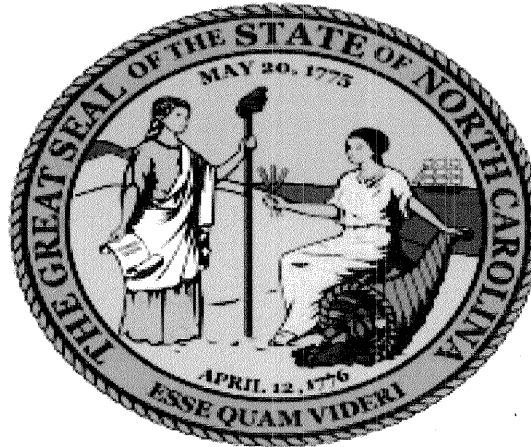


STATE OF NORTH CAROLINA DEPARTMENT OF THE
ENVIRONMENT AND NATURAL RESOURCES

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

COLUMBIA ANALYTICAL SERVICES, 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.

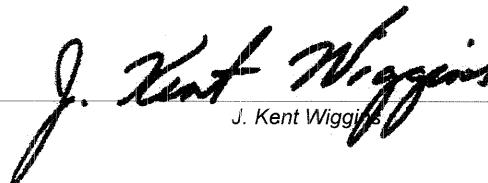
By reference 15A NCAC 2H .0800 is made a part of this certificate.

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 No

527


J. Kent Wiggins

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

Lab Name: Columbia Analytical Services, Inc.
 Address: 9143 Philips Highway, Suite 200
 Jacksonville, FL 32256

Certificate Number: 527
 Effective Date: 01/01/2012
 Expiration Date: 12/31/2012
 Date of Last Amendment:

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

INORGANICS

ALKALINITY
 Std Method 2320B
 BOD
 Std Method 5210B
 COD
 Std Method 5220C
 EPA Method 410.4
 CHLORIDE
 EPA Method 300
 SW846 Method 9056A
 CHLOROPHYLL
 Std Method 10200H
 CONDUCTIVITY
 EPA Method 120.1
 CYANIDE
 EPA Method 335.4 (Total)
 SW846 Method 9012B (Total)
 FLUORIDE
 EPA Method 300
 SW846 Method 9056A
 HARDNESS TOTAL
 Std Method 2340B
 MBAS
 Std Method 5540C
 AMMONIA NITROGEN
 EPA Method 350.1
 TOTAL KJELDAHL NITROGEN
 EPA Method 351.2
 NO2 + NO3 NITROGEN
 EPA Method 353.2
 SW846 Method 9056A
 NITRATE NITROGEN
 EPA Method 300
 NITRITE NITROGEN
 EPA Method 300
 TOTAL PHOSPHORUS
 EPA Method 365.1
 ORTHOPHOSPHATE
 EPA Method 365.1
 EPA Method 300
 OIL & GREASE
 EPA Method 1664 Rev A
 pH
 Std Method 4500 H B
 RESIDUE SETTLEABLE
 Std Method 2540F

RESIDUE TOTAL
 Std Method 2540B
 RESIDUE DISSOLVED 180 C
 Std Method 2540C
 RESIDUE SUSPENDED
 Std Method 2540D
 SULFATE
 EPA Method 300
 TOTAL ORGANIC CARBON
 Std Method 5310C
 TURBIDITY
 EPA Method 180.1

METALS

ALUMINUM
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 ANTIMONY
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 ARSENIC
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 BARIUM
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 BERYLLIUM
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 BORON
 EPA Method 200.7
 SW846 Method 6010C
 CADMIUM
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 CALCIUM
 EPA Method 200.7

SW846 Method 6010C
 CHROMIUM TOTAL
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 CHROMIUM HEXAVALENT
 Std Method 3500 Cr D
 SW846 Method 7196A
 COBALT
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 COPPER
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 IRON
 EPA Method 200.7
 SW846 Method 6010C
 LEAD
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 MAGNESIUM
 EPA Method 200.7
 SW846 Method 6010C
 MANGANESE
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 MERCURY
 EPA Method 245.1
 SW846 Method 7470A
 SW846 Method 7471B
 MOLYBDENUM
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C
 SW846 Method 6020A
 NICKEL
 EPA Method 200.7
 EPA Method 200.8
 SW846 Method 6010C

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

Lab Name: Columbia Analytical Services, Inc.
Address: 9143 Philips Highway, Suite 200
Jacksonville, FL 32256

Certificate Number: 527
Effective Date: 01/01/2012
Expiration Date: 12/31/2012
Date of Last Amendment:

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	POLYCHLORINATED BIPHENYLS (PCB's)
POTASSIUM	SW846 Method 8082A
EPA Method 200.7	PURGEABLE ORGANICS
SW846 Method 6010C	EPA Method 624
SELENIUM	SW846 Method 8260B
EPA Method 200.7	BASE NEUTRAL/ACID ORGANICS
EPA Method 200.8	EPA Method 625
SW846 Method 6010C	SW846 Method 8270D
SW846 Method 6020A	TPH DIESEL RANGE ORGANICS
SILVER	SW846 Method 8015C
EPA Method 200.7	1,2, DIBROMOETHANE (EDB)
EPA Method 200.8	SW846 Method 8011 (Includes DBCP)
SW846 Method 6010C	TCLP ORGANICS
SW846 Method 6020A	SW846 Method 1311
SODIUM	SPLP ORGANICS
EPA Method 200.7	SW846 Method 1312
SW846 Method 6010C	
STRONTIUM	
EPA Method 200.8	
SW846 Method 6020A	
THALLIUM	
EPA Method 200.7	
EPA Method 200.8	
SW846 Method 6010C	
SW846 Method 6020A	
TIN	
EPA Method 200.8	
SW846 Method 6020A	
VANADIUM	
EPA Method 200.7	
EPA Method 200.8	
SW846 Method 6010C	
SW846 Method 6020A	
ZINC	
EPA Method 200.7	
EPA Method 200.8	
SW846 Method 6010C	
SW846 Method 6020A	
TCLP METALS	
SW846 Method 1311	
SPLP METALS	
SW846 Method 1312	
ORGANICS	
ORGANOCHLORINE PESTICIDES & PCBs	
EPA Method 608	
ORGANOCHLORINE PESTICIDES	
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.