

WEST VIRGINIA
Department of



BUREAU FOR PUBLIC HEALTH

Certification Number: **9906 C**

Date Issued: **January 01, 2018**

Expiration Date: **December 31, 2018**

Office of Laboratory Services
Environmental Drinking Water Laboratory Certification Program

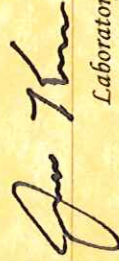
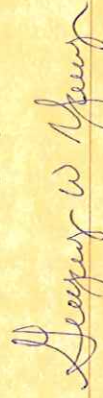
Certifies that

Eurofins Lancaster Laboratories Environmental, LLC
2425 New Holland Pike
Lancaster, PA 17601

Having duly met the requirements of the regulation (64CSR 3-13) for the Certification of Laboratories Analyzing Drinking Water
Is hereby approved as a

State Certified Drinking Water Laboratory

To perform the analyses as indicated on the Certified Parameter List which must accompany this certificate


Laboratory Director
Associate Director of Environmental Programs

Surrender Upon Revocation
Certificate Not Transferable
Customers are urged to verify the laboratory's current certification status.
Conspicuously display in the laboratory with the Certified Parameter List in a location on the premises visible to the public.

Not Valid Unless Embossed



BUREAU FOR PUBLIC HEALTH

Office of Laboratory Services
Environmental Drinking Water Laboratory Certification Program

LABORATORY CERTIFIED PARAMETER LIST

Eurofins Lancaster Laboratories Environmental, LLC
2425 New Holland Pike
Lancaster, PA 17601

Certificate: **9906 C**
Issue Date: **1/1/2018**
Expiration Date: **12/31/2018**

Certification reciprocity certificate

State of Pennsylvania Laboratory ID 36-00037

Group: Trace Metals

	Method	Status	Description
Antimony	US EPA 200.8 R 5.4	Certified	
Arsenic	US EPA 200.8 R 5.4	Certified	
Barium	US EPA 200.8 R 5.4	Certified	
Barium	US EPA 200.7 R 4.4	Certified	
Beryllium	US EPA 200.8 R 5.4	Certified	
Cadmium	US EPA 200.8 R 5.4	Certified	
Chromium	US EPA 200.7 R 4.4	Certified	
Chromium	US EPA 200.8 R 5.4	Certified	
Copper	US EPA 200.8 R 5.4	Certified	
Copper	US EPA 200.7 R 4.4	Certified	
Lead	US EPA 200.8 R 5.4	Certified	
Mercury	US EPA 245.1 R 3.0	Certified	
Nickel	US EPA 200.8 R 5.4	Certified	
Nickel	US EPA 200.7 R 4.4	Certified	
Selenium	US EPA 200.8 R 5.4	Certified	
Sodium	US EPA 200.7 R 4.4	Certified	
Thallium	US EPA 200.8 R 5.4	Certified	

Group: Inorganics

	Method	Status	Description
Cyanide	US EPA 335.4 R 1.0	Certified	
Fluoride	US EPA 300.0 R 2.1	Certified	
Fluoride	SM4500F C 20th ED	Certified	
Nitrate-N	US EPA 353.2 R 2.0	Certified	
Nitrate-N	US EPA 300.0 R 2.1	Certified	
Nitrite-N	US EPA 300.0 R 2.1	Certified	
Nitrite-N	US EPA 353.2 R 2.0	Certified	
Total Nitrate-Nitrite	US EPA 353.2 R 2.0	Certified	

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State of Pennsylvania Laboratory ID 36-00037

Group: Organics, Pesticides

	Method	Status	Description
Alachlor	US EPA 525.2 R 2.0	Certified	
Aldicarb	US EPA 531.1 R 3.1	Certified	
Aldicarb Sulfone	US EPA 531.1 R 3.1	Certified	
Aldicarb Sulfoxide	US EPA 531.1 R 3.1	Certified	
Atrazine	US EPA 525.2 R 2.0	Certified	
Carbofuran	US EPA 531.1 R 3.1	Certified	
Endrin	US EPA 525.2 R 2.0	Certified	
Heptachlor	US EPA 525.2 R 2.0	Certified	
Heptachlor Epoxide	US EPA 525.2 R 2.0	Certified	
Hexachlorobenzene	US EPA 525.2 R 2.0	Certified	
Hexachlorocyclopentadiene	US EPA 525.2 R 2.0	Certified	
Lindane	US EPA 525.2 R 2.0	Certified	
Methoxychlor	US EPA 525.2 R 2.0	Certified	
Oxamyl (Vydate)	US EPA 531.1 R 3.1	Certified	
Simazine	US EPA 525.2 R 2.0	Certified	

Group: Organics, Trihalomethanes

	Method	Status	Description
Bromoform	US EPA 524.2 R 4.1	Certified	
Bromodichloromethane	US EPA 524.2 R 4.1	Certified	
Chloroform	US EPA 524.2 R 4.1	Certified	
Chlorodibromomethane	US EPA 524.2 R 4.1	Certified	
Total Trihalomethanes	US EPA 524.2 R 4.1	Certified	

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Group: Organics, Volatile Organic Chemicals

Method	Status	Description
US EPA 524.2 R 4.1	Certified	1,1,1-Trichloroethane
US EPA 524.2 R 4.1	Certified	1,1,2-Trichloroethane
US EPA 524.2 R 4.1	Certified	1,1-Dichloroethylene
US EPA 524.2 R 4.1	Certified	1,2,4-Trichlorobenzene
US EPA 524.2 R 4.1	Certified	1,2-Dichlorobenzene
US EPA 524.2 R 4.1	Certified	1,2-Dichloroethane
US EPA 524.2 R 4.1	Certified	1,2-Dichloropropane
US EPA 524.2 R 4.1	Certified	1,4-Dichlorobenzene
US EPA 524.2 R 4.1	Certified	Benzene
US EPA 524.2 R 4.1	Certified	Carbon Tetrachloride
US EPA 524.2 R 4.1	Certified	Chlorobenzene
US EPA 524.2 R 4.1	Certified	cis-1,2-Dichloroethylene
US EPA 524.2 R 4.1	Certified	Dichloromethane
US EPA 524.2 R 4.1	Certified	Ethylbenzene
US EPA 524.2 R 4.1	Certified	Styrene
US EPA 524.2 R 4.1	Certified	Tetrachloroethylene
US EPA 524.2 R 4.1	Certified	Toluene
US EPA 524.2 R 4.1	Certified	trans-1,2-Dichloroethylene
US EPA 524.2 R 4.1	Certified	Trichloroethylene
US EPA 524.2 R 4.1	Certified	Vinyl Chloride
US EPA 524.2 R 4.1	Certified	Xylenes (Total)

Group: Organics, Synthetic Organic Chemicals

Method	Status	Description
US EPA 1613B	Certified	2,3,7,8-TCDD (Dioxin)
US EPA 525.2 R 2.0	Certified	Benzo(a)pyrene
US EPA 504.1 R 1.1	Certified	Dibromochloropropane (DBCP)
US EPA 525.2 R 2.0	Certified	Di(2-ethylhexyl)adipate
US EPA 525.2 R 2.0	Certified	Di(2-ethylhexyl)phthalate
US EPA 504.1 R 1.1	Certified	Ethylene dibromide (EDB)

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ATTACHMENT I

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters
for

EUROFINS LANCASTER LABORATORIES
ENVIRONMENTAL LLC
LANCASTER, PENNSYLVANIA

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM2310 B-97	Titrimetric
Alkalinity	SM2320 B-97	Titrimetric
Ammonia	EPA350.1 Rev 2.0-1993	Spectrophotometric
Ammonia	SM4500-NH3 B-97	Distillation
Ammonia	SM4500-NH3 C-97	Titrimetric
Ammonia	SM4500-NH3 D-97	ISE
Bromide	EPA300.0 Rev 2.1-1993	IC
Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	SW9060A	Combustion
Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SM4500-Cl C-97	Titrimetric
Chloride	SW9056A	IC
Chlorine, Free	SM4500-Cl F-00	Titrimetric
Chromium, Hexavalent	SM3500-Cr B-09	Spectrophotometric
Chromium, Hexavalent	SW3060A	Digestion
Chromium, Hexavalent	SW7196	Spectrophotometric
Chromium, Hexavalent	SW7199	IC
Color	SM2120 B-01	Visual Comparison
Conductance, Specific	EPA120.1 Rev 1982	Probe
Conductance, Specific	SM2510 B-97	Probe
Conductance, Specific	SW9050A	Probe
Cyanide, Total	EPA335.4 Rev 1.0-1993	Spectrophotometric
Cyanide, Total	SW9012B	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN E-11	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN I-99	Distillation
Fluoride	EPA300.0 Rev 2.1-1993	IC
Fluoride	SM4500-F B-97	Distillation
Fluoride	SM4500-F C-97	ISE
Hardness, Calcium	SM2340 B-97	Calculation
Hardness, Total	EPA130.2 Rev 1978	Titrimetric

Hardness, Total	SM2340 C-97	Titrimetric
Iron, Ferrous	SM3500-Fe B(4.c)-97	Spectrophotometric
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	EPA353.2 Rev 2.0-1993	Calculation
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrite	SW9056A	IC
Nitrogen, Total Kjeldahl (TKN)	EPA351.2 Rev 2.0-1993	Colorimetric
Oil & Grease	EPA1664 A	Gravimetric
Oil & Grease	EPA1664 B	Gravimetric
Oxygen Demand, Biochemical (BOD)	SM5210 B-01	Probe
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-01	Probe
Oxygen Demand, Chemical (COD)	EPA410.4 Rev 2.0-1993	Spectrophotometric
Oxygen, Dissolved	SM4500-O G-01	Probe
pH (Hydrogen Ion)	EPA150.1 Rev 1978	Electrode
pH (Hydrogen Ion)	SM4500-H B-00	Electrode
Phenolics, Total	EPA420.4 Rev 1.0-1993	Spectrophotometric
Phenolics, Total	SW9066	Colorimetric
Phosphorus, Ortho	EPA365.3 Rev 1978	Spectrophotometric
Phosphorus, Ortho	SM4500-P E-99	Spectrophotometric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Phosphorus, Total	SM4500-P B(5)-99	Digestion
Phosphorus, Total	SM4500-P F-99	Spectrophotometric
Silica	SM4500-SiO2 C-97	Spectrophotometric
Solids, Dissolved	SM2540 C-97	Gravimetric
Solids, Settleable	SM2540 F-97	Imhoff
Solids, Suspended	SM2540 D-97	Gravimetric
Solids, Total	SM2540 B-97	Gravimetric
Solids, Volatile	EPA160.4	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SW9056A	IC
Sulfide	SM4500-S D-00	Spectrophotometric
Sulfide	SM4500-S F-00	Titrimetric
Sulfite	SM4500-SO3 B-00	Titrimetric
Surfactants (MBAS)	SM5540 C-00	Spectrophotometric
Turbidity	EPA180.1 Rev 2.0-1993	Turbidimetric

NONPOTABLE WATER TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Aluminum	EPA200.8 Rev 5.4-1994	ICP-MS
Aluminum	SW6010B	ICP
Aluminum	SW6010C	ICP
Aluminum	SW6020	ICP-MS
Aluminum	SW6020A	ICP-MS
Antimony	EPA200.7 Rev 4.4-1994	ICP
Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Antimony	SW6010B	ICP
Antimony	SW6010C	ICP

Antimony	SW6020	ICP-MS
Antimony	SW6020A	ICP-MS
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	SW6010B	ICP
Arsenic	SW6010C	ICP
Arsenic	SW6020	ICP-MS
Arsenic	SW6020A	ICP-MS
Barium	EPA200.7 Rev 4.4-1994	ICP
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	SW6010B	ICP
Barium	SW6010C	ICP
Barium	SW6020	ICP-MS
Barium	SW6020A	ICP-MS
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	SW6010B	ICP
Beryllium	SW6010C	ICP
Beryllium	SW6020	ICP-MS
Beryllium	SW6020A	ICP-MS
Boron	EPA200.7 Rev 4.4-1994	ICP
Boron	EPA200.8 Rev 5.4-1994	ICP-MS
Boron	SW6010B	ICP
Boron	SW6010C	ICP
Boron	SW6020	ICP-MS
Boron	SW6020A	ICP-MS
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	SW6010B	ICP
Cadmium	SW6010C	ICP
Cadmium	SW6020	ICP-MS
Cadmium	SW6020A	ICP-MS
Calcium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	SW6010B	ICP
Calcium	SW6010C	ICP
Calcium	SW6020	ICP-MS
Calcium	SW6020A	ICP-MS
Chromium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	SW6010B	ICP
Chromium	SW6010C	ICP
Chromium	SW6020	ICP-MS
Chromium	SW6020A	ICP-MS
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	SW6010B	ICP
Cobalt	SW6010C	ICP
Cobalt	SW6020	ICP-MS
Cobalt	SW6020A	ICP-MS
Copper	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	SW6010B	ICP
Copper	SW6010C	ICP

Copper	SW6020	ICP-MS
Copper	SW6020A	ICP-MS
Iron	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.8 Rev 5.4-1994	ICP-MS
Iron	SW6010B	ICP
Iron	SW6010C	ICP
Iron	SW6020	ICP-MS
Iron	SW6020A	ICP-MS
Lead	EPA200.7 Rev 4.4-1994	ICP
Lead	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	SW6010B	ICP
Lead	SW6010C	ICP
Lead	SW6020	ICP-MS
Lead	SW6020A	ICP-MS
Lithium	EPA200.7 Rev 4.4-1994	ICP
Lithium	SW6010B	ICP
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.8 Rev 5.4-1994	ICP-MS
Magnesium	SW6010B	ICP
Magnesium	SW6010C	ICP
Magnesium	SW6020	ICP-MS
Magnesium	SW6020A	ICP-MS
Manganese	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.8 Rev 5.4-1994	ICP-MS
Manganese	SW6010B	ICP
Manganese	SW6010C	ICP
Manganese	SW6020	ICP-MS
Manganese	SW6020A	ICP-MS
Mercury	EPA1631 E	CVAF
Mercury	EPA245.1 Rev 3.0-1994	CVAA
Mercury	SW7470A	CVAA
Metals	EPA200.2	Digestion
Metals, Total	SW3005A	Digestion
Metals, Total	SW3010A	Digestion
Metals, Total	SW3020A	Digestion
Molybdenum	EPA200.7 Rev 4.4-1994	ICP
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	SW6010B	ICP
Molybdenum	SW6010C	ICP
Molybdenum	SW6020	ICP-MS
Molybdenum	SW6020A	ICP-MS
Nickel	EPA200.7 Rev 4.4-1994	ICP
Nickel	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	SW6010B	ICP
Nickel	SW6010C	ICP
Nickel	SW6020	ICP-MS
Nickel	SW6020A	ICP-MS
Potassium	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.8 Rev 5.4-1994	ICP-MS
Potassium	SW6010B	ICP
Potassium	SW6010C	ICP
Potassium	SW6020	ICP-MS
Potassium	SW6020A	ICP-MS
Selenium	EPA200.7 Rev 4.4-1994	ICP

Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	SW6010B	ICP
Selenium	SW6010C	ICP
Selenium	SW6020	ICP-MS
Selenium	SW6020A	ICP-MS
Silicon	SW6010B	ICP
Silicon	SW6010C	ICP
Silver	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	SW6010B	ICP
Silver	SW6010C	ICP
Silver	SW6020	ICP-MS
Silver	SW6020A	ICP-MS
Sodium	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	SW6010B	ICP
Sodium	SW6010C	ICP
Sodium	SW6020	ICP-MS
Sodium	SW6020A	ICP-MS
Strontium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	SW6010B	ICP
Strontium	SW6010C	ICP
Strontium	SW6020	ICP-MS
Strontium	SW6020A	ICP-MS
Tellurium	SW6010B	ICP
Tellurium	SW6010C	ICP
Thallium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	SW6010B	ICP
Thallium	SW6010C	ICP
Thallium	SW6020	ICP-MS
Thallium	SW6020A	ICP-MS
Thorium	SW6010B	ICP
Thorium	SW6010C	ICP
Tin	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	SW6010B	ICP
Tin	SW6010C	ICP
Tin	SW6020	ICP-MS
Tin	SW6020A	ICP-MS
Titanium	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	SW6010B	ICP
Titanium	SW6010C	ICP
Titanium	SW6020	ICP-MS
Titanium	SW6020A	ICP-MS
Tungsten	SW6010B	ICP
Tungsten	SW6010C	ICP
Uranium	EPA200.8 Rev 5.4-1994	ICP-MS
Uranium	SW6020	ICP-MS
Uranium	SW6020A	ICP-MS
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS

Vanadium	SW6010B	ICP
Vanadium	SW6010C	ICP
Vanadium	SW6020	ICP-MS
Vanadium	SW6020A	ICP-MS
Zinc	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Zinc	SW6010B	ICP
Zinc	SW6010C	ICP
Zinc	SW6020	ICP-MS
Zinc	SW6020A	ICP-MS
Zirconium	SW6010B	ICP
Zirconium	SW6010C	ICP

NONPOTABLE WATER MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MF)	SM9222 D-97	Membrane Filter
Coliform, Total (MPN)	Colilert	Multiple Well

NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Closed System Purge & Trap	SW5035A	Extraction
Closed System Purge & Trap	SW5035	Extraction
Dissolved Gases	RSK175	GC
Halogenated & Aromatic Volatiles	SW8021B	GC
Nonhalogenated Volatile Organics	SW8015B	GC/FID
Nonhalogenated Volatile Organics	SW8015C	GC/FID
Purge & Trap For Aqueous Samples	SW5030B	Extraction
Purgeable Aromatics	EPA602	GC
Purgeables	EPA624	GC/MS
Total Petroleum Hydrocarbons (GRO)	SW8015C	GC/FID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW8260C	GC/MS

NONPOTABLE WATER EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Base/Neutrals & Acids	EPA625	GC/MS
Carbamate Pesticide	EPA531.1 LC	HPLC
Carbonyl Compounds	SW8315A	HPLC
Chlorinated Herbicides	SW8151A	GC
Continuous Liquid-Liquid	SW3520C	Extraction
EDB & DBCP	SW8011	GC/ECD
Florisil Cleanup	SW3620B	Cleanup
Gel-Permeation Cleanup	SW3640A	Cleanup
Microextraction	SW3511	Extraction
Nitroaromatics & Nitramines	SW8330	HPLC
Nitroaromatics & Nitramines	SW8330A	HPLC
Nitroaromatics & Nitramines	SW8330B	HPLC
Nonhalogenated Semi-Volatile Organics	SW8015B	GC/FID

Organochlorine Pesticides	SW8081A	GC
Organochlorine Pesticides	SW8081B	GC
Organochlorine Pesticides & PCBs	EPA608	GC
Organophosphorus Compounds	SW8141A	GC
Organophosphorus Compounds	SW8141B	GC
PCBs Congeners	EPA1668 C	HRGC/HRMS
Perfluorinated Compounds	ISO 25101:2009 (E)	LC/MS
Polychlorinated Biphenyls	SW8082	GC
Polychlorinated Biphenyls	SW8082A	GC
Semivolatile Organic Compounds	SW8270C	GC/MS
Semivolatile Organic Compounds	SW8270C	SIM
Semivolatile Organic Compounds	SW8270D	GC/MS
Semivolatile Organic Compounds	SW8270D	SIM
Separatory Funnel Liquid-Liquid	SW3510C	Extraction
Silica Gel Cleanup	SW3630C	Cleanup
Solvent Extractable Nonvolatile Compounds	SW8321A	HPLC/UV
Solvent Extractable Nonvolatile Compounds	SW8321B	HPLC/TS/MS
Sulfur Cleanup	SW3660B	Cleanup
Sulfuric Acid/Permanganate Cleanup	SW3665A	Cleanup
Total Petroleum Hydrocarbons (DRO)	SW8015B	GC/FID

NONPOTABLE WATER DIOXIN AND DIBENZOFURAN

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Dioxins & Furans (PCDD/F)	EPA1613 B	HRGC/HRMS
Dioxins & Furans (PCDD/F)	SW8290A	HRGC/HRMS

HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ignitability	SW1010A	Closed Cup
Paint Filter Test	SW9095B	Gravimetric
SPLP- Metals & Organics	SW1312	Extraction
TCLP- Organics	SW1311	Extraction

SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ammonia	EPA350.1	Discrete
Bromide	EPA300.0 Rev 2.1-1993	IC
Carbon, Total Organic (TOC)	SW9060A	Combustion
Chloride	EPA300.0 Rev 2.1-1993	IC
Chromium, Hexavalent	SW3060A	Digestion
Chromium, Hexavalent	SW7196A	Spectrophotometric
Cyanide, Total	SW9012B	Spectrophotometric
Fluoride	EPA300.0 Rev 2.1-1993	IC
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrite	EPA300.0 Rev 2.1-1993	IC
Oil & Grease	SW9071B	Gravimetric

pH (Hydrogen Ion)	SW9045D	Electrode
Phenolics, Total	SW9066	Colorimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SW9056A	IC

SOLID AND CHEMICAL TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010B	ICP
Aluminum	SW6010C	ICP
Aluminum	SW6020	ICP-MS
Aluminum	SW6020A	ICP-MS
Antimony	SW6010B	ICP
Antimony	SW6010C	ICP
Antimony	SW6020	ICP-MS
Antimony	SW6020A	ICP-MS
Arsenic	SW6010B	ICP
Arsenic	SW6010C	ICP
Arsenic	SW6020	ICP-MS
Arsenic	SW6020A	ICP-MS
Barium	SW6010B	ICP
Barium	SW6010C	ICP
Barium	SW6020	ICP-MS
Barium	SW6020A	ICP-MS
Beryllium	SW6010B	ICP
Beryllium	SW6010C	ICP
Beryllium	SW6020	ICP-MS
Beryllium	SW6020A	ICP-MS
Boron	SW6010B	ICP
Boron	SW6010C	ICP
Boron	SW6020	ICP-MS
Boron	SW6020A	ICP-MS
Cadmium	SW6010B	ICP
Cadmium	SW6010C	ICP
Cadmium	SW6020	ICP-MS
Cadmium	SW6020A	ICP-MS
Calcium	SW6010B	ICP
Calcium	SW6010C	ICP
Calcium	SW6020	ICP-MS
Calcium	SW6020A	ICP-MS
Chromium	SW6010B	ICP
Chromium	SW6010C	ICP
Chromium	SW6020	ICP-MS
Chromium	SW6020A	ICP-MS
Cobalt	SW6010B	ICP
Cobalt	SW6010C	ICP
Cobalt	SW6020	ICP-MS
Cobalt	SW6020A	ICP-MS
Copper	SW6010B	ICP
Copper	SW6010C	ICP
Copper	SW6020	ICP-MS
Copper	SW6020A	ICP-MS
Iron	SW6010B	ICP

Iron	SW6010C	ICP
Iron	SW6020	ICP-MS
Iron	SW6020A	ICP-MS
Lead	SW6010B	ICP
Lead	SW6010C	ICP
Lead	SW6020	ICP-MS
Lead	SW6020A	ICP-MS
Lithium	SW6010B	ICP
Lithium	SW6010C	ICP
Magnesium	SW6010B	ICP
Magnesium	SW6010C	ICP
Magnesium	SW6020	ICP-MS
Magnesium	SW6020A	ICP-MS
Manganese	SW6010B	ICP
Manganese	SW6010C	ICP
Manganese	SW6020	ICP-MS
Manganese	SW6020A	ICP-MS
Mercury	SW7471A	CVAA
Mercury	SW7471B	CVAA
Metals, Total	SW3050B	Digestion
Molybdenum	SW6010B	ICP
Molybdenum	SW6010C	ICP
Molybdenum	SW6020	ICP-MS
Molybdenum	SW6020A	ICP-MS
Nickel	SW6010B	ICP
Nickel	SW6010C	ICP
Nickel	SW6020	ICP-MS
Nickel	SW6020A	ICP-MS
Potassium	SW6010B	ICP
Potassium	SW6010C	ICP
Potassium	SW6020	ICP-MS
Potassium	SW6020A	ICP-MS
Selenium	SW6010B	ICP
Selenium	SW6010C	ICP
Selenium	SW6020	ICP-MS
Selenium	SW6020A	ICP-MS
Silica	SW6010B	Calculation
Silica	SW6010C	Calculation
Silver	SW6010B	ICP
Silver	SW6010C	ICP
Silver	SW6020	ICP-MS
Silver	SW6020A	ICP-MS
Sodium	SW6010B	ICP
Sodium	SW6010C	ICP
Sodium	SW6020	ICP-MS
Sodium	SW6020A	ICP-MS
Strontium	SW6010B	ICP
Strontium	SW6010C	ICP
Strontium	SW6020	ICP-MS
Strontium	SW6020A	ICP-MS
Sulfur	SW6010B	ICP
Sulfur	SW6010C	ICP
Tellurium	SW6010B	ICP
Tellurium	SW6010C	ICP

Thallium	SW6010B	ICP
Thallium	SW6010C	ICP
Thallium	SW6020	ICP-MS
Thallium	SW6020A	ICP-MS
Thorium	SW6010B	ICP
Thorium	SW6010C	ICP
Tin	SW6010B	ICP
Tin	SW6010C	ICP
Tin	SW6020	ICP-MS
Tin	SW6020A	ICP-MS
Titanium	SW6010B	ICP
Titanium	SW6010C	ICP
Titanium	SW6020	ICP-MS
Titanium	SW6020A	ICP-MS
Tungsten	SW6010B	ICP
Tungsten	SW6010C	ICP
Vanadium	SW6010B	ICP
Vanadium	SW6010C	ICP
Vanadium	SW6020	ICP-MS
Vanadium	SW6020A	ICP-MS
Zinc	SW6010B	ICP
Zinc	SW6010C	ICP
Zinc	SW6020	ICP-MS
Zinc	SW6020A	ICP-MS
Zirconium	SW6010B	ICP
Zirconium	SW6010C	ICP

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Closed System Purge & Trap	SW5035	Extraction
Closed System Purge & Trap	SW5035A	Extraction
Halogenated & Aromatic Volatiles	SW8021B	GC
Nonhalogenated Volatile Organics	SW8015B	GC/FID
Nonhalogenated Volatile Organics	SW8015C	GC/FID
Nonhalogenated Volatile Organics	SW8015D	GC/FID
Total Petroleum Hydrocarbons (GRO)	SW8015C	GC/FID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW8260C	GC/MS

SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Carbonyl Compounds	SW8315A	HPLC
Chlorinated Herbicides	SW8151A	Extraction
EDB & DBCP	SW8011	GC/ECD
Florisil Cleanup	SW3620B	Cleanup
Gel-Permeation Cleanup	SW3640A	Cleanup
Microwave Extraction	SW3546	Extraction
Nitroaromatics & Nitramines	SW8330	HPLC
Nitroaromatics & Nitramines	SW8330A	HPLC
Nitroaromatics & Nitramines	SW8330B	HPLC

Organochlorine Pesticides	SW8081A	GC
Organochlorine Pesticides	SW8081B	GC
Organophosphorus Compounds	SW8141A	GC
Organophosphorus Compounds	SW8141B	GC
PCBs Congeners	EPA1668 A	HRGC/HRMS
PCBs Congeners	EPA1668 C	HRGC/HRMS
Polychlorinated Biphenyls	SW8082	GC
Polychlorinated Biphenyls	SW8082A	GC
Semivolatile Organic Compounds	SW8270C	GC/MS
Semivolatile Organic Compounds	SW8270C	SIM
Semivolatile Organic Compounds	SW8270D	GC/MS
Semivolatile Organic Compounds	SW8270D	SIM
Silica Gel Cleanup	SW3630C	Cleanup
Solvent Extractable Nonvolatile Compounds	SW8321B	HPLC/TS/MS
Soxhlet	SW3540C	Extraction
Sulfur Cleanup	SW3660B	Cleanup
Sulfuric Acid/Permanganate Cleanup	SW3665A	Cleanup
Total Petroleum Hydrocarbons (DRO)	SW8015B	GC/FID
Ultrasonic	SW3550C	Extraction

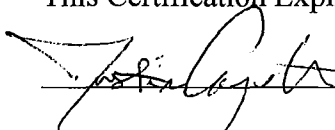
SOLID AND CHEMICAL DIOXIN AND DIBENZOFURAN

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Dioxins & Furans (PCDD/F)	SW8290	HRGC/HRMS
Dioxins & Furans (PCDD/F)	SW8290A	HRGC/HRMS

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires June 30, 2019.

Certificate No 055

 Issued on July 01, 2018

Justin Carpenter
QA Auditor

This certified parameter list supersedes all previously issued parameter lists for this certificate number.