



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

April 18, 2016

TIMOTHY W BERGSTRESSER  
GEOCHEMICAL TESTING  
2005 N CENTER AVE  
SOMERSET, PENNSYLVANIA 15501

Laboratory ID # 89022  
Certificate # 89022001

Dear Timothy W Bergstresser:

Your certificate and associated parameter/method list(s) are enclosed. These documents now represent the certificate of record for your laboratory. Any certificate(s) and associated parameter list(s) received prior to your receipt of these documents are now null and void and should be destroyed. Please be reminded that all environmental data submitted to the Department is reviewed to ensure that the reporting laboratory possesses the necessary certification. Data reported by laboratories without the proper certification will be addressed by the affected enforcement programs.

If you have any questions or problems are detected concerning your certificate, please contact our office within ten (10) working days at (803)896-0970 or by e-mail at [labcerthelp@dhec.sc.gov](mailto:labcerthelp@dhec.sc.gov).

Sincerely,

Carol F. Smith, Director  
Office of Environmental Laboratory Certification  
Bureau of Environmental Health Services

Enclosures

*Register on our website at [www.scdhec.gov/labcert](http://www.scdhec.gov/labcert) to receive e-mail updates for the Laboratory Certification Program. Subscribing is easy and you'll automatically receive new posts to our website.*



South Carolina 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"

**GEOCHEMICAL TESTING**  
**2005 N CENTER AVE**  
**SOMERSET, PENNSYLVANIA 15501**

*is hereby certified to perform analyses as documented on the attached parameter list(s). This certification does not guarantee validity of 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: TIMOTHY W BERGSTRESSER**  
**Certifying Authority: PA**  
**Date of Issue: April 18, 2016**  
**Date of Expiration: January 31, 2017**  
**Certificate Number: 89022001**

Director

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 - DEMAND**

TOTAL ORGANIC CARBON (TOC)

SM 5310 C-2011

PERSULFATE OXIDATION (TOC)

**INORGANIC - MINERAL**

ALKALINITY  
 CHLORIDE  
 SPECIFIC CONDUCTANCE  
 SULFATE

ASTM D1067-06  
 EPA 300.0 (1993)  
 EPA 120.1 (1982)  
 EPA 300.0 (1993)

ELECTROMETRIC ENDPOINT OR PHENOLPHTHALEIN ENDPOINT  
 ION CHROMATOGRAPHY  
 WHEATSTONE BRIDGE  
 ION CHROMATOGRAPHY

**INORGANIC - MISCELLANEOUS**

CYANIDE  
 CYANIDE  
 CYANIDE  
 OIL & GREASE  
 SULFIDE  
 SULFIDE

ASTM D7511-09  
 SM 4500-CN C-2011  
 SM 4500-CN E-2011  
 EPA 1664B (2010)  
 SM 4500-S2 B-2011  
 SM 4500-S2 D-2011

FLOW INJ/UV DIG GAS DIFF AMPEROMETRY  
 MANUAL DISTILLATION WITH MGCL2  
 SPECTROPHOTOMETRIC (MANUAL)  
 OIL & GREASE - HEM/SGT-HEM  
 SEPARATION OF SOLUBLE AND INSOLUBLE SULFIDES  
 COLORIMETRIC (METHYLENE BLUE)

**INORGANIC - NUTRIENT**

AMMONIA-NITROGEN  
 NITRATE-NITROGEN

EPA 350.1 (1993)  
 EPA 300.0 (1993)

MANUAL DISTILLATION WITH AUTOMATED PHENATE  
 ION CHROMATOGRAPHY

**INORGANIC - RESIDUE**

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

SM 2540 C-2011  
 SM 2540 D-2011

GRAVIMETRIC (180)  
 GRAVIMETRIC 103-105

**SOLID & HAZARDOUS WASTES**

**HERBICIDES**

CHLORINATED HERBICIDES BY GC

EPA 8151A

**INORGANIC - TRACE METAL**

ANTIMONY  
 ANTIMONY  
 ARSENIC  
 ARSENIC

EPA 6010C  
 EPA 6020A  
 EPA 6010C  
 EPA 6020A

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



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**SOLID & HAZARDOUS WASTES**

**INORGANIC - TRACE METAL**

BARIUM	EPA 6010C	ICP/AES
BERYLLIUM	EPA 6010C	ICP/AES
BERYLLIUM	EPA 6020A	ICP/MS
CADMIUM	EPA 6010C	ICP/AES
CHROMIUM	EPA 6010C	ICP/AES
COBALT	EPA 6010C	ICP/AES
COPPER	EPA 6010C	ICP/AES
IRON	EPA 6010C	ICP/AES
LEAD	EPA 6010C	ICP/AES
LEAD	EPA 6020A	ICP/MS
MAGNESIUM	EPA 6010C	ICP/AES
MANGANESE	EPA 6010C	ICP/AES
MERCURY	EPA 7470A	COLD VAPOR TECHNIQUE LIQUID
METALS DIGESTION	EPA 3010A	AQUEOUS ACID DIGESTION TOTAL METALS FLAA OR ICP
METALS DIGESTION	EPA 3050B	SOLID ACID DIGESTION
MOLYBDENUM	EPA 6010C	ICP/AES
NICKEL	EPA 6010C	ICP/AES
POTASSIUM	EPA 6010C	ICP/AES
SELENIUM	EPA 6010C	ICP/AES
SILVER	EPA 6010C	ICP/AES
SODIUM	EPA 6010C	ICP/AES
THALLIUM	EPA 6010C	ICP/AES
THALLIUM	EPA 6020A	ICP/MS
TIN	EPA 6010C	ICP/AES
VANADIUM	EPA 6010C	ICP/AES
ZINC	EPA 6010C	ICP/AES

**PCBS AND PESTICIDES**

ORGANOCHLORINE PESTICIDES BY GC	EPA 8081B	EPA 3510C
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**SEMI-VOLATILES**

EDB & DBCP BY MICROEXTRACTION AND GC	EPA 8011	
SEMIVOLATILE ORGANICS BY GC/MS	EPA 8270D	EPA 3520C
SEMIVOLATILE ORGANICS BY GC/MS	EPA 8270D	EPA 3535A

**VOLATILES (VOCS)**

VOLATILE ORGANICS BY GC/MS	EPA 8260B	EPA 5030B
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SOLID & HAZARDOUS WASTES

-----HERBICIDES-----

EPA 8151A

2,4,5-T  
2,4,5-TP (SILVEX)  
2,4-D  
DINOSEB  
PENTACHLOROPHENOL

-----PCBS AND PESTICIDES-----

EPA 8081B  
EPA 3510C

4,4'-DDD  
4,4'-DDE  
4,4'-DDT  
ALDRIN  
ALPHA-BHC  
BETA-BHC  
CHLORDANE  
DELTA-BHC  
DIELDRIN  
ENDOSULFAN I  
ENDOSULFAN II  
ENDOSULFAN SULFATE  
ENDRIN  
ENDRIN ALDEHYDE  
GAMMA-BHC (LINDANE)  
HEPTACHLOR  
HEPTACHLOR EPOXIDE  
HEXACHLOROBENZENE  
METHOXYCHLOR  
TOXAPHENE

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

EPA 8011  
  
1,2-DIBROMO-3-CHLOROPROPANE(DBCP)  
1,2-DIBROMOETHANE (EDB)

EPA 8270D  
EPA 3520C  
  
1,4-PHENYLENEDIAMINE  
A,A-DIMETHYLPHENETHYLAMINE

EPA 8270D  
EPA 3535A

1,2,4,5-TETRACHLOROBENZENE  
1,3,5-TRINITROBENZENE (1,3,5-TNB)  
1,3-DINITROBENZENE (1,3-DNB)  
1,4-NAPHTHOQUINONE  
1-NAPHTHYLAMINE  
2,3,4,6-TETRACHLOROPHENOL  
2,4,5-TRICHLOROPHENOL  
2,4,6-TRICHLOROPHENOL  
2,4-DICHLOROPHENOL  
2,4-DIMETHYLPHENOL  
2,4-DINITROPHENOL  
2,4-DINITROTOLUENE (2,4-DNT)  
2,6-DICHLOROPHENOL  
2,6-DINITROTOLUENE (2,6-DNT)  
2-ACETYLAMINOFLUORENE  
2-CHLORONAPHTHALENE  
2-CHLOROPHENOL  
2-METHYLNAPHTHALENE  
2-METHYLPHENOL  
2-NAPHTHYLAMINE  
2-NITROANILINE  
2-NITROPHENOL  
3,3-DICHLOROBENZIDINE  
3,3-DIMETHYLBENZIDINE  
3-METHYLCHOLANTHRENE  
3-METHYLPHENOL  
3-NITROANILINE  
4,6-DINITRO-2-METHYLPHENOL  
4-AMINOBIIPHENYL  
4-BROMOPHENYLPHENYL ETHER  
4-CHLORO-3-METHYLPHENOL  
4-CHLOROANILINE  
4-CHLOROPHENYL PHENYL ETHER  
4-METHYLPHENOL  
4-NITROANILINE  
4-NITROPHENOL  
5-NITRO-O-TOLUIDINE  
7,12-DIMETHYLBENZ(A)ANTHRACENE  
ACENAPHTHENE  
ACENAPHTHYLENE  
ACETOPHENONE  
ANTHRACENE  
BENZO(A)ANTHRACENE  
BENZO(A)PYRENE  
BENZO(B)FLUORANTHENE

EPA 8270D  
EPA 3535A

BENZO(G,H,I)PERYLENE  
BENZO(K)FLUORANTHENE  
BENZYL ALCOHOL  
BIS(2-CHLORO-1-METHYLETHYL)ETHER  
BIS(2-CHLOROETHOXY)METHANE  
BIS(2-CHLOROETHYL)ETHER  
BIS(2-ETHYLHEXYL)PHTHALATE  
BUTYL BENZYL PHTHALATE  
CHLOROBENZILATE  
CHRYSENE  
DI-N-BUTYL PHTHALATE  
DI-N-OCTYL PHTHALATE  
DIALLATE  
DIBENZO(A,H)ANTHRACENE  
DIBENZOFURAN  
DIETHYL PHTHALATE  
DIMETHOATE  
DIMETHYL PHTHALATE  
DIMETHYLAMINOAZOBENZENE  
DIPHENYLAMINE  
DISULFOTON  
ETHYL METHANESULFONATE  
FAMPHUR  
FLUORANTHENE  
FLUORENE  
HEXACHLOROBENZENE  
HEXACHLOROBUTADIENE  
HEXACHLOROCYCLOPENTADIENE  
HEXACHLOROETHANE  
HEXACHLOROPROPENE  
INDENO(1,2,3-CD)PYRENE  
ISODRIN  
ISOPHORONE  
ISOSAFROLE  
KEPONE  
METHAPYRILENE  
METHYL METHANESULFONATE  
METHYL PARATHION  
N-NITROSODI-N-BUTYLAMINE  
N-NITROSODI-N-PROPYLAMINE  
N-NITROSODIETHYLAMINE  
N-NITROSODIMETHYLAMINE  
N-NITROSODIPHENYLAMINE  
N-NITROSOMETHYLETHYLAMINE  
N-NITROSOPIPERIDINE

EPA 8270D  
EPA 3535A

N-NITROSOPYRROLIDINE  
NAPHTHALENE  
NITROBENZENE (NB)  
O,O,O-TRIETHYLPHOSPHOROTHIOATE  
O-TOLUIDINE  
PARATHION  
PENTACHLOROBENZENE  
PENTACHLORONITROBENZENE  
PENTACHLOROPHENOL  
PHENACETIN  
PHENANTHRENE  
PHENOL  
PHORATE  
PRONAMIDE  
PYRENE  
SAFROLE  
THIONAZIN

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

EPA 8260B  
EPA 5030B

1,1,1,2-TETRACHLOROETHANE  
1,1,1-TRICHLOROETHANE  
1,1,2,2-TETRACHLOROETHANE  
1,1,2-TRICHLOROETHANE  
1,1-DICHLOROETHANE  
1,1-DICHLOROETHENE  
1,1-DICHLOROPROPENE  
1,2,3-TRICHLOROBENZENE  
1,2,3-TRICHLOROPROPANE  
1,2,4-TRICHLOROBENZENE  
1,2-DIBROMO-3-CHLOROPROPANE(DBCP)  
1,2-DICHLOROBENZENE  
1,2-DICHLOROETHANE  
1,2-DICHLOROPROPANE  
1,3-DICHLOROBENZENE  
1,3-DICHLOROPROPANE  
1,4-DICHLOROBENZENE  
2,2-DICHLOROPROPANE  
2-CHLOROETHYL VINYL ETHER  
2-CHLOROTOLUENE  
2-HEXANONE  
4-CHLOROTOLUENE

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SOLID & HAZARDOUS WASTES

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

EPA 8260B  
EPA 5030B  
4-METHYL-2-PENTANONE  
ACETONE  
ACETONITRILE  
ACROLEIN  
ACRYLONITRILE  
ALLYL CHLORIDE  
BENZENE  
BROMOBENZENE  
BROMOCHLOROMETHANE  
BROMODICHLOROMETHANE  
BROMOFORM  
BROMOMETHANE  
CARBON DISULFIDE  
CARBON TETRACHLORIDE  
CHLOROBENZENE  
CHLORODIBROMOMETHANE  
CHLOROETHANE  
CHLOROFORM  
CHLOROMETHANE  
CHLOROPRENE  
CIS-1,2-DICHLOROETHENE  
CIS-1,3-DICHLOROPROPENE  
DIBROMOMETHANE  
DICHLORODIFLUOROMETHANE  
ETHYL METHACRYLATE  
ETHYLBENZENE  
HEXACHLOROBUTADIENE  
IODOMETHANE  
ISOBUTYL ALCOHOL  
ISOPROPYLBENZENE  
METHACRYLONITRILE  
METHYL ETHYL KETONE (MEK)  
METHYL METHACRYLATE  
METHYL TERT BUTYL ETHER (MTBE)  
METHYLENE CHLORIDE  
N-BUTYLBENZENE  
N-PROPYLBENZENE  
NAPHTHALENE  
P-ISOPROPYLTOLUENE  
PROPIONITRILE  
SEC-BUTYLBENZENE  
STYRENE  
TERT-BUTYLBENZENE

EPA 8260B  
EPA 5030B

TETRACHLOROETHENE  
TOLUENE  
TRANS-1,2-DICHLOROETHENE  
TRANS-1,3-DICHLOROPROPENE  
TRANS-1,4-DICHLORO-2-BUTENE  
TRICHLOROETHENE  
TRICHLOROFLUOROMETHANE  
VINYL ACETATE  
VINYL CHLORIDE  
XYLENE, TOTAL