



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 2908
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: December 11, 2020
Valid To: April 3, 2022

Scope of Accreditation

Soil

Inorganic Carbon - Solids [Soil] (089)
SK-TM-1017, SK-TM-1019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 20.2
PH METER
Inorganic Carbon

Soil

Percent Saturation - Solids [Soil] (114)
SK-TP-2016; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2
GRAVIMETRIC - SATURATED PASTE
Percent Saturation

Soil (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (106)
SK-TM-1020; modified from ASTM D422-63
GRAVIMETRIC
Sand (>75um)

Soil (Inorganic)

Total Nitrogen - Solids [Soil] (110)
SK-TM-1006, SK-TM-1026; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 22.4
COMBUSTION
Total Nitrogen

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Soil (Inorganic)

Total Sulphur - Solids [Soil] (109)
SK-TM-1006, SK-TM-1026; ISO 15178:2000
COMBUSTION
Total Sulphur (Total Sulfur)

Soil (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (100)
NA-TM-1100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC - EXTRACTION
F4: Gravimetric

Soil (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (103)
NA-TM-1102, NA-TP-2102; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
METHOD and EPA 5021A and EPA 5035A and EPA 8260C
GC/MS - EXTRACTION
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (Ethylene dibromide)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane

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Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Solids (Inorganic)

Ammonia Nitrogen - Solids [Soil] (021)
SK-TP-2004, SK-TP-2005; modified from SOIL SAMPLING & METHODS OF ANALYSIS 19(6) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 6.2
COLORIMETRIC
Ammonia-N

Solids (Inorganic)

Atterberg Limits - Solids [Soil] (120)
SK-TM-1022; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008
CASAGRANDE
Liquid Limit
Plastic Limit
Plasticity Index

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Solids (Inorganic)

Available Nitrite - Solids (126)

SK-TP-2006, SK-TP-2010; modified from ALBERTA AGRICULTURE (1988) and SM 4500-NO2-AUTOMATED COLORIMETRIC - EXTRACTION

Available Nitrite

Solids (Inorganic)

Available Nitrite - Solids [Soil] (119)

SK-TP-2004, SK-TP-2010; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008
AUTOMATED COLORIMETRIC

Available Nitrite

Solids (Inorganic)

Available Nitrogen - Solids [Soil] (017)

SK-TP-2006, SK-TP-2007; modified from ALBERTA AGRICULTURE (1988) and SM 4500-NO3- I
COLORIMETRIC

Nitrogen

Solids (Inorganic)

Available Nitrogen - Solids [Soil] (118)

SK-TP-2004, SK-TP-2007; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008
FLOW INJECTION ANALYSIS (FIA)

Available Nitrate plus Nitrite

Solids (Inorganic)

Available Nutrients - Solids [Soil] (123)

SK-TM-1031, SK-TP-2012; modified from SM 3120 and SOIL SAMPLING & METHODS OF ANALYSIS,
CARTER, 1993

ICP/OES - EXTRACTION

Copper

Iron

Manganese

Zinc

Solids (Inorganic)

Available Phosphorus - Solids [Soil] (015)

SK-TP-2003, SK-TP-2008; modified from COMM. IN SOIL SCI. & PLANT ANAL. 25 (5&6) and SM 4500-P G
COLORIMETRIC

Phosphorus

Solids (Inorganic)

Available Phosphorus - Solids [Soil] (069)

SK-TP-2017; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 8
COLORIMETRIC

Available Phosphate

Solids (Inorganic)

Available Potassium - Solids [Soil] (016)

SK-TP-2003, SK-TP-2008; modified from AOAC 2016 and COMM. IN SOIL SCI. & PLANT ANAL. 25 (5&6) and
SMPR 983.02

COLORIMETRIC

Potassium

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Solids (Inorganic)

Available Sulphur - Solids [Soil] (091)
SK-TM-1031, SK-TP-2006; ALBERTA AGRICULTURE (1988) and SM 3120 B
ICP/OES
Available Sulfur

Solids (Inorganic)

Cation Exchange Capacity (CEC) - Solids [Soil] (022)
SK-TP-2005, SK-TP-2015; modified from SOIL SAMPLING & METHODS OF ANALYSIS 19(6) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 18.4
COLORIMETRIC
Cation Exchange Capacity (CEC)

Solids (Inorganic)

Cations - Solids [Soil] (028)
NA-TP-2008, SK-TM-1031; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 25.2
ICP/OES - SATURATED SOIL EXTRACTION
Boron
Calcium
Magnesium
Potassium
Sodium
Sulphur (Sulfur)

Solids (Inorganic)

Chloride - Solids [Soil] (029)
NA-TP-2008, SK-TP-2020; modified from SM 4500-CL- E and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2
COLORIMETRIC - SATURATED PASTE
Chloride

Solids (Inorganic)

Chloride - Solids [Soil] (122)
SK-TP-2011, SK-TP-2020; modified from NORTH CENTRAL REGION RECOMMENDED CHEM. SOIL TEST PROCEDURE and SM 4500-CL- E
COLORIMETRIC
Available Chloride

Solids (Inorganic)

Conductivity - Solids [Soil] (014)
SK-TP-2001, SK-TP-2023; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15
CONDUCTIVITY METER
Conductivity

Solids (Inorganic)

Conductivity - Solids [Soil] (058)
NA-TP-2008, SK-TP-2023; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2
CONDUCTIVITY METER - SATURATED PASTE
Conductivity

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Solids (Inorganic)

Flashpoint - Solids [Ash, Soil] (055)
SK-TM-1102; modified from ASTM D93
PENSKEY-MARTENS CLOSED CUP
Flashpoint

Solids (Inorganic)

Mercury - Solids [Soil] (102)
NA-TM-1005, NA-TP-2004; modified from EPA 1631E and EPA 200.2
COLD VAPOUR ATOMIC ABSORPTION (CVAA)
Mercury

Solids (Inorganic)

Metals - Solids [Soil] (023)
SK-TM-1031, SK-TP-2015; modified from SM 3120 B and SOIL SAMPLING & METHODS OF ANALYSIS,
CARTER 18.4
ICP/OES - EXTRACTION
Calcium
Magnesium
Potassium
Sodium

Solids (Inorganic)

Metals - Solids [Soil] (072)
NA-TM-1002, NA-TP-2004; modified from EPA 200.2 and EPA 6020
ICP/MS - DIGESTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium

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Silver
Sodium
Strontium
Sulphur (Sulfur)
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Solids (Inorganic)

Moisture - Solids [Soil] (090)

NA-TM-1200; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids (124)

SK-TM-1023; modified from ASTM D6913 and ASTM D7928

HYDROMETER

Clay (<0.002mm)

Clay (<0.005mm)

Clay (<0.005mm)

Coarse sand (2mm-4.75mm)

Fine sand (0.075mm-0.425mm)

Fines (<0.075mm)

Gravel (4.75mm-75mm)

Medium sand(0.425mm-2mm)

Percent Clay

Percent Sand

Percent Silt

Silt (0.002mm-0.075mm)

Silt (0.005mm-0.075mm)

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (070)

SK-TM-1009; modified from USDA SSIR 51 METHOD 3.2.1

PIPETTE

Percent Clay

Percent Sand

Percent Silt

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Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (088)

SK-TM-1011; modified from SOIL SURVEY & FIELD LABORATORY METHODS MANUAL (USDA)SSIR 51) 3.2.1

GRAVIMETRIC - SIEVE

Clay (<0.004mm)

Fines (<0.075mm)

Gravel (>2mm)

Sand (0.125mm-0.063mm)

Sand (0.25mm-0.125mm)

Sand (0.425mm-0.075mm)

Sand (0.5mm-0.25mm)

Sand (1mm-0.5mm)

Sand (2mm-1mm)

Sand (4.75mm-2mm)

Silt (0.031mm-0.004mm)

Silt (0.063mm-0.031mm)

Solids (Inorganic)

pH - Solids [Soil] (013)

SK-TP-2001, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988) and EPA 9045D and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008

pH METER

pH (1:1) soil:water

pH (1:2) soil:CaCl₂

pH (1:2) soil:water

Solids (Inorganic)

pH - Solids [Soil] (057)

NA-TP-2008, SK-TP-2023; modified from ALBERTA AGRICULTURE (1988) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2

pH METER - SATURATED PASTE

pH

Solids (Inorganic)

Total Carbon - Solids [Soil] (030)

SK-TM-1006, SK-TM-1026; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 21.2

COMBUSTION GC

Total Carbon (TC)

Solids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Solids [Soil] (032)

SK-TP-2014, SK-TP-2018; modified from SM 4500-NH₃ G and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 22.2.3

COLORIMETRIC

Kjeldahl Nitrogen

Solids (Organic)

BTEX - Solids [Soil] (054)

NA-TM-1102, NA-TP-2102; modified from EPA 5035A and EPA 8260C

GC/MS

Benzene

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Ethylbenzene
m,p-Xylene
o-Xylene
Styrene
Toluene

Solids (Organic)

Organic Matter - Solids [Soil] (068)
SK-TM-1002; modified from ASTM D2974 and SOIL SAMPLING & METHODS OF ANALYSIS CAN SOIL SCI P. 160 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008
GRAVIMETRIC - COMBUSTION
Loss on Ignition (LOI) at 375C
Loss on Ignition (LOI) at 420C
Loss on Ignition (LOI) at 440C
Loss on Ignition (LOI) at 550C
Loss on Ignition (LOI) at 750C
Organic Matter

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (051)
NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION
F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (052)
NA-TM-1100, NA-TP-2100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50
Total Extractable Hydrocarbons (TEH): C11-C22
Total Extractable Hydrocarbons (TEH): C23-C60

Tissue (Inorganic)

Total Nitrogen - Tissue (108)
SK-TM-1006, SK-TM-1026; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 22.4
COMBUSTION
Total Nitrogen

Waste

Leachable BTEX - Waste (113)
NA-TM-1102, SK-TP-2700; modified from EPA 1311 (PREPARATION) and EPA 8260B (ANALYSIS)
GC/MS-HEADSPACE - TCLP
Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

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Waste

Leachable Metals - Waste (112)

NA-TM-1002, NA-TM-1700, NA-TP-2001; modified from EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

Waste

Mercury - Waste (111)

NA-TM-1005, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 1631E (ANALYSIS)

COLD VAPOUR ATOMIC ABSORPTION (CVAA) - TCLP

Mercury

Waste

Paint Filter - Waste (115)

SK-TM-1750; modified from EPA 9095B

FILTRATION

Free Liquids

Water (Inorganic)

Alkalinity - Water (085)

SK-TM-1017; SM 2320 B

AUTOMATED TITRIMETRIC

Alkalinity (pH 4.5)

Alkalinity (pH 8.3)

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Water (Inorganic)

Anions - Water (121)

NA-TM-1001; modified from EPA 300.1

ION CHROMATOGRAPHY (IC)

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Water (Inorganic)

Colour - Water (061)

SK-TM-1015; SM 2120 C

COLORIMETRIC

True Colour

Water (Inorganic)

Conductivity - Water (084)

SK-TM-1017; SM 2510 B

AUTOMATED CONDUCTIVITY METER

Conductivity (25°C)

Water (Inorganic)

Dissolved Metals - Water (074)

NA-TM-1002, NA-TP-2002; modified from EPA 6020A and SM 3030 B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

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Potassium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Mercury - Water (101)
NA-TM-1005, NA-TP-2002; modified from EPA 1631E
COLD VAPOUR ATOMIC ABSORPTION (CVAA)
Mercury

Water (Inorganic)

pH - Water (083)
SK-TM-1017; SM 4500-H+
AUTOMATED PH METER
pH

Water (Inorganic)

pH - Water (125)
SK-TP-2023; SM 4500 H+
pH METER
pH

Water (Inorganic)

Phosphate - Water (116)
SK-TM-1032; modified from SM 4500-P
FLOW INJECTION ANALYSIS (FIA)
Phosphate

Water (Inorganic)

Solids - Water (067)
NA-TM-1004, NA-TM-1008, SK-TM-1021; modified from SM 2540 B and SM 2540 C and SM 2540 D and SM 2540 E
GRAVIMETRIC
Fixed Suspended Solids (calculation)
Total Dissolved Solids

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Total Suspended Solids
Volatile Suspended Solids

Water (Inorganic)

Total Metals - Water (073)

NA-TM-1002, NA-TP-2001; modified from EPA 6020 and SM 3030 E

ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium

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Zinc
Zirconium

Water (Inorganic)

Turbidity - Water (062)
NA-TM-1007; SM 2130 B
TURBIDIMETRIC
Turbidity

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (093)
NA-TM-1300; modified from SM 9223 B
QUANTI-TRAY (COLILERT)
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (092)
NA-TM-1300; modified from SM 9215 E
QUANTI-TRAY (COLILERT)
Heterotrophic Plate Count (HPC)

Water (Microbiology)

Total Coliforms and Escherichia coli (E.coli) - Water (059)
NA-TM-1300; modified from SM 9223 B
QUANTI-TRAY (COLILERT)
Escherichia coli
Total Coliforms

Water (Organic)

BTEX - Water (045)
NA-TM-1102; modified from EPA 5021A and EPA 8260C
GC/MS-HEADSPACE
Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

Water (Organic)

Total Extractable Hydrocarbons (TEH) - Water (047)
NA-TM-1112, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
METHOD and EPA 3511
GC/FID
F2: C10-C16
F3: C16-C34
F4: C34-C50
Total Extractable Hydrocarbons (TEH): C11-C22
Total Extractable Hydrocarbons (TEH): C23-C60

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Water (Organic)

Total Volatile Hydrocarbons (TVH) - Water (046)

NA-TM-1102; modified from BC MOE LABORATORY MANUAL and EPA 5021A

GC/FID

F1: C6-C10

Water (Organic)

Volatile Organic Compounds (VOC) - Water (086)

NA-TM-1102; modified from EPA 5021A and EPA 8260C

GC/MS-HEADSPACE

1,1-Dichloroethane

1,1-Dichloroethylene

1,1-Dichloropropene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-Dibromo-3-chloropropane (DBCP)

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1,3-Dichlorobenzene

1,3-Dichloropropane

1,3,5-Trimethylbenzene

1,4-Dichlorobenzene

2-Chlorotoluene

2,2-Dichloropropane

4-Chlorotoluene (p-Chlorotoluene)

4-isopropyltoluene (p-Cymene)

Benzene

Bromobenzene

Bromochloromethane

Bromodichloromethane

Bromoform

Bromomethane

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane (Ethyl Chloride)

Chloroform

Chloromethane (Methyl chloride)

cis-1,2-Dichloroethylene

† "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).

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cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

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