CALA Directory of Laboratories

Canadian Association for Laboratory Accreditation Inc.

Membership Number: 3915
Laboratory Name: AGAT Laboratories - Lloydminster
Parent Institution: AGAT Laboratories Ltd.
Address: 5921B 50th Ave. Lloydminster SK S9V 2A4
Contact: Ms. Sandra Ortiz
Phone: (780) 469-0106
Fax: (780) 468-2887
Email: Ortiz@agatlabs.com; jroberts@agatlabs.com; vhill@agatlabs.com

Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: August 10, 2018
Valid To: October 3, 2019

Scope of Accreditation

Soil (Inorganic)
Ammonia - Solids [Soil] (010)
INOR-190-6012; modified from SM 4500-NH3 F
SPECTROPHOTOMETRIC
Ammonia

Soil (Inorganic)
Anions - Solids [Soil] (001)
INOR-190-6008, INOR-190-6002; modified from MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 3.21 and SM 4110 B
IC - SATURATED PASTE EXTRACTION
Chloride
Fluoride
Nitrate
Nitrite
Sulfate

Soil (Inorganic)
Chromium - Solids [Soil] (029)
INOR-190-6016; modified from BARTLETT, R.J., JAMES, B.R. (1996), CHROMIUM PP. 683-701
COLORIMETRIC - DIGESTION
Chromium

Soil (Inorganic)
Conductivity - Solids [Sediment, Soil] (004)
INOR-190-6011, INOR-190-6002; modified from MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 3.21 and MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 4.12 and MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 4.13
CONDUCTIVITY METER
Conductivity (saturated paste)

† "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

Soil (Inorganic)
Flashpoint - Solids [Ash, Soil] (009)
ORG-190-5100; modified from ASTM D93-02A
PENSKY MARTENS CLOSED CUP
Flashpoint

Soil (Inorganic)
Hot Water Soluble Boron - Solids [Soil] (028)
INOR-190-6009, INOR-190-6014; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2008
ICP/OES
Boron

Soil (Inorganic)
Metals - Solids [Soil] (030)
INOR-190-6017; modified from SM 3125 B
ICP/MS
Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury (Parameter suspended on 8/11/2018)
Molybdenum
Nickel
Selenium
Silver
Thallium
Tin
Uranium
Vanadium
Zinc

Soil (Inorganic)
Particle Size Analysis (PSA) - Solids [Soil] (006)
INOR-190-6004; modified from SHELDRICK, B.H. & WANG, C, CARTER MO ED. 1993
SIEVE ANALYSIS
Particle Size (75um)

Soil (Inorganic)
Particle Size Analysis (PSA) - Solids [Soil] (022)
INOR-190-6013; modified from SHELDRICK, B.H. & WANG, C, CARTER MO ED. 1993
HYDROMETER (2 PT)
% clay
% Sand
% silt

Soil (Inorganic)
Percent Saturation - Solids [Soil] (002)
INOR-190-6002; modified from MANUAL ON SOIL SAMPLING & METHODS OF ANALYSIS, MCKEAGUE 3.21
GRAVIMETRIC - SATURATED
Percent Saturation (Saturated Paste)

† "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

Soil (Inorganic)
pH - Solids [Sediment, Soil] (007)
INOR-190-6010, INOR-190--6002; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2ND ED.

- pH METER
- pH (1:1) Soil: Water
- pH (Saturated Paste)

Soil (Inorganic)
Soluble Cations - Solids [Soil] (013)
INOR-190-6009, INOR-190-6002; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15

- ICP/OES - SATURATED PASTE EXTRACTION
- Boron
- Calcium
- Magnesium
- Potassium
- Sodium
- Sulphur

Soil (Inorganic)
Specific Gravity - Solids [Soil] (003)
INOR-190-6003; modified from ASTM D4380, G50 and BAROID MUD BALANCE and DRILLING WASTE MANAGEMENT

- MUD BALANCE
- Specific Gravity

Soil (Organic)
Petroleum Hydrocarbons (PHC) - Solids [Soil] (012)
ORG-190-5103; modified from EPA 5030C and EPA 8260

- GC/MS
- Benzene
- Ethylbenzene
- m/p-xylene
- o-xylene
- Toluene

Soil (Organic)
Petroleum Hydrocarbons (PHC) - Solids [Soil] (014)
ORG-190-5102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

- GC/FID - EXTRACTION COLD SHAKE
- F2: C10-C16
- F3: C16-C34
- F4: C34-C50

Soil (Organic)
Petroleum Hydrocarbons (PHC) - Solids [Soil] (015)
ORG-190-5102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

- GRAVIMETRIC - EXTRACTION COLD SHAKE
- F4: Gravimetric

Soil (Organic)
Petroleum Hydrocarbons (PHC) - Solids [Soil] (027)
ORG-190-5103; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

- GC/FID - PURGE AND TRAP
- F1: C6-C10

† "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

Soil (Organic)
Total Extractable Hydrocarbons (TEH) - Solids [Soil] (023)
ORG-190-5104; modified from AEC V92-G108 and AEC V92-M2 and BC MOE CONTAMINATED SITES REGULATION (CSR) and EPA CH.4
GC/FID - EXTRACTION
EPH C10-C19
EPH C19-C32
SASK (C10-C22)
SASK (C23-C60)
Total Extractable Hydrocarbons (TEH): C11-C30

Soil (Organic)
Total Purgeable Hydrocarbons (TPH) - Solids [Soil] (025)
ORG-190-5103; BC MOE LABORATORY MANUAL
GC/FID
TPqH (C5-C10)
VH: C6-C10

Solids (Organic)
BTEX - Solids [Soil] (011)
ORG-190-5101; IN-HOUSE
GC/MS - LEACHATE PURGE AND TRAP
Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

Waste (Inorganic)
Free Liquid - Waste [Liquid] (005)
INOR-190-6006; modified from EPA 9095
PAINT FILTER TEST
Free Liquid

Waste (Organic)
Metals - Waste (008)
INOR-190-6005, INOR-190-6009; IN-HOUSE
ICP/OES - EXTRACTION
Antimony
Arsenic
Barium
Boron
Cadmium
Chromium
Copper
Iron
Lead
Mercury
Selenium
Silver
Thallium
Uranium
Vanadium
Zinc
Zirconium

† "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)
Ammonia - Water (017)
INOR-190-6012; modified from SM 4500-NH3 F
SPECTROPHOTOMETRIC
Ammonia

Water (Inorganic)
Anions - Water (016)
INOR-190-6008; modified from SM 4110 B
ION CHROMATOGRAPHY
Chloride
Fluoride
Nitrate
Nitrite
Sulfate

Water (Inorganic)
Soluble Cations - Water (018)
INOR-190-6009; modified from SM 3120 B
ICP/OES
Calcium
Magnesium
Potassium
Sodium

Water (Organic)
Petroleum Hydrocarbons (PHC) - Water (019)
ORG-190-5106; modified from EPA 5030C and EPA 8260
GC/MS
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Water (Organic)
Petroleum Hydrocarbons (PHC) - Water (020)
ORG-190-5102; IN-HOUSE
GC/FID - EXTRACTION COLD SHAKE
F2: C10-C16
F3: C16-C34
F4: C34-C50

Water (Organic)
Total Extractable Hydrocarbons (TEH) - Water (024)
ORG-190-5105; modified from AECV92-M2 and BC MOE CONTAMINATED SITES REGULATION (CSR) and EPA -3510
GC/FID - EXTRACTION
EPH C10-C19
EPH C19-C32
SASK (C10-C22)
SASK (C23-C60)
Total Extractable Hydrocarbons (TEH): C11-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

Water (Organic)
Total Petroleum Hydrocarbons (TPH) - Water (026)
ORG-190-5106; modified from EPA 5021 and EPA 8015B
GC/MS - PURGE AND TRAP
F1: C6-C10
TPqH (C5-C10)
Volatile Hyrocarbons (VH): C6-C10

Water (Toxicology)
Microtox - Water (021)
TOX-190-19000; modified from 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