

STATE OF NORTH CAROLINA DEPARTMENT OF THE  
ENVIRONMENT AND NATURAL RESOURCES

## DIVISION OF WATER QUALITY LABORATORY CERTIFICATION PROGRAM

*In accordance with the provisions of N.C.G.S. 143-215.3 (a) (1), 143-215.3 (a)(10) and NCAC 2H.0800:*



# 2012

ENVIRONMENTAL CONSERVATION LABORATORIES, INC.

*Is hereby certified to perform environmental analysis as listed on Attachment I and report monitoring data to DWQ for compliance with NPDES effluent, surface water, groundwater, and pretreatment regulations.*

*By reference 15A NCAC 2H .0800 is made a part of this certificate.*

*This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control procedures, records, and proficiency of the laboratory have been examined and found to be acceptable.*

*This certificate shall be valid until December 31, 2012*

Certificate N

591

*J. Kent Wiggins*  
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J. Kent Wiggins

**Attachment I**  
**North Carolina Wastewater/Groundwater Laboratory Certification**  
**Certified Parameters Listing**

Lab Name:	Environmental Conservation Laboratories, Inc.	Certificate Number:	591
Address:	102 Woodwinds Industrial Ct. Ste. A	Effective Date:	01/01/2012
	Cary, NC 27511-6204	Expiration Date:	12/31/2012
		Date of Last Amendment:	02/02/2012

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

**CERTIFIED PARAMETERS**

<b>INORGANICS</b> <b>ACIDITY</b> Std Method 2310B (4a) <b>ALKALINITY</b> Std Method 2320B EPA Method 310.2 <b>BOD</b> Std Method 5210B <b>CBOD</b> Std Method 5210B 18th Ed <b>COD</b> Std Method 5220D EPA Method 410.4 <b>CHLORIDE</b> Std Method 4500 Cl E EPA Method 300 SW846 Method 9056A <b>COLIFORM FECAL</b> Std Method 9222D (MF) Colilert 18 <b>COLIFORM TOTAL</b> Std Method 9222B (MF) <b>COLOR PC</b> Std Method 2120B (PtCo) <b>CONDUCTIVITY</b> Std Method 2510B EPA Method 120.1 <b>CYANIDE</b> Std Method 4500 CN E (Total) EPA Method 335.4 (Total) SW846 Method 9014 (Colorimetric) <b>DISSOLVED OXYGEN</b> Std Method 4500 O G <b>FLUORIDE</b> EPA Method 300 SW846 Method 9056A <b>HARDNESS TOTAL</b> Std Method 2340B <b>MBAS</b> Std Method 5540C <b>AMMONIA NITROGEN</b> EPA Method 350.1 <b>TOTAL KJELDAHL NITROGEN</b> EPA Method 351.2 <b>NO2 + NO3 NITROGEN</b> Std Method 4500 NO3 F EPA Method 353.2 EPA Method 300	SW846 Method 9056A <b>NITRATE NITROGEN</b> SW846 Method 9056A EPA Method 300- Nitrate-nitrite N minus Nitrite N <b>NITRITE NITROGEN</b> Std Method 4500 NO3 F EPA Method 300 SW846 Method 9056A EPA Method 353.2 <b>TOTAL PHOSPHORUS</b> EPA Method 365.4 <b>ORTHOPHOSPHATE</b> Std Method 4500 P F EPA Method 365.1 EPA Method 300 SW846 Method 9056A <b>pH</b> Std Method 4500 H B SW846 Method 9040C SW846 Method 9045D <b>RESIDUE SETTLEABLE</b> Std Method 2540F <b>RESIDUE TOTAL</b> Std Method 2540B <b>RESIDUE DISSOLVED 180 C</b> Std Method 2540C <b>RESIDUE SUSPENDED</b> Std Method 2540D <b>VOLATILE RESIDUE</b> EPA Method 160.4 <b>SILICA</b> EPA Method 200.7 SW846 Method 6010C <b>SULFATE</b> EPA Method 300 SW846 Method 9056A <b>SULFIDE</b> Std Method 4500 S D Hach Method 8131 <b>TEMPERATURE</b> Std Method 2550B <b>TURBIDITY</b> Std Method 2130B EPA Method 180.1  <b>METALS</b> <b>ALUMINUM</b> EPA Method 200.7	EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>ANTIMONY</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>ARSENIC</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>BARIUM</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>BERYLLIUM</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>BORON</b> EPA Method 200.7 SW846 Method 6010C <b>CADMIUM</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>CALCIUM</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>CHROMIUM TOTAL</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C SW846 Method 6020A <b>CHROMIUM HEXAVALENT</b> Std Method 3500 Cr D 18th Ed SW846 Method 7196A <b>COBALT</b> EPA Method 200.7 EPA Method 200.8 SW846 Method 6010C
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This certification requires maintenance of an acceptable quality assurance program, use of approved methodology, and satisfactory performance on evaluation samples. Laboratories are subject to civil penalties and/or decertification for infractions as set forth in 15A NCAC 2H.0807.

**Attachment I**  
**North Carolina Wastewater/Groundwater Laboratory Certification**  
**Certified Parameters Listing**

Lab Name: Environmental Conservation Laboratories, Inc.  
 Address: 102 Woodwinds Industrial Ct. Ste. A  
 Cary, NC 27511-6204

Certificate Number: 591  
 Effective Date: 01/01/2012  
 Expiration Date: 12/31/2012  
 Date of Last Amendment: 02/02/2012

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

**CERTIFIED PARAMETERS**

SW846 Method 6020A	SW846 Method 6010C	POLYCHLORINATED BIPHENYLS (PCB's)
COPPER	SW846 Method 6020A	SW846 Method 8082A
EPA Method 200.7	SILVER	PURGEABLE ORGANICS
EPA Method 200.8	EPA Method 200.7	EPA Method 624
SW846 Method 6010C	EPA Method 200.8	SW846 Method 8260B
SW846 Method 6020A	SW846 Method 6010C	Std Method 6200B
IRON	SW846 Method 6020A	BASE NEUTRAL/ACID ORGANICS
EPA Method 200.7	SODIUM	EPA Method 625
SW846 Method 6010C	EPA Method 200.7	SW846 Method 8270D
EPA Method 200.8	SW846 Method 6010C	TPH DIESEL RANGE ORGANICS
SW846 Method 6020A	EPA Method 200.8	SW846 Method 8015C
LEAD	SW846 Method 6020A	TPH GASOLINE RANGE ORGANICS
EPA Method 200.7	STRONTIUM	SW846 Method 8015C
EPA Method 200.8	EPA Method 200.7	1,2, DIBROMOETHANE (EDB)
SW846 Method 6010C	SW846 Method 6010C	EPA Method 504.1 (Includes DBCP & TCP)
SW846 Method 6020A	THALLIUM	SW846 Method 8011 (Includes DBCP)
MAGNESIUM	EPA Method 200.7	EXTRACTABLE PETROLEUM HYDROCARBONS
EPA Method 200.7	EPA Method 200.8	Massachusetts Method
EPA Method 200.8	SW846 Method 6010C	VOLATILE PETROLEUM HYDROCARBONS
SW846 Method 6010C	SW846 Method 6020A	Massachusetts Method
SW846 Method 6020A	TIN	
MANGANESE	EPA Method 200.7	
EPA Method 200.7	SW846 Method 6010C	
EPA Method 200.8	SW846 Method 6020A	
SW846 Method 6010C	TITANIUM	
SW846 Method 6020A	EPA Method 200.7	
MERCURY	SW846 Method 6010C	
EPA Method 245.1	EPA Method 200.8	
SW846 Method 7470A	SW846 Method 6020A	
SW846 Method 7471B	VANADIUM	
MOLYBDENUM	EPA Method 200.7	
EPA Method 200.7	EPA Method 200.8	
EPA Method 200.8	SW846 Method 6010C	
SW846 Method 6010C	SW846 Method 6020A	
SW846 Method 6020A	ZINC	
NICKEL	EPA Method 200.7	
EPA Method 200.7	EPA Method 200.8	
EPA Method 200.8	SW846 Method 6010C	
SW846 Method 6010C	SW846 Method 6020A	
SW846 Method 6020A	TCLP METALS	
POTASSIUM	SW846 Method 1311	
EPA Method 200.7	SPLP METALS	
SW846 Method 6010C	SW846 Method 1312	
EPA Method 200.8	ORGANICS	
SW846 Method 6020A	ORGANOCHLORINE PESTICIDES & PCBs	
SELENIUM	EPA Method 608	
EPA Method 200.7	ORGANOCHLORINE PESTICIDES	
EPA Method 200.8	SW846 Method 8081B	

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology, and satisfactory performance on evaluation samples. Laboratories are subject to civil penalties and/or decertification for infractions as set forth in 15A NCAC 2H.0807.