



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3149
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: July 29, 2020
Valid To: April 2, 2021

Scope of Accreditation

Air (Inorganic)

Fixed Gases - Air (180)
WT-TM-1703; modified from ASTM D1946-90 and EPA 3C
GC/FID & TCD
Carbon dioxide (CO₂)
Carbon monoxide (CO)
Methane
Nitrogen
Oxygen

Air (Organic)

Reduced Sulphur Compounds - Air (201)
WT-TM-1704; modified from ASTM 5504-12
GC-SCD - PASSIVATE CANISTER
2-Ethylthiophene
2-Methylthiophene
2,5-Dimethylthiophene
3-Methylthiophene
Butyl mercaptan (1-Butanethiol)
Carbon disulfide
Carbonyl sulfide
Diethyl disulfide
Diethyl sulfide
Dimethyl disulfide
Dimethyl sulfide

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Ethyl mercaptan (Ethanethiol)
Ethyl methyl sulfide
Hydrogen Sulfide
Isobutyl mercaptan (2-Methyl-1-propanethiol)
Isopropyl mercaptan (2-Propanethiol)
Methyl mercaptan (Methanethiol)
Propyl mercaptan (1-Propanethiol)
sec-Butyl mercaptan (2-Butanethiol)
tert-Butyl mercaptan (2-Methyl-2-propanethiol, tert-Butylthiol, TBM)
Tetrahydrothiophene
Thiophene

Air (Organic)

Volatile Organic Compounds (VOC) - Air (202)

WT-TM-1701; modified from EPA TO-15

GC-MS - PASSIVATE CANISTER

1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane (Ethylene dibromide)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trimethylbenzene
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-Butanone (Methyl ethyl ketone, MEK)
2-Chlorotoluene
2-Ethyltoluene
2-Hexanone (Methyl butyl ketone, MBK)
2-Methyl-1,3-butadiene (Isoprene)
2-Methylbutane (Isopentane)
2-Methylpentane
2-Propanol (Isopropyl alcohol)
2,2,4-Trimethylpentane (Isooctane)
3-Methylhexane
3-Methylpentane
4-Ethyltoluene (1-Ethyl-4-methylbenzene)
4-isopropyltoluene (p-Cymene)

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Acetone (2-Propanone)
Acetonitrile
Acrolein (Propenal)
Acrylonitrile
Aliphatic >C10-C12
Aliphatic >C12-C16
Aliphatic C6-C8
Aliphatic >C8-C10
Allyl chloride (3-chloropropene)
Aromatic >C10-C12 fraction
Aromatic >C10-C16 fraction
Aromatic C6-C8 fraction
Aromatic >C8-C10 fraction
Benzene
Benzyl chloride (a-Chlorotoluene)
Bromodichloromethane
Bromoethene (Vinyl bromide)
Bromoform
Bromomethane
Butane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodifluoromethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane (Methylene Chloride)
Ethanol
Ethyl acetate
Ethylbenzene
F1
F2
Freon 113
Freon 114
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl isobutyl ketone (MIBK)

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Methyl methacrylate
Methyl tert-butyl ether (MTBE)
n-Decane
n-Heptane
n-Hexane
n-Pentane
n-Propylbenzene
Naphthalene
Nonane
o-Xylene
Octane
Propene (Propylene)
Styrene
tert-Butanol (2-Methyl-2-propanol)
Tetrachloroethylene
Tetrahydrofuran (THF)
Toluene
Total C>10-C12
Total C>12-C16
Total C>8-C10
Total C6-C8
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl acetate

Air (Organic)

Volatile Organic Compounds (VOC) - Air (203)

WT-TM-1700; modified from EPA TO-17

GC-MS - SORBENT TUBE

1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromoethane (Ethylene dibromide)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3-Dichloropropane

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1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
1,4-Dioxane (p-dioxane)
2-Chlorotoluene
2-Methylnaphthalene
2-Propanol (Isopropyl alcohol)
2,2-Dichloropropane
2,2,4-Trimethylpentane (Isooctane)
4-Chlorotoluene (p-Chlorotoluene)
4-Ethyltoluene (1-Ethyl-4-methylbenzene)
4-isopropyltoluene (p-Cymene)
4-Phenylcyclohexene
Acetone (2-Propanone)
Allyl chloride (3-chloropropene)
Benzene
Benzyl chloride (a-Chlorotoluene)
Bromochloromethane
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cyclohexane
Decamethylcyclopentasiloxane
Decamethyltetrasiloxane
Decane
Dibromochloromethane
Dichlorodifluoromethane
Dichloromethane (Methylene Chloride)
Dodecamethylcyclohexasiloxane
Dodecamethylpentasiloxane
Ethyl acetate
Ethylbenzene
Heptane
Hexachlorobutadiene
Hexamethylcyclotrisiloxane
Hexamethyldisiloxane
Hexane
m,p-Xylene
n-Butylbenzene
n-Propylbenzene
Naphthalene

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Nonane
o-Xylene
Octamethylcyclotetrasiloxane
Octamethyltrisiloxane
Octane
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane

Biosolids (Microbiology)

Escherichia coli (E. coli) - Biosolids (087)
WT-TM-1200; modified from ON MOECC E3433
MEMBRANE FILTRATION (mFC-BCIG)
Escherichia coli (E. coli)

Biosolids (Organic)

Nonylphenol and Nonylphenol Ethoxylates - Biosolids (165)
WT-TM-1521; modified from JOURNAL OF CHROMATOGRAPHY A, 849 (1999) 467-482
LC/MS - EXTRACTION
Bisphenol A
Nonylphenol Diethoxylate (NP2EO)
Nonylphenol Ethoxylates
Nonylphenol Monoethoxylates (NP1EO)
Nonylphenols
Octylphenol Diethoxylate (OP2EO)
Octylphenol Monoethoxylate (OP1EO)
Octylphenol (OP)

Serum (Organic)

Perfluorinated Compounds (PFC) - Biomaterials [Serum] (196)
WT-TM-1565; J. ANALY. TOXICOL. 34: 400-410
LC-MS/MS
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluorohexane sulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

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Soil (Organic)

Pesticides - Solids [Soil] (208)

WT-TM-1589; modified from ON MOECC E3501

LC-MS/MS

Atrazine

Atrazine-2-hydroxy

Azoxystrobin

Boscalid

Bromacil

Carbaryl

Chlorantraniliprole

DCPMU

Desethyl atrazine

Desethyl atrazine + Desisopropyl atrazine

Desisopropyl atrazine

Diuron

Fludioxonil

Imidacloprid

Linuron

Metalaxyl

Myclobutanil

Propiconazole

Pyraclostrobin

Simazine

Tebuthiuron

Trifloxystrobin

Triticonazole

Soil (Organic)

Phenoxy Acid Herbicides - Solids [Soil] (210)

WT-TM-1591; modified from ON MOECC E3552

LC-MS/MS

2,4-Dichlorophenoxyacetic acid (2,4-D)

2,4-Dichlorophenoxybutyric acid (2,4-DB)

2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)

2,4,5-TP (Silvex)

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)

Asulam

Brodifacoum

Bromoxynil

Clopyralid

Dicamba

Diflufenican

Dinoseb

MCPA (2-Methyl-4-chlorophenoxyacetic acid)

MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)

MCPA (Mecoprop, Methylchlorophenoxypropionic acid)

Nicarbazin

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Oryzalin
Picloram
Propanil
Terbacil
Triclopyr

Solids (Inorganic)

Acid Volatile Sulphide (AVS) - Solids (226)
WT-TM-1003; SM 4500-S2- J
COLORIMETRIC
Acid Volatile Sulphide

Solids (Inorganic)

Ammonia - Solids [Soil] (096)
WT-TM-1013; modified from EPA 350.1
COLORIMETRIC
Ammonia-N

Solids (Inorganic)

Ammonia - Solids [Soil] (225)
WT-TM-1043; modified from JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42
(ANALYSIS) and SM 4500-NH3 B (PREPARATION)
FLUORIMETRY
Ammonia

Solids (Inorganic)

Anions - Solids (136)
NA-TM-1001, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 300.1 (ANALYSIS)
ION CHROMATOGRAPHY - TCLP
Fluoride
Nitrate
Nitrite

Solids (Inorganic)

Anions - Solids [Sludge, Soil] (041)
NA-TM-1001, WT-TP-2013; modified from EPA 300.1
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate-N
Nitrite
Sulphate

Solids (Inorganic)

Conductivity - Solids [Soil] (109)
WT-TM-1010; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Solids (Inorganic)

Cyanide - Solids [Soil] (079)
NA-TM-1003, WT-TP-2011; modified from ASTM D7237-15A and EPA 9013A and ISO 14403 and SM 4500-CN- I
AUTO COLOR - DIGESTION
Cyanide, Free
Cyanide (SAD)

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Cyanide (WAD)

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (158)

WT-TM-1035; modified from EPA 1636 and EPA 3060 and EPA 7199

ION CHROMATOGRAPHY

Hexavalent Chromium

Solids (Inorganic)

Hot Water Soluble Boron - Solids [Soil] (186)

NA-TP-2010, WT-TM-1026; modified from EPA 6010C and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2008

ICP/OES

Boron (Hot Water Soluble)

Solids (Inorganic)

Mercury - Solids (139)

NA-TM-1005, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 1631E (ANALYSIS)

COLD VAPOUR AA - SPECTROMETRIC - TCLP

Mercury

Solids (Inorganic)

Mercury - Solids [Compost, Sludge, Soil] (050)

NA-TM-1005, NA-TP-2004; modified from EPA 1631E and EPA 200.2

CVAAS

Mercury

Solids (Inorganic)

Metals - Solids (138)

NA-TM-1002, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Iron

Lead

Lithium

Magnesium

Manganese

Potassium

Selenium

Silver

Sodium

Strontium

Sulphur (Sulfur)

Thallium

Tin

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Uranium
Zinc
Zirconium

Solids (Inorganic)

Metals - Solids [Compost, Sediment, Sludge, Soil] (006)
NA-TM-1002, NA-TP-2004; modified from EPA 200.2 and EPA 6020B

ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Sulphur (Sulfur)
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Metals - Solids [Soil] (187)
WT-TM-1026, WT-TP-1012; modified from EPA 6010C and SOIL SAMPLING & METHODS OF ANALYSIS,
CARTER 2ND EDITION, 2008, CHAP. 15.2.2
ICP/OES - FIXED RATIO EXTRACTION

Calcium
Magnesium
Sodium

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Solids (Inorganic)

Moisture - Solids [Soil] (188)

NA-TM-1200; REFERENCE METHOD FOR THE CANADA-WIDE STANDARD FOR PERTROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD & ADDENDUM. CCME DECEMBER 2000. NO. 1310 GRAVIMETRIC

Percent Moisture

Solids (Inorganic)

Oil and Grease - Solids [Sludge, Soil] (031)

WT-TM-1100; modified from EPA 8015 and SM 5520 B and SM 5520 D and SM 5520 E and SM 5520 F GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (156)

WT-TM-1034; modified from SOIL SAMPLING & METHODS OF ANALYSIS CAN. SOCIETY OF SOIL SCIENCE (1993)

SEIVE

Particle Size

Percent Sand

Percent Silt

Solids (Inorganic)

pH - Solids [Soil] (107)

WT-TM-1001; modified from SM 4500-H+ B

pH METER

pH

Solids (Inorganic)

Phenols - Solids [Soil] (170)

WT-TM-1027; modified from EPA 9066

COLORIMETRIC

Total Phenolics

Solids (Inorganic)

Polyaromatic Hydrocarbons (PAH) - Solids (232)

NA-TM-1100, NA-TP-2107; modified from EPA 3570 (PREPARATION) and EPA 8270E (ANALYSIS) GC/MS - TUMBLER EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(b,j)fluoranthene

Benzo(e)pyrene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

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Fluoranthene
Fluorene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Perylene
Phenanthrene
Pyrene
Quinoline

Solids (Inorganic)

Solids - Solids [Compost, Sediment, Sludge, Soil] (028)
WT-TM-1011; modified from SM 2540 B and SM 2540 E and SM 2540 G
GRAVIMETRIC
Fixed Solids
Total Solids
Volatile Solids

Solids (Inorganic)

Total and Free Cyanide - Solids (140)
NA-TM-1003, NA-TM-1700; modified from ASTM D7237-15A (ANALYSIS) and EPA 1311 (PREPARATION) and ISO 14403 (ANALYSIS) and SM 4500-CN- I (ANALYSIS)
COLORIMETRIC - TCLP
Cyanide (SAD)
Cyanide (WAD)

Solids (Inorganic)

Total Organic Carbon (TOC) - Solids [Soil] (034)
WT-TM-1005; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER METHOD 21.3.2
WET OXIDATION-REDOX
Organic Carbon

Solids (Organic)

1,4-Dioxane - Solids [Soil] (173)
WT-TM-1406; modified from EPA 5021A and EPA 8260C
GC/MS - HEADSPACE
1,4-Dioxane (p-dioxane)

Solids (Organic)

Alkanolamines - Solids [Soil] (217)
WT-TM-1574; modified from ASTM D7599
LC-MS/MS
Diethanolamine (DEA)
Diisopropanolamine (DIPA)
Methyldiethanolamine (MDEA)
Monoethanolamine (MEA)
Monoisopropanolamine (MIPA)
Triethanolamine (TEA)

Solids (Organic)

Aminopyralid - Solids [Soil] (223)
WT-TM-1578; IN-HOUSE
LC/MS
Aminopyralid

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Solids (Organic)

Base Neutral Acid Extractables (BNA) - Solids (141)

NA-TM-1700, WT-TM-1101, WT-TM-1300; modified from EPA 1311 (PREPARATION) and EPA 8270

(ANALYSIS)

GC/MS - TCLP

2-Methylphenol (o-Cresol)

2,3,4,6-Tetrachlorophenol

2,4-Dichlorophenol

2,4-Dinitrotoluene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

3/4-Methylphenol

Benzo(a)pyrene

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Nitrobenzene

Pentachlorophenol

Solids (Organic)

Base Neutral Acid Extractables (BNA) - Solids [Sediment, Sludge, Soil] (016)

WT-TM-1101, WT-TM-1300; modified from EPA 3570C and EPA 8270D

GC/MS - EXTRACTION

1-Chloronaphthalene

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2-Chloronaphthalene

2-Chlorophenol

2-Methylphenol (o-Cresol)

2-Nitrophenol

2,3,4-Trichlorophenol

2,3,4,5-Tetrachlorophenol

2,3,4,6-Tetrachlorophenol

2,3,5-Trichlorophenol

2,3,5,6-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 (2,6-DNT)

3,3'-Dichlorobenzidine

4-Chloro-3-methylphenol

4-Chloroaniline (p-Chloroaniline)

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4-Chloroaniline (p-Chloroaniline)
4-Chlorophenyl phenyl ether
4-Nitrophenol
4,6-Dinitro-o-cresol
5-Nitroacenaphthene
Biphenyl (1,1-Biphenyl)
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate (Diethylhexyl phthalate)
Butyl benzyl phthalate
Camphene
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
Diphenyl ether
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indole
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
Nitrobenzene
PBDE 3 (4-Bromophenyl phenyl ether)
Pentachlorophenol
Phenol
Total Diphenylamine

Solids (Organic)

Energetics - Solids [Soil] (195)

WT-TM-1608; modified from EPA 8330A and EPA 8330B

HPLC/UV - EXTRACTION

1,2-Dinitrobenzene (o-Dinitrobenzene)
1,3-Dinitrobenzene (1,3-DNB)
1,3,5-Trinitrobenzene (1,3,5-TNB)
2-Amino-4,6-dinitrotoluene (2-A-DNT, 2-Am-DNT)
2-Nitrotoluene (2-NT)
2,4-Dinitrotoluene
2,4,6-Trinitrotoluene (2,4,6-TNT)
2,6-Dinitrotoluene (2,6-DNT)
3-Nitrotoluene (3-NT)
3,5-Dinitroaniline (3,5-DNA)
4-Amino-2,6-dinitrotoluene (4-A-DNT)
4-Nitrotoluene (4-NT)

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Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
Methyl-2,4,6-trinitrophenylnitramine
Nitrobenzene
Nitroglycerin
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
Pentaerythritol tetranitrate (PETN)

Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Solids [Soil] (110)
WT-TM-1406; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A and EPA 8260C
GC/FID - HEADSPACE
F1: C6-C10

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (020)
WT-TM-1102, WT-TM-1302; modified from EPA 3570C and EPA 8270D
GC/MS - EXTRACTION
2,4'-DDD (o,p'-DDD)
2,4'-DDE (o,p'-DDE)
2,4'-DDT (o,p'-DDT)
4,4'-DDD (p,p'-DDD)
4,4'-DDE (p,p'-DDE)
4,4'-DDT (p,p'-DDT)
4,4'-Methoxychlor (p,p'-Methoxychlor)
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)
Dieldrin
Endosulfan I (a-Endosulfan)
Endosulfan II (b-Endosulfan)
Endosulfan Sulfate
Endrin
Endrin Aldehyde
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Lindane (gamma-BHC)
Mirex
Oxychlordane

Solids (Organic)

Perchlorate and Bromate - Solids [Soil] (176)
WT-TM-1503; modified from EPA 6850
LC-MS/MS
Bromate
Perchlorate

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Solids (Organic)

Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) - Solids [Soil] (175)

WT-TM-1557; modified from ON MOECC E3506

LC-MS/MS

10:2 Fluorotelomer sulfonic acid (10:2 FTS)

4:2 Fluorotelomer sulfonic acid (4:2 FTS)

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

N-Ethyl perfluorooctane sulfonamide (EtFOSA)

N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSSA)

N-Ethyl perfluorooctanesulfonamidoethanol (EtFOSE)

N-Methyl perfluorooctane sulfonamide (MeFOSA)

N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)

N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)

Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)

Perfluorodecanoic acid (PFDA, Perfluorodecanoate)

Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)

Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)

Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)

Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)

Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)

Perfluorononanoic acid (PFNA, Perfluorononanoate)

Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)

Perfluorooctanesulfonamide (PFOSA)

Perfluorooctanoic acid (PFOA, Perfluorooctanoate)

Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)

Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)

Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)

Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

Solids (Organic)

Pesticides - Solids [Soil] (150)

WT-TM-1107, WT-TM-1302; modified from EPA 3570C and EPA 8270

GC/MS - EXTRACTION

Alachlor

Ametryn

Atrazine

Atrazine, desethyl

Azinphos-methyl (Guthion)

Bendiocarb

Bromoxynil

Carbaryl

Carbofuran

Chlorpyrifos

Cyanazine

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Diazinon
Diclofop-methyl
Dimethoate
Malathion
Metolachlor
Metribuzin
Parathion
Phorate
Prometon
Prometryne
Propazine
Simazine
Temephos (Abate)
Terbufos
Terbutryn
Triallate
Trifluralin

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (065)
NA-TM-1100, WT-TM-1307; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (071)
NA-TM-1100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC
F4: Gravimetric

Solids (Organic)

Phenols - Solids [Soil] (204)
WT-TM-1593; modified from EPA 600/SR-97/027
LC-MS/MS
Phenol

Solids (Organic)

Polyaromatic Hydrocarbons (PAH) - Solids [Soil] (221)
WT-TM-1103, WT-TM-1304; modified from EPA 3570 and EPA 8270E
GC/MS - EXTRACTION
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,j)fluoranthene

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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

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids (137)

NA-TM-1700, WT-TM-1105, WT-TM-1301; modified from EPA 1311 (PREPARATION) and EPA 8270 (ANALYSIS)

GC/MS - TCLP

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Soil] (018)

WT-TM-1105, WT-TM-1301; modified from EPA 3570C and EPA 8270D

GC/MS - EXTRACTION

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

Solids (Organic)

Pyridine - Solids (167)

NA-TM-1700, WT-TM-1600; modified from EPA 1311 (PREPARATION) and EPA 8260B (ANALYSIS)

GC/MS

Pyridine

Solids (Organic)

Sulfolane - Solids [Soil] (206)

WT-TM-1574; modified from ASTM D7599

LC-MS/MS

Sulfolane

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids (182)

WT-TM-1017, WT-TM-1406; modified from EPA 1311 (PREPARATION) and EPA 8260 (ANALYSIS)

GC/MS - HEADSPACE - TCLP

1,1-Dichloroethylene

1,2-Dichlorobenzene

1,4-Dichlorobenzene

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Benzene
Carbon tetrachloride
Chloroform
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl ethyl ketone
o-Xylene
Tetrachloroethylene
Toluene

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (112)
WT-TM-1406; modified from EPA 5021A and EPA 8260C
GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-Dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromomethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Hexanone (Methyl butyl ketone, MBK)
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane

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Dichloromethane
Dichloromethane (Methylene Chloride)
Ethylbenzene
Ethylene Dibromide
Hexane
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Tissue (Organic)

Perfluorinated Compounds (PFC) - Tissue (198)
WT-TM-1557; modified from ANALYTICA CHIMICA ACTA (2008) 619:221-230
LC-MS/MS
2-(N-ethylperfluoro-1-Octanesulfonamide)-EtOH (N-EtFOSE)
2-(N-methylperfluoro-1-Octanesulfonamide)-EtOH (N-MeFOSE)
N-Ethylperfluoro-1-Octanesulfonamide (N-EtFOSA)
N-Methylperfluoro-1-Octanesulfonamide (N-MeFOSE)
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanesulfonamide (PFOSA)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)

Water (Inorganic)

Acidity - Water (227)
WT-TM-1028; modified from SM 2310 B
PC TITRATE
Acidity

OSDWA †

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Water (Inorganic) Alkalinity - Water (070) WT-TM-1028; modified from SM 2320 B AUTO TITRIMETRIC Alkalinity (pH 4.5)	OSDWA †
Water (Inorganic) Alkalinity - Water (094) WT-TM-1032; modified from EPA 310.2 COLORIMETRIC Alkalinity (pH 4.5)	OSDWA †
Water (Inorganic) Ammonia - Water (212) WT-TM-1043; JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42 FLUORIMETRY Ammonia	OSDWA †
Water (Inorganic) Anions - Water [Wastewater] (003) NA-TM-1001; modified from EPA 300.1 ION CHROMATOGRAPHY Bromide Chloride Fluoride Nitrate Nitrite Sulfate	OSDWA †
Water (Inorganic) Biochemical Oxygen Demand (BOD) - Water (001) WT-TM-1002; modified from SM 5210 B D.O. METER BOD (5 day) CBOD (5 day)	OSDWA †
Water (Inorganic) Carbon - Water (047) WT-TM-1024; modified from SM 5310 B IR - COMBUSTION Organic Carbon	OSDWA †
Water (Inorganic) Chemical Oxygen Demand (COD) - Water (035) WT-TM-1006; modified from SM 5220 D REFLUX - COLORIMETRIC COD	OSDWA †
Water (Inorganic) Chlorate and Chlorite - Water (211) WT-TM-1044; EPA 300.1 ION CHROMATOGRAPHY Chlorate Chlorite	OSDWA †

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Water (Inorganic) Chlorine - Water (074) WT-TM-1021; modified from SM 4500-CL G COLORIMETRIC Free Chlorine Total Chlorine	OSDWA †
Water (Inorganic) Colour - Water (097) WT-TM-1014; modified from SM 2120 C COLORIMETRIC Apparent Colour True Colour	OSDWA †
Water (Inorganic) Conductivity - Water (048) WT-TM-1010; modified from EPA 9050A and SM 2510 B CONDUCTIVITY METER Conductivity (25°C)	OSDWA †
Water (Inorganic) Conductivity - Water (108) WT-TM-1028; modified from SM 2510 B PC TITRATE Conductivity (25°C)	OSDWA †
Water (Inorganic) Cyanate - Water (161) WT-TM-1036; modified from SM 4500-CN- L and SM 4500-NH3 D SELECTIVE ION ELECTRODE Cyanate	OSDWA †
Water (Inorganic) Cyanide - Water [Wastewater] (004) NA-TM-1003; modified from ASTM D7237-10 and ISO 14403 and SM 4500-CN- I COLOR - DISTILLATION Cyanide, Free Cyanide (SAD) Cyanide (WAD)	OSDWA †
Water (Inorganic) Dissolved Metals - Water (005) NA-TM-1002, NA-TP-2002; modified from EPA 3030B and EPA 6020B ICP/MS Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Cesium Chromium	OSDWA †

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Cobalt
 Copper
 Iron
 Lead
 Lithium
 Magnesium
 Manganese
 Molybdenum
 Nickel
 Phosphorus
 Potassium
 Rubidium
 Selenium
 Silicon
 Silver
 Sodium
 Strontium
 Sulphur (Sulfur)
 Tellurium
 Thallium
 Thorium
 Tin
 Titanium
 Tungsten
 Uranium
 Vanadium
 Zinc
 Zirconium

Water (Inorganic) Hexavalent Chromium - Water (157) WT-TM-1035; modified from EPA 3060A and EPA 7199 ION CHROMATOGRAPHY Hexavalent Chromium	OSDWA †
Water (Inorganic) Hydrogen Sulphide - Water (012) WT-TM-1003; modified from SM 4500-S2- D and SM 4500-S2- E and SM 4500-S2- F COLORIMETRIC Sulphide	OSDWA †
Water (Inorganic) Mercury - Water [Wastewater] (049) NA-TM-1005; modified from EPA 1631E COLD VAPOUR AA - SPECTROMETRIC Mercury	OSDWA †
Water (Inorganic) Oil and Grease - Water (033) WT-TM-1100; modified from EPA 1664 and SM 5520 B and SM 5520 D and SM 5520 E and SM 5520 F GRAVIMETRIC - EXTRACTION Mineral Oil and Grease	OSDWA †

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Total Oil and Grease	
Water (Inorganic)	OSDWA †
Perchlorate and Bromate - Water (114)	
WT-TM-1503; modified from EPA 6850	
LC-MS/MS - EXTRACTION	
Bromate	
Perchlorate	
Water (Inorganic)	OSDWA †
pH - Water (026)	
WT-TM-1001; modified from SM 4500-H+ B	
pH - METER	
pH	
Water (Inorganic)	OSDWA †
pH - Water (106)	
WT-TM-1028; modified from SM 4500-H+ B	
PC TITRATE	
pH	
Water (Inorganic)	OSDWA †
Phenols - Water (009)	
WT-TM-1027; modified from EPA 9066	
COLORIMETRIC	
Total Phenolics	
Water (Inorganic)	OSDWA †
Phosphorus - Water (098)	
WT-TM-1025; modified from SM 4500-P B and SM 4500-P F	
COLORIMETRIC	
Phosphate	
Water (Inorganic)	OSDWA †
Solids - Water (010)	
WT-TM-1011; modified from SM 2540 D and SM 2540 E	
GRAVIMETRIC	
Total Suspended Solids	
Volatile Suspended Solids	
Water (Inorganic)	OSDWA †
Solids - Water (056)	
NA-TM-1004, WT-TM-1011; modified from SM 2540 B and SM 2540 C and SM 2540 E	
GRAVIMETRIC	
Total Dissolved Solids	
Total Solids (TS)	
Volatile Solids (VS)	
Water (Inorganic)	OSDWA †
Tannin and Lignin - Water (181)	
WT-TM-1015; modified from SM 5550 B	
COLORIMETRIC - DISCRETE ANALYZER	
Tannin and Lignin	
Water (Inorganic)	OSDWA †
Total Kjeldahl Nitrogen (TKN) - Water (099)	
WT-TM-1041; modified from SM 4500-NORG D	
COLORIMETRIC - DIGESTION	
Total Kjeldahl Nitrogen	

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Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (231)

WT-TM-1046; modified from JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42
FLUORIMETRY

Total Kjeldahl Nitrogen

Water (Inorganic)

OSDWA †

Total Metals - Water [Wastewater] (032)

NA-TM-1002, NA-TP-2001; modified from EPA 200.2 and EPA 6020B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

Sodium

Strontium

Sulphur (Sulfur)

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

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Zirconium	
Water (Inorganic) Total Phosphorus - Water (011) WT-TM-1025; modified from SM 4500-P E and SM 4500-P F AUTO COLOR - DIGESTION Total Phosphorus	OSDWA †
Water (Inorganic) Turbidity - Water (024) WT-TM-1004; modified from SM 2130 B TURBIDIMETRIC Turbidity	OSDWA †
Water (Inorganic) UV Transmittance - Water (190) WT-TM-1033; modified from SM 5910 COLORIMETRIC Transmittance, UV (254nm)	OSDWA †
Water (Inorganic) Volatile Organic Acids - Water (191) WT-TM-1031; modified from SM 5560 C DISTILLATION - TITRATION Volatile Organic Acids (As Acetic)	
Water (Microbiology) Coliforms - Water (183) NA-TM-1300; modified from SM 9215 E and SM 9223 B MOST PROBABLE NUMBER (QUANTI-TRAY) Escherichia coli Total Coliforms	OSDWA †
Water (Microbiology) Escherichia coli (E. coli) - Water (052) WT-TM-1200; modified from ON MOECC COMPARISON EVALUATION and SM 9222 D MEMBRANE FILTRATION (mFC-BCIG) Escherichia coli	OSDWA †
Water (Microbiology) Fecal (Thermotolerant) Coliforms - Water (051) WT-TM-1200; modified from SM 9222 D MEMBRANE FILTRATION (m FC) Fecal (Thermotolerant) Coliforms	OSDWA †
Water (Microbiology) Heterotrophic Plate Count (HPC) - Water (030) WT-TM-1200; modified from SM 9215 D MEMBRANE FILTRATION Heterotrophic Plate Count (HPC)	OSDWA †
Water (Microbiology) Pseudomonas aeruginosa - Water (091) WT-TM-1200; modified from SM 9213 E MEMBRANE FILTRATION (mPAC) Pseudomonas aeruginosa	OSDWA †

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Water (Microbiology)	OSDWA †
Total Coliforms - Water (002)	
WT-TM-1200; modified from SM 9222 B	
MEMBRANE FILTRATION (m Endo)	
Background Counts	
Total Coliforms	
Water (Organic)	OSDWA †
1,4-Dioxane - Water (172)	
WT-TM-1406; modified from EPA 5021A and EPA 8260C	
GC/MS - HEADSPACE	
1,4-Dioxane (p-dioxane)	
Water (Organic)	OSDWA †
Aldicarb and Diuron - Water (135)	
WT-TM-1502; modified from ON MOECC E3501	
LC-MS/MS - EXTRACTION	
Aldicarb	
Diuron	
Water (Organic)	OSDWA †
Alkanolamines - Water (216)	
WT-TM-1574; modified from ASTM D7599	
LC-MS/MS	
Diethanolamine (DEA)	
Diisopropanolamine (DIPA)	
Methyldiethanolamine (MDEA)	
Monoethanolamine (MEA)	
Monoisopropanolamine (MIPA)	
Triethanolamine (TEA)	
Water (Organic)	OSDWA †
Base Neutral Acid Extractables (BNA) - Water [Wastewater] (015)	
WT-TM-1101, WT-TM-1300; modified from EPA 3510C and EPA 8270	
GC/MS - EXTRACTION	
1-Chloronaphthalene	
1,2,3-Trichlorobenzene	
1,2,4-Trichlorobenzene	
1,3-Dichlorobenzene	
2-Chloronaphthalene	
2-Chlorophenol	
2-Methylphenol (o-Cresol)	
2-Nitrophenol	
2,3,4-Trichlorophenol	
2,3,4,5-Tetrachlorophenol	
2,3,4,6-tetrachlorophenol	
2,3,5-Trichlorophenol	
2,3,5,6-Tetrachlorophenol	
2,4-dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	

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2,4,5-Trichlorophenol
2,4,6-trichlorophenol
2,6-Dichlorophenol
2,6-Dinitrotoluene (2,6-DNT)
3,3'-Dichlorobenzidine
4-Chloro-3-methylphenol
4-Chloroaniline (p-Chloroaniline)
4-Chlorophenyl phenyl ether
4-Nitrophenol
4,6-Dinitro-o-cresol
5-Nitroancenphthene
Biphenyl (1,1-Biphenyl)
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate (Diethylhexyl phthalate)
Butyl benzyl phthalate
Camphene
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
Diphenyl ether
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indole
Isophorone
m,p-Cresol
N-Nitrosodi-n-propylamine
Nitrobenzene
PBDE 3 (4-Bromophenyl phenyl ether)
Pentachlorophenol
Phenol
Total Diphenylamine

Water (Organic)

Caffeine - Water (228)
WT-TM-1581; modified from EPA 1694
LC-MS/MS
Caffeine

Water (Organic)

Diquat and Paraquat - Water (134)
WT-TM-1506; modified from ON MOECC E3503
LC-MS/MS - EXTRACTION
Diquat
Paraquat

OSDWA †

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Water (Organic)

Energetics - Water (194)

WT-TM-1608; modified from EPA 8330A and EPA 8330B

HPLC/UV - EXTRACTION

1,2-Dinitrobenzene (o-Dinitrobenzene)

1,3-Dinitrobenzene (1,3-DNB)

1,3,5-Trinitrobenzene (1,3,5-TNB)

2-Amino-4,6-dinitrotoluene (2-A-DNT, 2-Am-DNT)

2-Nitrotoluene (2-NT)

2,4-Dinitrotoluene

2,4,6-Trinitrotoluene (2,4,6-TNT)

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

3-Nitrotoluene (3-NT)

3,5-Dinitroaniline (3,5-DNA)

4-Amino-2,6-dinitrotoluene (4-A-DNT)

4-Nitrotoluene (4-NT)

Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)

Methyl-2,4,6-trinitrophenylnitramine

Nitrobenzene

Nitroglycerin

Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)

Pentaerythritol tetranitrate (PETN)

Water (Organic)

Formaldehyde - Water (162)

WT-TM-1603; modified from EPA 556.1

GC/ECD

Formaldehyde

OSDWA †

Water (Organic)

Glyphosate and Aminomethylphosphonic acid (AMPA) - Water (133)

WT-TM-1504; modified from ON MOECC E3500

LC-MS/MS - EXTRACTION

Aminomethylphosphonic acid (AMPA)

Glyphosate

OSDWA †

Water (Organic)

Haloacetic Acids (HAA) - Water (163)

WT-TM-1604; modified from EPA 552.3

GC/ECD

Bromochloroacetic acid

Bromodichloroacetic acid

Chlorodibromoacetic acid (CDBAA)

Dalapon (2,2-Dichloropropionic Acid)

Dibromoacetic acid

Dichloroacetic acid

Monobromoacetic acid

Monochloroacetic acid

Tribromoacetic acid

Trichloroacetic acid

OSDWA †

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<p>Water (Organic) Haloacetic Acids (HAA) - Water (230) WT-TM-1596; modified from ON MOECC E3478 LC-MS/MS Bromochloroacetic acid Bromodichloroacetic acid Chlorodibromoacetic acid (CDBAA) Dalapon (2,2-Dichloropropionic Acid) Dibromoacetic acid Dichloroacetic acid Iodoacetic acid Monobromoacetic acid Monochloroacetic acid Tribromoacetic acid Trichloroacetic acid</p>	OSDWA †
<p>Water (Organic) Hydrocarbons - Water (062) WT-TM-1602; modified from EPA REGION 1, 2002 GC/FID - HEADSPACE Ethane Ethene (Ethylene) Methane</p>	OSDWA †
<p>Water (Organic) Neonicotinoids - Water (200) WT-TM-1569; modified from ON MOECC E3544 LC-MS/MS 6-Chloronicotinic acid Acetamiprid Clothianidin Flonicamid Imidacloprid Nitenpyram Sulfoxaflor Thiacloprid Thiamethoxam</p>	OSDWA †
<p>Water (Organic) Nitrilotriacetic Acid (NTA) - Water (036) WT-TM-1007; modified from EPA 430.1 COLORIMETRIC Nitrilotriacetic acid (NTA)</p>	OSDWA †
<p>Water (Organic) Nonylphenol and Nonylphenol Ethoxylates - Water (116) WT-TM-1521; modified from JOURNAL OF CHROMATOGRAPHY A, 849 (1999) 467-482 LC-MS/MS - EXTRACTION Bisphenol A Nonylphenol Diethoxylate (NP2EO) Nonylphenol Ethoxylates Nonylphenol Monoethoxylates (NP1EO)</p>	OSDWA †

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Nonylphenols
Octylphenol Diethoxylate (OP2EO)
Octylphenol Monoethoxylate (OP1EO)
Octylphenol (OP)

Water (Organic)

OSDWA †

Organochlorine (OC) Pesticides - Water (222)

WT-TM-1118, WT-TP-2100; modified from EPA 8081B and EPA 8270E

GC/MS

2,4'-DDD (o,p'-DDD)

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

A -BHC

a - Chlordane

Aldrin

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)

delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

g - Chlordane

Heptachlor

Heptachlor epoxide

Hexachlorobenzene

Lindane (gamma-BHC)

Mirex

o,p- DDE

o,p' - DDT

Oxychlordane

p,p' - DDT

p,p' Methoxychlor

Water (Organic)

OSDWA †

Organochlorine (OC) Pesticides - Water (229)

WT-TM-1118, WT-TP-2109; modified from EPA 8270

GC/MS/MS

2,4'-DDD (o,p'-DDD)

2,4'-DDE (o,p'-DDE)

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

A -BHC

a - Chlordane

Aldrin

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)

Chloroneb

delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)

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Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
Ethalfuralin
g - Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Lindane (gamma-BHC)
Mirex
o,p' - DDT
Oxychlordane
p,p' - DDT
p,p' Methoxychlor
Trifluralin

Water (Organic)

OSDWA †

Organochlorine (OC) Pesticides - Water [Wastewater] (019)
WT-TM-1102, WT-TM-1302; modified from EPA 3510C and EPA 8270
GC/MS - EXTRACTION

2,4'-DDD (o,p'-DDD)
2,4'-DDE (o,p'-DDE)
4,4'-DDD (p,p'-DDD)
4,4'-DDE (p,p'-DDE)
A -BHC
a - Chlordane
Aldrin
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
g - Chlordane
Heptachlor
Heptachlor epoxide
Lindane (gamma-BHC)
Mirex
o,p' - DDT

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Oxychlorane
p,p' - DDT
p,p' Methoxychlor

Water (Organic)

OSDWA †

Perfluorinated Compounds (PFC) - Water (174)
WT-TM-1557; ON MOECC E3457
LC-MS/MS

10:2 Fluorotelomer sulfonic acid (10:2 FTS)
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
4:2 Fluorotelomer sulfonic acid (4:2 FTS)
6:2 Fluorotelomer sulfonic acid (6:2 FTS)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)
Dodecafluoro-3H-4,8-dioxanonic acid (DONA)
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSSA)
N-Ethylperfluorooctane sulfonamide (EtFOSA)
N-Ethylperfluorooctane sulfonamidoethanol (EtFOSE)
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)
N-Methylperfluorooctane sulfonamide (MeFOSA)
N-Methylperfluorooctane sulfonamidoethanol (MeFOSE)
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanesulfonamide (PFOSA)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

Water (Organic)

OSDWA †

Pesticides - Water (023)
WT-TM-1107, WT-TM-1109-, WT-TM-1302; modified from EPA 3510C and EPA 8270
GC/MS - EXTRACTION

2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)
2,4-TP
Alachlor
Ametryn

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Atrazine
Azinphos-methyl
Bendiocarb
Carbaryl
Carbofuran
Chlorpyrifos ethyl
Cyanazine
De-ethylated atrazine
Diazinon
Diclofop-methyl (as free acid)
Dimethoate
Ethalfuralin
Fluazifop-p-butyl
Malathion
MCPA (2-Methyl-4-chlorophenoxyacetic acid)
MCPP (Mecoprop, Methylchlorophenoxypropionic acid)
Metolachlor
Metribuzin
Parathion (ethyl)
Parathion-methyl
Phorate
Prometon
Prometryne
Propazine
Simazine
Temephos (Abate)
Terbufos
Terbutryn
Triallate
Trifluralin

Water (Organic)

Pesticides - Water (207)

WT-TM-1589; modified from ON MOECC E3501

LC-MS/MS

Atrazine

Atrazine-2-hydroxy

Azoxystrobin

Boscalid

Bromacil

Carbaryl

Chlorantraniliprole

Clothianidin

DCPMU

Desethyl atrazine

Desethyl atrazine + Desisopropyl atrazine

Desisopropyl atrazine

OSDWA †

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Diuron
Fludioxonil
Imidacloprid
Iprodione
Linuron
Metalaxyl
Myclobutanil
Propiconazole
Pyraclostrobin
Simazine
Tebuthiuron
Trifloxystrobin
Triticonazole

Water (Organic)

OSDWA †

Pesticides - Water (213)
WT-TM-1575; IN-HOUSE
LC-MS/MS
Chlorothalonil (Daconil)
Chlorothalonil-4-Hydroxy

Water (Organic)

Pesticides - Water (218)
WT-TM-1526; ON MOECC E3501
LC-MS/MS
Benomyl
Carboxin (Carbathiin)
Deltamethrin
Diuron
Eptam (EPTC)
Ethalfuralin
Fenoxaprop
Imazamethabenz-methyl
Metsulfuron-methyl
Propachlor
Propanil
Propoxur (Baygon)
Quizalofop
Sethoxydim
Thifensulfuron-methyl
Tralkoxydim
Tribenuron-methyl
Trifluralin

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (068)
NA-TM-1112; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 3511
GC/FID - EXTRACTION
F2: C10-C16

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F3: C16-C34

F4: C34-C50

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (069)

WT-TM-1112; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and ON MOECC E3421

GRAVIMETRIC

F4: Gravimetric

Water (Organic)

OSDWA †

Petroleum Hydrocarbons (PHC) - Water (111)

WT-TM-1406; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A and EPA 8260

GC/FID - HEADSPACE

F1: C6-C10

Water (Organic)

Phenoxy Acid Herbicides - Water (209)

WT-TM-1591; modified from ON MOECC E3552

LC-MS/MS

2,4-Dichlorophenoxyacetic acid

2,4-Dichlorophenoxybutyric acid (2,4-DB)

2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)

2,4,5-TP (Silvex)

2,4,5-Trichlorophenoxyacetic acid

Asulam

Brodifacoum

Bromoxynil

Clopyralid

Dicamba

Diflufenican

Dinoseb

MCPA (2-Methyl-4-chlorophenoxyacetic acid)

MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)

MCPP (Mecoprop, Methylchlorophenoxypropionic acid)

Nicarbazin

Oryzalin

Picloram

Propanil

Terbacil

Triclopyr

Water (Organic)

OSDWA †

Polyaromatic Hydrocarbons (PAH) - Water (220)

NA-TM-1112, NA-TP-2109; modified from EPA 3511 and EPA 8270D

GC/MS - EXTRACTION

1-Methylnaphthalene

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2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,j)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)

OSDWA †

Polychlorinated Biphenyls (PCB) - Water (224)
WT-TM-1118, WT-TP-2100; EPA 3511 (PREPARATION) and EPA 8081B (ANALYSIS)
GC/MS - EXTRACTION
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

Water (Organic)

OSDWA †

Polychlorinated Biphenyls (PCB) - Water [Wastewater] (017)
WT-TM-1105, WT-TM-1311; modified from EPA 3510C and EPA 8270
GC/MS - EXTRACTION
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

Water (Organic)

OSDWA †

Polycyclic Aromatic Hydrocarbons (PAH) - Water (214)
WT-TM-1103, WT-TM-1311; modified from EPA 3510 and EPA 3570 and EPA 8270
GC/MS - EXTRACTION
1,3-Dinitropyrene
1,6-Dinitropyrene
1,8-Dinitropyrene
3-Methylcholanthrene

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7H-Dibenzo(c,g)carbazole
Benzo(e)pyrene
Dibenz(a,h)acridine
Dibenzo(a,e)pyrene
Dibenzo(a,h)pyrene
Dibenzo(a,i)pyrene
Dibenzo(a,j)acridine

Water (Organic)

Steroids and Hormones - Water (166)

WT-TM-1555; modified from JOURNAL OF CHROMATOGRAPHY B, 879 (2011) 2998-3004
LC-MS/MS - EXTRACTION

17a-Dihydroequilin
17a-Estradiol
17a-Ethinylestradiol
17b-Estradiol
Androstendione
Androsterone
beta-Sitosterol
beta-Stigmastanol
Betamethasone
Campesterol
Cholestanol
Cholesterol
Coprostanol
Desmosterol
Desogestrel
Epicoprostanol
Equilenin
Equilin
Ergosterol
Estradiol-3-benzoate
Estriol
Estrone
Mestranol
Norethindrone
Norgestrel
Progesterone
Stigmasterol
Testosterone

Water (Organic)

Sulfolane - Water (205)

WT-TM-1572; IN-HOUSE
LC-MS/MS

Sulfolane

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Water (Organic)

OSDWA †

Volatile Organic Compounds (VOC) - Water (113)

WT-TM-1406; modified from EPA 5021A and EPA 8260C

GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene

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Ethylene Dibromide
Hexachlorobutadiene
Hexane
Isopropylbenzene (Cumene)
Isopropyltoluene
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

† “OSDWA” indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario “Safe Drinking Water Act” (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html