



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3024
Laboratory Name: ALS Environmental (Grande Prairie)
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: July 18, 2018
Valid To: August 9, 2020

Scope of Accreditation

Solids

pH - Solids (074)
GP-TM-1298; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2ND ED. SEC. 16.3
1:2 CaCl₂ EXTRACTION - METER
pH (1:2): CaCl₂

Solids (Inorganic)

Ammonia - Solids (085)
GP-TM-1054, GP-TM-1299; modified from ERCB DIRECTIVE 50 and SM 4500-NH₃ D
SELECTIVE ION ELECTRODE-Saturated Paste
Ammonia

Solids (Inorganic)

Anions - Solids [Soil] (042)
GP-TM-1299, GP-TP-2090; modified from AER D50 and EPA 300.0 and EPA 300.1
ION CHROMATOGRAPHY - SATURATED PASTE EXTRACT
Chloride
Chloride
Fluoride
Nitrate
Nitrate-N
Nitrite
Sulfate
Sulphate

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Solids (Inorganic)

Cations - Solids [Soil] (043)

GP-TM-1099, GP-TM-1299, GP-TP-2398; modified from AER D50 and SM 3120 B

ICP - SATURATED PASTE EXTRACT

Boron

Calcium

Magnesium

Potassium

Sodium

Solids (Inorganic)

Conductivity - Solids [Soil] (041)

GP-TM-1299, GP-TM-1296; modified from AER D50 and SM 2510

CONDUCTIVITY METER - SATURATED PASTE EXTRACT

Conductivity

Solids (Inorganic)

Density - Solids [Soil] (059)

GP-TM-1297; modified from ASTM D5057-90

GRAVIMETRIC

Density

Solids (Inorganic)

Extractable Barium - Solids [Soil] (062)

GP-TM-1090, GP-TM-1099; modified from BC MOE LABORATORY MANUAL SECTION C and SM 3120

ICP - CaCl₂ EXTRACTION

Extractable Barium

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (089)

GP-TM-1098; modified from EPA 3060

ION - ALKALINE DIGESTION

Hexavalent chromium

Solids (Inorganic)

Hot Water Soluble Boron - Solids (073)

GP-TM-1099, NA-TP-2010; modified from SM 3120 and SOIL SAMPLING & METHODS OF ANALYSIS,

CARTER 2ND ED. SEC 9.2

ICP - EXTRACTION - HOT WATER

Boron

Solids (Inorganic)

Mercury - Solids [Soil] (092)

NA-TM-1005, NA-TP-2004, NA-TP-2012; modified from EPA 1631E and EPA 200.2

COLD VAPOUR AA - DIGESTION

Mercury

Solids (Inorganic)

Metals - Solids [Soil] (098)

NA-TM-1002, NA-TP-2004, NA-TP-2007; modified from EPA 200.2 and EPA 6020A

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

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Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

Solids (Inorganic)

Oil and Grease - Solids [Soil] (029)

GP-TM-1198; modified from EPA 9071B and SM 5520 E and SM 5520 F
GRAVIMETRIC - SOXHLET EXTRACTION

Oil and Grease

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (027)

GP-TM-1071; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2ND ED. SEC 47.3
HYDROMETER

% clay

% Sand

%Silt

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (050)

GP-TM-1072; modified from ASTM D422-63
SIEVE

PSA% >75um

Solids (Inorganic)

Percent Moisture - Solids [Soil] (057)

GP-TM-1295; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC

Percent Moisture

Solids (Inorganic)

Percent Saturation - Solids [Soil] (058)

GP-TM-1299; modified from AER D50
GRAVIMETRIC

% Saturation

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Solids (Inorganic)

pH - Solids (084)

GP-TM-1298 ; modified from EPA 9045D and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2ND EDITION

EXTRACTION - METER

pH (1:1)

pH (1:2) Water

Solids (Inorganic)

pH - Solids [Soil] (040)

GP-TM-1298, GP-TM-1299; modified from AER D50 and EPA 9045 and SM 4500-H+

pH METER - SATURATED PASTE EXTRACT

pH

Solids (Inorganic)

Total Barium - Solids [Soil] (061)

GP-TM-1091, GP-TM-1099; modified from EPA 6010 and SSSA PART 3

ICP - FUSION

Total Barium

Solids (Inorganic)

Waste Oil Content - Solids (086)

GP-TM-1197; BC REG 6388 D234

SOXHLET EXTRACTION

Waste Oil Content

Solids (Organic)

BTEX and MTBE and Styrene - Solids [Soil] (100)

NA-TM-1102, NA-TP-2102; modified from EPA 5012 and EPA 8260

GC/MS - MEOH HEADSPACE/EXTRACTION

Benzene

Ethylbenzene

m/p-xylene

Methyl t-butyl ether

o-xylene

Styrene

Toluene

Solids (Organic)

Leachable BTEX - Solids [Soil] (088)

GP-TM-1194 (LEACH), NA-TM-1102; modified from EPA 1311 (PREPARATION) and EPA 8260 (ANALYSIS)

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (039)

NA-TM-1100, NA-TP-2100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - TUMBLER EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

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Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (056)

NA-TM-1100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (101)

NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID - HEADSPACE

F1: C6-C10

VH: C6-C10

Waste (Inorganic)

Anions - Waste (083)

GP-TM-1306, GP-TP-2090; BC REG 6388 SCH 4 and EPA 300 and EPA 300.1

ION CHROMATOGRAPHY

Fluoride

Nitrate

Nitrite

Waste (Inorganic)

Flashpoint - Waste (026)

GP-TM-1311; ASTM D93

PENSKE-MARTINS CLOSED CUP

Flashpoint

Waste (Inorganic)

Leachable Cyanide - Waste (033)

GP-TM-1306, GP-TM-1080; modified from BC REG 6388 SCH 4 and EPA 9213

SIE - DISTILLATION - BC MLEP

Cyanide (SAD)

Waste (Inorganic)

Leachable Mercury - Waste (090)

GP-TM-1306, NA-TM-1005, NA-TP-2012; modified from BC REG 6388 and EPA 1631 and EPA 247.5

CVAA - MLEP EXTRACTION

Leachable Mercury

Waste (Inorganic)

Leachable Mercury - Waste (093)

NA-TM-1005, NA-TM-1700, NA-TP-2012; modified from EPA 1311 (PREPARATION) and EPA 1631 (ANALYSIS)

and EPA 247.5 (ANALYSIS)

CVAA BrCl DIGESTION

Mercury

Waste (Inorganic)

Leachable Metals - Waste (049)

GP-TM-1099, NA-TM-1700, NA-TP-2001; modified from EPA 1311 (PREPARATION) and SM 3120 (ANALYSIS)

ICP - EXTRACTION - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

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Iron
Lead
Nickel
Selenium
Silver
Thallium
Uranium
Vanadium
Zinc
Zirconium

Waste (Inorganic)

Leachable Metals - Waste (082)

GP-TM-1099, GP-TM-1306; modified from BC REG 6388 and SM 3120

ICP - EXTRACTION

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Nickel
Selenium
Silver
Thallium
Uranium
Vanadium
Zinc
Zirconium

Waste (Inorganic)

Leachable Metals - Waste (094)

NA-TM-1002, NA-TM-1700, NA-TP-2001, NA-TP-2007; modified from EPA 1311 (PREPARATION) and EPA 6020A (ANALYSIS)

ICP/MS - EXTRACTION - TCLP

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Nickel
Selenium
Silver

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Thallium
Uranium
Vanadium
Zinc
Zirconium

Waste (Inorganic)

Leachable Metals - Waste (097)

GP-TM-1306, NA-TM-1002, NA-TP-2007; modified from BC REG 6388 PART 2 and EPA 6020A

ICP/MS - - BCMLP

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Nickel
Selenium
Silver
Thallium
Uranium
Vanadium
Zinc
Zirconium

Waste (Inorganic)

Microtox - Waste (014)

NA-TM-1400; modified from ERCB DIRECTIVE 50

BIOLUMINESCENCE

Microtox EC50 (15 min.)

Microtox IC50 (15 min)

Water (Inorganic)

Ammonia - Water [Wastewater] (007)

GP-TM-1054; modified from SM 4500-NH3 D

SELECTIVE ION ELECTRODE

Ammonia

Water (Inorganic)

Anions - Water [Wastewater] (006)

GP-TP-2090; modified from SM 4110 B

ION CHROMATOGRAPHY

Chloride
Nitrate
Nitrite
Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (011)

GP-TM-1050; modified from SM 5210 B

D.O. METER

BOD (5 day)

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CBOD (5 day)
Soluble Biological Oxygen Demand (BOD)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water [Wastewater] (012)
GP-TM-1051; modified from SM 5220 D
COLOR - DIGESTION
COD

Water (Inorganic)

Colour - Water [Wastewater] (003)
GP-TM-1053; modified from P PTAC H.5P
SPECTROPHOTOMETRIC
True Colour

Water (Inorganic)

Conductivity - Water [Wastewater] (002)
GP-TM-1296; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Dissolved and Extractable Metals - Water [Wastewater] (015)
GP-TM-1099, NA-TP-2002; modified from SM 3120 B
ICP
Calcium
Magnesium
Potassium
Sodium

Water (Inorganic)

Dissolved Metals - Water (096)
NA-TM-1002, NA-TP-2002; modified from EPA 6020A
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium

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Silicon
Silver
Sodium
Strontium
Sulfur
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Hexavalent Chromium - Water (091)
GP-TM-1098; modified from SM 3500-CR C
ION CHROMATOGRAPHY
Hexavalent Chromium

Water (Inorganic)

Mercury - Water (099)
NA-TM-1005, NA-TP-2002, NA-TP-2012; modified from EPA 1631E and EPA 245.7
COLD VAPOUR AA
Mercury

Water (Inorganic)

Oil and Grease - Water [Wastewater] (013)
GP-TM-1195; modified from SM 5520 A and SM 5520 B and SM 5520 F
GRAVIMETRIC - SHAKE EXTRACTION
Total Oil and Grease

Water (Inorganic)

pH - Water [Wastewater] (001)
GP-TM-1298; modified from SM 4500-H+ B
pH METER
pH

Water (Inorganic)

Phosphate - Water [Wastewater] (008)
GP-TM-1055; modified from EPA 365.3
COLORIMETRIC
Phosphate

Water (Inorganic)

Solids - Water [Wastewater] (004)
GP-TM-1056; modified from SM 2540 D and SM 2540 E
GRAVIMETRIC
Total Suspended Solids
Volatile Suspended Solids

Water (Inorganic)

Specific Gravity - Water [Wastewater] (060)
GP-TM-1297; modified from ASTM D5057
GRAVIMETRIC
Specific Gravity

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Water (Inorganic)

Total Metals - Water (095)

NA-TM-1002, NA-TP-2001, NA-TP-2007; modified from EPA 6020A

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
Sulfur
Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Turbidity - Water [Wastewater] (022)

GP-TM-1007; modified from SM 2130 B

NEPHELOMETRY

Turbidity

Water (Organic)

BTEX and MTBE and Styrene - Water (087)

NA-TM-1102; modified from EPA 8260C

GC/MS - HEADSPACE

Benzene

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Ethylbenzene
m/p-xylene
Methyl t-butyl ether
o-xylene
Styrene
Toluene

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (075)

NA-TM-1112, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and EPA 3511 (PREPARATION)

GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (102)

NA-TM-1102; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021A

GC/FID - HEADSPACE

F1: C6-C10

Volatile Hydrocarbons (VH): C6-C10

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