

**NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER  
RICHARD F. DAINES, M.D.**



Expires 12:01 AM April 01, 2010  
Issued April 01, 2009  
Revised December 28, 2009

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. JAMES MICH  
RI ANALYTICAL LABORATORIES INC  
41 ILLINOIS AVENUE  
WARWICK, RI 02888**

**NY Lab Id No: 11726  
EPA Lab Code:**

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards for the category  
ENVIRONMENTAL ANALYSES POTABLE WATER  
All approved analytes are listed below:*

**Disinfection By-products**

Bromochloroacetic acid	EPA 552.2
Dibromoacetic acid	EPA 552.2
Dichloroacetic acid	EPA 552.2
Monobromoacetic acid	EPA 552.2
Monochloroacetic acid	EPA 552.2
Trichloroacetic acid	EPA 552.2

**Drinking Water Bacteriology**

Coliform, Total / E. coli (Qualitative)	SM 18-21 9223B (97) (Colilert)
Standard Plate Count	SM 18-21 9215B

**Drinking Water Metals I**

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

**Drinking Water Metals I**

Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

**Drinking Water Metals II**

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

**Drinking Water Metals III**

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

**Drinking Water Miscellaneous**

Turbidity	EPA 180.1 Rev. 2.0
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**Drinking Water Non-Metals**

Alkalinity	SM 18-21 2320B (97)
Chloride	EPA 300.0 Rev. 2.1
	SM 18-21 4500-Cl- B (97)
Fluoride, Total	EPA 300.0 Rev. 2.1

**Serial No.: 40937**

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**Drinking Water Non-Metals**

Orthophosphate (as P)	EPA 300.0 Rev. 2.1 EPA 300.1 Rev. 1.0 SM 18-21 4500-P E
Solids, Total Dissolved	SM 18-21 2540C (97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1 EPA 300.1 Rev. 1.0 SM 18-21 4500-SO4 E (97)

**Drinking Water Organohalide Pesticides**

Toxaphene	EPA 508
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**Drinking Water Trihalomethanes**

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2

**Fuel Additives**

Methyl tert-butyl ether	EPA 524.2
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**Volatile Aromatics**

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2

**Volatile Aromatics**

Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Carbon tetrachloride	EPA 524.2

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All approved analytes are listed below:*

**Volatile Halocarbons**

Chloroethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Vinyl chloride	EPA 524.2

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ENVIRONMENTAL ANALYSES POTABLE WATER  
All approved subcategories and/or analytes are listed below:*

**Disinfection By-products**

Free Residual Chlorine	SM 18-21 4500-CI G (00)
Total Residual Chlorine	SM 18-21 4500-CI G (00)

**Drinking Water Non-Metals**

Calcium Hardness	EPA 200.7 Rev. 4.4
Cyanide, Total	SM 18-21 4500-CN E (99)
Hydrogen Ion (pH)	SM 18-21 4500-H B (00)
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Specific Conductance	SM 18-21 2510B (97)

**Drinking Water Organohalide Pesticides**

Aldrin	EPA 508
Dieldrin	EPA 508
Heptachlor	EPA 508
Heptachlor epoxide	EPA 508
Lindane	EPA 508
Methoxychlor	EPA 508

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**ENVIRONMENTAL ANALYSES NON POTABLE WATER**  
*All approved analytes are listed below:*

**Acrylates**

Acrolein (Propenal)	EPA 624
	EPA 8260B
Acrylonitrile	EPA 624
	EPA 8260B

**Amines**

Pyridine	EPA 8270C
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**Benzidines**

3,3'-Dichlorobenzidine	EPA 625
	EPA 8270C
Benzidine	EPA 625
	EPA 8270C

**Chlorinated Hydrocarbon Pesticides**

4,4'-DDD	EPA 608
	EPA 8081A
4,4'-DDE	EPA 608
	EPA 8081A
4,4'-DDT	EPA 608
	EPA 8081A
Aldrin	EPA 608
	EPA 8081A
alpha-BHC	EPA 608
	EPA 8081A
beta-BHC	EPA 608
	EPA 8081A
Chlordane Total	EPA 608
	EPA 8081A

**Chlorinated Hydrocarbon Pesticides**

delta-BHC	EPA 608
	EPA 8081A
Dieldrin	EPA 608
	EPA 8081A
Endosulfan I	EPA 608
	EPA 8081A
Endosulfan II	EPA 608
	EPA 8081A
Endosulfan sulfate	EPA 608
	EPA 8081A
Endrin	EPA 608
	EPA 8081A
Heptachlor	EPA 608
	EPA 8081A
Heptachlor epoxide	EPA 608
	EPA 8081A
Lindane	EPA 608
	EPA 8081A
Toxaphene	EPA 608
	EPA 8081A

**Chlorinated Hydrocarbons**

1,2,4-Trichlorobenzene	EPA 625
	EPA 8270C
2-Chloronaphthalene	EPA 625
	EPA 8270C
Hexachlorobenzene	EPA 625
	EPA 8270C
Hexachlorobutadiene	EPA 625

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**Chlorinated Hydrocarbons**

Hexachlorobutadiene	EPA 8260B EPA 8270C
Hexachlorocyclopentadiene	EPA 625 EPA 8270C
Hexachloroethane	EPA 625 EPA 8270C

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A EPA 8321
2,4-D	EPA 8151A EPA 8321
Dicamba	EPA 8151A

**Demand**

Biochemical Oxygen Demand	SM 18-20 5210B (01)
Carbonaceous BOD	SM 18-20 5210B (01)
Chemical Oxygen Demand	EPA 410.4 Rev. 2.0 SM 18-20 5220D (97)

**Haloethers**

4-Bromophenylphenyl ether	EPA 625 EPA 8270C
4-Chlorophenylphenyl ether	EPA 625 EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 625 EPA 8270C
Bis(2-chloroethoxy)methane	EPA 625

**Haloethers**

Bis(2-chloroethoxy)methane	EPA 8270C
Bis(2-chloroethyl)ether	EPA 625 EPA 8270C

**Mineral**

Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1 SM 18-21 4500-Cl- B (97)
Fluoride, Total	EPA 300.0 Rev. 2.1 SM 18-21 4500-F D (97)
Hardness, Total	EPA 200.7 Rev. 4.4
Sulfate (as SO <sub>4</sub> )	EPA 300.0 Rev. 2.1

**Nitroaromatics and Isophorone**

2,4-Dinitrotoluene	EPA 625 EPA 8270C
2,6-Dinitrotoluene	EPA 625 EPA 8270C
Isophorone	EPA 625 EPA 8270C
Nitrobenzene	EPA 625 EPA 8270C

**Nitrosoamines**

N-Nitrosodimethylamine	EPA 625 EPA 8270C
N-Nitrosodi-n-propylamine	EPA 625 EPA 8270C

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**Nitrosoamines**

N-Nitrosodiphenylamine  
EPA 625  
EPA 8270C

**Polychlorinated Biphenyls**

PCB-1016 EPA 8082  
PCB-1221 EPA 608  
EPA 8082  
PCB-1232 EPA 608  
PCB-1242 EPA 8082  
PCB-1248 EPA 608  
PCB-1254 EPA 8082  
PCB-1260 EPA 608  
EPA 8082

**Nutrient**

Ammonia (as N) SM 18 4500-NH3 E  
Kjeldahl Nitrogen, Total SM 18 4500-NH3 E  
Nitrate (as N) EPA 300.0 Rev. 2.1  
SM 18-21 4500-NO3 E (00)  
Nitrite (as N) EPA 300.0 Rev. 2.1  
SM 18-21 4500-NO2 B (00)  
Orthophosphate (as P) SM 18-21 4500-P E  
Phosphorus, Total SM 18-21 4500-P E

**Phthalate Esters**

Benzyl butyl phthalate EPA 625  
EPA 8270C  
Bis(2-ethylhexyl) phthalate EPA 625  
EPA 8270C  
Diethyl phthalate EPA 625  
EPA 8270C  
Dimethyl phthalate EPA 625  
EPA 8270C  
Di-n-butyl phthalate EPA 625  
EPA 8270C  
Di-n-octyl phthalate EPA 625  
EPA 8270C

**Polynuclear Aromatics**

Acenaphthene EPA 625  
EPA 8270C  
Acenaphthylene EPA 625  
EPA 8270C  
Anthracene EPA 625  
EPA 8270C  
Benzo(a)anthracene EPA 625  
EPA 8270C  
Benzo(a)pyrene EPA 625  
EPA 8270C  
Benzo(b)fluoranthene EPA 625  
EPA 8270C  
Benzo(ghi)perylene EPA 625  
EPA 8270C

**Polychlorinated Biphenyls**

PCB-1016 EPA 608

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**Polynuclear Aromatics**

Benzo(k)fluoranthene	EPA 625 EPA 8270C
Chrysene	EPA 625 EPA 8270C
Dibenzo(a,h)anthracene	EPA 625 EPA 8270C
Fluoranthene	EPA 625 EPA 8270C
Fluorene	EPA 625 EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 625 EPA 8270C
Naphthalene	EPA 625 EPA 8270C
Phenanthrene	EPA 625 EPA 8270C
Pyrene	EPA 625 EPA 8270C

**Priority Pollutant Phenols**

2-Chlorophenol	EPA 625 EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 625 EPA 8270C
2-Nitrophenol	EPA 625 EPA 8270C
4-Chloro-3-methylphenol	EPA 625 EPA 8270C
4-Nitrophenol	EPA 625 EPA 8270C
Cresols, Total	EPA 8270C
Pentachlorophenol	EPA 625 EPA 8270C
Phenol	EPA 625 EPA 8270C

**Purgeable Aromatics**

1,2-Dichlorobenzene	EPA 624 EPA 8260B EPA 8270C
1,3-Dichlorobenzene	EPA 624 EPA 8260B EPA 8270C
1,4-Dichlorobenzene	EPA 624 EPA 8260B EPA 8270C
Benzene	EPA 624 EPA 8260B
Chlorobenzene	EPA 624

**Priority Pollutant Phenols**

2,4,5-Trichlorophenol	EPA 8270C
2,4,6-Trichlorophenol	EPA 625 EPA 8270C
2,4-Dichlorophenol	EPA 625 EPA 8270C
2,4-Dimethylphenol	EPA 625 EPA 8270C
2,4-Dinitrophenol	EPA 625 EPA 8270C

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**Purgeable Aromatics**

Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 624
	EPA 8260B
Toluene	EPA 624
	EPA 8260B
Total Xylenes	EPA 624
	EPA 8260B

**Purgeable Halocarbons**

2-Chloroethylvinyl ether	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 624
	EPA 8260B
Bromoform	EPA 624
	EPA 8260B
Bromomethane	EPA 624
	EPA 8260B
Carbon tetrachloride	EPA 624
	EPA 8260B
Chloroethane	EPA 624
	EPA 8260B
Chloroform	EPA 624
	EPA 8260B
Chloromethane	EPA 624
	EPA 8260B
cis-1,2-Dichloroethene	EPA 624
	EPA 8260B
cis-1,3-Dichloropropene	EPA 624
	EPA 8260B
Dibromochloromethane	EPA 624
	EPA 8260B
Dibromomethane	EPA 8260B
Dichlorodifluoromethane	EPA 624
	EPA 8260B
Methylene chloride	EPA 624
	EPA 8260B
Tetrachloroethene	EPA 624

**Purgeable Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 624
	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 624
	EPA 8260B
1,1,2-Trichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethene	EPA 624
	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dichloroethane	EPA 624
	EPA 8260B
1,2-Dichloropropane	EPA 624
	EPA 8260B
1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 624

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**Purgeable Halocarbons**

Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 624
	EPA 8260B
trans-1,3-Dichloropropene	EPA 624
	EPA 8260B
Trichloroethene	EPA 624
	EPA 8260B
Trichlorofluoromethane	EPA 624
	EPA 8260B
Vinyl chloride	EPA 624
	EPA 8260B

**Wastewater Metals I**

Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Iron, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Lead, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Magnesium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Potassium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Sodium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B

**Purgeable Organics**

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Carbon Disulfide	EPA 8260B
Isobutyl alcohol	EPA 8260B
Vinyl acetate	EPA 8260B

**Residue**

Solids, Total	SM 18-20 2540B (97)
Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-20 2540D (97)

**Wastewater Metals I**

Barium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B

**Wastewater Metals II**

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Antimony, Total	EPA 200.7 Rev. 4.4

**Serial No.: 40788**

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**NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER  
RICHARD F. DAINES, M.D.**



Expires 12:01 AM April 01, 2010  
Issued April 01, 2009  
Revised November 18, 2009

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. JAMES MICH  
RI ANALYTICAL LABORATORIES INC  
41 ILLINOIS AVENUE  
WARWICK, RI 02888**

**NY Lab Id No: 11726  
EPA Lab Code:**

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards for the category  
**ENVIRONMENTAL ANALYSES NON POTABLE WATER**  
All approved analytes are listed below:*

**Wastewater Metals II**

Antimony, Total	EPA 6010B
Arsenic, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Beryllium, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Chromium VI	EPA 7196A SM 18-19 3500-Cr D
Mercury, Total	EPA 245.1 Rev. 3.0 EPA 7470A
Selenium, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Vanadium, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Zinc, Total	EPA 200.7 Rev. 4.4 EPA 6010B

**Wastewater Metals III**

Cobalt, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Molybdenum, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Thallium, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Tin, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Titanium, Total	EPA 200.7 Rev. 4.4 EPA 6010B

**Wastewater Miscellaneous**

Boron, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Cyanide, Total	SM 18-21 4500-CN E (99)
Hydrogen Ion (pH)	EPA 9040B SM 18-21 4500-H B (00)
Oil & Grease Total Recoverable (HEM)	EPA 1664A
Organic Carbon, Total	SM 18-21 5310B (00)
Phenols	EPA 420.1 Rev. 1978
Silica, Dissolved	EPA 200.7 Rev. 4.4 EPA 6010B
Specific Conductance	EPA 120.1 Rev. 1982
Sulfide (as S)	EPA 9034 SM 18 4500-S E
Surfactant (MBAS)	SM 18-21 5540C (00)

**Sample Preparation Methods**

EPA 3005A  
EPA 3010A  
EPA 3020A  
EPA 9010B

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