



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2745  
**Laboratory Name:** Fisher Environmental Laboratories  
**Parent Institution:** Fisher Environmental Ltd.  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** December 11, 2020  
**Valid To:** October 16, 2022

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### Scope of Accreditation

#### Air (Inorganic)

Asbestos and Other Fibres - Air [Filter] (015)  
F-10; modified from NIOSH 7400  
PHASE CONTRAST MICROSCOPY (PCM)/FIBRE ANALYSIS  
Asbestos and Other Fibres

#### Oil (Organic)

Total Polychlorinated Biphenyls (PCB) - Oil (004)  
F-5; modified from EPA 8082 and SM 6630 C  
GC/ECD - EXTRACTION  
Total PCB

#### Solids (Inorganic)

Asbestos - Solids (016)  
F-26; modified from EPA 600/R-93/116  
POLARIZED LIGHT MICROSCOPY (PLM)  
Actinolite  
Amosite  
Anthophyllite  
Chrysotile  
Crocidolite  
Tremolite

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**Solids (Inorganic)**

Conductivity - Solids [Soil] (023)

F-16; ASP 9050 A

CONDUCTIVITY METER

Conductivity

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (030)

F9 CHROMIUM(VI) IN SOIL AND WATER; modified from SM 3500-CR B

COLORIMETRIC

Hexavalent Chromium

**Solids (Inorganic)**

Hot Water Soluble Boron - Solids [Soil] (033)

F-1; modified from SM 3120 B

ICP/OES - EXTRACTION

Boron (Hot Water Soluble)

**Solids (Inorganic)**

Mercury - Solids [Soil] (008)

F-2; modified from EPA 7471 and SM 3112 B

COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION

Mercury

**Solids (Inorganic)**

Metals - Solids [Soil] (002)

F-1; modified from EPA 3050 and HMPN SOIL-E307-3 and SM 3120 B

ICP/OES - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Manganese

Nickel

Strontium

Tin

Titanium

Vanadium

Zinc

**Solids (Inorganic)**

Metals - Solids [Soil] (025)

F-18; modified from SM 3050 B and SM 6020 A

ICP/MS

Aluminum

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

**Solids (Inorganic)**

pH - Solids [Soil] (022)

F-16; ASP 9045 D

pH METER

pH

**Solids (Inorganic)**

Sodium Adsorption Ratio (SAR) - Solids [Soil] (028)

F-1, F-16; modified from EPA 6010C

ICP/OES

Sodium Adsorption Ratio (SAR) (calculation)

**Solids (Inorganic)**

Total Cyanide - Solids [Soil] (032)

F24 CYANIDE IN SOIL AND WATER; modified from SM 4500 CN

COLORIMETRIC

Cyanide

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**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (009)  
F-7; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GC/FID-PURGE AND TRAP  
F1: C6-C10

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (011)  
F-7; 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] (012)  
F-7; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC  
F4: Gravimetric

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (006)  
F-4; modified from EPA 8310 and SM 6440 C  
GC/MS - EXTRACTION  
1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Anthanthrene  
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  
Phenanthrene  
Pyrene

**Solids (Organic)**

Total Polychlorinated Biphenyls (PCB) - Solids [Soil] (027)  
F-5; modified from EPA 8082A  
GC/ECD - EXTRACTION  
Total PCB

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## Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (017)

F-14; modified from 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  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethene (Vinyl chloride)  
Chloroform  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichlorodifluoromethane  
Dichloromethane  
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

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**Water (Inorganic)**

Dissolved Metals - Water (001)

F-1; modified from SM 3120 B

ICP/OES

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Selenium

Silver

Sodium

Strontium

Tin

Titanium

Vanadium

Zinc

**Water (Inorganic)**

Hexavalent Chromium - Water (029)

F9 CHROMIUM(VI) IN SOIL AND WATER; modified from SM 3500-CR B

COLORIMETRIC

Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water (007)

F-2; modified from EPA 7470 and SM 3122 B

COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION

Mercury

**Water (Inorganic)**

Metals - Water (026)

F-18; modified from EPA 6020A

ICP/MS

Aluminum

Antimony

Arsenic

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Barium  
Beryllium  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Water (Inorganic)**

Total Cyanide - Water (031)

F24 CYANIDE IN SOIL AND WATER; modified from SM 4500 CN  
COLORIMETRIC

Cyanide (SAD)

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (019)

F-7; modified from SM 6200 C  
GC/FID-PURGE AND TRAP

F1: C6-C10

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (020)

F-7; modified from SM 6200 C  
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

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**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (018)

F-4; modified from SM 6440 C

GC/MS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

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

Phenanthrene

Pyrene

**Water (Organic)**

Total Polychlorinated Biphenyls (PCB) - Water (005)

F-5; modified from EPA 8082 and SM 6630 C

GC/ECD - EXTRACTION

Total PCB

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (003)

F-6; modified from SM 6200 C

GC/FID-PURGE AND TRAP

1,1-Dichloroethane

1,1-dichloroethylene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,3-Dichloropropene

1,4-dichlorobenzene

Acetone (2-Propanone)

Benzene

Bromodichloromethane

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Bromomethane  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroform  
cis-1,2-Dichloroethylene  
Dichloromethane  
Ethylbenzene  
m,p-Xylene  
Methyl Ethyl Ketone  
o-Xylene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
Trichloroethylene

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (024)

F-14; modified from 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-Dibromoethane (Ethylene dibromide)  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroform  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichlorodifluoromethane  
Dichloromethane (Methylene Chloride)

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Ethylbenzene  
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  
Vinyl chloride

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