



**STATE OF ILLINOIS  
 ENVIRONMENTAL PROTECTION AGENCY  
 NELAP - RECOGNIZED**



**ENVIRONMENTAL LABORATORY ACCREDITATION**

is hereby granted to

**FIRST ENVIRONMENTAL LABORATORIES, INC.**

**1600 SHORE ROAD, SUITE D**

**NAPERVILLE, IL 60563**

**NELAP ACCREDITED**

ACCREDITATION NUMBER #100292



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

*Celeste M. Crowley*

*John D. South*

Celeste M. Crowley  
 Acting Manager  
 Environmental Laboratory Accreditation Program

John South  
 Accreditation Officer  
 Environmental Laboratory Accreditation Program

Certificate No.: 004324  
 Expiration Date: 02/28/2019  
 Issued On: 02/27/2018

**State of Illinois**  
**Environmental Protection Agency**

Certificate No.: 004324

**Awards the Certificate of Approval to:**

First Environmental Laboratories, Inc.  
1600 Shore Road, Suite D  
Naperville, IL 60563

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According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

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**FOT Name: Drinking Water, Inorganic**

**Method: SM2130B,21Ed**

**Matrix Type: Potable Water**

Turbidity

**Method: SM2320B,21Ed**

**Matrix Type: Potable Water**

Alkalinity

**Method: SM2340B,21Ed**

**Matrix Type: Potable Water**

Hardness

**Method: SM2340C,21Ed**

**Matrix Type: Potable Water**

Hardness

**Method: SM2510B,21Ed**

**Matrix Type: Potable Water**

Conductivity

**Method: SM2540C,21Ed**

**Matrix Type: Potable Water**

Total Dissolved Solids

**Method: SM4500Cl-G,21Ed**

**Matrix Type: Potable Water**

Chlorine (Free, Combined, Total)

**Method: SM4500F-C,21Ed**

**Matrix Type: Potable Water**

Fluoride

**Method: SM4500H-B,21Ed**

**Matrix Type: Potable Water**

Hydrogen Ion (pH)

**Method: SM4500NO2-B,21Ed**

**Matrix Type: Potable Water**

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**FOT Name: Drinking Water, Inorganic**

**Method: SM4500NO2-B,21Ed**

**Matrix Type: Potable Water**

Nitrite

**Method: SM4500P-E,21Ed**

**Matrix Type: Potable Water**

Orthophosphate

**Method: SM4500SiO2-C,21Ed**

**Matrix Type: Potable Water**

Silica

**Method: SM5310C,21Ed**

**Matrix Type: Potable Water**

Total Organic Carbon (TOC)

**Method: USEPA200.7R4.4**

**Matrix Type: Potable Water**

Aluminum

Arsenic

Barium

Beryllium

Cadmium

Calcium

Chromium

Copper

Hardness (calc.)

Iron

Magnesium

Manganese

Nickel

Silica

Silver

Sodium

Zinc

**Method: USEPA200.8R5.4**

**Matrix Type: Potable Water**

Lead

**Method: USEPA245.1R3.0**

**Matrix Type: Potable Water**

Mercury

**Method: USEPA335.4R1.0**

**Matrix Type: Potable Water**

Cyanide

**Method: USEPA353.2R2.0**

**Matrix Type: Potable Water**

Nitrate

**Method: USEPA375.2R2.0**

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**FOT Name: Drinking Water, Inorganic**

**Method: USEPA375.2R2.0**

**Matrix Type: Potable Water**

Sulfate

**FOT Name: Non Potable Water, Inorganic**

**Method: SM2120C,2001**

**Matrix Type: NPW**

Color

**Method: SM2130B,2001**

**Matrix Type: NPW**

Turbidity

**Method: SM2310B,1997**

**Matrix Type: NPW/SCM**

Acidity

**Method: SM2320B,1997**

**Matrix Type: NPW/SCM**

Alkalinity

**Method: SM2340B,1997**

**Matrix Type: NPW/SCM**

Hardness

**Method: SM2340C,1997**

**Matrix Type: NPW/SCM**

Hardness

**Method: SM2510B,1997**

**Matrix Type: NPW**

Specific conductance

**Method: SM2540B,1997**

**Matrix Type: NPW/SCM**

Residue (Total)

**Method: SM2540C,1997**

**Matrix Type: NPW**

Residue (TDS)

**Method: SM2540D,1997**

**Matrix Type: NPW**

Residue (TSS)

**Method: SM3500Cr-B,2009**

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**FOT Name: Non Potable Water, Inorganic**

**Method: SM3500Cr-B,2009**

**Matrix Type: NPW/SCM**

Chromium VI

**Method: SM4500Cl<sup>-</sup>-C,1997**

**Matrix Type: NPW/SCM**

Chloride

**Method: SM4500Cl<sup>-</sup>-E,1997**

**Matrix Type: NPW/SCM**

Chloride

**Method: SM4500Cl-G,2000**

**Matrix Type: NPW/SCM**

Chlorine, Free Available

Chlorine, Total Residual

**Method: SM4500CN-E,1999**

**Matrix Type: NPW/SCM**

Cyanide

**Method: SM4500CN-G,1999**

**Matrix Type: NPW/SCM**

Cyanide, Available

**Method: SM4500F-C,1997**

**Matrix Type: NPW/SCM**

Fluoride

**Method: SM4500H-B,2000**

**Matrix Type: NPW/SCM**

Hydrogen ion (pH)

**Method: SM4500NO<sub>2</sub>-B,2000**

**Matrix Type: NPW**

Nitrite

**Method: SM4500P-E,1999**

**Matrix Type: NPW/SCM**

Orthophosphate

Phosphorus

**Method: SM4500S<sub>2</sub>-D,2000**

**Matrix Type: NPW/SCM**

Sulfide

**Method: SM4500SiO<sub>2</sub>-C,1997**

**Matrix Type: NPW/SCM**

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**FOT Name: Non Potable Water, Inorganic**

**Method: SM4500SiO2-C,1997**

**Matrix Type: NPW/SCM**

Silica

**Method: SM5210B,2001**

**Matrix Type: NPW/SCM**

Biochemical oxygen demand (BOD)

Carbonaceous Biochemical Oxygen Demand (CBOI)

**Method: SM5220D,1997**

**Matrix Type: NPW/SCM**

Chemical Oxygen Demand (COD)

**Method: SM5310C,2000**

**Matrix Type: NPW/SCM**

Total Organic Carbon (TOC)

**Method: USEPA1664B**

**Matrix Type: NPW/SCM**

Oil & Grease

**Method: USEPA200.7,1994**

**Matrix Type: NPW/SCM**

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silica

Silver

Sodium

Thallium

Tin

Titanium

Vanadium

Zinc

**Method: USEPA245.1R3.0,1994**

**Matrix Type: NPW/SCM**

Mercury

**Method: USEPA335.4R1.0,1993**

**Matrix Type: NPW/SCM**

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**FOT Name: Non Potable Water, Inorganic**

**Method: USEPA335.4R1.0,1993**

**Matrix Type: NPW/SCM**

Cyanide

**Method: USEPA350.1R2.0,1993**

**Matrix Type: NPW/SCM**

Ammonia

**Method: USEPA351.2R2.0,1993**

**Matrix Type: NPW/SCM**

Total Kjeldahl Nitrogen

**Method: USEPA353.2R2.0,1993**

**Matrix Type: NPW/SCM**

Nitrate

Nitrate-nitrite (as N)

**Method: USEPA375.2R2.0,1993**

**Matrix Type: NPW**

Sulfate

**Method: USEPA420.1,1978**

**Matrix Type: NPW/SCM**

Phenolics

**Method: USEPA420.4R1.0,1993**

**Matrix Type: NPW/SCM**

Phenolics

**FOT Name: Non Potable Water, Organic**

**Method: USEPA608**

**Matrix Type: NPW/SCM**

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

Methoxychlor

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

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**FOT Name: Non Potable Water, Organic**

**Method: USEPA608**

**Matrix Type: NPW/SCM**

PCB-1260

Toxaphene

**Method: USEPA624**

**Matrix Type: NPW/SCM**

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2-Chloroethylvinyl ether

Acetonitrile

Acrolein (Propenal)

Acrylonitrile

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon tetrachloride

Chlorobenzene

Chloroethane

Chloroform

Chloromethane

cis-1,3-Dichloropropene

Dibromochloromethane

Dichloromethane (Methylene chloride)

Ethylbenzene

Methyl tert-butyl ether (MTBE)

Tetrachloroethene

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene

Trichlorofluoromethane

Vinyl chloride

Xylenes (total)

**Method: USEPA625**

**Matrix Type: NPW/SCM**

1,2,4-Trichlorobenzene

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,2-Oxybis (1-chloropropane)

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-Dinitrotoluene (2,6-DNT)

2-Chloronaphthalene

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

2-Nitrophenol

3,3'-Dichlorobenzidine

4-Bromophenyl phenyl ether

4-Chloro-3-methylphenol

4-Chlorophenyl phenyl ether



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**FOT Name: Non Potable Water, Organic**

**Method: USEPA625**

**Matrix Type: NPW/SCM**

Acenaphthene  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Bis(2-chloroethoxy) methane  
Bis(2-ethylhexyl) phthalate  
Dibenz(a,h)anthracene  
Dimethyl phthalate  
Di-n-octyl phthalate  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Isophorone  
Nitrobenzene  
N-Nitrosodi-n-propylamine  
Pentachlorophenol  
Phenol

4-Nitrophenol  
Acenaphthylene  
Benzidine  
Benzo(a)pyrene  
Benzo(g,h,i)perylene  
Benzyl butyl phthalate  
Bis(2-chloroethyl) ether  
Chrysene  
Diethyl phthalate  
Di-n-butyl phthalate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Indeno(1,2,3-cd) pyrene  
Naphthalene  
N-Nitrosodimethylamine  
N-Nitrosodiphenylamine  
Phenanthrene  
Pyrene

**FOT Name: Solid and Chemical Materials, Inorganic**

**Method: 1010A**

**Matrix Type: NPW/SCM**

Ignitability

**Method: 1311**

**Matrix Type: NPW/SCM**

TCLP (Organic and Inorganic)

**Method: 1312**

**Matrix Type: NPW/SCM**

Synthetic Precipitation Leaching Procedure

**Method: 6010C**

**Matrix Type: NPW**

Silica

**Matrix Type: NPW/SCM**

Aluminum

Antimony

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**FOT Name: Solid and Chemical Materials, Inorganic**

**Method: 6010C**

**Matrix Type: NPW/SCM**

Barium  
Boron  
Calcium  
Cobalt  
Iron  
Magnesium  
Molybdenum  
Potassium  
Silver  
Strontium  
Tin  
Vanadium

Arsenic  
Beryllium  
Cadmium  
Chromium  
Copper  
Lead  
Manganese  
Nickel  
Selenium  
Sodium  
Thallium  
Titanium  
Zinc

**Method: 7196A**

**Matrix Type: NPW/SCM**

Chromium VI

**Method: 7470A**

**Matrix Type: NPW**

Mercury

**Method: 7471B**

**Matrix Type: SCM**

Mercury

**Method: 9014**

**Matrix Type: NPW/SCM**

Cyanide

**Method: 9034**

**Matrix Type: NPW/SCM**

Sulfides

**Method: 9038**

**Matrix Type: SCM**

Sulfate

**Method: 9040C**

**Matrix Type: NPW**

Hydrogen Ion (pH)

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**FOT Name: Solid and Chemical Materials, Inorganic**

**Method: 9045D**

**Matrix Type: SCM**

Hydrogen Ion (pH)

**Method: 9060A**

**Matrix Type: NPW**

Total Organic Carbon (TOC)

**Method: 9065**

**Matrix Type: NPW/SCM**

Phenolics

**Method: 9066**

**Matrix Type: NPW**

Phenolics

**Method: 9071B**

**Matrix Type: SCM**

Oil and Grease Extractable

**Method: 9095B**

**Matrix Type: NPW/SCM**

Paint Filter

**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8011**

**Matrix Type: NPW**

1,2-Dibromo-3-chloropropane (DBCP)

1,2-Dibromoethane (EDB)

**Method: 8081A**

**Matrix Type: NPW/SCM**

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

alpha-Chlordane

beta-BHC

Chlordane - not otherwise specified

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

Endrin ketone

gamma-BHC (Lindane)

gamma-Chlordane

Heptachlor

Heptachlor epoxide

Methoxychlor

Toxaphene

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8082**

**Matrix Type: NPW/SCM**

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

**Method: 8260B**

**Matrix Type: NPW**

1,4-Dioxane

**Matrix Type: NPW/SCM**

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-Trimethylbenzene

1,2-Dibromo-3-chloropropane (DBCP)

1,2-Dibromoethane (EDB)

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,3,5-Trimethylbenzene

1,3-Dichlorobenzene

1,3-Dichloropropane

1,4-Dichlorobenzene

1-Propanol

2,2-Dichloropropane

2-Butanone (Methyl ethyl ketone, MEK)

2-Chloroethyl vinyl ether

2-Chlorotoluene

2-Hexanone

2-Methyl-1-propanol (Isobutyl alcohol)

2-Nitropropane

2-Propanol (Isopropyl alcohol)

4-Chlorotoluene

4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)

Acetone

Acetonitrile

Acrolein (Propenal)

Acrylonitrile

Allyl chloride

Benzene

Bromobenzene

Bromochloromethane

Bromodichloromethane

Bromoform

Bromomethane

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane (Dibromochloromethane)

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dibromomethane

Dichlorodifluoromethane

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8260B**

**Matrix Type: NPW/SCM**

Ethyl acetate  
Ethyl methacrylate  
Hexachlorobutadiene  
Isopropylbenzene  
Methyl acrylate  
Methyl iodide (Iodmethane)  
Methyl-t-butyl ether  
Naphthalene  
n-Butylbenzene  
o-Xylene  
p-Isopropyltoluene  
p-Xylene  
Styrene  
Tetrachloroethene  
Toluene  
trans-1,3-Dichloropropene  
Trichloroethene  
Vinyl acetate  
Xylenes (Total)

Dichloromethane (Methylene chloride)  
Ethyl ether  
Ethylbenzene  
Hexachloroethane  
Methacrylonitrile  
Methyl ethyl ketone  
Methyl methacrylate  
m-Xylene  
n-Butanol  
n-Propylbenzene  
Pentachloroethane  
Propionitrile (Ethyl Cyanide)  
sec-Butylbenzene  
tert-Butylbenzene  
Tetrahydrofuran  
trans-1,2-Dichloroethene  
trans-1,4-Dichloro-2-butene  
Trichlorofluoromethane  
Vinyl chloride

**Method: 8270C**

**Matrix Type: NPW/SCM**

1,2,4,5-Tetrachlorobenzene  
1,2-Dichlorobenzene  
1,3,5-Trinitrobenzene (1,3,5-TNB)  
1,3-Dinitrobenzene (1,3-DNB)  
1,4-Dioxane  
1,4-Phenylenediamine  
2,2-Oxybis (1-chloropropane)  
2,4,5-Trichlorophenol  
2,4-Dichlorophenol  
2,4-Dinitrophenol  
2,6-Dichlorophenol  
2-Acetylaminofluorene  
2-Chlorophenol

1,2,4-Trichlorobenzene  
1,2-Diphenylhydrazine  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
1,4-Naphthoquinone  
1-Naphthylamine  
2,3,4,6-Tetrachlorophenol  
2,4,6-Trichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrotoluene (2,4-DNT)  
2,6-Dinitrotoluene (2,6-DNT)  
2-Chloronaphthalene  
2-Methylnaphthalene

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8270C**

**Matrix Type: NPW/SCM**

2-Naphthylamine  
2-Nitrophenol  
3,3'-Dimethylbenzidine  
3-Nitroaniline  
4-Aminobiphenyl  
4-Chloro-3-methylphenol  
4-Chlorophenyl phenyl ether  
4-Nitroaniline  
5-Nitro-o-toluidine  
Acenaphthene  
Acetophenone  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzyl alcohol  
Bis(2-chloroethyl) ether  
Butyl benzyl phthalate  
Chlorobenzilate  
Diallate  
Dibenzofuran  
Dimethoate  
Di-n-butyl phthalate  
Diphenylamine  
Ethyl methanesulfonate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Hexachlorophene  
Indeno(1,2,3-cd) pyrene  
Isophorone  
Kepone  
Methyl methanesulfonate  
Methylpyrilene

2-Methylphenol  
2-Nitroaniline  
3,3'-Dichlorobenzidine  
3-Methylcholanthrene  
4,6-Dinitro-2-methylphenol  
4-Bromophenyl phenyl ether  
4-Chloroaniline  
4-Methylphenol  
4-Nitrophenol  
7,12-Dimethylbenz(a)anthracene  
Acenaphthylene  
Aniline  
Benzidine  
Benzo(a)pyrene  
Benzo(g,h,i)perylene  
Benzoic acid  
Bis(2-chloroethoxy) methane  
Bis(2-ethylhexyl) phthalate  
Carbazole  
Chrysene  
Dibenz(a,h)anthracene  
Diethyl phthalate  
Dimethyl phthalate  
Di-n-octyl phthalate  
Disulfoton  
Famphur  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Hexachloropropene  
Isodrin  
Isosafrole  
m-Cresol (3-Methylphenol)  
Methyl parathion  
Naphthalene

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8270C**

**Matrix Type: NPW/SCM**

Nitroquinoline-1-oxide  
N-Nitrosodimethylamine  
N-Nitrosodi-n-propylamine  
N-Nitrosomethylethylamine  
N-Nitrosopiperidine  
O,O,O-Triethyl phosphorothioate  
o-Toluidine  
p-Cresol (4-Methylphenol)  
Pentachloronitrobenzene  
Phenacetin  
Phenol  
Pronamide  
Pyridine  
Thionazine (Zinophos)

Nitrobenzene  
N-Nitrosodiethylamine  
N-Nitrosodi-n-butylamine (N-Nitrosodibutylamine)  
N-Nitrosodiphenylamine  
N-Nitrosomorpholine  
N-Nitrosopyrrolidine  
o-Cresol (2-Methylphenol)  
Parathion  
Pentachlorobenzene  
Pentachlorophenol  
Phenanthrene  
Phorate  
Pyrene  
Safrole