

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

Lab Name: Analytical Services, Inc.
 Address: 110 Technology Parkway
 Norcross, GA 30092

Certificate Number: 381
 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	Nitrate-nitrite N minus Nitrite N	EPA Method 200.8
ALKALINITY	NITRITE NITROGEN	SW846 Method 6010C
Std Method 2320B	EPA Method 300	SW846 Method 6020A
EPA Method 310.2	SW846 Method 9056A	BARIUM
BOD	EPA Method 353.2	EPA Method 200.7
Std Method 5210B 20th Ed	TOTAL PHOSPHORUS	EPA Method 200.8
CBOD	Std Method 4500 P E	SW846 Method 6010C
Std Method 5210B 20th Ed	ORTHOPHOSPHATE	SW846 Method 6020A
COD	Std Method 4500 P E	BERYLLIUM
Std Method 5220D	OIL & GREASE	EPA Method 200.7
EPA Method 410.4	EPA Method 1664 Rev A	EPA Method 200.8
CHLORIDE	SW846 Method 9071B	SW846 Method 6010C
EPA Method 300	pH	SW846 Method 6020A
SW846 Method 9056A	Std Method 4500 H B	CADMIUM
RESIDUAL CHLORINE	SW846 Method 9040C	EPA Method 200.7
Std Method 4500 Cl F	INORGANIC PHENOLS	EPA Method 200.8
Std Method 4500 Cl G	EPA Method 420.1	SW846 Method 6010C
CONDUCTIVITY	SW846 Method 9065	SW846 Method 6020A
Std Method 2510B	RESIDUE TOTAL	CALCIUM
EPA Method 120.1	Std Method 2540B	EPA Method 200.7
SW846 Method 9050A	RESIDUE DISSOLVED 180 C	EPA Method 200.8
CYANIDE	Std Method 2540C	SW846 Method 6010C
Std Method 4500 CN E (Total)	RESIDUE SUSPENDED	SW846 Method 6020A
SW846 Method 9014 (Colorimetric)	Std Method 2540D	CHROMIUM TOTAL
DISSOLVED OXYGEN	SULFATE	EPA Method 200.7
Std Method 4500 O G	EPA Method 300	EPA Method 200.8
FLUORIDE	SW846 Method 9056A	SW846 Method 6010C
EPA Method 300	SULFIDE	SW846 Method 6020A
SW846 Method 9056A	Std Method 4500 S D	CHROMIUM HEXAVALENT
HARDNESS TOTAL	SW846 Method 9034	Std Method 3500 Cr B 20th Ed
Std Method 2340B	TOTAL ORGANIC CARBON	SW846 Method 7196A
EPA Method 200.7	Std Method 5310B	COBALT
MBAS	SW846 Method 9060A	EPA Method 200.7
Std Method 5540C	TURBIDITY	EPA Method 200.8
AMMONIA NITROGEN	EPA Method 180.1	SW846 Method 6010C
Std Method 4500 NH3 D	METALS	SW846 Method 6020A
EPA Method 350.1	ALUMINUM	COPPER
TOTAL KJELDAHL NITROGEN	EPA Method 200.7	EPA Method 200.7
Std Method 4500 N Org B 20th Ed (NH3 D 20th Ed)	EPA Method 200.8	EPA Method 200.8
EPA Method 351.2	SW846 Method 6010C	SW846 Method 6010C
NO2 + NO3 NITROGEN	SW846 Method 6020A	SW846 Method 6020A
EPA Method 353.2	ANTIMONY	IRON
EPA Method 300	EPA Method 200.7	EPA Method 200.7
SW846 Method 9056A	EPA Method 200.8	SW846 Method 6010C
NITRATE NITROGEN	SW846 Method 6010C	SW846 Method 6020A
SW846 Method 9056A	SW846 Method 6020A	EPA Method 200.8
EPA Method 300	ARSENIC	LEAD
	EPA Method 200.7	EPA Method 200.7

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CERTIFIED PARAMETERS

EPA Method 200.8	THALLIUM
SW846 Method 6010C	EPA Method 200.7
SW846 Method 6020A	EPA Method 200.8
MAGNESIUM	SW846 Method 6010C
EPA Method 200.7	SW846 Method 6020A
EPA Method 200.8	TIN
SW846 Method 6010C	EPA Method 200.7
SW846 Method 6020A	EPA Method 200.8
MANGANESE	SW846 Method 6010C
EPA Method 200.7	SW846 Method 6020A
EPA Method 200.8	VANADIUM
SW846 Method 6010C	EPA Method 200.7
SW846 Method 6020A	EPA Method 200.8
MERCURY	SW846 Method 6010C
EPA Method 245.1	SW846 Method 6020A
SW846 Method 7470A	ZINC
SW846 Method 7471B	EPA Method 200.7
MOLYBDENUM	EPA Method 200.8
EPA Method 200.7	SW846 Method 6010C
EPA Method 200.8	SW846 Method 6020A
SW846 Method 6010C	TCLP METALS
SW846 Method 6020A	SW846 Method 1311
NICKEL	ORGANICS
EPA Method 200.7	ORGANOCHLORINE PESTICIDES &
EPA Method 200.8	PCBs
SW846 Method 6010C	EPA Method 608
SW846 Method 6020A	ORGANOCHLORINE PESTICIDES
POTASSIUM	SW846 Method 8081B
EPA Method 200.7	POLYCHLORINATED BIPHENYLS (PCB's)
SW846 Method 6010C	SW846 Method 8082A
EPA Method 200.8	PURGEABLE ORGANICS
SW846 Method 6020A	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	CHLORINATED ACID HERBICIDES
SILVER	SW846 Method 8151A
EPA Method 200.7	EPA Method 615
EPA Method 200.8	TPH DIESEL RANGE ORGANICS
SW846 Method 6010C	SW846 Method 8015C
SW846 Method 6020A	TPH GASOLINE RANGE ORGANICS
SODIUM	SW846 Method 8015C
EPA Method 200.7	1,2, DIBROMOETHANE (EDB)
SW846 Method 6010C	SW846 Method 8011 (Includes DBCP)
EPA Method 200.8	TCLP ORGANICS
SW846 Method 6020A	SW846 Method 1311