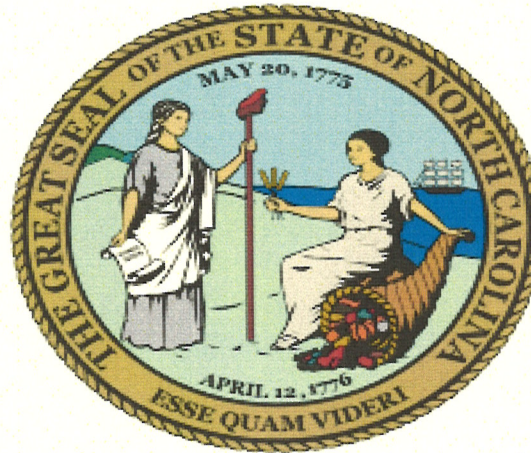


STATE OF NORTH CAROLINA DEPARTMENT OF THE
ENVIRONMENT AND NATURAL RESOURCES

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

ELEMENT ONE, 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.

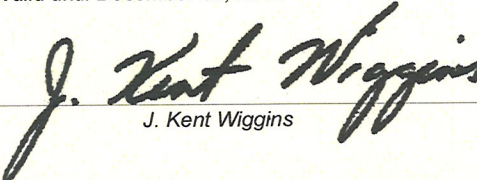
By reference 15A NCAC 2H .0800 is made a part of this certificate.

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

604


J. Kent Wiggins

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

Lab Name: Element One, Inc.
 Address: 5022-C Wrightsville Ave.
 Wilmington, NC 28403-

Certificate Number: 604
 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	NITRITE NITROGEN	BERYLLIUM
ACIDITY	Std Method 4500 NO2 B	EPA Method 200.8
Std Method 2310B (4a)	EPA Method 300	SW846 Method 6020A
ALKALINITY	TOTAL PHOSPHORUS	BORON
Std Method 2320B	Std Method 4500 P E	EPA Method 200.8
BOD	ORTHOPHOSPHATE	SW846 Method 6020A
Std Method 5210B	Std Method 4500 P E	CADMIUM
CBOD	EPA Method 300	EPA Method 200.8
Std Method 5210B 20th Ed	pH	SW846 Method 6020A
COD	Std Method 4500 H B	CALCIUM
Hach Method 8000	SW846 Method 9040C	EPA Method 200.8
CHLORIDE	SW846 Method 9045D	SW846 Method 6020A
Std Method 4500 Cl B	RESIDUE SETTLEABLE	CHROMIUM TOTAL
EPA Method 300	Std Method 2540F	EPA Method 200.8
RESIDUAL CHLORINE	RESIDUE TOTAL	SW846 Method 6020A
Hach Method 8167 (HR)	Std Method 2540B	CHROMIUM HEXAVALENT
COLIFORM FECAL	RESIDUE DISSOLVED 180 C	Std Method 3500 Cr D
Std Method 9222D (MF)	Std Method 2540C	EPA Method 218.6
COLIFORM TOTAL	RESIDUE SUSPENDED	COBALT
Std Method 9222B (MF)	Std Method 2540D	EPA Method 200.8
COLOR PC	SILICA	SW846 Method 6020A
Std Method 2120B (PtCo)	Std Method 4500 Si D 18th & 19th Ed	COPPER
CONDUCTIVITY	SULFATE	EPA Method 200.8
Std Method 2510B	Std Method 4500 SO4 D	SW846 Method 6020A
CYANIDE	EPA Method 300	IRON
Std Method 4500 CN E (Total)	SULFIDE	SW846 Method 6020A
SW846 Method 9014 (Colorimetric)	Std Method 4500 S D	EPA Method 200.8
DISSOLVED OXYGEN	SW846 Method 9034	LEAD
Std Method 4500 O C	TEMPERATURE	EPA Method 200.8
Std Method 4500 O G	Std Method 2550B	SW846 Method 6020A
FLUORIDE	TOTAL ORGANIC CARBON	MAGNESIUM
Std Method 4500 F C	Std Method 5310B	EPA Method 200.8
EPA Method 300	TURBIDITY	SW846 Method 6020A
HARDNESS TOTAL	Std Method 2130B	MANGANESE
Std Method 2340B	METALS	EPA Method 200.8
Std Method 2340C	ALUMINUM	SW846 Method 6020A
IGNITABILITY	EPA Method 200.8	MERCURY
SW846 Method 1030	SW846 Method 6020A	EPA Method 245.1
MBAS	ANTIMONY	SW846 Method 7471B
Std Method 5540C	EPA Method 200.8	MOLYBDENUM
AMMONIA NITROGEN	SW846 Method 6020A	EPA Method 200.8
Std Method 4500 NH3 D	ARSENIC	SW846 Method 6020A
TOTAL KJELDAHL NITROGEN	EPA Method 200.8	NICKEL
Std Method 4500 NH3 C	SW846 Method 6020A	EPA Method 200.8
NO2 + NO3 NITROGEN	BARIUM	SW846 Method 6020A
Std Method 4500 NO3 E	EPA Method 200.8	POTASSIUM
NITRATE NITROGEN	SW846 Method 6020A	EPA Method 200.8
EPA Method 300		SW846 Method 6020A

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

Lab Name: Element One, Inc.
Address: 5022-C Wrightsville Ave.
Wilmington, NC 28403-

Certificate Number: 604
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

SELENIUM

EPA Method 200.8
SW846 Method 6020A

SILVER

EPA Method 200.8
SW846 Method 6020A

SODIUM

EPA Method 200.8
SW846 Method 6020A

STRONTIUM

EPA Method 200.8
SW846 Method 6020A

THALLIUM

EPA Method 200.8
SW846 Method 6020A

TIN

EPA Method 200.8
SW846 Method 6020A

TITANIUM

EPA Method 200.8
SW846 Method 6020A

VANADIUM

EPA Method 200.8
SW846 Method 6020A

ZINC

EPA Method 200.8
SW846 Method 6020A

TCLP METALS

SW846 Method 1311