

HW-21

EPA Validated Data Summary Report

Dimock Residential Sampling

Sample Date: 2/9/2012

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW21	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW21z	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW21	1-Propanol	10,000.00 U ug/L					
HW21z	1-Propanol	10,000.00 U ug/L					
HW21	2-Butanol	10,000.00 U ug/L					
HW21z	2-Butanol	10,000.00 U ug/L					
HW21	Ethanol	10,000.00 U ug/L					
HW21z	Ethanol	10,000.00 U ug/L					
HW21	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW21z	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW21	Anionic Surfactants	0.01 U mg/L					
HW21z	Anionic Surfactants	0.01 U mg/L					
HW21	Heterotrophic Plate Count	R cfu/1mL					
HW21z	Heterotrophic Plate Count	R cfu/1mL					
HW21	Total Coliform Bacteria	1.00 U cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW21z	Total Coliform Bacteria	1.00 U cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW21	Ethane	1.20 U ug/L					
HW21z	Ethane	1.20 U ug/L					
HW21	Ethene	1.10 U ug/L					
HW21z	Ethene	1.10 U ug/L					
HW21	Methane	19.00 ug/L	28,000.00 ug/L				
HW21z	Methane	8.20 ug/L	28,000.00 ug/L				
HW21	2-Butoxyethanol	5.00 U ug/L					
HW21z	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
HW21	2-Methoxyethanol	10.00	U ug/L	78.00 ug/L				
HW21	2-Methoxyethanol		R ug/L	78.00 ug/L				
HW21z	2-Methoxyethanol	10.00	U ug/L	78.00 ug/L				
HW21z	2-Methoxyethanol		R ug/L	78.00 ug/L				
HW21	Diethylene Glycol	25.00	U ug/L	8,000.00 ug/L				
HW21z	Diethylene Glycol	25.00	U ug/L	8,000.00 ug/L				
HW21	Ethylene Glycol	10.00	U mg/L	31,000.00 ug/L				
HW21z	Ethylene Glycol	10.00	U mg/L	31,000.00 ug/L				
HW21	Tetraethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW21z	Tetraethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW21	Triethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW21z	Triethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW21	Bromide	0.50	U mg/L					
HW21z	Bromide	0.50	U mg/L					
HW21	Chloride	14.60	mg/L			250.00 mg/L		250.00 mg/L
HW21z	Chloride	14.70	mg/L			250.00 mg/L		250.00 mg/L
HW21	Fluoride	0.10	U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW21z	Fluoride	0.10	U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW21	Sulfate	11.20	mg/L			250.00 mg/L		250.00 mg/L
HW21z	Sulfate	11.30	mg/L			250.00 mg/L		250.00 mg/L
HW21	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW21-F	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW21z	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW21z-F	Mercury	0.20	U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW21	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW21-F	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW21z	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW21z-F	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW21	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
HW21-F	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW21z	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW21z-F	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW21	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW21-F	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW21z	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW21z-F	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW21	Barium	31.80	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW21-F	Barium	32.50	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW21z	Barium	30.80	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW21z-F	Barium	30.10	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW21	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW21-F	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW21z	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW21z-F	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW21	Boron	50.00	U ug/L	3,100.00 ug/L				
HW21-F	Boron	50.00	U ug/L	3,100.00 ug/L				
HW21z	Boron	50.00	U ug/L	3,100.00 ug/L				
HW21z-F	Boron	50.00	U ug/L	3,100.00 ug/L				
HW21	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW21-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW21z	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW21z-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW21	Calcium	18,600.00	ug/L					
HW21-F	Calcium	18,200.00	ug/L					
HW21z	Calcium	18,500.00	ug/L					
HW21z-F	Calcium	18,600.00	ug/L					
HW21	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW21-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
HW21z	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW21z-F	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW21	Cobalt	1.00	U ug/L	4.70 ug/L				
HW21-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW21z	Cobalt	1.00	U ug/L	4.70 ug/L				
HW21z-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW21	Copper	6.40	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW21-F	Copper	4.80	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW21z	Copper	7.50	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW21z-F	Copper	4.70	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW21	Iron	366.00	ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW21-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW21z	Iron	365.00	ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW21z-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW21	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW21-F	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW21z	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW21z-F	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW21	Lithium	200.00	U ug/L	31.00 ug/L				
HW21-F	Lithium	200.00	U ug/L	31.00 ug/L				
HW21z	Lithium	200.00	U ug/L	31.00 ug/L				
HW21z-F	Lithium	200.00	U ug/L	31.00 ug/L				
HW21	Magnesium	2,450.00	ug/L					
HW21-F	Magnesium	2,390.00	ug/L					
HW21z	Magnesium	2,430.00	ug/L					
HW21z-F	Magnesium	2,460.00	ug/L					
HW21	Manganese	7.30	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW21-F	Manganese	4.10	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW21z	Manganese	7.20	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
HW21z-F	Manganese	3.80	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW21	Nickel	1.00 U	ug/L	300.00 ug/L				
HW21-F	Nickel	1.00 U	ug/L	300.00 ug/L				
HW21z	Nickel	1.00 U	ug/L	300.00 ug/L				
HW21z-F	Nickel	1.00 U	ug/L	300.00 ug/L				
HW21	Potassium	2,000.00 U	ug/L					
HW21-F	Potassium	2,000.00 U	ug/L					
HW21z	Potassium	2,000.00 U	ug/L					
HW21z-F	Potassium	2,000.00 U	ug/L					
HW21	Selenium	5.00 U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW21-F	Selenium	5.00 U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW21z	Selenium	5.00 U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW21z-F	Selenium	5.00 U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW21	Silver	1.00 U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW21-F	Silver	1.00 U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW21z	Silver	1.00 U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW21z-F	Silver	1.00 U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW21	Sodium	9,770.00	ug/L	20,000.00 ug/L				
HW21-F	Sodium	9,580.00	ug/L	20,000.00 ug/L				
HW21z	Sodium	9,770.00	ug/L	20,000.00 ug/L				
HW21z-F	Sodium	9,790.00	ug/L	20,000.00 ug/L				
HW21	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW21-F	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW21z	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW21z-F	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW21	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW21-F	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW21z	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW21z-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
HW21	Tin	200.00	U ug/L	9,300.00 ug/L				
HW21-F	Tin	200.00	U ug/L	9,300.00 ug/L				
HW21z	Tin	200.00	U ug/L	9,300.00 ug/L				
HW21z-F	Tin	200.00	U ug/L	9,300.00 ug/L				
HW21	Titanium	200.00	U ug/L					
HW21-F	Titanium	200.00	U ug/L					
HW21z	Titanium	200.00	U ug/L					
HW21z-F	Titanium	200.00	U ug/L					
HW21	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW21-F	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW21z	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW21z-F	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW21	Vanadium	5.00	U ug/L	78.00 ug/L				
HW21-F	Vanadium	5.00	U ug/L	78.00 ug/L				
HW21z	Vanadium	5.00	U ug/L	78.00 ug/L				
HW21z-F	Vanadium	5.00	U ug/L	78.00 ug/L				
HW21	Zinc	9.30	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW21-F	Zinc	7.70	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW21z	Zinc	11.70	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW21z-F	Zinc	7.60	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW21	Oil and Grease	5.30	UJ mg/L					
HW21z	Oil and Grease	5.20	UJ mg/L					
HW21	Total Dissolved Solids	83.00	mg/L			500.00 mg/L		500.00 mg/L
HW21z	Total Dissolved Solids	94.00	mg/L			500.00 mg/L		500.00 mg/L
HW21	Total Suspended Solids	10.00	U mg/L					
HW21z	Total Suspended Solids	10.00	U mg/L					
HW21	1-Methylnaphthalene	5.00	U ug/L	97.00 ug/L				
HW21z	1-Methylnaphthalene	R	ug/L	97.00 ug/L				
HW21	Acenaphthene	5.00	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
HW21z	Acenaphthene	R	ug/L	400.00 ug/L				
HW21	Acenaphthylene	5.00 U	ug/L					
HW21z	Acenaphthylene	R	ug/L					
HW21	Acetophenone	5.00 U	ug/L	1,500.00 ug/L				
HW21z	Acetophenone	R	ug/L	1,500.00 ug/L				
HW21	Anthracene	5.00 U	ug/L	1,300.00 ug/L				
HW21z	Anthracene	R	ug/L	1,300.00 ug/L				
HW21	Atrazine	5.00 U	ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW21z	Atrazine	R	ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW21	Benzo(a)anthracene	5.00 U	ug/L	2.90 ug/L				
HW21z	Benzo(a)anthracene	R	ug/L	2.90 ug/L				
HW21	Benzo(a)pyrene	5.00 U	ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW21z	Benzo(a)pyrene	R	ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW21	Biphenyl	5.00 U	ug/L					
HW21z	Biphenyl	R	ug/L					
HW21	Bromophenyl-4 Phenyl Ether	5.00 U	ug/L					
HW21z	Bromophenyl-4 Phenyl Ether	R	ug/L					
HW21	Butylbenzyl phthalate	5.00 U	ug/L	1,400.00 ug/L				
HW21z	Butylbenzyl phthalate	R	ug/L	1,400.00 ug/L				
HW21	Caprolactam	5.00 U	ug/L	7,700.00 ug/L				
HW21z	Caprolactam	R	ug/L	7,700.00 ug/L				
HW21	Carbazole	5.00 U	ug/L					
HW21z	Carbazole	R	ug/L					
HW21	Chlorobenzenamine-4	5.00 UJ	ug/L	3.20 ug/L				
HW21z	Chlorobenzenamine-4	R	ug/L	3.20 ug/L				
HW21	Chloronaphthalene-2	5.00 U	ug/L	550.00 ug/L				
HW21z	Chloronaphthalene-2	R	ug/L	550.00 ug/L				
HW21	Chlorophenol-2	5.00 U	ug/L	71.00 ug/L				
HW21z	Chlorophenol-2	R	ug/L	71.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW21	Chlorophenyl-4 phenyl ether	5.00 U ug/L					
HW21z	Chlorophenyl-4 phenyl ether	R ug/L					
HW21	Chrysene	5.00 U ug/L	290.00 ug/L				
HW21z	Chrysene	R ug/L	290.00 ug/L				
HW21	Cresol, parachloro meta-	5.00 U ug/L					
HW21z	Cresol, parachloro meta-	R ug/L					
HW21	Cresol-4,6-dinitro-ortho	10.00 UJ ug/L					
HW21z	Cresol-4,6-dinitro-ortho	R ug/L					
HW21	Cresol-o	5.00 U ug/L	720.00 ug/L				
HW21z	Cresol-o	R ug/L	720.00 ug/L				
HW21	Cresol-p	5.00 U ug/L	72.00 ug/L				
HW21z	Cresol-p	R ug/L	72.00 ug/L				
HW21	Dibenz(a,h)anthracene	5.00 U ug/L	0.29 ug/L				
HW21z	Dibenz(a,h)anthracene	R ug/L	0.29 ug/L				
HW21	Dibenzofuran	5.00 U ug/L					
HW21z	Dibenzofuran	R ug/L					
HW21	Dichlorobenzidine-3,3'	R ug/L	11.00 ug/L				
HW21z	Dichlorobenzidine-3,3'	R ug/L	11.00 ug/L				
HW21	Dichlorophenol-2,4	5.00 U ug/L	35.00 ug/L				
HW21z	Dichlorophenol-2,4	R ug/L	35.00 ug/L				
HW21	Dimethylphenol, 2,4-	5.00 U ug/L	270.00 ug/L				
HW21z	Dimethylphenol, 2,4-	R ug/L	270.00 ug/L				
HW21	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW21z	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW21	Dinitrotoluene-2,4	5.00 U ug/L					
HW21z	Dinitrotoluene-2,4	R ug/L					
HW21	Dinitrotoluene-2,6	5.00 U ug/L					
HW21z	Dinitrotoluene-2,6	R ug/L					
HW21	Ether, bis(2-chloroethyl)	5.00 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
HW21z	Ether, bis(2-chloroethyl)	R ug/L	1.20 ug/L				
HW21	Ether-bis(2-chloroisopropyl)	5.00 U ug/L					
HW21z	Ether-bis(2-chloroisopropyl)	R ug/L					
HW21	Fluoranthene	5.00 U ug/L	630.00 ug/L				
HW21z	Fluoranthene	R ug/L	630.00 ug/L				
HW21	Fluoranthene benzo(k)	5.00 U ug/L	29.00 ug/L				
HW21z	Fluoranthene benzo(k)	R ug/L	29.00 ug/L				
HW21	Fluoranthene-benzo(b)	5.00 U ug/L	5.60 ug/L				
HW21z	Fluoranthene-benzo(b)	R ug/L	5.60 ug/L				
HW21	Fluorene	5.00 U ug/L	220.00 ug/L				
HW21z	Fluorene	R ug/L	220.00 ug/L				
HW21	Hexachlorobenzene	5.00 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW21z	Hexachlorobenzene	R ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW21	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW21	Hexachlorobutadiene	5.00 U ug/L	26.00 ug/L				
HW21z	Hexachlorobutadiene	R ug/L	26.00 ug/L				
HW21z	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW21	Hexachlorocyclopentadiene	5.00 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW21z	Hexachlorocyclopentadiene	R ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW21	Hexachloroethane	5.00 U ug/L	5.10 ug/L				
HW21z	Hexachloroethane	R ug/L	5.10 ug/L				
HW21	Isophorone	5.00 U ug/L	6,700.00 ug/L				
HW21z	Isophorone	R ug/L	6,700.00 ug/L				
HW21	Methane, bis(2-chloroethoxy)	5.00 U ug/L	47.00 ug/L				
HW21z	Methane, bis(2-chloroethoxy)	R ug/L	47.00 ug/L				
HW21	Methylnaphthalene-2	5.00 U ug/L	27.00 ug/L				
HW21z	Methylnaphthalene-2	R ug/L	27.00 ug/L				
HW21	Naphthalene	5.00 U ug/L	14.00 ug/L				
HW21	Naphthalene	0.50 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
HW21z	Naphthalene	0.50	U ug/L	14.00 ug/L				
HW21z	Naphthalene		R ug/L	14.00 ug/L				
HW21	Nitroaniline, ortho	5.00	U ug/L	150.00 ug/L				
HW21z	Nitroaniline, ortho		R ug/L	150.00 ug/L				
HW21	Nitroaniline-3	5.00	U ug/L					
HW21z	Nitroaniline-3		R ug/L					
HW21	Nitrobenzenamine-4	5.00	U ug/L	61.00 ug/L				
HW21z	Nitrobenzenamine-4		R ug/L	61.00 ug/L				
HW21	Nitrobenzene	5.00	U ug/L	12.00 ug/L				
HW21z	Nitrobenzene		R ug/L	12.00 ug/L				
HW21	Nitrophenol-2	5.00	U ug/L					
HW21z	Nitrophenol-2		R ug/L					
HW21	Nitrophenol-4	10.00	U ug/L					
HW21z	Nitrophenol-4		R ug/L					
HW21	Nitrosodimethylamine-n	5.00	U ug/L	0.04 ug/L				
HW21z	Nitrosodimethylamine-n		R ug/L	0.04 ug/L				
HW21	Nitrosodiphenylamine-n	5.00	U ug/L	1,000.00 ug/L				
HW21z	Nitrosodiphenylamine-n		R ug/L	1,000.00 ug/L				
HW21	Pentachlorophenol	5.00	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW21z	Pentachlorophenol		R ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW21	Perylene-benzo(ghi)	5.00	U ug/L					
HW21z	Perylene-benzo(ghi)		R ug/L					
HW21	Phenanthrene	5.00	U ug/L					
HW21z	Phenanthrene		R ug/L					
HW21	Phenol	5.00	U ug/L	4,500.00 ug/L				
HW21z	Phenol		R ug/L	4,500.00 ug/L				
HW21	Phthalate, bis(2-ethylhexyl) (DEHP)	5.00	U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW21z	Phthalate, bis(2-ethylhexyl) (DEHP)		R ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW21	Phthalate, Dimethyl	5.00	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
HW21z	Phthalate, Dimethyl	R	ug/L	1,400.00 ug/L				
HW21	Phthalate, di-n-butyl-	5.00 U	ug/L	670.00 ug/L				
HW21z	Phthalate, di-n-butyl-	R	ug/L	670.00 ug/L				
HW21	Phthalate, di-n-octyl	5.00 U	ug/L					
HW21z	Phthalate, di-n-octyl	R	ug/L					
HW21	Phthalate-diethyl	5.00 U	ug/L	11,000.00 ug/L				
HW21z	Phthalate-diethyl	R	ug/L	11,000.00 ug/L				
HW21	Propylamine,n-nitroso di-n-	5.00 U	ug/L	0.93 ug/L				
HW21z	Propylamine,n-nitroso di-n-	R	ug/L	0.93 ug/L				
HW21	Pyrene	5.00 U	ug/L	87.00 ug/L				
HW21z	Pyrene	R	ug/L	87.00 ug/L				
HW21	Pyrene-indeno(1,2,3-cd)	5.00 U	ug/L	3.00 ug/L				
HW21z	Pyrene-indeno(1,2,3-cd)	R	ug/L	3.00 ug/L				
HW21	Tetrachlorobenzene, 1,2,4,5-	5.00 U	ug/L	1.20 ug/L				
HW21z	Tetrachlorobenzene, 1,2,4,5-	R	ug/L	1.20 ug/L				
HW21	Tetrachlorophenol, 2,3,4,6-	5.00 U	ug/L	170.00 ug/L				
HW21z	Tetrachlorophenol, 2,3,4,6-	R	ug/L	170.00 ug/L				
HW21	Trichlorophenol-2,4,5	5.00 U	ug/L	890.00 ug/L				
HW21z	Trichlorophenol-2,4,5	R	ug/L	890.00 ug/L				
HW21	Trichlorophenol-2,4,6	5.00 U	ug/L	9.04 ug/L				
HW21z	Trichlorophenol-2,4,6	R	ug/L	9.04 ug/L				
HW21	TPH - Diesel Range Organics	250.00 U	ug/L					
HW21z	TPH - Diesel Range Organics	250.00 U	ug/L					
HW21	TPH - Gasoline Range Organics	50.00 U	ug/L					
HW21z	TPH - Gasoline Range Organics	50.00 U	ug/L					
HW21	TPH - Oil Range Organics	1,000.00 U	ug/L					
HW21z	TPH - Oil Range Organics	1,000.00 U	ug/L					
HW21	1,2-Dibromo-3-chloropropane (DBCP)	0.50 U	ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW21z	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
HW21	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW21z	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW21	Acetone	2.00 U ug/L					
HW21z	Acetone	2.00 U ug/L					
HW21	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21z	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21	Bromobenzene	0.50 U ug/L					
HW21z	Bromobenzene	0.50 U ug/L					
HW21	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21z	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21	Butylbenzene	0.50 U ug/L					
HW21z	Butylbenzene	0.50 U ug/L					
HW21	Butylbenzene, sec-	0.50 U ug/L					
HW21z	Butylbenzene, sec-	0.50 U ug/L					
HW21	Butylbenzene, tert-	0.50 U ug/L					
HW21z	Butylbenzene, tert-	0.50 U ug/L					
HW21	Carbon disulfide	0.50 U ug/L					
HW21z	Carbon disulfide	0.50 U ug/L					
HW21	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21z	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW21z	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW21	Chlorobromomethane	0.50 U ug/L					
HW21z	Chlorobromomethane	0.50 U ug/L					
HW21	Chloroethane	0.50 U ug/L					
HW21z	Chloroethane	0.50 U ug/L					
HW21	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21z	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21	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
HW21z	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW21	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW21z	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW21	Cyclohexane	0.50 U ug/L					
HW21z	Cyclohexane	0.50 U ug/L					
HW21	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21z	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW21z	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW21	Dibromomethane	0.50 U ug/L					
HW21z	Dibromomethane	0.50 U ug/L					
HW21	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW21z	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW21	Dichlorobenzene-1,3	0.50 U ug/L					
HW21z	Dichlorobenzene-1,3	0.50 U ug/L					
HW21	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW21z	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW21	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21z	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW21	Dichlorodifluoromethane	0.50 U ug/L					
HW21z	Dichlorodifluoromethane	0.50 U ug/L					
HW21	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW21z	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW21	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW21z	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW21	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW21z	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW21	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW21z	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
HW21	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW21z	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW21	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW21z	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW21	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW21z	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW21	Dichloropropane, 2,2-	0.50 U ug/L					
HW21z	Dichloropropane, 2,2-	0.50 U ug/L					
HW21	Dichloropropene, 1,1-	0.50 U ug/L					
HW21z	Dichloropropene, 1,1-	0.50 U ug/L					
HW21	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW21z	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW21	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW21z	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW21	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW21z	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW21	Freon 113	0.50 U ug/L					
HW21z	Freon 113	0.50 U ug/L					
HW21	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				
HW21z	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				
HW21	Isopropylbenzene	0.50 U ug/L					
HW21z	Isopropylbenzene	0.50 U ug/L					
HW21	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW21z	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW21	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW21z	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW21	Methyl acetate	0.50 U ug/L					
HW21z	Methyl acetate	0.50 U ug/L					
HW21	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
HW21z	Methyl bromide	0.50 U ug/L					
HW21	Methyl chloride	0.50 U ug/L					
HW21z	Methyl chloride	0.50 U ug/L					
HW21	Methyl cyclohexane	0.50 U ug/L					
HW21z	Methyl cyclohexane	0.50 U ug/L					
HW21	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW21z	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW21	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW21z	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW21	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21z	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21	Propylbenzene-n	0.50 U ug/L					
HW21z	Propylbenzene-n	0.50 U ug/L					
HW21	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW21z	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW21	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW21z	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW21	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW21z	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW21	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21z	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW21z	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW21	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW21z	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW21	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW21z	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW21	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW21z	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
HW21	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW21z	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW21	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21z	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW21	Trichlorofluoromethane	0.50 U ug/L					
HW21z	Trichlorofluoromethane	0.50 U ug/L					
HW21	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW21z	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW21	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW21z	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW21	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW21z	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW21	Vinyl acetate	0.50 U ug/L					
HW21z	Vinyl acetate	0.50 U ug/L					
HW21	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW21z	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW21	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW21z	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW21	Nitrogen, Nitrite + Nitrate	0.58 mg/L		10.00 mg/L		10.00 mg/L	
HW21z	Nitrogen, Nitrite + Nitrate	0.58 mg/L		10.00 mg/L		10.00 mg/L	
HW21	Total Nitrogen	1.00 U mg/L					
HW21z	Total Nitrogen	1.00 U mg/L					
HW21	Total Phosphorus as P	0.05 U mg/L					
HW21z	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