



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 1352
Laboratory Name: ALS Environmental (Edmonton)
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: February 6, 2020
Valid To: April 29, 2021

Scope of Accreditation

Air (Inorganic)

Dustfall - Air [Dustfall] (120)
ED-TM-1030; modified from ALBERTA ENVIRONMENT 32020
GRAVIMETRIC
Fixed Dustfall
Total Dustfall

Air (Inorganic)

Fluoride - Air (188)
ED-TM-1028; modified from ALBERTA ENVIRONMENT and SM 4500-F- C
SELECTIVE ION ELECTRODE
Fluoride

Air (Inorganic)

Fluoride - Air [Filter] (219)
ED-TM-1008, NA-TM-1001; modified from NIOSH 7906
ION CHROMATOGRAPHY
Hydrogen Fluoride (as F)

Air (Inorganic)

Mercury - Air [Filter] (190)
ED-TP-2001, NA-TM-1005; modified from EPA 245.1 and NIOSH 6009
COLD VAPOUR AA - DIGESTION
Mercury

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Air (Inorganic)

Metals - Air [Filter] (016)

ED-TP-2001, NA-TM-1002; modified from EPA 6020A and NIOSH 7303

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Sulphur (Sulfur)

Thallium

Tin

Tungsten

Uranium

Vanadium

Zinc

Zirconium

Air (Inorganic)

Particulates - Air [Particulate] (223)

ED-TM-1140; modified from NIOSH 0500 and NIOSH 0600

GRAVIMETRIC

Particulates

Air (Inorganic)

Total Solids - Air [Impinger] (205)

ED-TM-1157; modified from EPA 5

GRAVIMETRIC

Total Solids (TS)

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Air (Organic)

Formaldehyde - Air (221)
ED-TM-1151; modified from EPA TO-11A and NIOSH 2016
HPLC/UV - EXTRACTION
Formaldehyde

Air (Organic)

Gas - Air [Compressed Breathing Air] (218)
ED-TM-1144; modified from ASTM D1946 and CSA 180 and EPA 3C
GC/TCD
Nitrogen
Oxygen

Air (Organic)

Hydrocarbons - Air (217)
ED-TM-1142, ED-TM-1144; modified from CSA Z180 and EPA 18
GC/FID
Carbon dioxide (CO₂)
Carbon monoxide (CO)
Ethane
Methane
Total Volatile Hydrocarbons (TVH): C1-C16

Air (Organic)

Volatile Organic Compounds (VOC) - Air (216)
ED-TM-1142; modified from EPA 018 and EPA 25C
GC/FID
Benzene
Ethylbenzene
Non-methane organic carbons
Toluene
Xylenes

Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (002)
ED-TM-1104, ED-TM-1116; modified from ASTM D4059 and EPA 8082
GC/ECD - EXTRACTION
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

Soil (Inorganic)

Ammonia - Solids [Soil] (225)
ED-TM-1024, ED-TP-2019; modified from EPA 350.1 and SM 4500-NH₃ and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1
COLORIMETRIC - SATURATED PASTE
Ammonia

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Solids (Inorganic)

Anions - Solids [Soil] (176)

ED-TP-2019, NA-TM-1001; modified from EPA 300.1 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1

ION CHROMATOGRAPHY (IC) - SATURATED PASTE

Chloride

Nitrate-N

Nitrite

Sulphate

Solids (Inorganic)

Asbestos - Solids [Bulk] (222)

ED-TM-1152; modified from EPA 600/R-93/116 and NIOSH 9002

POLARIZED LIGHT MICROSCOPY (PLM)

Bulk Asbestos

Solids (Inorganic)

Barium - Solids [Soil] (172)

ED-TM-1021, ED-TM-1055; modified from EPA 200.7 and SSSA PART 3, 1996, PG 202

ICP - FUSION

Barium

Solids (Inorganic)

Chloride - Solids [Saturated Paste, Soil] (168)

ED-TM-1032, ED-TP-2019; modified from SM 4500-CL- E and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1

COLORIMETRIC

Chloride

Solids (Inorganic)

Conductivity - Solids [Soil] (156)

ED-TM-1004, ED-TP-2019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.3

SATURATED PASTE, METER

Conductivity

Solids (Inorganic)

Density - Solids [Soil] (170)

ED-TM-1025; modified from ASTM D5057

GRAVIMETRIC

Density

Solids (Inorganic)

Extractable Barium - Solids [Soil] (182)

ED-TM-1021, ED-TM-1051; modified from BARITE WASTE GUIDELINES

ICP - EXTRACTION

Barium

Solids (Inorganic)

Grain Size - Solids [Soil] (028)

ED-TM-1014; modified from ASTM D422-63

SIEVING

PSA% >75um

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Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (148)

ED-TM-1023; modified from EPA 3060A

IC-ALKALINE DIGESTION

Hexavalent Chromium

Solids (Inorganic)

Hot Water Soluble Boron - Solids [Soil] (145)

ED-TM-1021, ED-TM-1040; modified from KEREN 1996 METHODS OF SOIL ANALYSIS

ICP - EXTRACTION

Boron

Solids (Inorganic)

Mercury - Solids [Soil] (164)

NA-TM-1005, NA-TP-2004; modified from EPA 200.2 and EPA 245.1

COLD VAPOUR AA - DIGESTION

Mercury

Solids (Inorganic)

Metals - Solids [Soil] (023)

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

Silver

Sodium

Strontium

Sulphur (Sulfur)

Thallium

Tin

Titanium

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Tungsten
Uranium
Vanadium
Zinc
Zirconium

Solids (Inorganic)

Oil and Grease - Solids [Soil] (029)
ED-TM-1131; modified from SM 5520
GRAVIMETRIC - EXTRACTION
Total Oil and Grease

Solids (Inorganic)

Paint Filter - Solids [Paint, Soil] (231)
ED-TM-1042; EPA 9095A
FILTRATION
Paint Filter (Free Liquid)

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (110)
ED-TM-1010; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.3
PARTICLE SIZE
Percent Clay
Percent Sand
Percent Silt

Solids (Inorganic)

Percent Moisture - Solids [Soil] (179)
NA-TM-1200; modified from ASTM D2216-80
GRAVIMETRIC
Percent Moisture

Solids (Inorganic)

Percent Saturation - Solids [Soil] (169)
ED-TP-2019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1
GRAVIMETRIC
Percent Saturation

Solids (Inorganic)

pH - Solids [Soil] (099)
ED-TM-1003, ED-TP-2019; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 and
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2
SATURATED PASTE, METER
pH

Solids (Inorganic)

pH - Solids [Soil] (100)
ED-TM-1003; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2
EXTRACTION, METER
pH (1:1) soil:water
pH (1:2) soil:water

Solids (Inorganic)

pH - Solids [Soil] (163)
ED-TM-1015; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.3
1:2 CaCl₂ EXTRACTION - METER
pH (1:2) soil:CaCl₂

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Solids (Inorganic)

Salinity - Solids [Soil] (160)

ED-TM-1021, ED-TP-2019; modified from EPA 200.7 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1

ICP (SATURATED PASTE)

Boron

Calcium

Magnesium

Potassium

Sodium

Sulphate

Sulphur (Sulfur)

Solids (Inorganic)

Sulfate - Solids (173)

ED-TM-1046, NA-TM-1001; modified from CSA A23.2

IC - DIGESTION

Sulphate (Sulfate)

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (154)

NA-TM-1102, NA-TP-2102; EPA 8260

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (155)

NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD and EPA 5021 and EPA 8260

GC/FID - HEADSPACE

F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (158)

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

GC/FID - EXTRACTION TUMBLER

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (171)

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

GRAVIMETRIC - TUMBLER

F4: Gravimetric

Solids (Organic)

Phenols - Solids [Soil] (077)

ED-TM-1113; modified from EPA 3540 and EPA 8270

GC/MS - EXTRACTION

2-Chlorophenol

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2-Methylphenol (o-Cresol)
2-Nitrophenol
2,3-Dichlorophenol
2,3,4-Trichlorophenol
2,3,4,5-Tetrachlorophenol
2,3,4,6-Tetrachlorophenol
2,3,5-Trichlorophenol
2,3,5,6-Tetrachlorophenol
2,3,6-Trichlorophenol
2,4 + 2,5-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,6-Dichlorophenol
3-Chlorophenol
3-Methylphenol (m-Cresol)
3,4-Dichlorophenol
3,4,5-Trichlorophenol
3,5-Dichlorophenol
4-Chloro-3-methylphenol
4-Chlorophenol
4-Methylphenol (p-Cresol)
4-Nitrophenol
4,6-Dinitro-2-methylphenol
Pentachlorophenol
Phenol

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Soil] (097)
ED-TM-1102, ED-TM-1116; modified from EPA 3550 and EPA 8082
GC/ECD - EXTRACTION
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids (227)
NA-TM-1105, NA-TP-2103; modified from EPA 3570 and EPA 8270
GC/MS - EXTRACTION
1-Methylnaphthalene
2-Methylnaphthalene

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Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b,j)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Perylene
Phenanthrene
Pyrene
Quinoline

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (167)

ED-TM-1111, NA-TM-1102, NA-TP-2102; modified from EPA 5021 and EPA 8260

GC/MS - HEADSPACE/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-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-Trichlorobenzene
1,3,5-Trimethylbenzene
1,4-dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)

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4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
cis-1,4-Dichloro-2-butene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethanol
Ethyl methacrylate
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl Ethyl Ketone
Methyl iodide
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Trichloroethylene

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Trichlorofluoromethane

Swab (Inorganic)

Mercury - Solids [Swab] (211)
ED-TP-2004, NA-TM-1005; modified from EPA 245.1 and EPA 3050B
COLD VAPOUR AA - DIGESTION
Mercury

Swab (Inorganic)

Metals - Solids [Swab] (201)
ED-TP-2004, NA-TM-1002; modified from EPA 200.2 and EPA 6020
ICP/MS - EXTRACTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Tin
Vanadium
Zinc

Swab (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Swab] (202)
ED-TM-1102, ED-TM-1116; modified from EPA 3550 and EPA 8082
GC/ECD - EXTRACTION
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268

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Total PCB

Waste (Inorganic)

Flashpoint - Waste (055)

ED-TM-1012; modified from ASTM 93-D
PENSKE-MARTEN CLOSED CUP

Flashpoint

Waste (Inorganic)

Mercury - Waste (162)

NA-TM-1005, NA-TM-1700; modified from EPA 1311 (PREPARATION) and EPA 245.1 (ANALYSIS) and EPA 245.7 (ANALYSIS)

COLD VAPOUR AA - DIGESTION - TCLP

Mercury

Waste (Inorganic)

Metals - Waste (141)

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

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

Waste (Inorganic)

Microtox - Waste [] (161)

NA-TM-1400; modified from AER D50

BIOLUMINESCENCE

Microtox IC50 (15 min)

Waste (Inorganic)

Specific Gravity - Waste (174)

ED-TM-1025; modified from ASTM D5057

GRAVIMETRIC

Specific Gravity

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Waste (Organic)

BTEX - Waste (135)

ED-TP-2005, NA-TM-1102; modified from EPA 1311 (PREPARATION) and EPA 8260B (ANALYSIS)

GC/MS - TCLP

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Water (Inorganic)

Acidity - Water (229)

ED-TM-1026; modified from SM 2310

TITRIMETRIC

Acidity

Water (Inorganic)

Alkalinity - Water (004)

ED-TM-1026; modified from SM 2320 B

TITRIMETRIC

Alkalinity (pH 4.5)

Alkalinity (pH 8.3)

Water (Inorganic)

Ammonia - Water (213)

ED-TM-1024; modified from EPA 350.1

COLORIMETRIC

Ammonia

Water (Inorganic)

Ammonia - Water (232)

ED-TM-1039; modified from JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7, P. 37-42

FLUORIMETRY

Ammonia

Water (Inorganic)

Anions - Water (005)

NA-TM-1001; modified from EPA 300.1

ION CHROMATOGRAPHY

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (013)

ED-TM-1007, ED-TM-1037; modified from SM 5210 B

D.O. METER

BOD (5 day)

CBOD (5 day)

Ultimate Biochemical Oxygen Demand (BOD) (180 day)

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Water (Inorganic)

Carbon - Water (118)
ED-TM-1002; modified from SM 5310 B
IR - COMBUSTION
Inorganic Carbon
Organic Carbon
Total Carbon (TC)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (051)
ED-TM-1009; modified from SM 5220 D
COLORIMETRIC - DIGESTION
COD

Water (Inorganic)

Chlorine - Water (123)
ED-TM-1036; modified from SM 4500-CL A and SM 4500-CL F and SM 4500-CL G
COLORIMETRIC
Free Chlorine
Total Chlorine

Water (Inorganic)

Colour - Water (152)
ED-TM-1038; modified from SM 2120 A and SM 2120 C
SPECTROPHOTOMETRIC
True Colour

Water (Inorganic)

Conductivity - Water (006)
ED-TM-1026; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Dissolved Metals - Water (007)
NA-TM-1002, NA-TP-2002; modified from EPA 6020
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cesium
Chromium
Cobalt
Copper
Iron
Lead
Lithium

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

Water (Inorganic)

Hexavalent Chromium - Water (035)
ED-TM-1023; modified from SM 3500-CR C
ION CHROMATOGRAPHY
Hexavalent Chromium

Water (Inorganic)

Mercury - Water (149)
NA-TM-1005; modified from EPA 245.1 and EPA 245.7
COLD VAPOUR AA, COLD OXIDATION
Mercury

Water (Inorganic)

Oil and Grease - Water (159)
NA-TM-1111; modified from SM 5520 C and SM 5520 F
INFRA-RED
Mineral Oil and Grease
Total Oil and Grease

Water (Inorganic)

pH - Water (015)
ED-TM-1026; modified from SM 4500-H+ A and SM 4500-H+ B
pH METER
pH

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Water (Inorganic)

Phosphate - Water (084)
ED-TM-1031; modified from SM 4500-P
COLORIMETRIC
Phosphate

Water (Inorganic)

Phosphate - Water (183)
ED-TM-1041; modified from SM 4500-P
COLORIMETRIC
Phosphate

Water (Inorganic)

Phosphorus - Water (011)
ED-TM-1031; modified from SM 4500-P B and SM 4500-P E
COLORIMETRIC - DIGESTION
Total Dissolved Phosphorus
Total Phosphorus

Water (Inorganic)

Phosphorus - Water (119)
ED-TM-1031, ED-TP-2006; modified from SM 4500-P A and SM 4500-P B and SM 4500-P E
COLORIMETRIC
Inorganic Phosphorus

Water (Inorganic)

Phosphorus - Water (184)
ED-TM-1041; modified from SM 4500-P B and SM 4500-P E
COLORIMETRIC
Total Dissolved Phosphorus
Total Phosphorus

Water (Inorganic)

Phosphorus - Water (224)
ED-TM-1041; SM 4500-P
COLORIMETRIC
Inorganic Phosphorus

Water (Inorganic)

Reactive Silica - Water (200)
ED-TM-1053; modified from SM 4500-SIO2 A and SM 4500-SIO2 E
COLORIMETRIC
Reactive Silica

Water (Inorganic)

Solids - Water (012)
ED-TM-1005, NA-TM-1004; modified from SM 2540 A and SM 2540 B and SM 2540 C and SM 2540 D and SM 2540 E
GRAVIMETRIC
Total Dissolved Solids
Total Suspended Solids

Water (Inorganic)

Sulphide - Water (033)
ED-TM-1001; modified from SM 4500-S2- A and SM 4500-S2- D and SM 4500-S2- E
COLORIMETRIC
Sulphide

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Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (233)

ED-TM-1043, NA-TM-1006; modified from JOURNAL OF ENVIRONMENTAL MONITORING (2005) SECTION 7,

P. 37-42 and SM 4500-NORG B

FLUORIMETRY

Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (082)

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 (078)
ED-TM-1011; modified from SM 2130 A and SM 2130 B
TURBIDIMETRIC
Turbidity

Water (Inorganic)

UV Absorbance and Transmittance - Water (230)
ED-TM-1058; modified from SM 5910 B
SPECTROPHOTOMETRIC
UV Absorbance
UV Transmittance

Water (Microbiology)

Coliforms - Water (196)
NA-TM-1300; modified from SM 9223 B
MOST PROBABLE NUMBER (QUANTI-TRAY)
Escherichia coli
Total Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (197)
NA-TM-1300; modified from SM 9223 B
MOST PROBABLE NUMBER (QUANTI-TRAY)
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (198)
NA-TM-1300; modified from SM 9215 E
MOST PROBABLE NUMBER (QUANTI-TRAY)
Heterotrophic Plate Count (HPC)

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (075)
NA-TM-1112; modified from EPA 3511
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50
Total Extractable Hydrocarbons (TEH): C11-C30

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (165)
NA-TM-1102; modified from EPA 5021 and EPA 8260
GC/FID - HEADSPACE
F1: C6-C10

Water (Organic)

Phenols - Water (228)
ED-TM-1057; modified from EPA 9066
COLORIMETRIC
Total Phenolics

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Water (Organic)

Polyaromatic Hydrocarbons (PAH) - Water (226)

NA-TM-1112, NA-TP-2019; modified from EPA 3511 and EPA 8270D

GC/MS - MICROEXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b,j)fluoranthene

Benzo(e)pyrene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3 - cd)pyrene

Naphthalene

Perylene

Phenanthrene

Pyrene

Quinoline

Water (Organic)

Resin and Fatty Acids - Water (020)

ED-TM-1106; modified from ALBERTA ENVIRONMENT 129.0

GC/MS - EXTRACTION

12-Chlorodehydroabietic acid

12,14-Dichlorodehydroabietic Acid

14-Chlorodehydroabietic acid

9,10-Dichlorostearic acid

Abietic acid

Arachidic acid

Dehydroabietic acid

Hexadecanoic acid (Palmitic acid)

Isopimaric acid

Levopimaric acid

Linoleic acid

Linolenic acid (Octadecadienoic acid)

Myristic acid (Tetradecanoic Acid)

Neoabietic acid

Oleic acid

Palustric acid

Pimaric acid

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Sandaracopimaric acid
Stearic acid (Octadecanoic acid)

Water (Organic)

Resin and Fatty Acids - Water (132)
ED-TM-1106; modified from ALBERTA ENVIRONMENT 129.0
GC/MS - EXTRACTION (RFA-Low ED)

12-Chlorodehydroabiatic acid
12,14-Dichlorodehydroabiatic Acid
14-Chlorodehydroabiatic acid
9,10-Dichlorostearic acid
Abiatic acid
Arachidic acid
Dehydroabiatic acid
Hexadecanoic acid (Palmitic acid)
Isopimaric acid
Levopimaric acid
Linoleic acid
Linolenic acid (Octadecadienoic acid)
Myristic acid (Tetradecanoic Acid)
Neobiatic acid
Oleic acid
Palustric acid
Pimaric acid
Sandaracopimaric acid
Stearic acid (Octadecanoic acid)

Water (Organic)

Volatile Organic Compounds (VOC) - Water (166)
NA-TM-1102; modified from EPA 5021 and EPA 8260
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

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1,4-dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
cis-1,4-Dichloro-2-butene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethanol
Ethyl methacrylate
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl Ethyl Ketone
Methyl iodide
Methyl isobutyl ketone (MIBK)
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene

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trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

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