



**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 #200064**



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.

Primary Accrediting Authority: KS Department of Health & Environment

Gary Germann
 Manager
 Environmental Laboratory Accreditation Program

Janet Cruse
 Accreditation Officer
 Environmental Laboratory Accreditation Program

Certificate No.: 002858
 Expiration Date: 01/30/2013
 Issued On: 01/12/2012

**State of Illinois
Environmental Protection Agency**

Certificate No.:

002858

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

Barium

Beryllium

Cadmium

Calcium

Chromium

Copper

Magnesium

Manganese

Nickel

Sodium

USEPA200.8R5.4

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Mercury

Nickel

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

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

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Hazardous and Solid Waste, Inorganic

6010B

Lead

Magnesium
Nickel
Silver
Thallium

Manganese
Potassium
Sodium
Vanadium

Molybdenum
Selenium
Strontium
Zinc

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

7196A

Chromium VI

7470A

Mercury

7471A

Mercury

9012A

Cyanide

9014

Cyanide

9030B

Sulfides

9034

Sulfides

9045C

Hydrogen Ion (pH)

9066

Phenolics

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

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Hazardous and Solid Waste, Organic	8081A	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-T	2,4,5-TP (Silvex)	2,4-D
2,4-DB	Dalapon	Dicamba
Dichloroprop	Dinoseb	MCPA
MCPP		
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	1,2,3-Trichloropropane
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, I)	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)		
8270C		
1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine
1,3-Dichlorobenzene	1,4-Dichlorobenzene	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-Chloronaphthalene	2-Chlorophenol

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Hazardous and Solid Waste, Organic

2-Methylphenol (o-Cresol)
3,3'-Dichlorobenzidine
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether
Acenaphthene
Aniline
Benzo(a)anthracene
Benzoic acid
Bis(2-chloroethyl) ether
Carbazole
Dibenzofuran
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
Nitrobenzene
N-Nitrosodiphenylamine
Phenanthrene
Pyridine

8270C

2-Nitroaniline
3-Nitroaniline
4-Chloro-3-methylphenol
4-Nitroaniline
Acenaphthylene
Anthracene
Benzo(a)pyrene
Benzyl alcohol
Bis(2-ethylhexyl) phthalate
Chrysene
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
m-Cresol (3-Methylphenol)
N-Nitrosodimethylamine
p-Cresol (4-Methylphenol)
Phenol

2-Methylnaphthalene
2-Nitrophenol
4,6-Dinitro-2-methylphenol
4-Chloroaniline
4-Nitrophenol
Acetophenone
Benzidine
Benzo(g,h,i)perlyene
Bis(2-chloroethoxy) methane
Butyl benzyl phthalate
Dibenz(a,h)anthracene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Naphthalene
N-Nitrosodi-n-propylamine
Pentachlorophenol
Pyrene

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
Chromium VI
SM4500Cl-B, 18Ed
Chloride
SM4500CN-CE, 18Ed

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<i>Wastewater, Inorganic</i>	<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	Antimony	Arsenic
Barium	Beryllium	Boron
Cadmium	Calcium	Chromium
Cobalt	Copper	Iron
Lead	Magnesium	Manganese
Molybdenum	Nickel	Potassium
Selenium	Silica	Silver
Sodium	Thallium	Tin
Vanadium	Zinc	
<i>USEPA200.8R5.4</i> Aluminum	Antimony	Arsenic
Barium	Beryllium	Boron
Cadmium	Chromium	Cobalt
Copper	Iron	Lead
Manganese	Molybdenum	Nickel
Selenium	Silver	Thallium
Vanadium	Zinc	
<i>USEPA245.1R3.0</i> Mercury		
<i>USEPA350.1R2.0</i> Ammonia		
<i>USEPA353.2R2.0</i> Nitrate-Nitrite (sum)	Nitrite	
<i>USEPA365.1R2.0</i> Orthophosphate (as P)		
<i>USEPA410.4R2.0</i> Chemical Oxygen Demand (COD)		
<i>USEPA420.1</i>		

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Wastewater, Inorganic	USEPA420.1	Phenolics
<i>USEPA420.4R1.0</i>		
Phenolics		
Wastewater, Organic		
<i>USEPA608</i>		
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	
<i>USEPA624</i>		
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)	
<i>USEPA625</i>		
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-Dinitrophenol	2,4-Dinitrotoluene (2,4-DNT)
2,6-Dinitrotoluene (2,6-DNT)	2-Chloronaphthalene	2-Chlorophenol
2-Nitrophenol	3,3'-Dichlorobenzidine	4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol	4-Chlorophenyl phenyl ether	4-Nitrophenol
Acenaphthene	Acenaphthylene	Anthracene
Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
Benzyl butyl phthalate	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether
Bis(2-ethylhexyl) phthalate	Chrysene	Dibenz(a,h)anthracene
Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Di-n-octyl phthalate	Fluoranthene	Fluorene
Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene
Hexachloroethane	Indeno(1,2,3-cd) pyrene	Isophorone
Naphthalene	Nitrobenzene	N-Nitrosodimethylamine
N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol
Phenanthrene	Phenol	Pyrene