



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



ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

SOUTHERN PETROLEUM LABORATORY INC. MI

459 HUGHES DRIVE

TRAVERSE CITY, MI 49686

**NELAP ACCREDITED
 ACCREDITATION NUMBER #100407**



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.: 002097
 Expiration Date: 08/30/2009
 Issued On: 08/19/2008

State of Illinois
Environmental Protection Agency

Certificate No.:

002097

Awards the Certificate of Approval

Southern Petroleum Laboratory Inc. MI
459 Hughes Drive
Traverse City, MI 49686

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Hazardous and Solid Waste, Inorganic

1311		
TCLP (Organic and Inorganic)		
1312		
Synthetic Precipitation Leaching Procedure		
6020		
Aluminum	Antimony	Arsenic
Barium	Beryllium	Cadmium
Chromium	Cobalt	Copper
Iron	Lead	Manganese
Nickel	Selenium	Silver
Thallium	Vanadium	Zinc
6020A		
Aluminum	Antimony	Arsenic
Barium	Beryllium	Cadmium
Chromium	Cobalt	Copper
Iron	Lead	Manganese
Nickel	Selenium	Silver
Thallium	Vanadium	Zinc
7470A		
Mercury		
7471A		
Mercury		
9045C		
Hydrogen Ion (pH)		

Hazardous and Solid Waste, Organic

8015B		
Diesel range organics (DRO)	Gasoline range organics (GRO)	
8021B		
1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene
Ethylbenzene	MTBE (Methyl-t-butyl ether)	m-Xylene
o-Xylene	p-Xylene	Toluene
Total Xylenes		
8082		
PCB-1016	PCB-1221	PCB-1232
PCB-1242	PCB-1248	PCB-1254

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Hazardous and Solid Waste, Organic

8082

PCB-1260

8260B

1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloropropene
1,2,4-Trichlorobenzene
1,2-Dibromoethane (EDB)
1,2-Dichloropropane
1,3-Dichloropropane
2-Butanone (Methyl ethyl ketone, MEK)
2-Hexanone
4-Bromofluorobenzene
Acetone
Bromobenzene
Bromoform
Carbon tetrachloride
Chloroethane
cis-1,2-Dichloroethene
Dibromomethane
Ethylbenzene
Methyl ethyl ketone
Methyl-t-butyl ether
n-Butylbenzene
p-Isopropyltoluene
Styrene
Tetrachloroethene
trans-1,3-Dichloropropene
Trichlorofluoromethane
Xylenes (Total)

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,3-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chloroethyl vinyl ether
2-Methylnaphthalene
4-Chlorotoluene
Acrylonitrile
Bromochloromethane
Bromomethane
Chlorobenzene
Chloroform
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Hexachlorobutadiene
Methyl iodide (Iodmethane)
m-Xylene
n-Propylbenzene
p-Xylene
t-Butyl alcohol
Toluene
trans-1,4-Dichloro-2-butene
Vinyl acetate

1,1,2,2-Tetrachloroethane
1,1-Dichloroethene
1,2,3-Trichloropropane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichloroethane
1,3-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Pentanone
4-Methyl-2-pentanone (Methyl isobutyl ketone)
Benzene
Bromodichloromethane
Carbon disulfide
Chlorodibromomethane (Dibromochloromethane)
Chloromethane
Dibromofluoromethane
Dichloromethane (Methylene chloride)
Isopropylbenzene
Methyl isobutyl ketone
Naphthalene
o-Xylene
sec-Butylbenzene
tert-Butylbenzene
trans-1,2-Dichloroethene
Trichloroethene
Vinyl chloride

8270C

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chlorophenol
2-Nitroaniline
3-Methylphenol (m-Cresol)
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether
4-Nitrophenol
Aniline
Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethoxy) methane
Butyl benzyl phthalate
Dibenz(a,h)anthracene
Dimethyl phthalate

1,2-Dichlorobenzene
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dinitrotoluene (2,6-DNT)
2-Methylnaphthalene
2-Nitrophenol
3-Nitroaniline
4-Chloro-3-methylphenol
4-Methylphenol (p-Cresol)
Acenaphthene
Anthracene
Benzo(b)fluoranthene
Benzoic acid
Bis(2-chloroisopropyl) ether
Carbazole
Dibenzofuran
Di-n-butyl phthalate

1,3-Dichlorobenzene
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2-Chloronaphthalene
2-Methylphenol (o-Cresol)
3,3'-Dichlorobenzidine
4,6-Dinitro-2-methylphenol
4-Chloroaniline
4-Nitroaniline
Acenaphthylene
Benzo(a)anthracene
Benzo(g,h,i)perylene
Benzyl alcohol
Bis(2-ethylhexyl) phthalate
Chrysene
Diethyl phthalate
Di-n-octyl phthalate

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Hazardous and Solid Waste, Organic

Fluorene
Hexachlorocyclopentadiene
Isophorone
Nitrobenzene
N-Nitrosodiphenylamine
Pentachlorophenol
Pyrene

8270C
Hexachlorobenzene
Hexachloroethane
m-Cresol (3-Methylphenol)
N-Nitrosodimethylamine
o-Cresol (2-Methylphenol)
Phenanthrene
Pyridine

Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Naphthalene
N-Nitrosodi-n-propylamine
p-Cresol (4-Methylphenol)
Phenol

8310

Acenaphthene
Benzo(a)anthracene
Benzo(g,h,i)perylene
Dibenz(a,h)anthracene
Indeno(1,2,3-cd) pyrene
Pyrene

Acenaphthylene
Benzo(a)pyrene
Benzo(k)fluoranthene
Fluoranthene
Naphthalene

Anthracene
Benzo(b)fluoranthene
Chrysene
Fluorene
Phenanthrene

Wastewater, Inorganic

SM2320B, 18Ed

Alkalinity

SM2540B, 18Ed

Residue (Total)

SM2540C, 18Ed

Residue (TDS)

SM2540D, 18Ed

Residue (TSS)

SM4500CL-E, 18Ed

Chloride

SM4500CN-CG, 18Ed

Cyanide-amenable to chlorination

SM4500H-B, 18Ed

Hydrogen Ion (pH)

SM4500NH3-C, 19Ed

Total Kjeldahl Nitrogen

SM4500P-F, 18Ed

Orthophosphate (as P)

Phosphorus

SM5210B, 18Ed

Biochemical Oxygen Demand (BOD)

USEPA120.1

Specific Conductance

USEPA150.1

Hydrogen Ion (pH)

USEPA160.1

Residue (TDS)

USEPA160.2

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<i>Wastewater, Inorganic</i>	<i>USEPA160.2</i>	Residue (TSS)
<i>USEPA160.3</i>		
Residue (Total)		
<i>USEPA200.8R5.4</i>		
Aluminum	Antimony	Arsenic
Barium	Beryllium	Cadmium
Chromium	Cobalt	Copper
Iron	Lead	Manganese
Nickel	Selenium	Silver
Thallium	Vanadium	Zinc
<i>USEPA245.1R3.0</i>		
Mercury		
<i>USEPA325.2</i>		
Chloride		
<i>USEPA350.1R2.0</i>		
Ammonia		
<i>USEPA351.2R2.0</i>		
Total Kjeldahl Nitrogen		
<i>USEPA353.2R2.0</i>		
Nitrate (total)	Nitrate-Nitrite (sum)	Nitrite
<i>USEPA365.2</i>		
Orthophosphate	Phosphorus	
<i>USEPA375.4</i>		
Sulfate		
<i>USEPA405.1</i>		
Biochemical Oxygen Demand (BOD)		
<i>USEPA410.4R2.0</i>		
Chemical Oxygen Demand (COD)		
<i>USEPA420.1</i>		
Phenolics		
<i>Wastewater, Organic</i>		
<i>USEPA602</i>		
Benzene	Ethylbenzene	Toluene
<i>USEPA608</i>		
PCB-1016	PCB-1221	PCB-1232
PCB-1242	PCB-1248	PCB-1254
PCB-1260		
<i>USEPA610</i>		
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

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Wastewater, Organic

USEPA610

Pyrene

USEPA624

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2-Dichloroethane
1,4-Dichlorobenzene
Benzene
Bromomethane
Chloroethane
cis-1,3-Dichloropropene
Ethylbenzene
Toluene
Trichloroethene
Xylenes (total)

1,1,2,2-Tetrachloroethane
1,1-Dichloroethene
1,2-Dichloropropane
2-Chloroethylvinyl ether
Bromodichloromethane
Carbon tetrachloride
Chloroform
Dibromochloromethane
Methyl tert-butyl ether (MTBE)
trans-1,2-Dichloroethene
Trichlorofluoromethane

1,1,2-Trichloroethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
Acetonitrile
Bromoform
Chlorobenzene
Chloromethane
Dichloromethane (Methylene chloride)
Tetrachloroethene
trans-1,3-Dichloropropene
Vinyl chloride

USEPA625

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chlorophenol
3,3'-Dichlorobenzidine
4-Chlorophenyl phenyl ether
Acenaphthylene
Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethyl) ether
Dibenz(a,h)anthracene
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
N-Nitrosodi-n-propylamine
Phenanthrene

1,2-Dichlorobenzene
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dinitrotoluene (2,6-DNT)
2-Methyl-4,6-dinitrophenol
4-Bromophenyl phenyl ether
4-Nitrophenol
Anthracene
Benzo(b)fluoranthene
Benzyl butyl phthalate
Bis(2-ethylhexyl) phthalate
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
Naphthalene
N-Nitrosodiphenylamine
Phenol

1,3-Dichlorobenzene
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2-Chloronaphthalene
2-Nitrophenol
4-Chloro-3-methylphenol
Acenaphthene
Benzo(a)anthracene
Benzo(g,h,i)perylene
Bis(2-chloroethoxy) methane
Chrysene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Nitrobenzene
Pentachlorophenol
Pyrene