

STATE OF WEST VIRGINIA

Department of Health and Human Resources
Bureau For Public Health
Office of Laboratory Services

Date Issued: **January 01, 2012**

Expiration Date: **December 31, 2012**

Certifies that

Certification Number: 9906 C
Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

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


Chief Environmental Laboratory Certification Officer

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



West Virginia Department of Health and Human Resources
Bureau For Public Health
Office of Laboratory Services

CERTIFIED PARAMETER LIST AND CURRENT STATUS

Lancaster Laboratories Inc.
2425 New Holland Pike
Lancaster, PA 17601-5994

Certificate: **9906 C**
Issue Date: **1/1/2012**
Expiration Date: **12/31/2012**

<i>Group: Trace Metals</i>	Method	Status	Description
Antimony	200.8 R 5.4	Certified	
Arsenic	200.8 R 5.4	Certified	
Barium	200.7 R 4.4	Certified	
Beryllium	200.7 R 4.4	Certified	
Beryllium	200.8 R 5.4	Certified	
Cadmium	200.7 R 4.4	Certified	
Cadmium	200.8 R 5.4	Certified	
Chromium	200.8 R 5.4	Certified	
Chromium	200.7 R 4.4	Certified	
Copper	200.7 R 4.4	Certified	
Copper	200.8 R 5.4	Certified	
Lead	200.8 R 5.4	Certified	
Mercury	245.1 R 3.0	Certified	
Selenium	200.8 R 5.4	Certified	
Thallium	200.8 R 5.4	Certified	

<i>Group: Inorganics</i>	Method	Status	Description
Cyanide	335.4 R 1.0	Certified	
Fluoride	SM4500F-C	Certified	
Fluoride	300.0 R 2.1	Certified	
Nitrate-N	353.2 R 2.0	Certified	
Nitrate-N	300.0 R 2.1	Certified	
Nitrite-N	353.2 R 2.0	Certified	
Nitrite-N	300.0 R 2.1	Certified	

This is to certify that the laboratory has been approved to perform the indicated procedures on drinking water in accordance with West Virginia 64CSR 3-13:



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Group: Organics, Pesticides

Method	Status	Description
507 R 2.1	Certified	Alachlor
525.2 R 2.0	Certified	Alachlor
531.1 R 3.1	Certified	Aldicarb
531.1 R 3.1	Certified	Aldicarb Sulfone
531.1 R 3.1	Certified	Aldicarb Sulfoxide
525.2 R 2.0	Certified	Atrazine
507 R 2.1	Certified	Atrazine
531.1 R 3.1	Certified	Carbofuran
508 R 3.1	Certified	Chlordane
508 R 3.1	Certified	Endrin
508 R 3.1	Certified	Heptachlor
508 R 3.1	Certified	Heptachlor Epoxide
525.2 R 2.0	Certified	Heptachlor Epoxide
508 R 3.1	Certified	Hexachlorobenzene
525.2 R 2.0	Certified	Hexachlorobenzene
525.2 R 2.0	Certified	Hexachlorocyclopentadiene
508 R 3.1	Certified	Hexachlorocyclopentadiene
508 R 3.1	Certified	Lindane
525.2 R 2.0	Certified	Lindane
508 R 3.1	Certified	Methoxychlor
525.2 R 2.0	Certified	Methoxychlor
531.1 R 3.1	Certified	Oxamyl (Vydate)
507 R 2.1	Certified	Simazine
525.2 R 2.0	Certified	Simazine
508 R 3.1	Certified	Toxaphene

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Monday, December 12, 2011 9906 C



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<i>Group: Organics, Herbicides</i>	Method	Status	Description
2,4,5-TP (Silvex)	515.1 R 4.0	Certified	
2,4-D	515.1 R 4.0	Certified	
Dalapon	515.1 R 4.0	Certified	
Dinoseb	515.1 R 4.0	Certified	
Pentachlorophenol	515.1 R 4.0	Certified	
Picloram	515.1 R 4.0	Certified	
<i>Group: Organics, Trihalomethanes</i>	Method	Status	Description
Bromoform	524.2 R 4.1	Certified	
Bromodichloromethane	524.2 R 4.1	Certified	
Chloroform	524.2 R 4.1	Certified	
Chlorodibromomethane	524.2 R 4.1	Certified	

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Group: Organics, Volatile Organic Chemicals

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

Group: Organics, Synthetic Organic Chemicals

Method	Status	Description
525.2 R 2.0	Certified	Benzo(a)pyrene
504.1 R 1.1	Certified	Dibromochloropropane (DBCP)
525.2 R 2.0	Certified	Di(2-ethylhexyl)adipate
525.2 R 2.0	Certified	Di(2-ethylhexyl)phthalate
504.1 R 1.1	Certified	Ethylene dibromide (EDB)
508 R 3.1	Certified	PCBs (As Aroclors)

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Monday, December 12, 2011 9906 C

Attachment I

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

Annual Certified Parameter List

for

LANCASTER LABORATORIES, INCORPORATED
LANCASTER, PENNSYLVANIA

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANICS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM20th2310 B	Titrimetric
Alkalinity	SM20th2320 B	Titrimetric
Ammonia	SM20th4500-NH ₃ B	Distillation
Ammonia	SM20th4500-NH ₃ D	Electrode
Bromide	EPA300.0	IC
Chloride	EPA300.0	IC
Chloride	SM20th4500-Cl ⁻ C	Spectrometric
Chloride	SW9056	IC
Color	SM20th2120 B	Visual Comparison
Conductance, Specific	EPA120.1	Probe
Conductance, Specific	SM20th2510 B	Probe
Chromium, Hexavalent	EPA218.6	IC
Chromium, Hexavalent	SM20th3500-Cr ⁶⁺ B	Colorimetric
Chromium, Hexavalent	SW7196	Colorimetric
Chromium, Hexavalent	SW7199	IC
Cyanide, Total	EPA335.4	Spectrometric
Cyanide, Total	SW9012A	Spectrometric
Cyanide, Available	SM20th4500-CN ⁻ C	Distillation
Cyanide, Amenable	EPA335.4	Spectrometric
Cyanide, Amenable	SM20th4500-CN ⁻ G	Spectrometric
Demand, Biochemical(BOD)	SM20th5210 B	Probe
Demand, Carbonaceous(CBOD)	SM20th5210 B	Probe
Demand, Chemical Oxygen (COD)	EPA410.4	Spectrometric
Fluoride	EPA300.0	IC
Fluoride	SM20th4500-F ⁻ C	ISE
Hardness, Calcium	SM20th2340 B	Titrimetric
Hardness, Total	EPA200.7	Calculation
Hardness, Total	SW6010B	Calculation
Kjeldahl Nitrogen, Total	EPA351.2	Spectrometric
Kjeldahl Nitrogen, Total	SM20th4500-N _{org} B	Digestion
Kjeldahl Nitrogen, Total	SM20th4500-NH ₃ B	Distillation

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Nitrate	EPA300.0	IC
Nitrate	EPA353.2	Spectrometric
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA353.2	Spectrometric
Nitrite	EPA300.0	IC
Nitrite	SW9056A	IC
Nitrite	EPA353.2	Spectrometric
Oil & Grease	EPA1664A	Gravimetric
Organic Carbon, Total	SM20th5310 C	Oxidation
Organic Carbon, Total	SW9060	Oxidation
Phenolics, Total	EPA420.1 Rev 1978	Spectrometric
Phenolics, Total	EPA420.2	Distillation
Phenolics, Total	EPA420.4	Spectrometric
Phenolics, Total	SW9066	Spectrometric
Phosphate, Ortho	EPA365.3	Spectrometric
Phosphate, Ortho	SM20th4500-P E	Spectrometric
Phosphate, Total	SM20th4500-P B.5	Digestion
Phosphate, Total	SM20th4500-P E	Spectrometric
Silica, Dissolved	SM20th4500-SiO ₂	Spectrometric
Solids, Dissolved	SM20th2540 C	Gravimetric
Solids, Settleable	SM20th2540 F	Gravimetric
Solids, Suspended	SM20th2540 D	Gravimetric
Solids, Total	SM20th2540 B	Gravimetric
Solids, Volatile	EPA160.4	Gravimetric
Sulfate	EPA300.0	IC
Sulfate	SW9056	IC
Sulfide	SM20th4500-S ²⁻ D	Spectrometric
Sulfide	SM20th4500-S ²⁻ F	Titrimetric
Surfactants (MBAS)	SM20th5540 C	Spectrometric
Turbidity	EPA180.1	Turbidimetric

NONPOTABLE WATER TRACE METALS 1

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Antimony	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Barium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Boron	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.7 Rev 4.4-1994	ICP
Lead	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.7 Rev 4.4-1994	ICP
Molybdenum	EPA200.7 Rev 4.4-1994	ICP
Nickel	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.7 Rev 4.4-1994	ICP
Selenium	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.7 Rev 4.4-1994	ICP

METALMETHODTECHNOLOGY

Aluminum	EPA200.8 Rev 5.4-1994	ICP-MS
Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Boron	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Iron	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	EPA200.8 Rev 5.4-1994	ICP-MS
Magnesium	EPA200.8 Rev 5.4-1994	ICP-MS
Manganese	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	EPA200.8 Rev 5.4-1994	ICP-MS
Potassium	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Mercury	EPA245.1	CVAA
Mercury	EPA1631E	CVAA (Low Level)
Mercury	SW7470A	CVAA
Aluminum	SW6010B	ICP
Antimony	SW6010B	ICP
Arsenic	SW6010B	ICP
Barium	SW6010B	ICP
Beryllium	SW6010B	ICP
Boron	SW6010B	ICP
Cadmium	SW6010B	ICP
Calcium	SW6010B	ICP
Chromium	SW6010B	ICP
Cobalt	SW6010B	ICP
Copper	SW6010B	ICP
Iron	SW6010B	ICP
Lead	SW6010B	ICP
Magnesium	SW6010B	ICP
Manganese	SW6010B	ICP
Molybdenum	SW6010B	ICP
Nickel	SW6010B	ICP
Potassium	SW6010B	ICP
Selenium	SW6010B	ICP
Silver	SW6010B	ICP
Sodium	SW6010B	ICP
Strontium	SW6010B	ICP
Thallium	SW6010B	ICP
Tin	SW6010B	ICP
Titanium	SW6010B	ICP
Vanadium	SW6010B	ICP
Zinc	SW6010B	ICP

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6020	ICP/MS
Antimony	SW6020	ICP/MS
Arsenic	SW6020	ICP/MS
Barium	SW6020	ICP/MS
Beryllium	SW6020	ICP/MS
Boron	SW6020	ICP/MS
Cadmium	SW6020	ICP/MS
Calcium	SW6020	ICP/MS
Chromium	SW6020	ICP/MS
Cobalt	SW6020	ICP/MS
Copper	SW6020	ICP/MS
Iron	SW6020	ICP/MS
Lead	SW6020	ICP/MS
Magnesium	SW6020	ICP/MS
Manganese	SW6020	ICP/MS
Molybdenum	SW6020	ICP/MS
Nickel	SW6020	ICP/MS
Potassium	SW6020	ICP/MS
Selenium	SW6020	ICP/MS
Silver	SW6020	ICP/MS
Sodium	SW6020	ICP/MS
Strontium	SW6020	ICP/MS
Thallium	SW6020	ICP/MS
Tin	SW6020	ICP/MS
Titanium	SW6020	ICP/MS
Vanadium	SW6020	ICP/MS
Zinc	SW6020	ICP/MS
Chromium, Hexavalent	EPA218.6	IC
Chromium, Hexavalent	SM20th3500-Cr B	Colorimetric
Chromium, Hexavalent	SW7196	Colorimetric
Chromium, Hexavalent	SW7199	IC

NONPOTABLE WATER VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Purgeable Aromatics	EPA602	GC/FID
Purgeables	EPA624	GC/MS
Volatiles (Pharmaceuticals)	EPA1666	GC/MS
Volatiles (Organics)	SW8260B	GC/MS
Non-Halogenated Volatiles	SW8015B	GC/FID
Total Petroleum (TPH - Fuel - GRO)	SW8015B	GC/FID
Aromatics (Fuels - BTEX & MTBE)	SW8021B	GC/FID
Volatiles	SW8260B	GC/MS

NONPOTABLE WATER EXTRACTABLES & SEMI-VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ammonium Perfluoro Octanoate - APFO	Risha Method	LC/MS/MS
EDB & DBCP	EPA504.1	GC/ECD
Pesticides & PCBs	EPA608	GC/ECD
Polynuclear Aromatics (PAHs/PNAs)	EPA610	GC/HPLC
Base/Neutrals & Acids	EPA625	GC/MS
Pharmaceuticals	EPA1671A	GC/FID
EDB & DBCP	SW8011	GC/ECD
Non-Halogenated Semi-Volatiles	SW8015B	GC/FID
Total Petroleum (TPH - Fuel - DRO)	SW8015B	GC/FID
Organochlorine Pesticides	SW8081A	GC/ECD
Polychlorinated Biphenyls (PCBs)	SW8082	GC/ECD
Phosphates	SW8141A	GC/FID
Chlorinated Herbicides	SW8151A	GC/ECD
Polynuclear Aromatics (PAHs/PNAs)	SW8270	GC/MS-SIM
Semi-volatiles	SW8270C	GC/MS
Polynuclear Aromatics (PAHs/PNAs)	SW8310	HPLC
PFOA, PFCs, & PFSs	SW8321A	LC/MS/MS
Nitroaromatics & Nitramines (Explosives)	SW8330	HPLC

NONPOTABLE WATER DIOXINS & DIBENZOFURANS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Dioxins & Furans (PCDD/F)	EPA1613	HRGC/HRMS
Dioxins & Furans (PCDD/F)	SW8290B	HRGC/HRMS

HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Corrosivity (Water)	SW9040B	Probe
Corrosivity (Soil)	SW9045C	Probe
Ignitability (Penske-Martin)	SW1010A	Closed Cup
Paint Filter Test	SW9095B	Gravimetric
Reactive Cyanide	Chap 7.3.3.2	SW9010/9012A/9014
Reactive Sulfide	Chap 7.3.4.2	SW9030/9034
TCLP (Metals & Organics)	SW1311	Rotating Extractor
SPLP (Metals & Organics)	SW1312	Rotating Extractor

SOLID & CHEMICAL INORGANICS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
pH (Water)	SW9040B	Probe
pH (Soil)	SW9045C	Probe
Chromium, Hexavalent	SW7196A	Spectrometric
Chromium, Hexavalent	SW7199	IC
Cyanide, Total	SW9012A	Spectrometric
Oil & Grease	SW9071B	Gravimetric
Organic Carbon, Total	SW9060	Oxidation

SOLID & CHEMICAL TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010B	ICP
Antimony	SW6010B	ICP
Arsenic	SW6010B	ICP
Barium	SW6010B	ICP
Beryllium	SW6010B	ICP
Boron	SW6010B	ICP
Cadmium	SW6010B	ICP
Calcium	SW6010B	ICP
Chromium	SW6010B	ICP
Cobalt	SW6010B	ICP
Copper	SW6010B	ICP
Iron	SW6010B	ICP
Lead	SW6010B	ICP
Magnesium	SW6010B	ICP
Manganese	SW6010B	ICP
Molybdenum	SW6010B	ICP
Nickel	SW6010B	ICP
Potassium	SW6010B	ICP
Selenium	SW6010B	ICP
Silver	SW6010B	ICP
Sodium	SW6010B	ICP
Strontium	SW6010B	ICP
Thallium	SW6010B	ICP
Tin	SW6010B	ICP
Titanium	SW6010B	ICP
Vanadium	SW6010B	ICP
Zinc	SW6010B	ICP

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6020	ICP/MS
Antimony	SW6020	ICP/MS
Arsenic	SW6020	ICP/MS
Barium	SW6020	ICP/MS
Beryllium	SW6020	ICP/MS
Boron	SW6020	ICP/MS
Cadmium	SW6020	ICP/MS
Calcium	SW6020	ICP/MS
Chromium	SW6020	ICP/MS
Cobalt	SW6020	ICP/MS
Copper	SW6020	ICP/MS
Iron	SW6020	ICP/MS
Lead	SW6020	ICP/MS
Magnesium	SW6020	ICP/MS
Manganese	SW6020	ICP/MS
Molybdenum	SW6020	ICP/MS
Nickel	SW6020	ICP/MS
Potassium	SW6020	ICP/MS
Selenium	SW6020	ICP/MS
Silver	SW6020	ICP/MS
Sodium	SW6020	ICP/MS
Strontium	SW6020	ICP/MS
Thallium	SW6020	ICP/MS
Tin	SW6020	ICP/MS
Titanium	SW6020	ICP/MS
Vanadium	SW6020	ICP/MS
Zinc	SW6020	ICP/MS
Mercury	SW7471A	CVAA

SOLID & CHEMICAL VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Non-Halogenated Volatiles	SW8015B	GC/FID
Total Petroleum (TPH - Fuels - GRO)	SW8015B	GC/FID
Aromatics (Fuels - BTEX & MTBE)	SW8021B	GC/FID
Volatiles	SW8260B	GC/MS
Dioxane	SW8260B	GC/MS-SIM

SOLID & CHEMICAL EXTRACTABLES & SEMI-VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ammonium Perfluoro Octanoate - APFO	Risha Method	LC/MS/MS
Total Petroleums (TPH - Fuel - DRO)	SW8015B	GC/FID
Organochlorine Pesticides	SW8081A	GC/ECD
Polychlorinated Biphenyls (PCBs)	SW8082	GC/ECD
Phosphates	SW8141A	GC/FID
Chlorinated Herbicides	SW8151A	GC/ECD
Semi-volatiles	SW8270C	GC/MS
Polynuclear Aromatics (PAHs/PNAs)	SW8270	GC/MS-SIM
Polynuclear Aromatics (PAHs/PNAs)	SW8310	HPLC
PFOA, PFCs, & PFSs	SW8321A	LC/MS/MS
Nitroaromatics & Nitramines (Explosives)	SW8330	HPLC

EXTRACTION, DIGESTION, CLEANUP, & PREPARATORY METHODS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Digestion, Metals	EPA200.2	Acid
Digestion, Metals	EPA200.7 Rev 4.4-1994	Total
Digestion, Metals	EPA200.7 Rev 4.4-1994	Dissolved
Digestion, Metals	EPA200.8 Rev 5.4-1994	Total
Digestion, Metals	EPA200.8 Rev 5.4-1994	Dissolved
Digestion, Metals	SW3005A	Hot Block
Digestion, Metals	SW3010A	Microwave
Digestion, Metals	SW3020A	Microwave
Digestion, Metals	SW3050A	Acid
Digestion, Metals	SW3050B	Acid
Digestion, Metals	SW3060A	Hexchrome
Extraction	SW3510C	Separatory Funnel (LL)
Extraction	SW3540C	Soxhlet
Extraction	SW3546	Solid Phase (SFE)
Extraction	SW3550B	Ultrasonic (Sonication)
Extraction (Aqueous)	SW5030B	Purge & Trap (P&T)
Extraction (Soils)	SW5035	Purge & Trap (Closed)
Extraction (Soils)	SW5035 A	Purge & Trap (Closed)
Digestion	SW7470A	Mercury - Aqueous
Digestion	SW7471A	Mercury - Soils
Distillation (Ammonia)	SM20th4500-NH ₃ B	Ammonia
Distillation (Fluoride)	SM20th4500-F ⁻ B	Fluoride

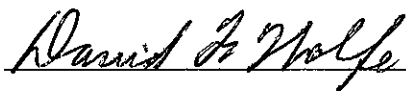
SOLID & CHEMICAL DIOXINS & DIBENZOFURANS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Dioxins & Furans (PCDD/F)	SW8290B	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 On, **31 July 2012**.

Certificate No. **055** .



Issued On, 30 June 2011.

Revision 1, Issued On, 15 September 2011.

David F Wolfe, PhD
Quality Assurance Officer