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
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: September 12, 2019
Valid To: April 16, 2021

Scope of Accreditation

Solids
Total Mercury - Solids [Sediment] (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, CVAF/ICP/MS
  Dissolved Methyl Mercury
  Methyl mercury

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
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-I0G-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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