



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 1352  
**Laboratory Name:** ALS Environmental (Edmonton)  
**Parent Institution:** ALS Canada Ltd.  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** March 18, 2021  
**Valid To:** September 16, 2023

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### 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  
ION SELECTIVE ELECTRODE (ISE)  
Fluoride

#### Air (Inorganic)

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

#### Air (Inorganic)

Mercury - Air [Filter] (190)  
ED-TP-2001, NA-TM-1005; modified from EPA 1631E and NIOSH 6009  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - 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

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**Air (Inorganic)**

Total Solids - Air [Impinger] (205)  
ED-TM-1157; modified from EPA 5  
GRAVIMETRIC  
Total Solids (TS)

**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 (CO<sub>2</sub>)  
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

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Total PCB

**Soil (Inorganic)**

Ammonia - Solids [Soil] (225)

ED-TM-1024, NA-TP-2008; modified from EPA 350.1 and SM 4500-NH3 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1

COLORIMETRIC - SATURATED PASTE

Ammonia

**Solids (Inorganic)**

Anions - Solids [Soil] (176)

NA-TM-1001, NA-TP-2008; 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, NA-TP-2008; 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, NA-TP-2008; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.3

METER - SATURATED PASTE

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

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**Solids (Inorganic)**

Grain Size - Solids [Soil] (028)  
ED-TM-1014; modified from ASTM D422-63  
GRAVIMETRIC - SIEVE  
PSA% >75um

**Solids (Inorganic)**

Hexavalent Chromium - Solids [Soil] (148)  
ED-TM-1023; modified from EPA 3060A  
ION CHROMATOGRAPHY (IC) - DIGESTION  
Hexavalent Chromium

**Solids (Inorganic)**

Mercury - Solids [Soil] (164)  
NA-TM-1005, NA-TP-2004; modified from EPA 1631E and EPA 200.2  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - 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

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Tin  
Titanium  
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)  
NA-TP-2008; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1  
GRAVIMETRIC  
Percent Saturation

**Solids (Inorganic)**

pH - Solids [Soil] (099)  
ED-TM-1003, NA-TP-2008; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 and  
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2  
METER - SATURATED PASTE  
pH

**Solids (Inorganic)**

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

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**Solids (Inorganic)**

pH - Solids [Soil] (163)

ED-TM-1015; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.3

PH METER - 1:2 CaCl<sub>2</sub> EXTRACTION

pH (1:2) soil:CaCl<sub>2</sub>

**Solids (Inorganic)**

Salinity - Solids [Soil] (160)

ED-TM-1021, NA-TP-2008; 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

ION CHROMATOGRAPHY (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 - TUMBLER EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

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**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 EXTRACTION

F4: Gravimetric

**Solids (Organic)**

Phenols - Solids [Soil] (077)

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

GC/MS - EXTRACTION

2,3,4,6-Tetrachlorophenol

2,4 + 2,5-Dichlorophenol

2,4,6-Trichlorophenol

Pentachlorophenol

**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

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

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Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (167)  
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)  
4-isopropyltoluene (p-Cymene)  
Acetone (2-Propanone)  
Acrylonitrile  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene

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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  
Trichlorofluoromethane

**Swab (Inorganic)**

Mercury - Solids [Swab] (211)  
ED-TP-2004, NA-TM-1005; modified from EPA 1631E and EPA 3050B  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - 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

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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  
Total PCB

**Waste (Inorganic)**

Flashpoint - Waste (055)  
ED-TM-1012; modified from ASTM 93-D  
PENSKY-MARTENS CLOSED CUP  
Flashpoint

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**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 ATOMIC ABSORPTION (CVAA) - 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 [Liquid] (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

**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

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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

FLUOROMETRIC

Ammonia

**Water (Inorganic)**

Anions - Water (005)

NA-TM-1001; modified from EPA 300.1

ION CHROMATOGRAPHY (IC)

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

DISSOLVED OXYGEN METER (DO)

BOD (5 day)

CBOD (5 day)

Ultimate Biochemical Oxygen Demand (BOD) (180 day)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (051)

ED-TM-1009; modified from SM 5220 D

COLORIMETRIC - DIGESTION

COD

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**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

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

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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 (IC)  
Hexavalent Chromium

**Water (Inorganic)**

Mercury - Water (149)  
NA-TM-1005; modified from EPA 1631E and EPA 245.7  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - COLD OXIDATION  
Mercury

**Water (Inorganic)**

Oil and Grease - Water (159)  
NA-TM-1111; modified from SM 5520 C and SM 5520 F  
INFRARED SPECTROSCOPY (IR)  
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

**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

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**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)**

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)**

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  
FLUOROMETRIC  
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

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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  
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

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**Water (Microbiology)**

Coliforms - Water (196)

NA-TM-1300; modified from SM 9223 B  
QUANTI-TRAY (COLILERT)

Escherichia coli

Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (197)

NA-TM-1300; modified from SM 9223 B  
QUANTI-TRAY (COLILERT)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (198)

NA-TM-1300; modified from SM 9215 E  
QUANTI-TRAY (COLILERT)

Heterotrophic Plate Count (HPC)

**Water (Organic)**

Naphthenic Acids - Water (234)

ED-TM-1107; modified from NAPHTHENIC ACIDS BY FTIR, SYNCRUDE, 1994  
FTIR - EXTRACTION

Naphthenic Acids

**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

**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

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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  
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

12-Chlorodehydroabietic acid

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12,14-Dichlorodehydroabiatic Acid  
14-Chlorodehydroabiatic acid  
9,10-Dichlorostearic acid  
Abietic acid  
Arachidic acid  
Dehydroabiatic acid  
Hexadecanoic acid (Palmitic acid)  
Isopimaric acid  
Levopimaric acid  
Linoleic acid  
Linolenic acid (Octadecadienoic acid)  
Myristic acid (Tetradecanoic Acid)  
Neoabiatic 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  
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)  
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  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
trans-1,4-Dichloro-2-butene

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Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

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