



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 2702
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: October 12, 2011
Valid To: April 12, 2014

Scope of Accreditation

Air

PAH - Air (205)
TO-0602; modified from EPA 8270 AND ARB METHOD 429 (CALIFORNIA AIR RESOURCES BOARD)
GC/MS
Acenaphthylene
Acenaphthene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Chrysene
Dibenz(a,h)anthracene
Fluorene
Indeno(1,2,3-c,d)pyrene
Naphthalene
Phenanthrene
Pyrene

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Air (Organic)

Dioxins and Furans (PCDD/PCDF) - Air (178)
T0-0600; modified from EPA 1613, EPS 1/RM/19
HRGC/HRMS-EXTRACTION

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TCDD
2,3,7,8-TCDF
OCDD
OCDF
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TCDD
Total TCDF

Air (Organic)

Polychlorinated Biphenyls (PCB) - Air (159)
TO-0601; modified from METHOD 1668, REVISION A
HRGC/HRMS-EXTRACTION

PCB 105
PCB 114
PCB 118
PCB 123
PCB 126
PCB 156
PCB 157
PCB 167
PCB 169
PCB 189
PCB 77
PCB 81

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Air (Organic)

Volatile Organic Compounds (VOC) - Air (Canisters) (191)

TO-0370; modified from EPA TO-15

GC/MS

1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Aliphatic >C10-C16
Aliphatic >C6-C8
Aliphatic >C8-C10
Aromatic >C10-C16
Aromatic >C8-C10
Benzene
Bromobenzene
Bromomethane
butanol
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1-2-Dichloroethene
cis-1-3-Dichloropropene
Cyclohexane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
ethanol
Ethylbenzene
Ethylene dibromide
Hexane
iso-propanol
Isooctane
Isopropylbenzene
m/p-xylene
methane
Methanol
Methyl Ethyl Ketone (MEK)
Methyl Isobutyl Ketone (MIBK)
Methyl tert-Butyl Ether (MTBE)

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n-decane
o-xylene
Pentane
pentanol
Styrene
Tetrachloroethene
Toluene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl Chloride

Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (015)
TO-0420; modified from AEC M106.0, AND ASTM D4059-00
GC/ECD - EXTRACTION
Arochlor 1016
Arochlor 1242
Arochlor 1254
Arochlor 1260
Total PCB

Soil (Inorganic)

Available Nutrients (K, S) - Soil (213)
SOIL-0131, SOIL-0132, INST-0140; RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA AGRICULTURE (RMSA)
ICP/OES
Potassium
Sulphur

Soil (Inorganic)

Available Nutrients (P) - Soil (214)
SOIL-0130, INST-0400; RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA AGRICULTURE (RMSA)
COLORIMETRIC
Phosphorus

Soil (Inorganic)

Fluoride-5.1 Extraction - Soil (207)
INST-0150, SOIL-0290; BC LAB MANUAL, SECTION B
ION CHROMATOGRAPHY
Fluoride

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Soil (Organic)

Ethanolamines - Soil (209)

TO-2240; IN-HOUSE

HPLC

Di-ethanolamine

Di-isopropanolamine

Mono-ethanolamine

Mono-isopropanolamine

Solids (Inorganic)

Ammonia - Soil (050)

INST-0200, SOIL-110, SOIL-630, SOIL-120; modified from SM 4500 NH3 G

COLORIMETRIC - EXTRACTION

Ammonia

Solids (Inorganic)

Anions - Soil (043)

INST-0150, SOIL-140; modified from SM 4110 B, MCKEAGUE 3.21

IC - SATURATED PASTE EXTRACTION

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Solids (Inorganic)

Boron - Soil (085)

SOIL-270, INST-0140, INST-0141; modified from MCKEAGUE 4.62, SM 3120B/3125

ICP - HOT WATER EXTRACTION

Boron

Solids (Inorganic)

Chloride - Soil, Sediment (177)

INST-0330; modified from SM 4500 CL E

AUTO COLOR

Chloride

Solids (Inorganic)

Conductivity - Soil (086)

INST-0121; modified from MCKEAGUE 4.13/3.21/4.12

CONDUCTIVITY METER - EXTRACTION

Conductivity (2:1)

Conductivity (saturated paste)

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Solids (Inorganic)

Conductivity - Soil, Sediment (174)

INST-0102; SM 2510

CONDUCTIVITY METER

Conductivity

Solids (Inorganic)

Extractable Barium - Soil (190)

SOIL-0610, INST-0140; modified from AB SOIL QUALITY GUIDELINES/BC ME METHOD 9

ICP/OES - EXTRACTION

Extractable Barium - 0.1M CaCl₂

Extractable Barium - 1.0M CaCl₂

Solids (Inorganic)

Flashpoint - Soil (088)

TO-2210; modified from ASTM D93-02A

PENSKY MARTENS CLOSED CUP TESTER

Flashpoint

Solids (Inorganic)

Hexavalent Chromium - Soil (091)

SOIL-0600; modified from SSSA PART 3 CH 25

SPECTROPHOTOMETRIC - EXTRACTION

Hexavalent Chromium

Solids (Inorganic)

Mercury - Soil (024)

INST-0161; SOIL-390; modified from SM 3112 B, EPA SW 846-3050 B, BC LAB MANUAL SECTION C

COLD VAPOUR AA - DIGESTION

Mercury

Solids (Inorganic)

Metals - Soil (026)

INST-0140, SOIL-390; modified from SM 3120, EPA SW 846 3050 B, BC LAB MANUAL SECTION C

ICP - DIGESTION

Aluminum

Arsenic

Barium

Beryllium

Bismuth

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

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Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur
Thallium
Titanium
Tungsten
Vanadium
Zinc
Zirconium

Solids (Inorganic)

Metals - Soil (145)

INST-0141, SOIL-390; modified from SM 3125, EPA SW846 3050 A, BC LAB MANUAL SECTION C
ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium

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Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Oil and Grease - Soil (047)
TO-2200; modified from EPA 821-R-98-002 METHOD 1664
FTIR - EXTRACTION
Oil and Grease

Solids (Inorganic)

Organic Carbon - Soil (049)
SOIL-480, SOIL-110, SOIL-120; modified from MSA PART 3 CH. 34
WALKLEY-BLACK WET OXID.
Organic Matter
Total Organic Carbon (TOC)

Solids (Inorganic)

Particle Size - Soil (058)
SOIL-520; modified from SHELDRIK, B.H. AND WANG, C "PARTICLE SIZE DISTRIBUTION" IN "SOIL SAMPLIN AND METHODS OF ANALYSIS", CARTER MO ED. 1993.
HYDROMETER (2 PT.)
% clay
% sand
% silt texture

Solids (Inorganic)

Particle Size - Soil (059)
SOIL-540; modified from SHELDRIK, B.H. AND WANG, C "PARTICLE SIZE DISTRIBUTION" IN "SOIL SAMPLIN AND METHODS OF ANALYSIS", CARTER MO ED. 1993.
SIEVE ANALYSIS
Particle Size

Solids (Inorganic)

Percent Saturation - Soil (093)
SOIL-0140; modified from MCKEAGUE 3.21
GRAVIMETRIC - SATURATED PASTE
Percent Saturation (Saturated Paste)

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Solids (Inorganic)

pH - Soil (046)

INST-0110, INST-0111, SOIL-0110, SOIL-0120, SOIL-0140; modified from USDASSIR 42, MCKEAGUE 4.1
PH METER

pH

pH (2:1)

pH (Saturated Paste)

Solids (Inorganic)

pH - Soil (Calcium Chloride Mix Ratio) (202)

INST-0103; CARTER, ET AL - SOIL SAMPLING & METHOD ANALYSIS, 2ND EDITION
pH METER - EXTRACTIONpH 1:2 Soil:CaCl₂**Solids (Inorganic)**

pH - Soil/Sediment (175)

INST-0102; SM 4500 H+

pH METER

pH

Solids (Inorganic)

Phenols - Soil (197)

INST-0300; modified from BIOTECHNOL LETT 28:2027-2031

AUTO COLOR

Total Phenolics

Solids (Inorganic)

Soluble Cations - Soil (189)

INST-0140, SOIL-0140; modified from SSMA CHAPTER 15 AND SM 3120 B
ICP/OES - SATURATED PASTE EXTRACTION

Calcium

Magnesium

Potassium

Sodium

Sulphur

Solids (Inorganic)

Total Barium - Soil (196)

SOIL-0620, INST-0140, INST-0141; modified from ASTM D4503; SM 3125 B

ICP - FUSION

Total Barium

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Solids (Microbiology)

Heterotrophic Plate Count (HPC) - Soil (055)
MIC-0300, MIC-0400; modified from SM 9215 C, SSMA CH.27
SPREAD PLATE
Heterotrophic Plate Count

Solids (Organic)

Alcohols - Soil, Sediment (165)
TO-1420; EPA 8015 B, EPA 5021
GC/FID
1-Butanol
2-butanol
Ethanol
Isobutanol
Isopropanol
Methanol
Pentanol
Propanol
tert-butyl alcohol

Solids (Organic)

Amines - Soil (141)
TO-1400; IN HOUSE DEVELOPED
GC/FID - EXTRACTION
Diethanolamine
Diethyl Ethanolamine
Diisopropanolamine
Ethanolamine
Methyl Diethanolamine
Monoisopropylamine
Sulfolane

Solids (Organic)

Base Neutral Extractables - Soil, Sediment (200)
TO1500; modified from EPA 8270 D
GC/MS
1,2-Dichlorobenzene
1,2,3-Trichlorobenzene
1,2,3,4-Tetrachlorobenzene
1,2,3,5-Tetrachlorobenzene
1,2,4-Trichlorobenzene
1,2,4,5-Tetrachlorobenzene
1,3-Dichlorobenzene
1,3,5-Trichlorobenzene
1,4-Dichlorobenzene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene

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Hexachloroethane
Pentachlorobenzene

Solids (Organic)

BTEX - Soil (092)

TO-0050; modified from EPA 1311, EPA SW-846 5030B, 8260B
GC/MS - TCLP LEACHATE

Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

Solids (Organic)

Dioxins, Furans (PCDD/PCDF) - Soil, Sediment (149)

T0-0600; modified from EPA 1613, EPS 1/RM/19
HRGC/HRMS-EXTRACTION

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TCDD
2,3,7,8-TCDF
OCDD
OCDF
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TCDD
Total TCDF

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Solids (Organic)

Glycols - Soil/Sediment (161)
TO-1410; modified from EPA SW-846, 8015A, 3570
GC/FID
Diethylene Glycol
Ethylene Glycol
Propylene Glycol
Tetraethylene Glycol
Triethylene Glycol

Solids (Organic)

Glyphosate - Soil, Sediment (170)
TO-1320; OSHA METHOD# PV2067
HPLC
Glyphosate

Solids (Organic)

Nitroaromatics, Nitramines and Nitrate Esters - Soil, Sediment (203)
TO-2100; EPA 8330
HPLC
1,3-DNB
1,3,5-TNB
2-A-4, 6-DNT (2-am-dnt)
2-Nitrotoluene
2,4-DNT
2,4,6-TNT
2,6-DNT
3-Nitrotoluene
3,5-DNA
4-A-2, 6-DNT (4-am-dnt)
4-Nitrotoluene
HMX
Nitrobenzene
Nitroglycerin
PETN
RDX
Tetryl

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (132)
TO-0570; CCME CWS-PHC-TIER1 METHOD
GC/FID - PURGE AND TRAP
F1: C6-C10

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Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (133)
TO-0550; modified from CCME CWS-PHC-TIER1 METHOD
GRAVIMETRIC - EXTRACTION
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (136)
T0-0560; CCME CWS PHC TIER 1 METHOD
GC/FID - EXTRACTION COLD SHAKE
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (137)
TO-0560; CCME CWS PHC TIER 1 METHOD
GRAVIMETRIC - EXTRACTION COLD SHAKE
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (151)
TO-0543; modified from CCME CWS-PHC TIER 1 METHOD
GC/MS - HEADSPACE
F1: C6-C10

Solids (Organic)

Phenols - Soil, Sediment (199)
TO1200; modified from EPA 8321 B
HPLC/UV - EXTRACTION
2-Chlorophenol
2-Methyl-4,6-Dinitrophenol
2-Methylphenol
2-Nitrophenol
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-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,6-Dichlorophenol
3,4,5-Trichlorophenol

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4-Chloro-3-Methylphenol
4-Nitrophenol
Dinoseb
m&p-Cresol (3&4-methylphenol)
Pentachlorophenol
Phenol

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Soil (157)
TO-0601; modified from EPA METHOD 1668, REVISION A
HRGC/HRMS-EXTRACTION

PCB 105
PCB 114
PCB 118
PCB 123
PCB 126
PCB 156
PCB 157
PCB 167
PCB 169
PCB 189
PCB 77
PCB 81

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Soil (071)
TO-0410; modified from AEC G106.0, EPA SW-846-8082
GC/ECD - EXTRACTION

Arochlor 1016
Arochlor 1221
Arochlor 1232
Arochlor 1248
Arochlor 1262
Arochlor 1268
Total PCB

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (028)
TO-0210; modified from EPA SW-846 8270D/3540C/3570
GC/MS - EXTRACTION

1 methyl naphthalene
2 methyl naphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene

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Benzo (a) pyrene
Benzo (b) 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
Quiroline

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Soil (155)
TO-0602; modified from EPA SW-846 8270D, California EPA ARB Method 429
HRGC/HRMS-EXTRACTION

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

Solids (Organic)

Sterilants - Soil, Sediment (195)
TO-1300; modified from EPA 8270 C, EPA 3540 B, EPA 3570
HPLC

Atrazine
Bromacil
Diuron
Linuron
Simazine
Tebuthiuron

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Solids (Organic)

Total Extractable Hydrocarbons (TEH) - Soil (053)

TO-0510; modified from AECV92-M2, EPA SW-846 CH.4, BCMOE CSR EPH IN SOLIDS BY GC/FID
GC/FID - EXTRACTION

EPH (C10-C19)

EPH (C19-C32)

SASK (C10-C22)

SASK (C23-C60)

TEH C10-C30

Solids (Organic)

Total Petroleum Hydrocarbons (TPH) - Soil (082)

TO-0550; modified from CCME CWS-PHC-TIER1 METHOD
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Total Purgeable Hydrocarbons (TPH) - Soil (052)

TO-0570; modified from CCME PHC TIER 1 METHOD
GC/FID - EXTRACTION

TPGH (C5-C10)

VH (C6-C10)

Solids (Organic)

Volatile Organic Compounds (VOC) - Soil (099)

TO-0340; modified from EPA SW-846 5030B/8260B, BC Lab Manual Section D
GC/MS - EXTRACTION

1,1-Dichloroethane

1,1-dichloroethylene

1,1,1-Trichloroethane

1,1,1,2-tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

2-Hexanone

Acetone (2-Propanone)

Benzene

Bromform

Bromodichloromethane

Bromomethane

Carbon Tetrachloride

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Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3,-dichloropropene
cis-1,3-Dichloropropene
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans,1,3-dichloropropene
trans-1,2,-dichloroethene
trans-1,2-Dichloroethylene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Solids (Organic)

Volatile Organic Compounds (VOC) - Soil (152)
TO-0333; modified from EPA SW-846 8260 B/5030 B
GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-tetrachloroethane
1,1,2-Trichloroethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,4-trichlorobenzene
1,3-Dichlorobenzene
1,4-dichlorobenzene
2-Hexanone
Acetone (2-Propanone)
Benzene
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane

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Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans,1,3-dichloropropene
trans-1,2-Dichloroethylene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Tissue (Organic)

Dioxins/Furans (PCDD/PCDF) - Tissue (Biological) (148)
T0-0600; modified from EPA 1613, EPS 1/RM/19
HRGC/HRMS-EXTRACTION

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TCDD
2,3,7,8-TCDF
OCDD
OCDF
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TCDD

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Total TCDF

Tissue (Organic)

Polychlorinated Biphenyls (PCB) - Tissue (158)
TO-601; modified from EPA METHOD 1668, REVISION A
HRGC/HRMS-EXTRACTION

PCB 105
PCB 114
PCB 118
PCB 123
PCB 126
PCB 156
PCB 157
PCB 167
PCB 169
PCB 189
PCB 77
PCB 81

Waste (Inorganic)

Anions (Modified SWEP) - Waste (184)
INST-0150, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS
IC - EXTRACTION (MODIFIED SWEP)

Fluoride
Nitrate
Nitrite

Waste (Inorganic)

Cyanide (Modified SWEP) - Waste (185)
INST-0310, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS
COLORIMETRIC (MODIFIED SWEP)

Cyanide

Waste (Inorganic)

Free Liquid - Waste (181)
SOIL-0580; EPA SW-846 METHOD 9095
PAINT FILTER TEST

Free Liquid

Waste (Inorganic)

Mercury (Modified SWEP) - Waste (183)
INST-0160, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS
COLD VAPOUR AA - EXTRACTION (MODIFIED SWEP)

Mercury

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Waste (Inorganic)

Mercury (TCLP Leachate) - Waste (180)

INST-0160, SOIL-0420; modified from EPA SW-846 METHOD 1311, SM 3112 B
COLD VAPOUR AA - TCLP

Mercury

Waste (Inorganic)

Metals (Modified SWEP) - Waste (182)

INST-0140, SOIL-0650; modified from SCHED 4, BC HAZARDOUS WASTE REGULATIONS
ICP/OES - EXTRACTION (MODIFIED SWEP)

Arsenic

Barium

Boron

Cadmium

Chromium

Copper

Lead

Mercury

Selenium

Silver

Uranium

Zinc

Waste (Inorganic)

Metals (TCLP Leachate) - Waste (179)

INST-0140, SOIL-0420; modified from EPA SW-846 METHOD 1311, SM 3120 B
ICP/OES - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Mercury

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

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Waste (Inorganic)

Oil and Grease (SWOG) - Waste (186)
TO-3500; modified from section D224, BC REGULATIONS
GRAVIMETRIC (SWOG)
Oil and Grease

Water (Inorganic)

Alkalinity - Water (001)
INST-0100; modified from SM 2320B
TITRIMETRIC
Alkalinity (pH 4.5)

Water (Inorganic)

Alkalinity - Water (171)
INST-0101; modified from SM 2320 B
AUTO TITRIMETRIC (PC TITRATE)
Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (063)
INST-0420; modified from SM 4500-NH3 G
COLORIMETRIC
Ammonia

Water (Inorganic)

Anions - Water (002)
INS-0150, WATR-0200; modified from SM 4110B
ION CHROMATOGRAPHY
Bromate
Bromide
Chlorate
Chloride
Chlorite
Fluoride
Nitrate
Nitrite
Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (010)
MIC-1500; modified from SM 5210 B
D.O. METER
BOD (5 day)
CBOD (5 day)

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Water (Inorganic)

Carbon - Water (062)
INST-0170; modified from SM 5310 B
COMBUSTION - INFRARED
Inorganic Carbon
Total Carbon

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (061)
INST-0280; modified from EPA 410.4
SPECTROPHOTOMETRIC
COD

Water (Inorganic)

Conductivity - Water (003)
INST-0120; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Conductivity - Water (173)
INST-0101; SM 2510
AUTO TITRIMETRIC (PC TITRATE)
Conductivity (25°C)

Water (Inorganic)

Cyanide - Water (021)
INST-0310; modified from EPA 335.3
COLOR - DISTILLATION
Cyanide (SAD)
Free Cyanide

Water (Inorganic)

Dissolved Metals - Water (004)
INST-0140, WATR-0200; modified from SM 3120 B
ICP/OES
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
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Dissolved Metals - Water (129)

INST-0141, WATR-0200; modified from SM 3125

ICP/MS

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel

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Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Mercury - Low Level - Water (206)

INST-0162; EPA 1631

COLD VAPOUR ATOMIC FLUORESCENCE - DIGESTION

Mercury

Water (Inorganic)

Mercury - Water (073)

INST-0160; modified from SM 3112B

COLD VAPOUR AA

Mercury

Water (Inorganic)

Oil and Grease - Water (069)

TO-2200; modified from EPA 821-R-98-002 METHOD 1664

FTIR - EXTRACTION

Total Oil and Grease

Water (Inorganic)

pH - Water (135)

INST-0100; modified from SM 4500-H+ B

pH METER

pH

Water (Inorganic)

pH - Water (172)

INST-0101; modified from SM 4500 H+

AUTO TITRIMETRIC (PC TITRATE)

pH

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Water (Inorganic)

Phenols - Water (124)
INST-0300; modified from EPA 420.2
AUTO COLOR
Total Phenolics

Water (Inorganic)

Phosphate - Water (103)
INST-0400; modified from TECHNICON METHOD N-26
AUTO COLOR
Phosphate

Water (Inorganic)

Reactive Silica - Water (007)
INST-0460; modified from SM 4500-SiO2 E
AUTO COLOR
Reactive Silica

Water (Inorganic)

Solids - Water (011)
WATR-0600, WATR-0610; SM 2540 C, D
GRAVIMETRIC
Total Dissolved Solids
Total Suspended Solids

Water (Inorganic)

Sulfide - Water (105)
WATR-0100; modified from SM 4500-S2- D
COLORIMETRIC
Sulfide

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (009)
INST-0430; modified from SM 4500-NORG D
AUTO COLOR - DIGESTION
Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (143)
INST-0140, WATR-0200; modified from SM 3120
ICP/OES - NITRIC ACID DIGESTION
Aluminum
Barium

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Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulfur
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Total Metals - Water (144)

INST-0141, WATR-0200; modified from SM 3125

ICP/MS - NITRIC ACID DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt
Copper

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Gallium
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silicon
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Turbidity - Water (107)
WATR-0500; SM 2130 B
NEPHELOMETRY
Turbidity

Water (Microbiology)

Coliforms - Water (208)
MIC-0205; SM 9223
MOST PROBABLE NUMBER (COLILERT - QUANTI-TRAY)
Escherichia coli (E. coli)
Fecal (Thermotolerant) Coliforms
Total Coliforms

Water (Microbiology)

Coliforms - Water (211)
MIC-0202; EPA 1604
MEMBRANE FILTRATION (MI AGAR)
Escherichia coli (E. coli)
Total Coliforms

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Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (012)
MIC-0203; SM 9222 D
MEMBRANE FILTRATION (mFC)
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (068)
MIC-0300; modified from SM 9215 C
SPREAD PLATE
Heterotrophic Plate Count (HPC)

Water (Microbiology)

Total Coliforms - Water (130)
MIC-0201; modified from SM 9222 B
MEMBRANE FILTRATION (mCOLIBLUE)
Escherichia coli (E. coli)
Total Coliforms

Water (Organic)

Alcohols - Water (166)
TO-1420; EPA 8015 B, EPA 5021
GC/FID
1-Butanol
2-butanol
Ethanol
Isobutanol
Isopropanol
Methanol
Pentanol
Propanol
tert butyl alcohol

Water (Organic)

Base Neutral Extractables - Wastewater (201)
TO1500; modified from EPA 8270 D
GC/MS
1,2-Dichlorobenzene
1,2,3-Trichlorobenzene
1,2,3,4-Tetrachlorobenzene
1,2,3,5-Tetrachlorobenzene
1,2,4-Trichlorobenzene
1,2,4,5-Tetrachlorobenzene
1,3-Dichlorobenzene
1,3,5-Trichlorobenzene
1,4-Dichlorobenzene
Hexachlorobenzene

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Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Pentachlorobenzene

Water (Organic)

Dioxins and Furans (PCDD/PCDF) - Water (147)
T0-0600; modified from EPA 1613, EPS 1/RM/19
HRGC/HRMS-EXTRACTION

OSDWA †

1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TCDD
2,3,7,8-TCDF
OCDD
OCDF
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TCDD
Total TCDF

Water (Organic)

Ethanolamines - Water (210)
TO-2240; IN-HOUSE
HPLC

Di-ethanolamine
Di-isopropanolamine
Mono-ethanolamine
Mono-isopropanolamine

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Water (Organic)

Glycols - Water (162)
TO-1410; modified from NIOSH 5523
GC/FID
Diethylene Glycol
Ethylene Glycol
Propylene Glycol
Tetraethylene Glycol
Triethylene Glycol

Water (Organic)

Glyphosate - Water (169)
TO-1320; OSHA METHOD# PV2067
HPLC
Glyphosate

OSDWA †

Water (Organic)

Nitroaromatics, Nitramines and Nitrate Esters - Water (204)
TO-2100; EPA 8330
HPLC
1,3-DNB
1,3,5-TNB
2-A-4, 6-DNT (2-am-dnt)
2-Nitrotoluene
2,4-DNT
2,4,6-TNT
2,6-DNT
3-Nitrotoluene
3,5-DNA
4-A-2, 6-DNT (4-am-dnt)
4-Nitrotoluene
HMX
Nitrobenzene
Nitroglycerin
PETN
RDX
Tetryl

Water (Organic)

Phenols - Water, Wastewater (198)
TO1200; modified from EPA 8321 B
HPLC/UV - EXTRACTION
2-Chlorophenol
2-Methyl-4,6-Dinitrophenol
2-Methylphenol
2-Nitrophenol
2,3,4-Trichlorophenol
2,3,4,5-Tetrachlorophenol

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2,3,4,6-Tetrachlorophenol
2,3,5-Trichlorophenol
2,3,5,6-Tetrachlorophenol
2,3,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,6-Dichlorophenol
3,4,5-Trichlorophenol
4-Chloro-3-Methylphenol
4-Nitrophenol
Dinoseb
m&p-Cresol (3&4-methylphenol)
Pentachlorophenol
Phenol

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (156)
TO-601; modified from EPA1668, REVISION A
HRGC/HRMS-EXTRACTION

PCB 105
PCB 114
PCB 118
PCB 123
PCB 126
PCB 156
PCB 157
PCB 167
PCB 169
PCB 189
PCB 77
PCB 81

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (160)
TO-0400; modified from EPA 8082
GC/ECD

Arochlor 1016
Arochlor 1221
Arochlor 1232
Arochlor 1248
Arochlor 1262
Arochlor 1268
Arochlor 1242
Arochlor 1254
Arochlor 1260

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Total PCB

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (014)
TO-0200; modified from EPA SW-846 8270 C/3510 B/3511
GC/MS - EXTRACTION

1 methylanthracene
2 methylanthracene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) 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)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (154)
TO-0602; modified from EPA SW-846 8270D, California EPA ARB Method 429
HRGC/HRMS-EXTRACTION

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

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Pyrene

Water (Organic)

Sterilants - Water (194)

TO-1300; modified from EPA 8270 C, EPA 3510 B, EPA 3570

HPLC

Atrazine

Bromacil

Diuron

Linuron

Simazine

Tebuthiuron

Water (Organic)

Total Amines - Water (142)

TO-1400; IN HOUSE DEVELOPED

GC/FID - EXTRACTION

Diethanolamine

Diethyl Ethanolamine

Diisopropanolamine

Ethanolamine

Methyl Diethanolamine

Monoisopropylamine

Sulfolane

Water (Organic)

Total Extractable Hydrocarbons (TEH) - Water (066)

TO-0511; modified from EPA SW-846-3510/AECV92-M2, BCMOE CSR EPH IN WATER BY GC/FID

GC/FID - EXTRACTION

C10-C32

EPH (C10-C19)

EPH (C10-C32)

F2 (C10-C16)

SASK (C10-C22)

SASK (C23-C60)

Water (Organic)

Total Purgeable Hydrocarbons (TPH) - Water (065)

TO-0540; modified from EPA SW-846-5030 B/8260 B

GC/FID - PURGE AND TRAP

F1 (C6-C10)

TPGH (C5-C10)

VH (C6-C10)

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Water (Organic)

Total Purgeable Hydrocarbons (TPH) - Water (150)
TO-0542; modified from EPA SW-846 5021/8015 B
GC/MS - HEADSPACE
F1 (C6-C10)
TPGH (C5-C10)
VH (C6-C10)

Water (Organic)

Volatile Organic Acids - Water (212)
TO-2230; IN-HOUSE
ION CHROMATOGRAPHY
Acetic acid
Butiric acid
Caproic acid
Formic acid
iso-Butiric acid
iso-Valeric acid
Propionic acid
Valeric acid

Water (Organic)

Volatile Organic Compounds (VOC) - Water (125)
TO-0330; modified from EPA SW-846 8260 B/5030 B
GC/MS - PURGE AND TRAP
1,1-Dichloroethane
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-dichlorobenzene
2-hexanone
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene

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cis-1,3-Dichloropropene
Dibromochloromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m/p-xylene
Methy-t-Butyl Ether
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl Chloride

Water (Organic)

Volatile Organic Compounds (VOC) - Water (153)
TO-0332; modified from EPA SW-846 8260 B/5030 B
GC/MS - HEADSPACE

1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,2-dibromomethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,4-trichlorobenzene
1,3-Dichlorobenzene
1,4-dichlorobenzene
2-Hexanone
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene

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Dichloromethane
Ethylbenzene
m/p-xylene
Methyl Ethyl Ketone
Methyl isobutyl Ketone
Methyl t-butyl ether
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

Water (Toxicology)

Microtox - Liquid Phase - Water (020)
TOX-0100; modified from EPS 1/RM/24
BIOLUMINESCENCE
Microtox IC50 (15 min)

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