



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3301  
**Laboratory Name:** Biogeochemical Analytical Service Laboratory  
**Parent Institution:** University of Alberta  
**Address:** 2-255 CCIS Bldg, University of Alberta Edmonton AB T6G 2E9  
**Contact:** Dr. Mingsheng Ma  
**Phone:** (780) 492-9014  
**Fax:** (780) 248-5861  
**Email:** mingsheng.ma@ualberta.ca

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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** October 17, 2018  
**Valid To:** April 16, 2021

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### Scope of Accreditation

#### Solids

Total Mercury - Solids [] (010)  
SOP TM-IOG-043; modified from EPA 7473  
AAS  
Mercury

#### Water (Inorganic)

Ammonia - Water (001)  
SOP TM-IOG-003; modified from SM 4500-NH3 H  
FIA COLORIMETRIC  
Ammonia

#### Water (Inorganic)

Methyl Mercury - Water (007)  
SOP TM-IOG-033; modified from EPA 1630  
DISTILLATION, AQUEOUS ETHYLATION, PURGE AND TRAP, CVA/ICP/MS  
Dissolved Methyl Mercury  
Methylmercury

#### Water (Inorganic)

Nitrate plus Nitrite - Water (002)  
SOP TM-IOG-004; modified from EPA 353.2  
FIA COLORIMETRIC  
Nitrate plus Nitrite

#### Water (Inorganic)

Phosphate - Water (003)  
SOP TM-IOG-009; modified from SM 4500-P G  
FIA COLORIMETRIC  
Phosphate

† "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)**

Phosphorus - Water (004)

SOP TM-IOG-007; modified from SM 4500-P B and SM 4500-P G

FIA COLORIMETRIC

Total Dissolved Phosphorus

Total Phosphorus

**Water (Inorganic)**

Total and Dissolved Mercury - Water (006)

SOP TM-IOG-036; modified from EPA 1631E

COLD VAPOUR ATOMIC FLUORESCENCE SPECTROPHOTOMETRY

Mercury

**Water (Inorganic)**

Total Nitrogen, Total Dissolved Nitrogen, Total Kjeldahl Nitrogen (TKN), Dissolved Kjeldahl Nitrogen - Water (009)

SOP TM-IOG-005; modified from SM 4500-NO3- I and SM 4500-NORG A and SM 4500-P J

FIA COLORIMETRIC

Dissolved Kjeldahl Nitrogen

Total Dissolved Nitrogen

Total Kjeldahl Nitrogen

Total Nitrogen

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (005)

SOP TM-ORG-005, SOP TS-ORG-006; modified from EPA 3510C and EPA 8270D

GC/MS

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

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