



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3200
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: August 10, 2018
Valid To: May 9, 2020

Scope of Accreditation

Air

Volatile Organic Compounds (VOC) - Air (McAdam Road) (126)
AQM-248-16000; modified from EPA TO-15
GC-MS (Cryogenic Trap)
1-Ethyl-4-methylbenzene
1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2-Dichlorotetrafluoroethane (Freon 114)
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
1,4-Dioxane (p-dioxane)
2-Hexanone (MBK)
Acetone
Benzene
Benzyl chloride

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Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Decane
Dibromochloromethane
Dichlorodifluoromethane (Halo 12)
Dichloromethane
Ethanol
Ethyl acetate
Ethylbenzene
Heptane
Hexachlorobutadiene
Hexane
Isooctane
Isopropanol
m,p-Xylene
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl t-butyl ether (MTBE)
Naphthalene
o-Xylene
Pentane
Propylene
Styrene
Tetrachloroethene
Tetrahydrofuran
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane (Freon 11)
Vinyl acetate
Vinyl bromide
Vinyl chloride

Air (Inorganic)

Metals - Air (150)

MET-93-6103; modified from EPA 6020

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

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Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Phosphorus
Selenium
Silver
Strontium
Thallium
Vanadium
Zinc

Air (Organic)

Fixed Gases - Air (McAdam Road) (145)
AQM-248-16003; modified from ASTM D1946-90
GC/TCD
CH4
CO
CO2
N2
O2

Air (Organic)

Petroleum Hydrocarbons (PHC) - Air (McAdam Road) (138)
AQM-248-16001; modified from METHOD FOR THE DETERMINATION OF AIR-PHASE PETROLEUM
HYDROCARBONS (APH), REV 1, DEC 2009, MASSACHUSETTS DEP OF EPA
GC/MS (Cryogenic Trap)
1-Methyl-3-ethylbenzene
1,2,3-Trimethylbenzene
1,3-Butadiene
1,3,5-Trimethylbenzene
2,3-Dimethylheptane
2,3-Dimethylpentane
Benzene
Butylcyclohexane
>C10-C12 Aliphatic
>C10-C12 Aromatic
>C10-C16 Aliphatic
>C10-C16 Aromatic
>C12-C16 Aliphatic
>C12-C16 Aromatic
>C6-C8 Aliphatic
>C6-C8 Aromatic
>C8-C10 Aliphatic
>C8-C10 Aromatic
Cumene (Isopropylbenzene)
Cyclohexane
Ethylbenzene
Hexane

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Isopentane
m,p-Xylene
Methyl t-butyl ether (MTBE)
n-Decane
n-Dodecane
n-Heptane
n-Nonane
n-Octane
n-Undecane
Naphthalene
o-Xylene
p-Isopropyltoluene
Toluene

Air (Organic)

Volatile Organic Compounds (VOC) - Air (McAdam Road) (146)
AQM-248-16002; modified from EPA TO-15

GC/MS

1-Ethyl-4-methylbenzene
1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Benzene
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Dichloromethane
Ethylbenzene
Hexane
m,p-Xylene
Methyl t-butyl ether (MTBE)
o-Xylene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene

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Trichloroethene
Trichlorofluoromethane
Vinyl chloride

Oil (Organic)

Total Polychlorinated Biphenyls (PCB) - Oil (099)
ORG-91-5115; modified from EPA 3620C and EPA 3665A and EPA 8082A
GC/ECD
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

Paint (Inorganic)

Mercury - Paint (144)
MET-93-6101; modified from EPA 7471B
COLD VAPOUR AA - SPECTROMETRIC
Mercury

Paint (Inorganic)

Metals - Paint (100)
MET-93-6106; modified from EPA 6010
ICP/OES
Arsenic
Lead
Mercury

Soil

BTEX - Solids [Soil] (136)
VOL-91-5009; modified from EPA 5035C and EPA 8260C
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Soil (Inorganic)

Metals - Solids [Biosolid, Soil] (120)
MET-93-6105; EPA 3050B and EPA 6010C
ICP/OES - DIGESTION
Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron

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Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Tin
Titanium
Vanadium
Zinc

Soil (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (148)
INOR-93-6065; modified from ASTM D1140
SIEVE
75um, %retained

Soil (Organic)

Glycols - Solids [Soil] (141)
ORG-91-5116; modified from EPA 8015C
GC/FID
Diethylene glycol
Ehtylene Glycol
Propylene glycol

Soil/Sediment

Organic Carbon - Solids [Sediment, Soil] (139)
INOR-93-6062; SOIL SAMPLING & METHODS OF ANALYSIS, COLORIMETRIC-WET CHEMICAL DIGESTION
COLORIMETRIC - WET CHEMICAL DIGESTION
Fraction Organic Carbon
Organic Carbon

Solid Biosolids

Solids - Solids [Biosolid] (116)
INOR-93-6028; modified from EPA 1684 and ON MOECC E3139
GRAVIMETRIC
Total Solids
Volatile Solids

Solids (Inorganic)

Anions - Solids [Soil] (037)
INOR-93-6004; modified from SM 4110 B
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate-N
Nitrite
Phosphate-P
Sulphate

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Solids (Inorganic)

Asbestos - Solids [Bulk] (McAdam Road) (115)
INOR-249-6010; modified from EPA 600/R-93/116 and NIOSH 9002, ISSUE 2
POLARIZED LIGHT MICROSCOPY (PLM)
Bulk Asbestos

Solids (Inorganic)

Cations - Solids [Soil] (069)
INOR-93-6007; modified from EPA 6010C
ICP - EXTRACTION
Calcium
Magnesium
Potassium
Sodium

Solids (Inorganic)

Conductivity - Solids [Soil] (045)
INOR-93-6036; modified from MSA PART 3, CH 14 and SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Solids (Inorganic)

Fluoride - Solids [Soil] (080)
LAB-93-4025, INOR-93-6018; modified from EPA 1311 (PREPARATION) and SM 4500-F- C (ANALYSIS)
ELECTRODE - TCLP
Fluoride

Solids (Inorganic)

Free Cyanide - Solids [Soil] (043)
INOR-93-6052; modified from ON MOECC E3015 and SM 4500-CN- I
COLORIMETRIC
Free Cyanide

Solids (Inorganic)

Free Cyanide - Solids [Soil] (102)
LAB-93-4025, INOR-93-6052; modified from EPA 1311 (PREPARATION) and ON MOECC E3015 (ANALYSIS)
and SM 4500-CN- I (ANALYSIS)
TCLP - COLORIMETRIC
Cyanide (WAD)

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (042)
INOR-93-6029; modified from MSA PART 3 & CH25 and SM 3500-CR B
COLORIMETRIC
Hexavalent chromium

Solids (Inorganic)

Hot Water Soluble Boron - Solids [Soil] (067)
MET-93-6104; modified from EPA 6010C and MSA PART 3, CH 21
ICP - EXTRACTION
Boron (HWE)

Solids (Inorganic)

Mercury - Solids [Biosolid, Soil] (038)
MET-93-6101; modified from EPA 7471B and SM 3112 B
COLD VAPOUR AA - DIGESTION
Mercury

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Solids (Inorganic)

Mercury - Solids [Soil] (081)

LAB-93-4025, MET-93-6100; modified from EPA 1311 (PREPARATION) and EPA 245.5 (ANALYSIS) and EPA 7471A (ANALYSIS) and SM 3112 A (ANALYSIS)
COLD VAPOUR AA - TCLP

Mercury

Solids (Inorganic)

Metals - Solids [Biosolid, Soil] (039)

MET-93-6103; modified from EPA 3050B and EPA 6020B and ON MOECC E3071

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cerium

Cesium

Chromium

Cobalt

Copper

Europium

Gallium

Iron

Lanthanum

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Niobium

Phosphorus

Potassium

Rubidium

Scandium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Yttrium

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Zinc
Zirconium

Solids (Inorganic)

Metals - Solids [Soil] (078)

LAB-93-4025, MET-93-6103; EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)

ICP/MS - TCLP

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Nitrate plus Nitrite - Solids [Biosolid, Soil] (079)

LAB-93-4025, INOR-93-6053; modified from EPA 1311 (PREPARATION) and EPA 1685 (ANALYSIS) and

LACHAT 10-107-04- J (ANALYSIS)

COLORIMETRIC - TCLP

Nitrate plus Nitrite

Solids (Inorganic)

Oil and Grease - Solids [Soil] (103)

VOL-91-5011; modified from EPA 3510C and ON MOECC E3398

GRAVIMETRIC

Mineral Oil and Grease

Total Oil and Grease

Solids (Inorganic)

Percent Moisture - Solids [Soil] (101)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

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Solids (Inorganic)

pH - Solids [Biosolid, Soil] (044)

INOR 93-6031; modified from EPA 9045D and MSA PART3 CH21 and ON MOECC E3137 and SM 4500-H+ B

pH-METER

pH 1:10

pH (1:2)

Solids (Inorganic)

pH - Solids [Soil] (107)

INOR-93-6031; modified from EPA 9045D and MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 3.11

METER, CaCl₂ EXTRACTION

pH (1:2): CaCl₂

Solids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Solids [Biosolid, Soil] (110)

INOR-93-6048; modified from EPA 1687 and SM 4500-NORG D

AUTOMATED COLORIMETRY - MANUAL DIGESTION

Kjeldahl Nitrogen

Solids (Organic)

1,4-Dioxane - Solids [Soil] (122)

VOL-91-5015; modified from EPA 1624C and EPA 5035C

GC/MS - PURGE AND TRAP, ISOTOPE DILUTION

1,4-Dioxane (p-dioxane)

Solids (Organic)

Base Neutral Acid Extractables (BNA) - Solids [Soil] (074)

ORG-91-5114; modified from EPA 3510C and EPA 625 and EPA 8270D and ON MOECC E3265

GC/MS - EXTRACTION

1-Methylnaphthalene

1,1-Biphenyl

1,2,4-Trichlorobenzene

2-Chloronaphthalene

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

2-Methylnaphthalene

2-Nitrophenol

2,3,4,6-Tetrachlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4-Dinitrotoluene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,6-Dichlorophenol

2,6-Dinitrotoluene

3,3-Dichlorobenzidine

4-Bromophenylphenyl ether

4-Chloro-3-methyl phenol

4-Chlorophenoxyphenyl ether

4-Nitrophenol

Acenaphthene

Acenaphthylene

Anthracene

Azobenzene

Benzo (a) anthracene

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Benzo (a) pyrene
Benzo(b)fluoranthene
Benzo (b,i) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Diethyl phthalate
Dimethyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine + Diphenylamine
Naphthalene
Nitrobenzene
o-Cresol
p-Chloroaniline
Pentachlorophenol
Phenanthrene
Phenol
Pyrene

Solids (Organic)

Herbicides - Solids [Soil] (131)
ORG-91-5110; modified from EPA 515.1 and EPA 8151A
GC/ECD - EXTRACTION
2,3,4,6-Tetrachlorophenol
2,4-Dichlorophenoxyacetic acid
2,4-DP
2,4,5-Trichlorophenol
2,4,5-Trichlorophenoxyacetic acid
2,4,6-Trichlorophenol
Bromoxynil
Dicamba
Dichlorprop
Diclofop-methyl (as free acid)
Dinoseb
MCPA
MCP

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Pentachlorophenol
Picloram
Silvex

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (040)

ORG-91-5113; modified from EPA 3541 and EPA 3550B and EPA 3620B and EPA 8081A
GC/ECD - EXTRACTION

Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Lindane (gamma-BHC)
Methoxychlor
Mirex
o,p-DDD
op'-DDE
op'-DDT
Oxychlordane
pp'-DDD
pp'-DDE
pp'-DDT

Solids (Organic)

Organophosphorus (OP) Pesticides - Solids [Soil] (129)

ORG-91-5103; modified from EPA 3510C and EPA 8141A and EPA 8270D
GC/MS - EXTRACTION

Azinphos-methyl
Chlorpyrifos
Diazinon
Dimethoate
Malathion
Parathion-ethyl
Phorate
Terbufos

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (041)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION

F1: C6-C10

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Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (052)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC

F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (083)

VOL-91-5009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - COLD SHAKE EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Soil] (060)

ORG-91-5113; modified from EPA 3541 and EPA 3550B and EPA 3620B and EPA 8081A and EPA 8082
GC/ECD - EXTRACTION

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

Total PCB

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (005)

ORG-91-5106; modified from EPA 3541 and EPA 8270D
GC/MS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo (a) anthracene

Benzo (a) pyrene

Benzo(b)fluoranthene

Benzo (b,i) fluoranthene

Benzo (g,h,i) perylene

Benzo (k) fluoranthene

Chrysene

Dibenzo (a,h) anthracene

Fluoranthene

Fluorene

Indeno (1,2,3 - cd) pyrene

Naphthalene

Perylene

Phenanthrene

Pyrene

Quinoline

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Solids (Organic)

Total Extractable Hydrocarbons (TEH) - Solids [Soil] (016)
VOL-91-5006; modified from EPA 3541 and EPA 8015B
GC/FID - EXTRACTION
C10-C24 (Diesel)

Solids (Organic)

Total Polychlorinated Biphenyls (PCB) - Solids (151)
LAB-93-4025, ORG-91-5112; modified from EPA 1311 (PREPARATION) and EPA 8082A (ANALYSIS)
GC/ECD - TCLP
Total PCB

Solids (Organic)

Total Purgeable Hydrocarbons (TPH) - Solids [Soil] (004)
VOL-91-5004; modified from EPA 5030B and EPA 8015C
GC/FID - PURGE AND TRAP
Total Purgeable Hydrocarbons (Gas/Diesel)

Solids (Organic)

Triazine Pesticides - Solids [Soil] (130)
ORG-91-5104; modified from EPA 3510C and EPA 8270D and ON MOECC E3121
GC/MS - EXTRACTION
Alachlor
Atrazine
Cyanazine
De-ethylated atrazine
Metolachlor
Metribuzin
Prometryne
Simazine
Trifluralin

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (001)
VOL-91-5002; modified from EPA 5035C and EPA 8260C
GC/MS - PURGE AND TRAP
1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloro-1,2,2,-trifluoroethane (freon 113)
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2-Dichlorotetrafluoroethane (Freon 114)
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-dichlorobenzene
2-Hexanone (MBK)
2,2-DICHLORO-1,1,1-TRIFLOROETHANE (Freon 123)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform

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Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
CHLORODIFLUOROMETHANE (FREON 22)
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane (Freon 12)
DICHLOROFLUOROMETHANE (FREON 21)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
n-Hexane
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (082)

LAB-93-4025, VOL-91-5001; EPA 1311 (PREPARATION) and EPA 5035C (ANALYSIS) and EPA 8260B (ANALYSIS)

GC/MS - TCLP
1,1-Dichloroethylene
1,2-Dichlorobenzene
1,2-Dichloroethane
1,4-Dichlorobenzene
Benzene
Carbon tetrachloride
Chlorobenzene
Chloroform
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl ethyl ketone
o-Xylene
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride

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Tissue (Inorganic)

Metals - Tissue (127)

MET-93-6103; modified from EPA 3050B and EPA 6020C and ON MOECC E3071 and ON MOECC E3094

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cerium

Cesium

Chromium

Cobalt

Copper

Europium

Gallium

Iron

Lanthanum

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Niobium

Phosphorus

Potassium

Rubidium

Scandium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Yttrium

Zinc

Zirconium

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Vegetation

Metals - Tissue [Vegetation] (128)

MET-93-6103; modified from EPA 3050B and EPA 6020C and ON MOECC E3071 and ON MOECC E3094

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cerium

Cesium

Chromium

Cobalt

Copper

Europium

Gallium

Iron

Lanthanum

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Niobium

Phosphorus

Potassium

Rubidium

Scandium

Selenium

Silicon

Silver

Sodium

Strontium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Yttrium

Zinc

Zirconium

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Water (Inorganic) Alkalinity - Water (017) INOR-93-6000; modified from SM 2320 B TITRIMETRIC Alkalinity (pH 4.5)	OSDWA †
Water (Inorganic) Ammonia - Water (018) INOR-93-6002; modified from SM 4500-NH3 F AUTO COLOR Ammonia	OSDWA †
Water (Inorganic) Ammonia - Water (125) INOR-93-6059; modified from SM 4500-NH3 H AUTO COLOR Ammonia	OSDWA †
Water (Inorganic) Anions - Water (019) INOR-93-6004; modified from SM 4110 B ION CHROMATOGRAPHY Bromide Chloride Fluoride Nitrate Nitrite Phosphate Sulfate	OSDWA †
Water (Inorganic) Biochemical Oxygen Demand (BOD) - Water (020) INOR-93-6006; modified from SM 5210 B D.O. METER BOD (5 day) CBOD (5 day)	OSDWA †
Water (Inorganic) Carbon - Water (076) INOR-93-6049; modified from SM 5310 B IR - COMBUSTION Inorganic Carbon Organic Carbon	OSDWA †
Water (Inorganic) Chemical Oxygen Demand (COD) - Water (059) INOR-93-6042; modified from SM 5220 A and SM 5220 D SPECTROPHOTOMETRIC COD	OSDWA †
Water (Inorganic) Colour - Water (114) INOR-93-6046; modified from SM 2120 C SPECTROPHOTOMETRIC, VISIBLE True Colour	OSDWA †

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Water (Inorganic)

OSDWA †

Conductivity - Water (025)
INOR-93-6016; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Conductivity - Water (111)
INOR-93-6000; modified from SM 2510 B
AUTOMATED CONDUCTIVITY (TITRASIP)
Conductivity (25°C)

Water (Inorganic)

OSDWA †

Cyanide - Water (084)
INOR-93-6051; modified from ON MOECC E3015 and SM 4500-CN- A and SM 4500-CN- B and SM 4500-CN- C
AUTO COLOR
Cyanide (SAD)

Water (Inorganic)

OSDWA †

Cyanide - Water (085)
INOR-93-6052; modified from ON MOECC E3015 and SM 4500-CN- I
AUTO COLOR
Free Cyanide

Water (Inorganic)

Dissolved Metals - Water (028)
MET-93-6103; modified from EPA 200.8 and EPA 3005A
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt
Copper
Europium
Gallium
Iron
Lanthanum
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Niobium
Phosphorus
Potassium
Rubidium
Scandium

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Selenium
Silicon
Silver
Sodium
Strontium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

Water (Inorganic)

Dissolved Metals - Water (086)

MET-93-6105; modified from EPA 6010C

ICP/OES

Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Tin
Titanium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Ferrous Iron - Water (140)

INOR-93-6056; modified from SM 3500-FE B

COLORIMETRIC

Ferrous Iron (Fe²⁺)

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Water (Inorganic) Fluoride - Water (026) INOR-93-6018; modified from SM 4500-F- C SELECTIVE ION ELECTRODE Fluoride	OSDWA †
Water (Inorganic) Hexavalent Chromium - Water (046) INOR-93-6034; modified from SM 3500-CR B COLORIMETRIC Hexavalent Chromium	OSDWA †
Water (Inorganic) Mercury - Water (027) MET-93-6100; modified from EPA 245.2 and SM 3112 B COLD VAPOUR AA - DIGESTION Mercury	OSDWA †
Water (Inorganic) Oil and Grease - Water (098) VOL-91-5011; modified from SM 5520 A and SM 5520 B and SM 5520 E and SM 5520 F GRAVIMETRIC Mineral Oil and Grease Total Oil and Grease	OSDWA †
Water (Inorganic) pH - Water (029) INOR-93-6020; modified from SM 4500-H+ B pH METER pH	OSDWA †
Water (Inorganic) pH - Water (104) INOR-93-6000; modified from SM 4500-H+ B PC TITRATE pH	OSDWA †
Water (Inorganic) Phenols - Water (075) INOR-93-6050; ON MOECC E3179 and SM 5530 D TECHNICON Total Phenolics	OSDWA †
Water (Inorganic) Reactive Silica - Water (071) INOR-93-6047; modified from EPA 370.1 AUTO COLOR Reactive Silica	OSDWA †
Water (Inorganic) Residual Chlorine - Water (119) INOR-93-6055; modified from SM 4500-CL F TITRATION Total Chlorine	OSDWA †
Water (Inorganic) Solids - Water [Liquid Biosolid] (032) INOR-93-6028; modified from EPA 1684 and ON MOECC E3139 and SM 2540 B and SM 2540 C and SM 2540 D GRAVIMETRIC Total Dissolved Solids Total Solids	OSDWA †

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Total Suspended Solids	
Volatile Suspended Solids	
Water (Inorganic)	OSDWA †
Sulphide - Water (113)	
INOR-93-6054; modified from SM 4500-S2- D	
COLORIMETRIC	
Sulphide	
Water (Inorganic)	OSDWA †
Tannin and Lignin - Water (124)	
INOR-93-6058; modified from SM 5550-B	
COLORIMETRIC	
Tannin and Lignin	
Water (Inorganic)	OSDWA †
Total Kjeldahl Nitrogen (TKN) - Water (072)	
INOR-93-6048; modified from EPA 351.2 and SM 4500-NORG D	
AUTO COLOR	
Total Kjeldahl Nitrogen	
Water (Inorganic)	OSDWA †
Total Metals - Water (070)	
MET-93-6103; modified from EPA 200.8 and EPA 3005A and EPA 3010A and EPA 6020C	
ICP/MS - DIGESTION	
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Cerium	
Cesium	
Chromium	
Cobalt	
Copper	
Europium	
Gallium	
Iron	
Lanthanum	
Lead	
Manganese	
Molybdenum	
Nickel	
Niobium	
Rubidium	
Scandium	
Selenium	
Silver	
Strontium	
Thallium	
Thorium	
Titanium	
Tungsten	
Uranium	

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Vanadium
Yttrium
Zinc
Zirconium

Water (Inorganic)

OSDWA †

Total Metals - Water (121)
MET-93-6105; modified from EPA 6010C
ICP/OES - DIGESTION

Aluminum
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Tin
Titanium
Vanadium
Zinc
Zirconium

Water (Inorganic)

OSDWA †

Total Phosphorus - Water (030)
INOR-93-6022; modified from SM 4500-P B and SM 4500-P E
COLORIMETRIC
Total Phosphorus

Water (Inorganic)

Total Phosphorus - Water (112)
INOR-93-6057; modified from LACHAT 10-115-01-3A
AUTOMATED COLORIMETRY - IN-LINE
Total Phosphorus

Water (Inorganic)

OSDWA †

Turbidity - Water (057)
INOR-93-6044; modified from SM 2130 B
TURBIDIMETRIC
Turbidity

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Water (Inorganic)	OSDWA †
UV Absorbance and Transmittance - Water (132)	
INOR-93-6061; SM 5910 B	
UV SPECTROPHOTOMETER	
UV Absorbance (254 nm)	
UV Transmittance (254 nm)	
Water (Microbiology)	OSDWA †
Coliforms - Water (056)	
MIC-93-7010; modified from EPA 1604 and ON MOECC E3433	
MEMBRANE FILTRATION (MI AGAR)	
Escherichia coli (E. coli)	
Total Coliforms	
Water (Microbiology)	OSDWA †
Coliforms - Water (135)	
MIC-93-7010; ON MOECC E3407	
MEMBRANE FILTRATION (DC-AGAR)	
Background Colony Counts	
Escherichia coli (E. coli)	
Total Coliforms	
Water (Microbiology)	OSDWA †
Fecal (Thermotolerant) Coliforms - Water (055)	
MIC-93-7000; modified from SM 9222 D	
MEMBRANE FILTRATION (mFC)	
Fecal (Thermotolerant) Coliforms	
Water (Microbiology)	OSDWA †
Heterotrophic Plate Count (HPC) - Water (050)	
MIC-93-7020; modified from SM 9215 C	
SPREAD PLATE	
Heterotrophic Plate Count (HPC)	
Water (Organic)	
1,4-Dioxane - Water (123)	
VOL-91-5015; modified from EPA 1624C and EPA 5030C	
GC/MS - PURGE AND TRAP, ISOTOPE DILUTION	
1,4-Dioxane (p-dioxane)	
Water (Organic)	OSDWA †
Base Neutral Acid Extractables (BNA) - Water (073)	
ORG-91-5114; modified from EPA 3510C and EPA 625 and EPA 8270D and ON MOECC E3265	
GC/MS - EXTRACTION	
1-Methylnaphthalene	
1,1-Biphenyl	
1,2,4-Trichlorobenzene	
2-Chloronaphthalene	
2-Chlorophenol	
2-Methyl-4,6-dinitrophenol	
2-Methylnaphthalene	
2-Nitrophenol	
2,3,4,6-tetrachlorophenol	
2,4-dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	
2,4,5-Trichlorophenol	

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2,4,6-trichlorophenol
2,6-Dichlorophenol
2,6-Dinitrotoluene
3,3-Dichlorobenzidine
4-Bromophenylphenyl ether
4-Chloro-3-methyl phenol
4-Chlorophenoxyphenyl ether
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Azobenzene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo(b)fluoranthene
Benzo (b,i) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Dibenzo (a,h) anthracene
Diethyl phthalate
Dimethyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3 - cd) pyrene
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine + Diphenylamine
Naphthalene
Nitrobenzene
o-Cresol
p-Chloroaniline
Pentachlorophenol
Phenanthrene
Phenol
Pyrene

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Water (Organic)

BTEX - Water (137)
VOL-91-5010; EPA 5030B and EPA 8260C
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Water (Organic)

Carbamates and Urea Pesticides - Water (013)
ORG-91-5101; modified from EPA 531.1 and EPA 632 and ON MOECC E3158
HPLC - EXTRACTION
Aldicarb
Bendiocarb
Carbaryl
Carbofuran
Diuron
Temephos
Triallate

OSDWA †

Water (Organic)

Diquat and Paraquat - Water (012)
ORG-91-5102; modified from EPA 549.2
HPLC - EXTRACTION
Diquat
Paraquat

OSDWA †

Water (Organic)

Glycols - Water (142)
ORG-5116; modified from EPA 8015C
GC/FID
Diethylene glycol
Ethylene glycol
Propylene glycol

Water (Organic)

Haloacetic Acids (HAA) - Water (143)
ORG-91-5121; modified from EPA 552.3
GC/ECD
Bromochloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
Monobromoacetic acid (MBAA)
Monochloroacetic acid (MCAA)
Total Haloacetic Acids (Calculation)
Trichloroacetic acid (TCAA)

OSDWA †

Water (Organic)

Herbicides - Water (034)
ORG-91-5110; modified from EPA 515.1 and EPA 8151A
GC/ECD - EXTRACTION
2,3,4,6-tetrachlorophenol
2,4-dichlorophenol
2,4-dichlorophenoxyacetic acid
2,4-DP
2,4,5-Trichlorophenol

OSDWA †

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2,4,5-trichlorophenoxyacetic acid
2,4,6-trichlorophenol
Bromoxynil
Dicamba
Dichloroprop
Diclofop-methyl (as free acid)
Dinoseb
MCPA
MCPP
Pentachlorophenol
Picloram
Silvex

Water (Organic)

Neutral Chlorinated Extractables - Water (106)
ORG-91-5111; modified from EPA 3541 and EPA 8121
GC/ECD - EXTRACTION
1,2,3-Trichlorobenzene
1,2,3,4-Tetrachlorobenzene (1,2,3,4-TCB)
1,2,3,5-Tetrachlorobenzene
1,2,4-Trichlorobenzene
1,2,4,5-Tetrachlorobenzene (1,2,4,5-TCB)
1,3,5-Trichlorobenzene
2,4,5-Trichlorotoluene
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Pentachlorobenzene

Water (Organic)

Nonylphenol and Nonylphenol Ethoxylates - Water (McAdam Road) (147)
ORG-250-5117; modified from ASTM D7485-16
UHPLC/MS
Bisphenol (BPA)
Nonylphenol Diethoxylate (NP2EO)
Nonylphenol Monoethoxylates (NP1EO)
Octylphenol (OP)
p-Nonylphenol technical (NP)

Water (Organic)

Organochlorine (OC) Pesticides and Polychlorinated Biphenyls (PCB) - Water (033)
ORG-91-5112; modified from EPA 3510C and EPA 8081B and EPA 8082A
GC/ECD - EXTRACTION
A -BHC
a - Chlordane
Aldrin
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
beta-BHC

OSDWA †

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delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
g - Chlordane
Heptachlor
Heptachlor Epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Lindane (gamma-BHC)
Mirex
o,p' - DDT
o,p-DDD
op'-DDE
Oxychlordane
p,p' - DDT
p,p' Methoxychlor
pp'-DDD
pp'-DDE
Total PCB

Water (Organic)

OSDWA †

Organophosphorus (OP) Pesticides - Water (008)
ORG-91-5103; modified from EPA 3510C and EPA 8141A and EPA 8270D
GC/MS - EXTRACTION
Azinphos-methyl
Chlorpyrifos (ethyl)
Diazinon
Dimethoate
Malathion
Parathion (ethyl)
Phorate
Terbufos

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (063)
VOL-91-5010; modified from ON MOECC E3421
GC/FID - PURGE AND TRAP
F1: C6-C10

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (064)
VOL-91-5010; modified from ON MOECC E3421
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

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Water (Organic) OSDWA †
Petroleum Hydrocarbons (PHC) - Water (068)
VOL-91-5010; modified from ON MOECC E3421
GRAVIMETRIC
F4G: Gravimetric

Water (Organic) OSDWA †
Polycyclic Aromatic Hydrocarbons (PAH) - Water (007)
ORG-91-5105; modified from EPA 3510C and EPA 8270D
GC/MS - EXTRACTION
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo(b)fluoranthene
Benzo (b,i) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Chrysene
Dibenzo (a,h) anthracene
Fluoranthene
Fluorene
Indeno (1,2,3 - cd) pyrene
Naphthalene
Perylene
Phenanthrene
Pyrene
Quinoline

Water (Organic)
Total Extractable Hydrocarbons (TEH) - Water (015)
VOL-91-5005; modified from EPA 3510C and EPA 8015C
GC/FID - EXTRACTION
C10-C24 (Diesel)

Water (Organic)
Total Purgeable Hydrocarbons (TPH) - Water (011)
VOL-91-5003; modified from EPA 5030B and EPA 8015C
GC/FID - PURGE AND TRAP
Total Purgeable Hydrocarbons (Gas/Diesel)

Water (Organic) OSDWA †
Triazine Pesticides - Water (009)
ORG-91-5104; modified from EPA 3510C and EPA 8270D and ON MOECC E3121
GC/MS- EXTRACTION
Alachlor
Atrazine
Cyanazine
De-ethylated atrazine
Metolachlor
Metribuzin
Prometryne
Simazine

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Water (Organic)

Volatile Organic Compounds (VOC) - Water (006)

VOL-91-5001; modified from EPA 5030B and EPA 8260D

GC/MS - PURGE AND TRAP

1,1-Dichloroethane
 1,1-dichloroethylene
 1,1,1-Trichloroethane
 1,1,1,2-Tetrachloroethane
 1,1,2-Trichloro-1,2,2,-trifluoroethane (freon 113)
 1,1,2-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,2-dichlorobenzene
 1,2-dichloroethane
 1,2-Dichloropropane
 1,2-Dichlorotetrafluoroethane (Freon 114)
 1,2,4-Trichlorobenzene
 1,3-Dichlorobenzene
 1,3,5-Trimethylbenzene
 1,4-dichlorobenzene
 2-Hexanone (MBK)
 2,2-DICHLORO-1,1,1-TRIFLOROETHANE (Freon 123)
 Acetone (2-Propanone)
 Benzene
 Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon Tetrachloride
 Chlorobenzene
 Chlorodibromomethane
 CHLORODIFLUOROMETHANE (FREON 22)
 Chloroethane
 Chloroform
 Chloromethane
 cis-1,2-Dichloroethylene
 cis-1,3-Dichloropropene
 Dichlorodifluoromethane (Freon 12)
 DICHLOROFLUOROMETHANE (FREON 21)
 Dichloromethane
 Ethylbenzene
 Ethylene Dibromide
 m/p-xylene
 Methyl Ethyl Ketone
 Methyl isobutyl Ketone
 Methyl t-butyl ether
 n-Hexane
 o-xylene
 Styrene
 Tetrachloroethylene
 Toluene
 Total Trihalomethanes (Calculation)
 Total Xylenes (Calculation)
 trans-1,2-Dichloroethylene

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trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Water (Organic)

Volatile Organic Compounds (VOC) - Water (149)

VOL-91-5017; modified from EPA 8260

GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-Dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Hexanone (MBK)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Hexane
m/p-xylene
Methyl ethyl ketone
Methyl isobutyl ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

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