



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

---

**Membership Number:** 2702  
**Laboratory Name:** AGAT Laboratories (Calgary)  
**Parent Institution:**  
**Address:** 2910 12th Street N.E. Calgary AB T2E 7P7  
**Contact:** Ms. Sheryl Sambrano  
**Phone:** (403) 735-2564  
**Fax:** (403) 735-2771  
**Email:** sambrano@agatlabs.com; vhill@agatlabs.com

---

**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** August 2, 2018  
**Valid To:** March 26, 2020

---

### Scope of Accreditation

#### Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (015)  
TO-0420; modified from AEC M106.0 and ASTM D4059-00  
GC/ECD - EXTRACTION  
Aroclor 1016  
Aroclor 1221  
Aroclor 1232  
Aroclor 1242  
Aroclor 1248  
Aroclor 1254  
Aroclor 1260  
Aroclor 1262  
Aroclor 1268  
Total PCB

#### Paint (Inorganic)

Lead - Paint (230)  
PANT-0280; modified from AOAC 974.02 and SM 3120 B  
ICP  
Lead

#### Solids (Inorganic)

Ammonia - Solids [Soil] (050)  
INOR-401-0120, INST-0340, INST-0420, SOIL-0110, SOIL-0630; modified from SM 4500-NH3 G  
COLORIMETRIC - EXTRACTION  
Ammonia-N

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Inorganic)**

Anions - Solids [Soil] (043)  
INST-0150, SOIL-140; modified from SM 4110 B  
IC - SATURATED PASTE EXTRACTION  
Chloride  
Nitrate-N  
Nitrite  
Sulphate

**Solids (Inorganic)**

Atterberg Plasticity Index - Solids [Soil] (242)  
SOIL-0655; ASTM D4318-10E1  
LIQUID LIMIT DEVICE  
Liquid Limit  
Plastic Limit  
Plasticity Index

**Solids (Inorganic)**

Available Nutrients - Solids [Soil] (213)  
SOIL-0131, SOIL-0132, INST-0140; RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA  
AGRICULTURE (RMSA) and SM 3120 B  
ICP/OES  
Potassium  
Sulphur

**Solids (Inorganic)**

Available Nutrients - Solids [Soil] (214)  
SOIL-0130, INST-0400; EPA 600/R-93/100 and RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA  
AGRICULTURE (RMSA)  
COLORIMETRIC  
Phosphorus

**Solids (Inorganic)**

Boron - Solids [Soil] (085)  
SOIL-270, INST-0140, INST-0141; modified from SM 3120 B and SM 3125 B and SOIL SAMPLING & METHODS  
OF ANALYSIS, CARTER 2008  
ICP - HOT WATER EXTRACTION  
Boron

**Solids (Inorganic)**

Bulk Density - Solids [Bulk, Soil] (232)  
SOIL-0220; BLAKE, G.R., MSA BULK DENSITY, 1986  
GRAVIMETRIC  
Bulk Density

**Solids (Inorganic)**

Chloride - Solids [Sediment, Soil] (177)  
INST-0330, INST-0500; modified from SM 4500-CL- E  
AUTO COLOR  
Chloride

**Solids (Inorganic)**

Conductivity - Solids [Sediment, Soil] (174)  
INST-0101, SOIL-0260; SM 2510  
CONDUCTIVITY METER  
Conductivity

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Inorganic)**

Conductivity - Solids [Soil] (086)  
INST-0120, SOIL-0260; modified from SM 2510 B  
CONDUCTIVITY METER - EXTRACTION  
Conductivity (2:1)  
Conductivity (saturated paste)

**Solids (Inorganic)**

Extractable Barium - Solids [Soil] (190)  
SOIL-0610, INST-0140; modified from ALBERTA ENVIRONMENT SOIL QUALITY GUIDELINES and BC MOE  
LABORATORY MANUAL METHOD 9 and SM 3120 B  
ICP/OES - EXTRACTION  
Extractable Barium -0.1M CaCl<sub>2</sub>  
Extractable Barium -1.0M CaCl<sub>2</sub>

**Solids (Inorganic)**

Flashpoint - Solids [Ash, Soil] (088)  
TO-2210; modified from ASTM D93-02A  
PENSKY MARTENS CLOSED CUP TESTER  
Flashpoint

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (091)  
SOIL-0600; modified from SSSA PART 3 CH 25  
SPECTROPHOTOMETRIC - EXTRACTION  
Hexavalent chromium

**Solids (Inorganic)**

Hydraulic Conductivity - Solids [Soil] (244)  
SOIL-0660; modified from SOIL SCIENCE SOCIETY OF AMERICA  
FALLING-HEAD METHOD  
Hydraulic Conductivity

**Solids (Inorganic)**

Mercury - Solids [Soil] (024)  
INST-0161, SOIL-390; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 3050B and SM  
3112 B  
COLD VAPOUR AA - DIGESTION  
Mercury

**Solids (Inorganic)**

Metals - Solids [Soil] (026)  
INST-0140, SOIL-390; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 3050B and SM  
3120  
ICP - DIGESTION  
Aluminum  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium

† "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](http://www.cala.ca/cala_directories.html)

Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulphur  
Thallium  
Titanium  
Tungsten  
Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

Metals - Solids [Soil] (145)

INST-0141, SOIL-390; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 3050A and SM 3125

ICP/MS - DIGESTION

Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Lead  
Manganese  
Mercury  
Nickel  
Strontium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Inorganic)**

Moisture - Solids [Soil] (234)

SOIL-310; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2008  
GRAVIMETRIC

Moisture Content

**Solids (Inorganic)**

Nitrate plus Nitrite - Solids [Sediment, Sludge, Soil] (236)

INST-0470, SOIL-0130, SOIL-0630; modified from EPA 600  
AUTO COLOR

Nitrate plus Nitrite  
Nitrite

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Inorganic)**

Oil and Grease - Solids [Soil] (047)  
TO-2200; modified from EPA 821-R-98-002 METHOD 1664  
FTIR - EXTRACTION  
Oil and Grease

**Solids (Inorganic)**

Organic Carbon - Solids [Soil] (049)  
INOR-401-0120, SOIL-110, SOIL-480; modified from MSA PART 3 CH. 34  
WALKLEY-BLACK WET OXID.  
Organic Carbon  
Organic Matter

**Solids (Inorganic)**

Organic Matter - Solids [Sediment, Sludge, Soil] (237)  
SOIL-0470; modified from LOSS ON IGNITION METHOD, 1996 and SSSA  
LOSS ON IGNITION  
Organic Matter

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (058)  
SOIL-520; modified from JONES J. 2001 LAB GUIDE FOR CONDUCTING SOIL TEST & PLANT ANALYSIS  
HYDROMETER (2 PT.)  
% clay  
% Sand  
% silt texture

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (059)  
SOIL-540; modified from SHELDRIK, B.H. & WANG, C, CARTER MO ED. 2007  
GRAVIMETRIC - SIEVE  
Particle Size

**Solids (Inorganic)**

Percent Saturation - Solids [Soil] (093)  
SOIL-0140; modified from CURTIN, MILLER, SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2007  
GRAVIMETRIC - SATURATED PASTE  
Percent Saturation (Saturated Paste)

**Solids (Inorganic)**

pH - Solids [Soil] (046)  
INOR-401-0120, INST-0104, SOIL-0110, SOIL-0140; modified from SM 4500-H+  
PH METER  
pH  
pH (2:1)  
pH (Saturated Paste)

**Solids (Inorganic)**

pH - Solids [Soil] (202)  
SOIL-0260; modified from SM 4500-H+ and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2ND  
EDITION  
pH METER - EXTRACTION  
pH (1:2) Soil: CaCl<sub>2</sub>

**Solids (Inorganic)**

Phenols - Solids [Soil] (197)  
INST-0300; modified from EPA 420.2 and EPA 600/4-79-20  
AUTO COLOR  
Total Phenolics

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Inorganic)**

Soluble Cations - Solids [Soil] (189)

INST-0140, SOIL-0140; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15

ICP/OES - SATURATED PASTE EXTRACTION

Boron

Calcium

Magnesium

Potassium

Sodium

Sulphur

**Solids (Inorganic)**

Specific Gravity - Solids [Soil] (233)

SOIL-0230; PROCEDURE FOR USING THE BAROID MUD BALANCE MUD BALANCE

Specific Gravity

**Solids (Inorganic)**

Sulphur - Solids [Soil] (224)

TO-3502; IN-HOUSE

HPLC

Elemental Sulfur

**Solids (Inorganic)**

Total Barium - Solids [Soil] (196)

INST-0140, SOIL-0620; modified from ASTM D4503 and SM 3120 B

ICP - FUSION

Total Barium

**Solids (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Solids [Sediment, Sludge, Soil] (231)

INST-0430, INST-0520, SOIL-0500; modified from EPA 351.2

COLORIMETRIC

Kjeldahl Nitrogen

**Solids (Microbiology)**

Heterotrophic Plate Count (HPC) - Solids [Soil] (055)

MIC-0300, MIC-0400; modified from SM 9215 C and SOIL SAMPLING & METHODS OF ANALYSIS CH.27

SPREAD PLATE

Heterotrophic Plate Count (HPC)

**Solids (Organic)**

Alcohols - Solids [Sediment, Soil] (165)

TO-1420; EPA 5021 and EPA 8015B

GC/FID

1-Butanol

2-Butanol

Ethanol

Isobutanol

Isopropanol

Methanol

Pentanol

Propanol

tert-Butyl alcohol

† "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).

**Solids (Organic)**

Amines - Solids [Soil] (141)

TO-1400; IN-HOUSE

GC/FID - EXTRACTION

Diethanolamine

Diethylethanolamine

Diisopropanolamine

Ethanolamine

Methyl diethanolamine

Monoisopropylamine

Sulfolane

**Solids (Organic)**

Base Neutral Extractables - Solids [Sediment, Soil] (200)

TO1500; modified from EPA 8270D

GC/MS

1,2-Dichlorobenzene

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-Dichlorobenzene

1,3,5-Trichlorobenzene

1,4-Dichlorobenzene

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Pentachlorobenzene

**Solids (Organic)**

BTEX - Solids [Soil] (092)

TO-0050; EPA 5030B (ANALYSIS) and EPA 8260B (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS - LEACHATE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

**Solids (Organic)**

BTEX - Solids [Soil] (228)

TO-0050; EPA 5030B (ANALYSIS) and EPA 8260B (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS - LEACHATE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

**Solids (Organic)**

Ethanolamines - Solids [Soil] (209)

TO-2240; IN-HOUSE

HPLC

Diethanolamine

Diisopropanolamine

† "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](http://www.cala.ca/cala_directories.html)

Monoethanolamine (MEA)  
Monoisopropanolamine

**Solids (Organic)**

Glycols - Solids [Sediment, Soil] (161)  
TO-1410; EPA 3570 and EPA 8015D and NIOSH 5523  
GC/FID  
Diethylene glycol  
Ethylene Glycol  
Propylene glycol  
Tetraethylene glycol  
Triethylene glycol

**Solids (Organic)**

Glyphosate - Solids [Sediment, Soil] (170)  
TO-1320; IN-HOUSE  
HPLC  
Glyphosate

**Solids (Organic)**

Nitroaromatics and Nitramines and Nitrate Esters - Solids [Sediment, Soil] (203)  
TO-1100, TO-2100; EPA 8330  
HPLC  
1,3-Dinitrobenzene (1,3-DNB)  
1,3,5-Trinitrobenzene (1,3,5-TNB)  
2-A-4, 6-DNT (2-am-dnt)  
2-Nitrotoluene (2-NT)  
2,4-DNT  
2,4,6-TNT  
2,6-DNT  
3-Nitrotoluene  
3,5-DNA  
4-A-2, 6-DNT (4-am-dnt)  
4-Nitrotoluene  
Cyclotetramethylenetetranitramine (HMX)  
Nitrobenzene  
Nitroglycerin  
PETN  
RDX  
Tetryl

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (132)  
TO-0570; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - PURGE AND TRAP  
F1: C6-C10

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (133)  
TO-0550; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC - SOXHLET EXTRACTION  
F4: Gravimetric

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (136)  
TO-0560; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID - COLD SHAKE EXTRACTION  
F2: C10-C16

† "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](http://www.cala.ca/cala_directories.html)



F3: C16-C34

F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (137)

TO-0560; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC - COLD SHAKE EXTRACTION

F4: Gravimetric

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (151)

TO-0543; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/MS - HEADSPACE

F1: C6-C10

**Solids (Organic)**

Phenols - Solids [Sediment, Soil] (199)

TO1200; modified from EPA 8321B  
HPLC/UV - EXTRACTION

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

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

2,3,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,6-Dichlorophenol

3/4-Methylphenol

3,4,5-Trichlorophenol

4-Chloro-3-methyl phenol

4-Nitrophenol

Dinoseb

Pentachlorophenol

Phenol

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Soil] (071)

TO-0410; modified from AEC G106.0 and EPA 8082  
GC/ECD - EXTRACTION

Arochlor 1016

Arochlor 1221

Arochlor 1232

Arochlor 1262

Arochlor 1268

Arochlor 1242

Arochlor 1248

Arochlor 1254

Arochlor 1260

Total PCB

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (028)  
TO-0210; modified from EPA 3540C and EPA 3570 and EPA 8270D  
GC/MS - EXTRACTION

1-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) 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

**Solids (Organic)**

Sterilant Herbicides - Solids [Sediment, Soil] (195)  
TO-1315; IN-HOUSE  
HPLC

Atrazine  
Bromacil  
Diuron  
Linuron  
Simazine  
Tebuthiuron

**Solids (Organic)**

Sulfolane - Solids [Soil] (241)  
TO-3501; IN-HOUSE  
GC/MS  
Sulfolane

**Solids (Organic)**

Total Extractable Hydrocarbons (TEH) - Solids [Soil] (053)  
TO-0510; modified from AEC V92-M2 and BC MOE CONTAMINATED SITES REGULATION (CSR) and EPA 8015D

GC/FID - EXTRACTION  
EPH C10-C19  
EPH C19-C32  
SASK (C11-C22)  
SASK (C23-C60)  
Total Extractable Hydrocarbons (TEH): C10-C30

† "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](http://www.cala.ca/cala_directories.html)

**Solids (Organic)**

Total Petroleum Hydrocarbons (TPH) - Solids [Soil] (082)

TO-0550; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - SOXHLET EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

**Solids (Organic)**

Total Purgeable Hydrocarbons (TPH) - Solids [Soil] (052)

TO-0570; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - EXTRACTION

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

**Solids (Organic)**

Total Purgeable Hydrocarbons (TPH) - Solids [Soil] (227)

TO-0543-HEADSPACE; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - HEADSPACE

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (099)

TO-0330; modified from EPA 5030C 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-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

2-Hexanone (MBK)

Acetone (2-Propanone)

Benzene

Bromform

Bromodichloromethane

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene

cis-1,3-Dichloropropene

Dichloromethane

Ethylbenzene

† "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).

Ethylene Dibromide  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl isobutyl Ketone  
Methyl t-butyl ether  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (152)

TO-0332; 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  
1,1,2-Trichloroethane  
1,2-dichlorobenzene  
1,2-dichloroethane  
1,2-Dichloropropane  
1,2,4-Trichlorobenzene  
1,3-Dichlorobenzene  
1,4-dichlorobenzene  
2-Hexanone (MBK)  
Acetone (2-Propanone)  
Benzene  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl isobutyl Ketone  
Methyl t-butyl ether  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene

† "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](http://www.cala.ca/cala_directories.html)

trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Waste (Inorganic)**

Anions - Waste (184)

INST-0150, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS and SM 4110 B  
IC - EXTRACTION (MODIFIED SWEP)

Fluoride  
Nitrate  
Nitrite

**Waste (Inorganic)**

Cyanide - Waste (185)

INST-0310, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS  
COLORIMETRIC (MODIFIED SWEP)

Cyanide

**Waste (Inorganic)**

Free Liquid - Waste [Liquid] (181)

SOIL-0580; modified from EPA 9095  
PAINT FILTER TEST

Free Liquid

**Waste (Inorganic)**

Mercury - Waste (180)

INST-0160, SOIL-0420; BC MOE LABORATORY MANUAL SECTION C  
COLD VAPOUR AA - Leachate

Mercury

**Waste (Inorganic)**

Mercury - Waste (183)

INST-0160, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS  
COLD VAPOUR AA - EXTRACTION (MODIFIED SWEP)

Mercury

**Waste (Inorganic)**

Metals - Waste (179)

INST-0140, SOIL-0420; IN-HOUSE (PREPARATION) and SM 3120 B (ANALYSIS)  
ICP/OES

Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Mercury  
Nickel  
Selenium  
Silver  
Thallium

† "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](http://www.cala.ca/cala_directories.html)

Uranium  
Vanadium  
Zinc  
Zirconium

**Waste (Inorganic)**

Metals - Waste (182)

INST-0140, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS and SM 3120 B  
ICP/OES - EXTRACTION (MODIFIED SWEP)

Arsenic  
Barium  
Boron  
Cadmium  
Chromium  
Copper  
Lead  
Mercury  
Selenium  
Silver  
Uranium  
Zinc

**Waste (Inorganic)**

Oil and Grease - Waste (186)

TO-3500; modified from SECTION D219, BC MOE LABORATORY MANUAL, 2013 EDITION  
GRAVIMETRIC (SWOG)

Oil and Grease

**Water (Inorganic)**

Adsorbable Organic Halides (AOX) - Water (219)

INST-480; modified from SM 5320  
COLORIMETRIC - TITRATION

Adsorbent Organic Halides

**Water (Inorganic)**

Alkalinity - Water (001)

INST-0100; modified from SM 2320 B  
TITRIMETRIC

Alkalinity (pH 4.5)

**Water (Inorganic)**

Alkalinity - Water (171)

INST-0101; modified from SM 2320 B  
AUTO TITRIMETRIC (PC TITRATE)

Alkalinity (pH 4.5)

**Water (Inorganic)**

Ammonia - Water (063)

INST-0340, INST-0420; modified from SM 4500-NH3 G  
COLORIMETRIC

Ammonia

**Water (Inorganic)**

Anions - Water (002)

INS-0150, WATR-0200; modified from SM 4110 B  
ION CHROMATOGRAPHY

Bromate  
Bromide  
Chlorate

† "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](http://www.cala.ca/cala_directories.html)

Chloride  
Chlorite  
Fluoride  
Nitrate  
Nitrite  
Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (010)  
MIC-1500; modified from SM 4500-O D and SM 5210 B  
D.O. METER  
BOD (5 day)  
CBOD (5 day)

**Water (Inorganic)**

Carbon - Water (062)  
INST-0170; modified from SM 5310 B  
COMBUSTION - INFRARED  
Inorganic Carbon  
Organic Carbon

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (061)  
INST-0280; modified from EPA 410.4  
SPECTROPHOTOMETRIC  
COD

**Water (Inorganic)**

Colour - Water (243)  
WATR-0710; SM 2120 C  
COLORIMETRIC - UV/VISIBLE  
Apparent Colour  
True Colour

**Water (Inorganic)**

Conductivity - Water (003)  
INST-0120; modified from SM 2510 B  
CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Conductivity - Water (173)  
INST-0101; SM 2510  
AUTO TITRIMETRIC (PC TITRATE)  
Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (021)  
INST-0310; modified from EPA 335.4  
COLOR - DISTILLATION  
Cyanide (SAD)  
Free Cyanide

**Water (Inorganic)**

Dissolved Metals - Water (004)  
INST-0140, WATR-0200; modified from SM 3120 B  
ICP/OES  
Aluminum  
Antimony  
Arsenic

† "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](http://www.cala.ca/cala_directories.html)

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

**Water (Inorganic)**

Dissolved Metals - Water (129)

INST-0141, WATR-0200; modified from SM 3125

ICP/MS

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Lead  
Lithium  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Tin

† "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](http://www.cala.ca/cala_directories.html)



Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Mercury - Water (073)  
INST-0160; BC MOE LABORATORY MANUAL SECTION C  
COLD VAPOUR AA  
Mercury

**Water (Inorganic)**

Mercury - Water (206)  
INST-0162; EPA 1631  
COLD VAPOUR ATOMIC FLUORESCENCE - DIGESTION  
Mercury

**Water (Inorganic)**

Naphthenic Acids - Water (239)  
TO-2220; IN-HOUSE  
FTIR - EXTRACTION  
Naphthenic Acids

**Water (Inorganic)**

Oil and Grease - Water (069)  
TO-2200; modified from EPA 821-R-98-002 METHOD 1664  
FTIR - EXTRACTION  
Total Oil and Grease

**Water (Inorganic)**

pH - Water (135)  
INST-0104; modified from SM 4500-H+ B  
pH METER  
pH

**Water (Inorganic)**

pH - Water (172)  
INST-0101; modified from SM 4500-H+  
AUTO TITRIMETRIC (PC TITRATE)  
pH

**Water (Inorganic)**

Phenols - Water (124)  
INST-0300; modified from EPA 420.2  
AUTO COLOR  
Total Phenolics

**Water (Inorganic)**

Phosphate - Water (103)  
INST-0410, INST-0530; SM 4500-P F  
AUTO COLOR  
Phosphate

**Water (Inorganic)**

Phosphorus - Water (229)  
INST-0530, WATR-0720; SM 4500-P F  
AUTO COLOR  
Total Dissolved Phosphorus  
Total Phosphorus

† "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](http://www.cala.ca/cala_directories.html)

**Water (Inorganic)**

Reactive Silica - Water (007)  
INST-0460, INST-0510; modified from EPA 600/4-79-20  
AUTO COLOR  
Reactive Silica

**Water (Inorganic)**

Residual Chlorine - Water (238)  
WATR-0700; modified from SM 4500-CL  
IODOMETRIC  
Total Chlorine

**Water (Inorganic)**

Solids - Water (011)  
WATR-0600, WATR-0610; SM 2540 C and SM 2540 D  
GRAVIMETRIC  
Total Dissolved Solids  
Total Suspended Solids

**Water (Inorganic)**

Sulphide - Water (105)  
WATR-0100; modified from SM 4500-S2- D  
COLORIMETRIC  
Sulphide

**Water (Inorganic)**

Total Hexavalent Chromium - Water (235)  
WATR-0300; modified from SM 3500-CR  
COLORIMETRIC  
Hexavalent Chromium

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (009)  
INST-0430, INST-0520; modified from EPA 351.2  
AUTO COLOR - DIGESTION  
Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Metals - Water (143)  
INST-0140, WATR-0200; modified from SM 3120  
ICP/OES - NITRIC ACID DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese

† "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](http://www.cala.ca/cala_directories.html)

Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Sulfur  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Total Metals - Water (144)

INST-0141, WATR-0200; modified from SM 3125

ICP/MS - NITRIC ACID DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silicon  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Tungsten  
Uranium  
Vanadium  
Zinc

† "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](http://www.cala.ca/cala_directories.html)

Zirconium

**Water (Inorganic)**

Turbidity - Water (107)  
WATR-0500; SM 2130 B  
NEPHELOMETRY  
Turbidity

**Water (Microbiology)**

Coliforms - Water (208)  
MIC-0205; SM 9223  
MOST PROBABLE NUMBER (COLILERT - QUANTI-TRAY)  
Escherichia coli (E. coli)  
Fecal (Thermotolerant) Coliforms  
Total Coliforms

**Water (Microbiology)**

Coliforms - Water (211)  
MIC-0202; modified from SM 9222 B  
MEMBRANE FILTRATION (MI AGAR)  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (012)  
MIC-0203; SM 9222 D  
MEMBRANE FILTRATION (mFC)  
Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (068)  
MIC-0300; modified from SM 9215 C  
SPREAD PLATE  
Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Pseudomonas - Water (215)  
MIC-0630; modified from SM 9213  
IDEXX PSEUDALERT QUANTI-TRAY  
Pseudomonas aeruginosa

**Water (Organic)**

Alcohols - Water (166)  
TO-1420; EPA 5021 and EPA 8015B  
GC/FID  
1-Butanol  
2-Butanol  
Ethanol  
Isobutanol  
Isopropanol  
Methanol  
Pentanol  
Propanol  
tert-Butyl alcohol

**Water (Organic)**

Base Neutral Extractables - Water [Wastewater] (201)  
TO1500; modified from EPA 8270D  
GC/MS  
1,2-Dichlorobenzene

† "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](http://www.cala.ca/cala_directories.html)

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-Dichlorobenzene  
1,3,5-Trichlorobenzene  
1,4-Dichlorobenzene  
Hexachlorobenzene  
Hexachlorobutadiene  
Hexachlorocyclopentadiene  
Hexachloroethane  
Pentachlorobenzene

**Water (Organic)**

Ethanolamines - Water (210)

TO-2240; IN-HOUSE

HPLC

Diethanolamine

Diisopropanolamine

Monoethanolamine (MEA)

Monoisopropanolamine

**Water (Organic)**

Glycols - Water (162)

TO-1410; modified from NIOSH 5523

GC/FID

Diethylene glycol

Ethylene glycol

Propylene glycol

Tetraethylene glycol

Triethylene glycol

**Water (Organic)**

Glyphosate - Water (169)

TO-1320; OSHA PV2067

HPLC

Glyphosate

OSDWA †

**Water (Organic)**

Nitrilotriacetic Acid (NTA) - Water (218)

TO-3503; IN-HOUSE

HPLC

Nitrilotriacetic acid (NTA)

**Water (Organic)**

Nitroaromatics and Nitramines and Nitrate Esters - Water (204)

TO-1100, TO-2100; EPA 8330

HPLC

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

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

2-A-4, 6-DNT (2-am-dnt)

2-Nitrotoluene (2-NT)

2,4-DNT

2,4,6-TNT

2,6-DNT

3-Nitrotoluene

3,5-DNA

† "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](http://www.cala.ca/cala_directories.html)

4-A-2, 6-DNT (4-am-dnt)  
4-Nitrotoluene  
Cyclotetramethylenetetranitramine (HMX)  
Nitrobenzene  
Nitroglycerin  
PETN  
RDX  
Tetryl

**Water (Organic)**

Phenols - Water [Wastewater] (198)

TO-1100, TO-1200; IN-HOUSE  
HPLC/UV - EXTRACTION

2-Chlorophenol  
2-Methyl-4,6-dinitrophenol  
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  
2,3,6-Trichlorophenol  
2,4-Dichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrophenol  
2,4,5-Trichlorophenol  
2,4,6-Trichlorophenol  
2,6-Dichlorophenol  
3,4,5-Trichlorophenol  
4-Chloro-3-methyl phenol  
4-Nitrophenol  
Dinoseb  
m,p-Cresol  
Pentachlorophenol  
Phenol

**Water (Organic)**

Polychlorinated Biphenyls (PCB) - Water (160)

TO-0400; modified from EPA 8082  
GC/ECD

Arochlor 1016  
Arochlor 1221  
Arochlor 1232  
Arochlor 1262  
Arochlor 1268  
Arochlor 1242  
Arochlor 1248  
Arochlor 1254  
Arochlor 1260  
Total PCB

† "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](http://www.cala.ca/cala_directories.html)

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (014)

TO-0200; modified from EPA 3510B and EPA 3511 and EPA 8270C

GC/MS - EXTRACTION

1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo(e)pyrene  
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)**

Sterilant Herbicides - Water (194)

TO-1315; IN-HOUSE

HPLC

Atrazine  
Bromacil  
Diuron  
Linuron  
Simazine  
Tebuthiuron

**Water (Organic)**

Sulfolane - Water (240)

TO-3501; IN-HOUSE

GC/MS

Sulfolane

**Water (Organic)**

Total Amines - Water (142)

TO-1400; IN-HOUSE

GC/FID - EXTRACTION

Diethanolamine  
Diethylethanolamine  
Diisopropanolamine  
Ethanolamine  
Methyl diethanolamine  
Monoisopropylamine  
Sulfolane

† "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](http://www.cala.ca/cala_directories.html)

**Water (Organic)**

Total Extractable Hydrocarbons (TEH) - Water (066)

TO-0511; modified from AEC V92-M2 and BC MOE CONTAMINATED SITES REGULATION (CSR) and EPA 3510

GC/FID - EXTRACTION

C10-C32

EPH C10-C19

EPH C19-C32

F2: C10-C16

F3: C16-C34

F4: C34-C50

SASK (C11-C22)

SASK (C23-C60)

**Water (Organic)**

Total Purgeable Hydrocarbons (TPH) - Water (065)

TO-0540; modified from EPA 5030B and EPA 8260B

GC/FID - PURGE AND TRAP

F1: C6-C10

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

**Water (Organic)**

Total Purgeable Hydrocarbons (TPH) - Water (150)

TO-0542; modified from BC MOE LABORATORY MANUAL and EPA 5021A and EPA 8260

GC/MS - HEADSPACE

F1: C6-C10

TPGH (C5-C10)

Volatile Hydrocarbons (VH): C6-C10

**Water (Organic)**

Volatile Organic Acids - Water (212)

TO-2230; IN-HOUSE

ION CHROMATOGRAPHY

Acetic acid

Butyric acid

Caproic acid

Formic acid

Isobutyric acid

Isovaleric acid

Propionic acid

Valeric acid

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (125)

TO-0330; modified from EPA 5030C 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-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

† "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](http://www.cala.ca/cala_directories.html)



1,3-Dichlorobenzene  
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  
Dibromochloromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
m/p-xylene  
Methyl t-butyl ether (MTBE)  
Methyl Ethyl Ketone  
Methyl isobutyl Ketone  
Methyl t-butyl ether  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (153)  
TO-0332; modified from EPA 5021A and EPA 8260C  
GC/MS - HEADSPACE

1,1-Dichloroethane  
1,1-dichloroethylene  
1,1,1-Trichloroethane  
1,1,2-Trichloroethane  
1,2-Dibromomethane  
1,2-dichlorobenzene  
1,2-dichloroethane  
1,2-Dichloropropane  
1,2,4-Trichlorobenzene  
1,3-Dichlorobenzene  
1,4-dichlorobenzene  
2-Hexanone (MBK)  
Acetone (2-Propanone)  
Benzene

† "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](http://www.cala.ca/cala_directories.html)

Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichloromethane  
Ethylbenzene  
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

**Water (Toxicology)**

Microtox - Water (020)

TOX-0100; EPS 1/RM/24

BIOLUMINESCENCE

Microtox IC50 (15 min)

† "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](http://www.cala.ca/cala_directories.html)