10 U ug/L					
HW48z	Ethene	1.10 U ug/L					
HW48	Methane	1.20 U ug/L	28,000.00 ug/L				
HW48z	Methane	1.20 U ug/L	28,000.00 ug/L				
HW48	2-Butoxyethanol	5.00 U ug/L					
HW48z	2-Butoxyethanol	5.00 U ug/L					

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	2-Methoxyethanol	10.00	U ug/L	78.00 ug/L				
HW48	2-Methoxyethanol		R ug/L	78.00 ug/L				
HW48z	2-Methoxyethanol	10.00	U ug/L	78.00 ug/L				
HW48z	2-Methoxyethanol		R ug/L	78.00 ug/L				
HW48	Diethylene Glycol	25.00	U ug/L	8,000.00 ug/L				
HW48z	Diethylene Glycol	25.00	U ug/L	8,000.00 ug/L				
HW48	Ethylene Glycol	10.00	U mg/L	31,000.00 ug/L				
HW48z	Ethylene Glycol	10.00	U mg/L	31,000.00 ug/L				
HW48	Tetraethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW48z	Tetraethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW48	Triethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW48z	Triethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW48	Bromide	0.50	U mg/L					
HW48z	Bromide	0.50	U mg/L					
HW48	Chloride	1.56	mg/L			250.00 mg/L		250.00 mg/L
HW48z	Chloride	1.57	mg/L			250.00 mg/L		250.00 mg/L
HW48	Fluoride	0.10	U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW48z	Fluoride	0.10	U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW48	Sulfate	11.10	mg/L			250.00 mg/L		250.00 mg/L
HW48z	Sulfate	11.20	mg/L			250.00 mg/L		250.00 mg/L
HW48	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW48-F	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW48z	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW48z-F	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW48	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW48-F	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW48z	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW48z-F	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW48	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48-F	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW48z	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW48z-F	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW48	Arsenic	1.10	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW48-F	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW48z	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW48z-F	Arsenic	1.00	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW48	Barium	39.00	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW48-F	Barium	39.00	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW48z	Barium	39.10	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW48z-F	Barium	37.40	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW48	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW48-F	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW48z	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW48z-F	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW48	Boron	50.00	U ug/L	3,100.00 ug/L				
HW48-F	Boron	50.00	U ug/L	3,100.00 ug/L				
HW48z	Boron	50.00	U ug/L	3,100.00 ug/L				
HW48z-F	Boron	50.00	U ug/L	3,100.00 ug/L				
HW48	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW48-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW48z	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW48z-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW48	Calcium	31,700.00	ug/L					
HW48-F	Calcium	31,500.00	ug/L					
HW48z	Calcium	31,600.00	ug/L					
HW48z-F	Calcium	31,800.00	ug/L					
HW48	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW48-F	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW48z-F	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW48	Cobalt	1.00	U ug/L	4.70 ug/L				
HW48-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW48z	Cobalt	1.00	U ug/L	4.70 ug/L				
HW48z-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW48	Copper	5.80	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW48-F	Copper	4.50	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW48z	Copper	6.50	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW48z-F	Copper	4.30	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW48	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW48-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW48z	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW48z-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW48	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW48-F	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW48z	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW48z-F	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW48	Lithium	200.00	U ug/L	31.00 ug/L				
HW48-F	Lithium	200.00	U ug/L	31.00 ug/L				
HW48z	Lithium	200.00	U ug/L	31.00 ug/L				
HW48z-F	Lithium	200.00	U ug/L	31.00 ug/L				
HW48	Magnesium	4,500.00	ug/L					
HW48-F	Magnesium	4,470.00	ug/L					
HW48z	Magnesium	4,490.00	ug/L					
HW48z-F	Magnesium	4,510.00	ug/L					
HW48	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW48-F	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW48z	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z-F	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW48	Nickel	1.30	ug/L	300.00 ug/L				
HW48-F	Nickel	1.30	ug/L	300.00 ug/L				
HW48z	Nickel	1.30	ug/L	300.00 ug/L				
HW48z-F	Nickel	1.20	ug/L	300.00 ug/L				
HW48	Potassium	2,000.00	U ug/L					
HW48-F	Potassium	2,000.00	U ug/L					
HW48z	Potassium	2,000.00	U ug/L					
HW48z-F	Potassium	2,000.00	U ug/L					
HW48	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW48-F	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW48z	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW48z-F	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW48	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW48-F	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW48z	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW48z-F	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW48	Sodium	6,660.00	ug/L	20,000.00 ug/L				
HW48-F	Sodium	6,630.00	ug/L	20,000.00 ug/L				
HW48z	Sodium	6,680.00	ug/L	20,000.00 ug/L				
HW48z-F	Sodium	6,660.00	ug/L	20,000.00 ug/L				
HW48	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW48-F	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW48z	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW48z-F	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW48	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW48-F	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW48z	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW48z-F	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	Tin	200.00	U ug/L	9,300.00 ug/L				
HW48-F	Tin	200.00	U ug/L	9,300.00 ug/L				
HW48z	Tin	200.00	U ug/L	9,300.00 ug/L				
HW48z-F	Tin	200.00	U ug/L	9,300.00 ug/L				
HW48	Titanium	200.00	U ug/L					
HW48-F	Titanium	200.00	U ug/L					
HW48z	Titanium	200.00	U ug/L					
HW48z-F	Titanium	200.00	U ug/L					
HW48	Uranium	2.00	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW48-F	Uranium	2.10	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW48z	Uranium	2.10	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW48z-F	Uranium	1.90	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW48	Vanadium	5.00	U ug/L	78.00 ug/L				
HW48-F	Vanadium	5.00	U ug/L	78.00 ug/L				
HW48z	Vanadium	5.00	U ug/L	78.00 ug/L				
HW48z-F	Vanadium	5.00	U ug/L	78.00 ug/L				
HW48	Zinc	2.00	U ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW48-F	Zinc	2.00	U ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW48z	Zinc	2.00	U ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW48z-F	Zinc	2.00	U ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW48	Oil and Grease	5.20	UJ mg/L					
HW48z	Oil and Grease	5.20	UJ mg/L					
HW48	Total Dissolved Solids	154.00	U mg/L			500.00 mg/L		500.00 mg/L
HW48z	Total Dissolved Solids	154.00	U mg/L			500.00 mg/L		500.00 mg/L
HW48	Total Suspended Solids	10.00	U mg/L					
HW48z	Total Suspended Solids	10.00	U mg/L					
HW48	1-Methylnaphthalene	4.76	U ug/L	97.00 ug/L				
HW48z	1-Methylnaphthalene	4.76	U ug/L	97.00 ug/L				
HW48	Acenaphthene	4.76	U ug/L	400.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Acenaphthene	4.76 U ug/L	400.00 ug/L				
HW48	Acenaphthylene	4.76 U ug/L					
HW48z	Acenaphthylene	4.76 U ug/L					
HW48	Acetophenone	4.76 U ug/L	1,500.00 ug/L				
HW48z	Acetophenone	4.76 U ug/L	1,500.00 ug/L				
HW48	Anthracene	4.76 U ug/L	1,300.00 ug/L				
HW48z	Anthracene	4.76 U ug/L	1,300.00 ug/L				
HW48	Atrazine	4.76 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW48z	Atrazine	4.76 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW48	Benzo(a)anthracene	4.76 U ug/L	2.90 ug/L				
HW48z	Benzo(a)anthracene	4.76 U ug/L	2.90 ug/L				
HW48	Benzo(a)pyrene	4.76 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW48z	Benzo(a)pyrene	4.76 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW48	Biphenyl	4.76 U ug/L					
HW48z	Biphenyl	4.76 U ug/L					
HW48	Bromophenyl-4 Phenyl Ether	4.76 U ug/L					
HW48z	Bromophenyl-4 Phenyl Ether	4.76 U ug/L					
HW48	Butylbenzyl phthalate	4.76 U ug/L	1,400.00 ug/L				
HW48z	Butylbenzyl phthalate	4.76 U ug/L	1,400.00 ug/L				
HW48	Caprolactam	4.76 U ug/L	7,700.00 ug/L				
HW48z	Caprolactam	4.76 U ug/L	7,700.00 ug/L				
HW48	Carbazole	4.76 U ug/L					
HW48z	Carbazole	4.76 U ug/L					
HW48	Chlorobenzenamine-4	4.76 UJ ug/L	3.20 ug/L				
HW48z	Chlorobenzenamine-4	4.76 UJ ug/L	3.20 ug/L				
HW48	Chloronaphthalene-2	4.76 U ug/L	550.00 ug/L				
HW48z	Chloronaphthalene-2	4.76 U ug/L	550.00 ug/L				
HW48	Chlorophenol-2	4.76 U ug/L	71.00 ug/L				
HW48z	Chlorophenol-2	4.76 U ug/L	71.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	Chlorophenyl-4 phenyl ether	4.76 U ug/L					
HW48z	Chlorophenyl-4 phenyl ether	4.76 U ug/L					
HW48	Chrysene	4.76 U ug/L	290.00 ug/L				
HW48z	Chrysene	4.76 U ug/L	290.00 ug/L				
HW48	Cresol, parachloro meta-	4.76 U ug/L					
HW48z	Cresol, parachloro meta-	4.76 U ug/L					
HW48	Cresol-4,6-dinitro-ortho	9.52 UJ ug/L					
HW48z	Cresol-4,6-dinitro-ortho	9.52 UJ ug/L					
HW48	Cresol-o	4.76 U ug/L	720.00 ug/L				
HW48z	Cresol-o	4.76 U ug/L	720.00 ug/L				
HW48	Cresol-p	4.76 U ug/L	72.00 ug/L				
HW48z	Cresol-p	4.76 U ug/L	72.00 ug/L				
HW48	Dibenz(a,h)anthracene	4.76 U ug/L	0.29 ug/L				
HW48z	Dibenz(a,h)anthracene	4.76 U ug/L	0.29 ug/L				
HW48	Dibenzofuran	4.76 U ug/L					
HW48z	Dibenzofuran	4.76 U ug/L					
HW48	Dichlorobenzidine-3,3'	R ug/L	11.00 ug/L				
HW48z	Dichlorobenzidine-3,3'	R ug/L	11.00 ug/L				
HW48	Dichlorophenol-2,4	4.76 U ug/L	35.00 ug/L				
HW48z	Dichlorophenol-2,4	4.76 U ug/L	35.00 ug/L				
HW48	Dimethylphenol, 2,4-	4.76 U ug/L	270.00 ug/L				
HW48z	Dimethylphenol, 2,4-	4.76 U ug/L	270.00 ug/L				
HW48	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW48z	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW48	Dinitrotoluene-2,4	4.76 U ug/L					
HW48z	Dinitrotoluene-2,4	4.76 U ug/L					
HW48	Dinitrotoluene-2,6	4.76 U ug/L					
HW48z	Dinitrotoluene-2,6	4.76 U ug/L					
HW48	Ether, bis(2-chloroethyl)	4.76 U ug/L	1.20 ug/L				



Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Ether, bis(2-chloroethyl)	4.76 U ug/L	1.20 ug/L				
HW48	Ether-bis(2-chloroisopropyl)	4.76 U ug/L					
HW48z	Ether-bis(2-chloroisopropyl)	4.76 U ug/L					
HW48	Fluoranthene	4.76 U ug/L	630.00 ug/L				
HW48z	Fluoranthene	4.76 U ug/L	630.00 ug/L				
HW48	Fluoranthene benzo(k)	4.76 U ug/L	29.00 ug/L				
HW48z	Fluoranthene benzo(k)	4.76 U ug/L	29.00 ug/L				
HW48	Fluoranthene-benzo(b)	4.76 U ug/L	5.60 ug/L				
HW48z	Fluoranthene-benzo(b)	4.76 U ug/L	5.60 ug/L				
HW48	Fluorene	4.76 U ug/L	220.00 ug/L				
HW48z	Fluorene	4.76 U ug/L	220.00 ug/L				
HW48	Hexachlorobenzene	4.76 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW48z	Hexachlorobenzene	4.76 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW48	Hexachlorobutadiene	4.76 U ug/L	26.00 ug/L				
HW48	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW48z	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW48z	Hexachlorobutadiene	4.76 U ug/L	26.00 ug/L				
HW48	Hexachlorocyclopentadiene	4.76 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW48z	Hexachlorocyclopentadiene	4.76 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW48	Hexachloroethane	4.76 U ug/L	5.10 ug/L				
HW48z	Hexachloroethane	4.76 U ug/L	5.10 ug/L				
HW48	Isophorone	4.76 U ug/L	6,700.00 ug/L				
HW48z	Isophorone	4.76 U ug/L	6,700.00 ug/L				
HW48	Methane, bis(2-chloroethoxy)	4.76 U ug/L	47.00 ug/L				
HW48z	Methane, bis(2-chloroethoxy)	4.76 U ug/L	47.00 ug/L				
HW48	Methylnaphthalene-2	4.76 U ug/L	27.00 ug/L				
HW48z	Methylnaphthalene-2	4.76 U ug/L	27.00 ug/L				
HW48	Naphthalene	0.50 U ug/L	14.00 ug/L				
HW48	Naphthalene	4.76 U ug/L	14.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Naphthalene	4.76	U ug/L	14.00 ug/L				
HW48z	Naphthalene	0.50	U ug/L	14.00 ug/L				
HW48	Nitroaniline, ortho	4.76	U ug/L	150.00 ug/L				
HW48z	Nitroaniline, ortho	4.76	U ug/L	150.00 ug/L				
HW48	Nitroaniline-3	4.76	U ug/L					
HW48z	Nitroaniline-3	4.76	U ug/L					
HW48	Nitrobenzenamine-4	4.76	U ug/L	61.00 ug/L				
HW48z	Nitrobenzenamine-4	4.76	U ug/L	61.00 ug/L				
HW48	Nitrobenzene	4.76	U ug/L	12.00 ug/L				
HW48z	Nitrobenzene	4.76	U ug/L	12.00 ug/L				
HW48	Nitrophenol-2	4.76	U ug/L					
HW48z	Nitrophenol-2	4.76	U ug/L					
HW48	Nitrophenol-4	9.52	U ug/L					
HW48z	Nitrophenol-4	9.52	U ug/L					
HW48	Nitrosodimethylamine-n	4.76	U ug/L	0.04 ug/L				
HW48z	Nitrosodimethylamine-n	4.76	U ug/L	0.04 ug/L				
HW48	Nitrosodiphenylamine-n	4.76	U ug/L	1,000.00 ug/L				
HW48z	Nitrosodiphenylamine-n	4.76	U ug/L	1,000.00 ug/L				
HW48	Pentachlorophenol	4.76	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW48z	Pentachlorophenol	4.76	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW48	Perylene-benzo(ghi)	4.76	U ug/L					
HW48z	Perylene-benzo(ghi)	4.76	U ug/L					
HW48	Phenanthrene	4.76	U ug/L					
HW48z	Phenanthrene	4.76	U ug/L					
HW48	Phenol	4.76	U ug/L	4,500.00 ug/L				
HW48z	Phenol	4.76	U ug/L	4,500.00 ug/L				
HW48	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76	U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW48z	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76	U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW48	Phthalate, Dimethyl	4.76	U ug/L	1,400.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Phthalate, Dimethyl	4.76	U ug/L	1,400.00 ug/L				
HW48	Phthalate, di-n-butyl-	4.76	U ug/L	670.00 ug/L				
HW48z	Phthalate, di-n-butyl-	4.76	U ug/L	670.00 ug/L				
HW48	Phthalate, di-n-octyl	4.76	U ug/L					
HW48z	Phthalate, di-n-octyl	4.76	U ug/L					
HW48	Phthalate-diethyl	4.76	U ug/L	11,000.00 ug/L				
HW48z	Phthalate-diethyl	4.76	U ug/L	11,000.00 ug/L				
HW48	Propylamine,n-nitroso di-n-	4.76	U ug/L	0.93 ug/L				
HW48z	Propylamine,n-nitroso di-n-	4.76	U ug/L	0.93 ug/L				
HW48	Pyrene	4.76	U ug/L	87.00 ug/L				
HW48z	Pyrene	4.76	U ug/L	87.00 ug/L				
HW48	Pyrene-indeno(1,2,3-cd)	4.76	U ug/L	3.00 ug/L				
HW48z	Pyrene-indeno(1,2,3-cd)	4.76	U ug/L	3.00 ug/L				
HW48	Tetrachlorobenzene, 1,2,4,5-	4.76	U ug/L	1.20 ug/L				
HW48z	Tetrachlorobenzene, 1,2,4,5-	4.76	U ug/L	1.20 ug/L				
HW48	Tetrachlorophenol, 2,3,4,6-	4.76	U ug/L	170.00 ug/L				
HW48z	Tetrachlorophenol, 2,3,4,6-	4.76	U ug/L	170.00 ug/L				
HW48	Trichlorophenol-2,4,5	4.76	U ug/L	890.00 ug/L				
HW48z	Trichlorophenol-2,4,5	4.76	U ug/L	890.00 ug/L				
HW48	Trichlorophenol-2,4,6	4.76	U ug/L	9.04 ug/L				
HW48z	Trichlorophenol-2,4,6	4.76	U ug/L	9.04 ug/L				
HW48	TPH - Diesel Range Organics	250.00	U ug/L					
HW48z	TPH - Diesel Range Organics	250.00	U ug/L					
HW48	TPH - Gasoline Range Organics	50.00	U ug/L					
HW48z	TPH - Gasoline Range Organics	50.00	U ug/L					
HW48	TPH - Oil Range Organics	1,000.00	U ug/L					
HW48z	TPH - Oil Range Organics	1,000.00	U ug/L					
HW48	1,2-Dibromo-3-chloropropane (DBCP)	0.50	U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW48z	1,2-Dibromo-3-chloropropane (DBCP)	0.50	U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW48z	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW48	Acetone	2.00 U ug/L					
HW48z	Acetone	2.00 U ug/L					
HW48	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48z	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48	Bromobenzene	0.50 U ug/L					
HW48z	Bromobenzene	0.50 U ug/L					
HW48	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48z	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48	Butylbenzene	0.50 U ug/L					
HW48z	Butylbenzene	0.50 U ug/L					
HW48	Butylbenzene, sec-	0.50 U ug/L					
HW48z	Butylbenzene, sec-	0.50 U ug/L					
HW48	Butylbenzene, tert-	0.50 U ug/L					
HW48z	Butylbenzene, tert-	0.50 U ug/L					
HW48	Carbon disulfide	0.50 U ug/L					
HW48z	Carbon disulfide	0.50 U ug/L					
HW48	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48z	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW48z	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW48	Chlorobromomethane	0.50 U ug/L					
HW48z	Chlorobromomethane	0.50 U ug/L					
HW48	Chloroethane	0.50 U ug/L					
HW48z	Chloroethane	0.50 U ug/L					
HW48	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48z	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48	Chlorotoluene	0.50 U ug/L	180.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW48	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW48z	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW48	Cyclohexane	0.50 U ug/L					
HW48z	Cyclohexane	0.50 U ug/L					
HW48	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48z	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW48z	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW48	Dibromomethane	0.50 U ug/L					
HW48z	Dibromomethane	0.50 U ug/L					
HW48	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW48z	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW48	Dichlorobenzene-1,3	0.50 U ug/L					
HW48z	Dichlorobenzene-1,3	0.50 U ug/L					
HW48	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW48z	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW48	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48z	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW48	Dichlorodifluoromethane	0.50 U ug/L					
HW48z	Dichlorodifluoromethane	0.50 U ug/L					
HW48	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW48z	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW48	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW48z	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW48	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW48z	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW48	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW48z	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW48z	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW48	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW48z	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW48	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW48z	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW48	Dichloropropane, 2,2-	0.50 U ug/L					
HW48z	Dichloropropane, 2,2-	0.50 U ug/L					
HW48	Dichloropropene, 1,1-	0.50 U ug/L					
HW48z	Dichloropropene, 1,1-	0.50 U ug/L					
HW48	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW48z	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW48	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW48z	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW48	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW48z	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW48	Freon 113	0.50 U ug/L					
HW48z	Freon 113	0.50 U ug/L					
HW48	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				
HW48z	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				
HW48	Isopropylbenzene	0.50 U ug/L					
HW48z	Isopropylbenzene	0.50 U ug/L					
HW48	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW48z	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW48	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW48z	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW48	Methyl acetate	0.50 U ug/L					
HW48z	Methyl acetate	0.50 U ug/L					
HW48	Methyl bromide	0.50 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48z	Methyl bromide	0.50 U ug/L					
HW48	Methyl chloride	0.50 U ug/L					
HW48z	Methyl chloride	0.50 U ug/L					
HW48	Methyl cyclohexane	0.50 U ug/L					
HW48z	Methyl cyclohexane	0.50 U ug/L					
HW48	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW48z	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW48	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW48z	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW48	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48z	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48	Propylbenzene-n	0.50 U ug/L					
HW48z	Propylbenzene-n	0.50 U ug/L					
HW48	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW48z	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW48	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW48z	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW48	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW48z	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW48	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48z	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW48z	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW48	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW48z	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW48	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW48z	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW48	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW48z	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW48	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW48z	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW48	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48z	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW48	Trichlorofluoromethane	0.50 U ug/L					
HW48z	Trichlorofluoromethane	0.50 U ug/L					
HW48	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW48z	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW48	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW48z	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW48	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW48z	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW48	Vinyl acetate	0.50 U ug/L					
HW48z	Vinyl acetate	0.50 U ug/L					
HW48	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW48z	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW48	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW48z	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW48	Nitrogen, Nitrite + Nitrate	0.37 mg/L		10.00 mg/L		10.00 mg/L	
HW48z	Nitrogen, Nitrite + Nitrate	0.37 mg/L		10.00 mg/L		10.00 mg/L	
HW48	Total Nitrogen	1.00 U mg/L					
HW48z	Total Nitrogen	1.00 U mg/L					
HW48	Total Phosphorus as P	0.05 U mg/L					
HW48z	Total Phosphorus as P	0.05 U mg/L					



Sample Number – Code that is used to identify the particular sample. See additional information below:

HW## – Identifies the sample location and indicates that it was collected at well head or closest point to the well head.

F – Indicates that the sample was filtered following collection. The purpose of filtering the sample is to remove any particulates in order to find what metals are actually dissolved in the water sample.

Z – Identifies a duplicate sample. Duplicate samples are collected for every ten samples collected to test the reproducibility of sampling and analytical procedures.

P – Indicates that the sample was collected at the kitchen tap. In some cases this may be following any treatment that the residence may have.

A/B – Designates which residence the sample was collected for sample locations with multiple residences using the same water source (may be a well or a spring).

RO – Indicated that the sample was collected from a residence containing a reverse osmosis treatment system.

N – Designates that the sample was collected from the new well for locations with multiple wells.

Analyte – General term for a substance in the sample. The lab does testing to find specific analytes, or substance in the water sample. The report lists each analyte that the lab tested for and what amounts were found.

TPH - Total Petroleum Hydrocarbons

Result and Units – identifies the actual result for the particular analyte and the measurement used for the particular type of sample. The results may include the following units for the various water sample analyses:

µg /L – Micrograms per liter (abbreviated as µg /L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per billion or ppb. Drinking water results are usually reported in µg /L.

mg/L – Milligrams per liter (abbreviated as mg/L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per million or ppm.

cfu/100 mL – Total Coliform Bacteria results are reported as colony forming units (cfu) per milliliters of water. Coliform bacteria is not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present.

cfu/1mL – Heterotrophic Plate Count Bacteria (HPC) are reported as colony forming units (cfu) per milliliter of water. HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.

Absent or Present – Fecal Coliform Bacteria are reported as either being Absent or Present. Fecal Coliform Bacteria are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches,

Trigger Level – established for this project, the trigger levels are based on risk-based screening levels and/or standards for public water supplies. A yellow highlighted result represents an analytical result greater than the established trigger level. Results exceeding a trigger level are referred to an EPA toxicologist for further review.

EPA Primary MCLs – the primary maximum contaminant levels (MCLs) are legally enforceable standards established under the Safe Drinking Water Act to protect public health by limiting the levels of contaminants in public drinking water systems. The MCL is the amount of an analyte (substance) that can be present in a water sample that the government considers acceptable to drink. EPA considers the MCLs when evaluating results from residential drinking water wells.

EPA Secondary MCLs - secondary MCLs are non-enforceable standards regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to public water systems, but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

DEP MCLs (Primary and Secondary) – Chapter 109, Pennsylvania Safe Drinking Water Regulations, defines MCL as the maximum permissible level of a contaminant in water which is delivered to a user of a public water system, and includes the primary and secondary MCLs established under the Federal Safe Drinking Water Act, and MCLs adopted under the act.

\* No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or E. coli if two consecutive TC-positive samples, and one is also positive for E.coli fecal coliforms, system has an acute MCL violation.

\*\* EPA has not established an MCL for lead or copper. Lead and copper are regulated by a Treatment Technique that requires public drinking water systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water system must take additional steps. For lead, the action level is 15 ug/L, and for copper is 1,300 ug/L.

\*\*\* The DEP Primary MCLs for lead (5 ug/L) and copper (1,000 ug/L) are applicable only to bottled, vended, retail and bulk water hauling systems, otherwise the DEP uses the federal action levels for lead (15 ug/L), and for copper (1,300 ug/L).

Validation Result Qualifiers - EPA performs a quality check on the lab results. After this quality check, EPA may mark the measurement of certain analytes with a qualifier to give additional information about the measurement. This information can apply to 1) how certain EPA is that the lab detected the analyte and 2) how certain EPA is of the measurement of the analyte once detected. If there is no qualifier by the result, the detection and measurement of the analyte are certain

U – Indicates that the analyte was not detected. If there is a number next to the U, this number is the amount of analyte that would have to be present to be detected by the lab given the particular method and/or instrumentation.

J – This means that the analyte was detected, but the value of the result is an estimate.

UJ - The U before the J means that the analyte was not detected in the sample, but this result may be inaccurate. Some analyte may be present.

R – Indicates that the data has been rejected. For glycol analyses, data with detected concentrations above the Method Detection Limit (MDL) and less than the Reporting Limit (RL) were rejected due to the laboratory not using a second column and/or gas chromatography with mass spectrometry to confirm the identity of the compound listed. For Heterotrophic Plate Count analysis, data were rejected if the laboratory did not run a method blank (i.e. sterility control) for each series of samples plated to determine whether the test samples could have been contaminated during analysis. For semivolatile organic compound analysis, non-detect data have been rejected due to low recoveries of required method quality control checks.

MDL – Is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the concentration of the substance is greater than zero.

RL – Is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions, typically set at the lowest standard in the calibration curve