



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



ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

MICROBAC LABORATORIES, INC.

250 WEST 84TH DRIVE

MERRILLVILLE, IN 46410

NELAP ACCREDITED

ACCREDITATION NUMBER #100435



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.

Ron Turpin
Manager
Environmental Laboratory Accreditation Program

Scott D. Siders
Accreditation Officer
Environmental Laboratory Accreditation Program

Certificate No.: 002447
Expiration Date: 01/30/2011
Issued On: 02/04/2010

**State of Illinois
Environmental Protection Agency**

Certificate No.:

002447

Awards the Certificate of Approval

Microbac Laboratories, Inc.
250 West 84th Drive
Merrillville, IN 46410

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Drinking Water, Inorganic

SM4500F-C, 18Ed

Fluoride

SM4500H-B, 18Ed

Hydrogen Ion (pH)

USEPA200.7R4.4

Arsenic

Barium

Beryllium

Cadmium

Calcium

Chromium

Copper

Magnesium

Nickel

Sodium

USEPA200.8R5.4

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Thallium

USEPA200.9R2.2

Antimony

Arsenic

Cadmium

Lead

Selenium

Thallium

USEPA245.1R3.0

Mercury

USEPA335.4R1.0

Cyanide

USEPA353.2R2.0

Nitrate

Nitrite

USEPA365.1R2.0

Orthophosphate

Hazardous and Solid Waste, Inorganic

1010

Ignitability

1311

TCLP (Organic and Inorganic)

1312

Synthetic Precipitation Leaching Procedure

6010B

Aluminum

Antimony

Arsenic

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Hazardous and Solid Waste, Inorganic

6010B

Beryllium
Chromium
Iron
Manganese
Potassium
Sodium
Vanadium

Cadmium
Cobalt
Lead
Molybdenum
Selenium
Strontium
Zinc

Barium
Calcium
Copper
Magnesium
Nickel
Silver
Thallium

6020A

Aluminum
Barium
Calcium
Copper
Magnesium
Molybdenum
Selenium
Thallium

Antimony
Beryllium
Chromium
Iron
Manganese
Nickel
Silver
Vanadium

Arsenic
Cadmium
Cobalt
Lead
Mercury
Potassium
Sodium
Zinc

7041

Antimony

7060A

Arsenic

7131A

Cadmium

7196A

Chromium VI

7421

Lead

7470A

Mercury

7471A

Mercury

7841

Thallium

9012A

Cyanide

9030B

Sulfides

9034

Sulfides

9045C

Hydrogen Ion (pH)

9066

Phenolics

9095A

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Hazardous and Solid Waste, Inorganic

9095A

Paint Filter

Chapter 7/9014

Reactive Cyanide

Chapter 7/9034

Reactive Sulfide

Hazardous and Solid Waste, Organic

8015B

Diesel range organics (DRO)

Gasoline range organics (GRO)

8081A

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

beta-BHC

Chlordane - not otherwise specified

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

Endrin ketone

gamma-BHC (Lindane)

Heptachlor

Heptachlor epoxide

Methoxychlor

Toxaphene

8082

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

8151A

2,4,5-TP (Silvex)

2,4-D

8260B

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

1,2,4-Trichlorobenzene

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

2-Butanone (Methyl ethyl ketone, MEK)

2-Chloroethyl vinyl ether

2-Hexanone

2-Nitropropane

2-Pentanone

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

Acetone

Acetonitrile

Acrolein (Propenal)

Acrylonitrile

Benzene

Bromobenzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane (Dibromochloromethane)

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dichloromethane (Methylene chloride)

Ethyl acetate

Ethylbenzene

Isopropylbenzene

Methyl-t-butyl ether

m-Xylene

Naphthalene

n-Butanol

n-Butylbenzene

o-Xylene

p-Xylene

sec-Butylbenzene

Styrene

tert-Butylbenzene

Tetrachloroethene

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene

Trichlorofluoromethane

Vinyl acetate

Vinyl chloride

Xylenes (Total)

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Hazardous and Solid Waste, Organic

8270C

1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2,6-Dinitrotoluene (2,6-DNT)
2-Methylnaphthalene
2-Nitrophenol
4,6-Dinitro-2-methylphenol
4-Chloroaniline
4-Nitrophenol
Acetophenone
Benzidine
Benzo(b)fluoranthene
Benzoic acid
Bis(2-chloroethyl) ether
Chrysene
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
m-Cresol (3-Methylphenol)
N-Nitrosodimethylamine
p-Cresol (4-Methylphenol)
Phenol

1,2-Dichlorobenzene
1,4-Dichlorobenzene
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chloronaphthalene
2-Methylphenol
3,3'-Dichlorobenzidine
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether
Acenaphthene
Aniline
Benzo(a)anthracene
Benzo(g,h,i)perylene
Benzyl alcohol
Bis(2-ethylhexyl) phthalate
Dibenz(a,h)anthracene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Naphthalene
N-Nitrosodi-n-propylamine
Pentachlorophenol
Pyrene

1,2-Diphenylhydrazine
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dichlorophenol
2-Chlorophenol
2-Nitroaniline
3-Nitroaniline
4-Chloro-3-methylphenol
4-Nitroaniline
Acenaphthylene
Anthracene
Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethoxy) methane
Butyl benzyl phthalate
Dibenzofuran
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
Nitrobenzene
N-Nitrosodiphenylamine
Phenanthrene
Pyridine

Wastewater, Inorganic

SM2120B, 18Ed

Color

SM2320B, 18Ed

Alkalinity

SM2340B, 18Ed

Hardness

SM2340C, 18Ed

Hardness

SM2510B, 18Ed

Specific Conductance

SM2540B, 18Ed

Residue (Total)

SM2540C, 18Ed

Residue (TDS)

SM2540D, 18Ed

Residue (TSS)

SM2550B, 18Ed

Temperature

SM3500Cr-D, 18Ed

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<i>Wastewater, Inorganic</i>	<i>SM3500Cr-D, 18Ed</i>	Chromium VI
<i>SM4500Cl-B, 18Ed</i> Chloride		
<i>SM4500CN-CE, 18Ed</i> Cyanide		
<i>SM4500CN-CG, 18Ed</i> Cyanide-amenable to chlorination		
<i>SM4500H-B, 18Ed</i> Hydrogen Ion (pH)		
<i>SM4500O-C, 18Ed</i> Oxygen - Dissolved		
<i>SM5210B, 18Ed</i> Biochemical Oxygen Demand (BOD)	Carbonaceous Biochemical Oxygen Demand (C	
<i>USEPA160.4</i> Residue (Volatile)		
<i>USEPA1631E</i> Mercury		
<i>USEPA1664RA</i> Oil and Grease		
<i>USEPA200.7R4.4</i> Aluminum Barium Cadmium Cobalt Lead Molybdenum Selenium Sodium Vanadium	Antimony Beryllium Calcium Copper Magnesium Nickel Silica Thallium Zinc	Arsenic Boron Chromium Iron Manganese Potassium Silver Tin
<i>USEPA200.8R5.4</i> Aluminum Barium Cadmium Copper Manganese Selenium Vanadium	Antimony Beryllium Chromium Iron Molybdenum Silver Zinc	Arsenic Boron Cobalt Lead Nickel Thallium
<i>USEPA200.9R2.2</i> Antimony Lead	Arsenic Selenium	Cadmium Thallium
<i>USEPA245.1R3.0</i> Mercury		
<i>USEPA350.1R2.0</i> Ammonia		

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Wastewater, Inorganic

USEPA351.2R2.0

Total Kjeldahl Nitrogen

USEPA353.2R2.0

Nitrate-Nitrite (sum)

Nitrite

USEPA365.1R2.0

Orthophosphate (as P)

Phosphorus

USEPA410.4R2.0

Chemical Oxygen Demand (COD)

USEPA420.4R1.0

Phenolics

Wastewater, Organic

USEPA608

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

PCB-1260

Toxaphene

USEPA610

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenz(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3-cd) pyrene

Naphthalene

Phenanthrene

Pyrene

USEPA624

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

Tetrachloroethene

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene

Trichlorofluoromethane

Vinyl chloride

Xylenes (total)

USEPA625

1,2,4-Trichlorobenzene

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrotoluene (2,4-DNT)

2,6-Dinitrotoluene (2,6-DNT)

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Wastewater, Organic

2-Chlorophenol
4-Bromophenyl phenyl ether
4-Nitrophenol
Anthracene
Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethyl) ether
Dibenz(a,h)anthracene
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
N-Nitrosodimethylamine
Pentachlorophenol
Pyrene

USEPA625

2-Nitrophenol
4-Chloro-3-methylphenol
Acenaphthene
Benzidine
Benzo(b)fluoranthene
Benzyl butyl phthalate
Bis(2-ethylhexyl) phthalate
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
Naphthalene
N-Nitrosodi-n-propylamine
Phenanthrene

2-Chloronaphthalene
3,3'-Dichlorobenzidine
4-Chlorophenyl phenyl ether
Acenaphthylene
Benzo(a)anthracene
Benzo(g,h,i)perylene
Bis(2-chloroethoxy) methane
Chrysene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Nitrobenzene
N-Nitrosodiphenylamine
Phenol