



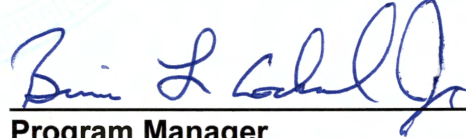
# Environmental Laboratory Certification Program

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

**WAYPOINT ANALYTICAL LLC  
2790 WHITTEN RD  
MEMPHIS, TENNESSEE 38133**

*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: MICHAEL T KAUFFMAN  
Certifying Authority: LA  
Date of Issue: September 27, 2023  
Date of Expiration: June 30, 2024  
Certificate Number: 84002001

  
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Program Manager  
Office of Environmental Laboratory Certification

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

**WAYPOINT ANALYTICAL LLC (Laboratory ID 84002)**  
**Laboratory Director: MICHAEL T KAUFFMAN**  
**Certifying Authority: LA**  
**Certificate Number: 84002001**

**Date of Issue: September 27, 2023**  
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**CLEAN WATER ACT**

**HERBICIDES**

CHLORINATED PHENOXY ACID HERBICIDES SM 6640 B-2006

**INORGANIC - DEMAND**

TOTAL ORGANIC CARBON (TOC) SM 5310 C-2014 PERSULFATE OXIDATION (TOC)

**INORGANIC - MINERAL**

HARDNESS, TOTAL (AS CaCO<sub>3</sub>) SM 2340 B-2011 CALCULATIONS  
 SPECIFIC CONDUCTANCE SM 2510 B-2011 CONDUCTANCE AT 25 DEGREES C

**INORGANIC - MISCELLANEOUS**

CYANIDE, AMEN. TO CHLORINATION SM 4500-CN G-2016 AMENABLE TO CHLORINATION (AFTER DISTILLATION)  
 CYANIDE, TOTAL SM 4500-CN B,C-2016 SAMPLE PRETREATMENT, MANUAL DISTILLATION  
 CYANIDE, TOTAL SM 4500-CN E-2016 SPECTROPHOTOMETRIC (MANUAL)  
 OIL & GREASE EPA 1664B (2010) OIL & GREASE - HEM/SGT-HEM  
 PHENOLICS, TOTAL RECOVERABLE EPA 420.1 (1978) MANUAL DISTILLATION WITH COLORIMETRIC(4AAP)

**INORGANIC - NUTRIENT**

AMMONIA-NITROGEN SM 4500-NH<sub>3</sub> D-2011 ELECTRODE  
 ORTHOPHOSPHATE SM 4500-P E-2011 ASCORBIC ACID (MANUAL SINGLE REAGENT)  
 PHOSPHORUS EPA 200.7 (1994) ICP/AES  
 PHOSPHORUS EPA 365.4 (1974) SEMI-AUTOMATED BLOCK DIGESTOR

**INORGANIC - RESIDUE**

RESIDUE, FILTERABLE (TDS) SM 2540 C-2015 GRAVIMETRIC (180)  
 RESIDUE, NONFILTERABLE (TSS) SM 2540 D-2015 GRAVIMETRIC 103-105  
 RESIDUE, TOTAL (TS) SM 2540 B-2015 GRAVIMETRIC 103-105  
 RESIDUE, VOLATILE (VS) SM 2540 E-2015 GRAVIMETRIC 550  
 TOTAL, FIXED & VOLATILE SOLIDS SM 2540G (18TH) PERCENT SOLIDS FOR BIOSOLIDS

**INORGANIC - TRACE METAL**

ALUMINUM EPA 200.7 (1994) ICP/AES  
 ALUMINUM EPA 200.8 (1994) ICP/MS  
 ANTIMONY EPA 200.7 (1994) ICP/AES  
 ANTIMONY EPA 200.8 (1994) ICP/MS



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INORGANIC - TRACE METAL

ARSENIC	EPA 200.7 (1994)	ICP/AES
ARSENIC	EPA 200.8 (1994)	ICP/MS
BARIUM	EPA 200.7 (1994)	ICP/AES
BARIUM	EPA 200.8 (1994)	ICP/MS
BERYLLIUM	EPA 200.7 (1994)	ICP/AES
BERYLLIUM	EPA 200.8 (1994)	ICP/MS
BORON	EPA 200.7 (1994)	ICP/AES
BORON	EPA 200.8 (1994)	ICP/MS
CADMIUM	EPA 200.7 (1994)	ICP/AES
CADMIUM	EPA 200.8 (1994)	ICP/MS
CALCIUM	EPA 200.7 (1994)	ICP/AES
CALCIUM	EPA 200.8 (1994)	ICP/MS
CHROMIUM	EPA 200.7 (1994)	ICP/AES
CHROMIUM	EPA 200.8 (1994)	ICP/MS
CHROMIUM, HEXAVALENT	SM 3500-CR B-2011	COLORIMETRIC (DIPHENYLCARBAZIDE)
COBALT	EPA 200.7 (1994)	ICP/AES
COBALT	EPA 200.8 (1994)	ICP/MS
COPPER	EPA 200.7 (1994)	ICP/AES
COPPER	EPA 200.8 (1994)	ICP/MS
IRON	EPA 200.7 (1994)	ICP/AES
IRON	EPA 200.8 (1994)	ICP/MS
LEAD	EPA 200.7 (1994)	ICP/AES
LEAD	EPA 200.8 (1994)	ICP/MS
MAGNESIUM	EPA 200.7 (1994)	ICP/AES
MAGNESIUM	EPA 200.8 (1994)	ICP/MS
MANGANESE	EPA 200.7 (1994)	ICP/AES
MANGANESE	EPA 200.8 (1994)	ICP/MS
MERCURY	EPA 245.1 (1994)	COLD VAPOR (MANUAL)
MOLYBDENUM	EPA 200.7 (1994)	ICP/AES
MOLYBDENUM	EPA 200.8 (1994)	ICP/MS
NICKEL	EPA 200.7 (1994)	ICP/AES
NICKEL	EPA 200.8 (1994)	ICP/MS
POTASSIUM	EPA 200.7 (1994)	ICP/AES
POTASSIUM	EPA 200.8 (1994)	ICP/MS
SELENIUM	EPA 200.7 (1994)	ICP/AES
SELENIUM	EPA 200.8 (1994)	ICP/MS
SILICA, DISSOLVED	EPA 200.7 (1994)	ICP/AES
SILVER	EPA 200.7 (1994)	ICP/AES
SILVER	EPA 200.8 (1994)	ICP/MS
SODIUM	EPA 200.7 (1994)	ICP/AES

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**INORGANIC - TRACE METAL**

SODIUM	EPA 200.8 (1994)	ICP/MS
STRONTIUM	EPA 200.7 (1994)	ICP/AES
THALLIUM	EPA 200.7 (1994)	ICP/AES
THALLIUM	EPA 200.8 (1994)	ICP/MS
TIN	EPA 200.7 (1994)	ICP/AES
TIN	EPA 200.8 (1994)	ICP/MS
TITANIUM	EPA 200.7 (1994)	ICP/AES
TITANIUM	EPA 200.8 (1994)	ICP/MS
VANADIUM	EPA 200.7 (1994)	ICP/AES
VANADIUM	EPA 200.8 (1994)	ICP/MS
ZINC	EPA 200.7 (1994)	ICP/AES
ZINC	EPA 200.8 (1994)	ICP/MS

**SOLID & HAZARDOUS WASTES**

**INORGANIC - DEMAND**

TOTAL ORGANIC CARBON (TOC)	EPA 9060A (2004)	CARBONACEOUS ANALYZER
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**INORGANIC - HAZARDOUS WASTE CHARACTERISTICS**

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

**INORGANIC - MISCELLANEOUS**

CYANIDE DISTILLATION	EPA 9010C (2004)	DISTILLATION FOR TOTAL & AMENABLE CYANIDE
CYANIDE, AMEN. TO CHLORINATION	EPA 9014 (2014)	TITRIMETRIC & MANUAL SPECTROPHOTOMETRIC
CYANIDE, TOTAL	EPA 9014 (2014)	TITRIMETRIC & MANUAL SPECTROPHOTOMETRIC
OIL & GREASE	EPA 9071B (1998)	HEM/SGT-HEM
PHENOLICS, TOTAL RECOVERABLE	EPA 9065 (1986)	SPECTROPHOTOMETRIC (MANUAL 4AAP WITH DISTILLATION)

**INORGANIC - TRACE METAL**

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



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**SOLID & HAZARDOUS WASTES**

**INORGANIC - TRACE METAL**

ANTIMONY	EPA 6020B (2014)	ICP/MS
ARSENIC	EPA 6010D (2018)	ICP/AES
ARSENIC	EPA 6020B (2014)	ICP/MS
BARIUM	EPA 6010D (2018)	ICP/AES
BARIUM	EPA 6020B (2014)	ICP/MS
BERYLLIUM	EPA 6010D (2018)	ICP/AES
BERYLLIUM	EPA 6020B (2014)	ICP/MS
BORON	EPA 6010D (2018)	ICP/AES
CADMIUM	EPA 6010D (2018)	ICP/AES
CADMIUM	EPA 6020B (2014)	ICP/MS
CALCIUM	EPA 6010D (2018)	ICP/AES
CALCIUM	EPA 6020B (2014)	ICP/MS
CHROMIUM	EPA 6010D (2018)	ICP/AES
CHROMIUM	EPA 6020B (2014)	ICP/MS
CHROMIUM, HEXAVALENT	EPA 7196A (1992)	COLORIMETRIC
COBALT	EPA 6010D (2018)	ICP/AES
COBALT	EPA 6020B (2014)	ICP/MS
COPPER	EPA 6010D (2018)	ICP/AES
COPPER	EPA 6020B (2014)	ICP/MS
IRON	EPA 6010D (2018)	ICP/AES
IRON	EPA 6020B (2014)	ICP/MS
LEAD	EPA 6010D (2018)	ICP/AES
LEAD	EPA 6020B (2014)	ICP/MS
MAGNESIUM	EPA 6010D (2018)	ICP/AES
MAGNESIUM	EPA 6020B (2014)	ICP/MS
MANGANESE	EPA 6010D (2018)	ICP/AES
MANGANESE	EPA 6020B (2014)	ICP/MS
MERCURY	EPA 7470A (1994)	COLD VAPOR TECHNIQUE LIQUID
MERCURY	EPA 7471B (2007)	COLD VAPOR TECHNIQUE SOLID
METALS DIGESTION	EPA 3005A (1992)	AQUEOUS ACID DIGESTION TOTAL OR DISSOLVED METALS FLAA OR ICP
METALS DIGESTION	EPA 3050B (1996)	SOLID ACID DIGESTION
METALS DIGESTION	EPA 3060A (1996)	ALKALINE DIGESTION HEX CHROM
MOLYBDENUM	EPA 6010D (2018)	ICP/AES
MOLYBDENUM	EPA 6020B (2014)	ICP/MS
NICKEL	EPA 6010D (2018)	ICP/AES
NICKEL	EPA 6020B (2014)	ICP/MS
PHOSPHORUS	EPA 6010D (2018)	ICP/AES
POTASSIUM	EPA 6010D (2018)	ICP/AES
POTASSIUM	EPA 6020B (2014)	ICP/MS
SELENIUM	EPA 6010D (2018)	ICP/AES

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**SOLID & HAZARDOUS WASTES**

**INORGANIC - TRACE METAL**

SELENIUM	EPA 6020B (2014)	ICP/MS
SILICA, TOTAL	EPA 6010D (2018)	ICP/AES
SILVER	EPA 6010D (2018)	ICP/AES
SILVER	EPA 6020B (2014)	ICP/MS
SODIUM	EPA 6010D (2018)	ICP/AES
SODIUM	EPA 6020B (2014)	ICP/MS
STRONTIUM	EPA 6010D (2018)	ICP/AES
THALLIUM	EPA 6010D (2018)	ICP/AES
THALLIUM	EPA 6020B (2014)	ICP/MS
TIN	EPA 6010D (2018)	ICP/AES
TIN	EPA 6020B (2014)	ICP/MS
TITANIUM	EPA 6010D (2018)	ICP/AES
TITANIUM	EPA 6020B (2014)	ICP/MS
VANADIUM	EPA 6010D (2018)	ICP/AES
VANADIUM	EPA 6020B (2014)	ICP/MS
ZINC	EPA 6010D (2018)	ICP/AES
ZINC	EPA 6020B (2014)	ICP/MS

**SEMI-VOLATILES**

EDB & DBCP BY MICROEXTRACTION AND GC      EPA 8011 (1992)

**VOLATILES (VOCs)**

TPH - GASOLINE RANGE ORGANICS (GRO)	EPA 8015C (GRO) (2007)	EPA 5035 (1996)
TPH - GASOLINE RANGE ORGANICS (GRO)	EPA 8015C (GRO) (2007)	EPA 5030B (1996)

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-----SEMI-VOLATILES-----

EPA 8011 (1992)

1,2-DIBROMO-3-CHLOROPROPANE(DBCP)  
1,2-DIBROMOETHANE (EDB)

-----VOLATILES (VOCS)-----

EPA 8015C (GRO) (2007)  
EPA 5030B (1996)

TPH - LOW BOIL. PT. (GAS.)

EPA 8015C (GRO) (2007)  
EPA 5035 (1996)

TPH - LOW BOIL. PT. (GAS.)

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————HERBICIDES————

SM 6640 B-2006

2,4,5-T

2,4,5-TP (SILVEX)

2,4-D