



Healthy People. Healthy Communities.

S.C. Department of Health and
Environmental Control

Environmental Laboratory Certification Program

In accordance with the provisions of Regulation 61-81, entitled "State Environmental Laboratory Certification Regulations"

**ACZ LABORATORIES INC
2773 DOWNHILL DR
STEAMBOAT SPRINGS, COLORADO 80487-5051**

is hereby certified to perform analyses as documented on the attached parameter list(s). This certification does not guarantee validity of the data generated, but indicates the laboratory's adherence to prescribed methodology, quality control, records keeping, and reporting procedures. This certificate is the property of S.C. DHEC and must be surrendered upon demand. This certificate is non-transferable and is valid only for the parameters and methodology listed on the attached parameter list(s).

Laboratory Director: BRETT DALKE
Certifying Authority: UT
Date of Issue: November 24, 2020
Date of Expiration: July 31, 2021
Certificate Number: 72011001

Program Manager
Office of Environmental Laboratory Certification

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM**

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CLEAN WATER ACT

INORGANIC - MINERAL

ACIDITY
ALKALINITY
CHLORIDE
FLUORIDE
HARDNESS, TOTAL (AS CaCO₃)
HYDROGEN-ION CONC. (PH)
SPECIFIC CONDUCTANCE
SULFATE

SM 2310 B-2011
SM 2320 B-2011
SM 4500-CL- E-2011
SM 4500-F C-2011
SM 2340 B-2011
SM 4500-H B-2011
SM 2510 B-2011
ASTM D516-11

ELECTROMETRIC OR PHENOLPHTHALEIN ENDPOINT
TITRIMETRIC
COLORIMETRIC AUTOMATED (FERRICYANIDE AAI)
ELECTRODE (MANUAL)
CALCULATIONS
ELECTROMETRIC MEASUREMENT
CONDUCTANCE AT 25 DEGREES C
TURBIDIMETRIC

INORGANIC - MISCELLANEOUS

CYANIDE, FREE
CYANIDE, TOTAL
OIL & GREASE
SULFIDE
TURBIDITY

OIA-1677-09
ASTM D7511-12
EPA 1664B (2010)
SM 4500-S2 D-2011
EPA 180.1 (1993)

FLOW INJECTION, LIGAND EXCHANGE AND AMPEROMETRY
FLOW INJ/UV DIG GAS DIFF AMPEROMETRY
OIL & GREASE - HEM/SGT-HEM
COLORIMETRIC (METHYLENE BLUE)
NEPHELOMETRIC

INORGANIC - NUTRIENT

AMMONIA-NITROGEN
KJELDAHL-NITROGEN
NITRATE-NITRITE (NO₂&NO₃)
NITRATE-NITROGEN
NITRITE-NITROGEN
ORTHOPHOSPHATE
PHOSPHORUS

EPA 350.1 (1993)
EPA 351.2 (1993)
EPA 353.2 (1993)
NO₃-NO₂ MINUS NO₂
EPA 353.2 (1993)
EPA 365.1 (1993)
EPA 365.1 (1993)

MANUAL DISTILLATION WITH AUTOMATED PHENATE
SEMI-AUTOMATED BLOCK DIGESTER COLORIMETRIC
CADMIUM REDUCTION (AUTOMATED)
NITRATE-NITRITE MINUS NITRITE-NITROGEN
CADMIUM REDUCTION (AUTOMATED)
ASCORBIC ACID (AUTOMATED)
ASCORBIC ACID (AUTOMATED)

INORGANIC - RESIDUE

RESIDUE, FILTERABLE (TDS)
RESIDUE, NONFILTERABLE (TSS)

SM 2540 C-2011
SM 2540 D-2011

GRAVIMETRIC (180)
GRAVIMETRIC 103-105

INORGANIC - TRACE METAL

ALUMINUM
ANTIMONY
ARSENIC
BARIUM
BORON
CADMIUM

EPA 200.7 (1994)
EPA 200.8 (1994)
EPA 200.8 (1994)
EPA 200.7 (1994)
EPA 200.7 (1994)
EPA 200.8 (1994)

ICP/AES
ICP/MS
ICP/MS
ICP/AES
ICP/AES
ICP/MS

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INORGANIC - TRACE METAL

CALCIUM	EPA 200.7 (1994)	ICP/AES
CHROMIUM	EPA 200.7 (1994)	ICP/AES
CHROMIUM, HEXAVALENT	SM 3500-CR B-2011	COLORIMETRIC (DIPHENYLCARBAZIDE)
COBALT	EPA 200.7 (1994)	ICP/AES
COPPER	EPA 200.7 (1994)	ICP/AES
IRON	EPA 200.7 (1994)	ICP/AES
LEAD	EPA 200.7 (1994)	ICP/AES
LEAD	EPA 200.8 (1994)	ICP/MS
MAGNESIUM	EPA 200.7 (1994)	ICP/AES
MANGANESE	EPA 200.7 (1994)	ICP/AES
MERCURY	EPA 1631E (2002)	PURGE AND TRAP CVAFS
MERCURY	EPA 245.1 (1994)	COLD VAPOR (MANUAL)
NICKEL	EPA 200.7 (1994)	ICP/AES
POTASSIUM	EPA 200.7 (1994)	ICP/AES
SELENIUM	EPA 200.8 (1994)	ICP/MS
SILICA, DISSOLVED	EPA 200.7 (1994)	ICP/AES
SODIUM	EPA 200.7 (1994)	ICP/AES
THALLIUM	EPA 200.8 (1994)	ICP/MS
ZINC	EPA 200.7 (1994)	ICP/AES

SOLID & HAZARDOUS WASTES

INORGANIC - HAZARDOUS WASTE CHARACTERISTICS

IGNITABILITY	EPA 1010B (2018)	PENSKY-MARTENS CLOSED-CUP
SPLP - BOTTLE EXTRACTION	EPA 1312 (1994)	SYNTHETIC PRECIPITATION LEACHING PROCEDURE
TCLP - BOTTLE EXTRACTION	EPA 1311 (1992)	TOXICITY CHARACTERISTIC LEACHING PROCEDURE

INORGANIC - MINERAL

HYDROGEN-ION CONC. (PH)	EPA 9040C (2004)	ELECTROMETRIC
HYDROGEN-ION CONC. (PH)	EPA 9045D (2004)	SOIL AND WASTE

INORGANIC - TRACE METAL

ALUMINUM	EPA 6010D (2018)	ICP/AES
ANTIMONY	EPA 6020B (2014)	ICP/MS
ARSENIC	EPA 6020B (2014)	ICP/MS
BARIUM	EPA 6010D (2018)	ICP/AES
BORON	EPA 6010D (2018)	ICP/AES

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INORGANIC - TRACE METAL

CADMIUM	EPA 6020B (2014)	ICP/MS
CALCIUM	EPA 6010D (2018)	ICP/AES
CHROMIUM	EPA 6010D (2018)	ICP/AES
COBALT	EPA 6010D (2018)	ICP/AES
COPPER	EPA 6010D (2018)	ICP/AES
IRON	EPA 6010D (2018)	ICP/AES
LEAD	EPA 6010D (2018)	ICP/MS
LEAD	EPA 6020B (2014)	ICP/MS
MAGNESIUM	EPA 6010D (2018)	ICP/AES
MANGANESE	EPA 6010D (2018)	ICP/AES
NICKEL	EPA 6010D (2018)	ICP/AES
PHOSPHORUS	EPA 6010D (2018)	ICP/AES
POTASSIUM	EPA 6010D (2018)	ICP/AES
SELENIUM	EPA 6020B (2014)	ICP/MS
SILICA, TOTAL	EPA 6010D (2018)	ICP/AES
SODIUM	EPA 6010D (2018)	ICP/AES
THALLIUM	EPA 6020B (2014)	ICP/MS
ZINC	EPA 6010D (2018)	ICP/AES