



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3788
Laboratory Name: AGAT Laboratories - Burnaby
Parent Institution: AGAT Laboratories Ltd.
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: September 12, 2019
Valid To: August 14, 2021

Scope of Accreditation

Air (Organic)

Volatile Organic Compounds (VOC) - Air [Soil Vapour] (001)
ORG-180-5170; modified from BC MOE LABORATORY MANUAL SECTION H and EPA TO-17
GC/MS - THERMAL DESORPTION

- 1-Chlorobutane
- 1-Chlorohexane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 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
- 1,2:3,4-Diepoxybutane
- 1,3-Butadiene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene

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1,4-Dichlorobenzene
2-Butanone (Methyl ethyl ketone, MEK)
2-Chlorotoluene
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
4-Methyl-2-pentanone (MIBK)
Acetone (2-Propanone)
Acetonitrile
Acrylonitrile
Allyl chloride (3-chloropropene)
Benzene
Benzyl chloride (a-Chlorotoluene)
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
cis-1,4-Dichloro-2-butene
Dibromochloromethane
Dibromofluoromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Epichlorohydrin
Ethyl acetate
Ethyl ether
Ethyl methacrylate
Ethylbenzene
Hexachlorobutadiene
Hexachloroethane
Isobutanol (2-Methyl-1-propanol)
Isopropylbenzene (Cumene)
m,p-Xylene
Methacrylonitrile
Methyl acrylate
Methyl methacrylate
Methyl tert-butyl ether (MTBE)
Methylcyclohexane
n-Butylbenzene
n-Decane
n-Hexane
n-Propylbenzene
Naphthalene

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Nitrobenzene
o-Xylene
Pentachloroethane
Pentafluorobenzene
Propionitrile
Pyridine
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Volatile Hydrocarbons (VH): C6-C13

Paint (Inorganic)

Lead - Paint (072)
LAB-181-4020, MET-181-6101; modified from EPA 6010 and NIOSH 7105
ICP/OES - DIGESTION
Lead

Solids (Inorganic)

Acid Base Accounting (ABA) - Solids [Ore, Rock, Sediment, Sludge, Soil, Tailings] (078)
ARD-181-18003; EPA 600/2-78-054 (1978)
pH METER
Paste pH

Solids (Inorganic)

Acid Base Accounting (ABA) - Solids [Ore, Rock, Sediment, Sludge, Soil, Tailings] (079)
ARD-181-18009, INOR-181-6022; modified from MEND REPORT 1.20.1 (2009) and SM 4500-SO4 E
SPECTROPHOTOMETRIC - DIGESTION
Sulphate-Sulphur

Solids (Inorganic)

Boron (Hot Water Soluble) - Solids [Soil] (048)
LAB-181-4011, MET-181-6101; BC MOE LABORATORY MANUAL SECTION C and EPA 6010C
ICP - HOT WATER EXTRACTION
Boron

Solids (Inorganic)

Carbon-Nitrogen-Sulphur Speciation - Solids [Ore, Sediment, Sludge, Soil, Tailings] (080)
INOR-181-6027; modified from ASTM E1019-11 and ASTM E1915-11
COMBUSTION - TC
Total Carbon (TC)
Total Nitrogen
Total Sulphur (Total Sulfur)

Solids (Inorganic)

Chloride - Solids [Saturated Paste] (098)
INOR-181-6023, LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B
COLORIMETRIC
Chloride

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Solids (Inorganic)

Conductivity - Solids [Saturated Paste, Saturated Paste Extract] (095)

LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B

CONDUCTIVITY METER

Conductivity

Solids (Inorganic)

Cyanide - Solids [Soil] (058)

INOR-181-6010, LAB-181-4013; modified from EPA 335.3 and EPA 9013A

FLOW CHEMISTRY

Cyanide (SAD)

Cyanide (WAD)

Solids (Inorganic)

Fluoride - Solids [Soil] (060)

INOR-181-6002, LAB-181-4014; BC MOE LABORATORY MANUAL SECTION B and SM 4110

ION CHROMATOGRAPHY - 5:1 AQUEOUS EXTRACTION

Fluoride

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (049)

INOR-181-6029, LAB-181-4016; modified from EPA 3060A and SM 3500-CR B

COLORIMETRIC - EXTRACTION

Hexavalent Chromium

Solids (Inorganic)

Metals - Solids (007)

LAB-181-4001, MET-181-6102; modified from EPA 1311 (PREPARATION) and EPA 6020A (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Mercury

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

Solids (Inorganic)

Metals - Solids [Saturated Paste] (097)

INOR-181-6101, LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B

ICP/OES

Calcium

Magnesium

Potassium

Sodium

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Sulphur (Sulfur)

Solids (Inorganic)

Metals - Solids [Soil] (005)

LAB-181-4008, MET-181-6102; BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 200.2 (ANALYSIS) and EPA 6020A (ANALYSIS)

ICP/MS - DIGESTION

Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper
Lead
Lithium
Mercury
Molybdenum
Nickel
Selenium
Silver
Thallium
Tin
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Solids (Inorganic)

Metals - Solids [Soil] (008)

LAB-181-4008, MET-181-6101; BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 200.2 (ANALYSIS) and EPA 6010C (ANALYSIS)

ICP/OES - DIGESTION

Aluminum
Barium
Calcium
Chromium
Copper
Iron
Magnesium
Manganese
Nickel
Potassium
Sodium
Strontium
Titanium
Vanadium
Zinc

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Solids (Inorganic)

Modified Acid Base Accounting (ABA) - Solids [Ore, Sediment, Sludge, Soil, Tailings] (077)
ARD-181-18000; MEND PROJECT 1.16.1A (1989)
TITRATION
Neutralization Potential (NP)

Solids (Inorganic)

Moisture - Solids [Soil] (009)
INOR-181-6030; ASTM D2974-07A
GRAVIMETRIC
Percent Moisture

Solids (Inorganic)

Oil and Grease - Solids [Soil] (056)
ORG-180-5104; modified from BC MOE LABORATORY MANUAL SECTION D
GRAVIMETRIC - EXTRACTION
Mineral Oil and Grease
Total Oil and Grease

Solids (Inorganic)

Percent Saturation - Solids [Saturated Paste] (096)
LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B
GRAVIMETRIC
Percent Saturation

Solids (Inorganic)

pH - Solids [Saturated Paste] (094)
LAB-181-4022; BC MOE LABORATORY MANUAL SECTION B
pH METER
pH

Solids (Inorganic)

pH - Solids [Soil] (011)
INOR-181-6031; BC MOE LABORATORY MANUAL SECTION B
METER - EXTRACTION
pH (1:2) soil:water

Solids (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Solids [Soil] (068)
INOR-181-6034, LAB-181-4017; modified from EPA 351.2
AUTO COLOR
Total Kjeldahl Nitrogen (TKN)

Solids (Inorganic)

Waste Oil - Solids (016)
ORG-180-5120; BC MOE LABORATORY MANUAL SECTION D
GRAVIMETRIC - EXTRACTION
Waste Oil Content

Solids (Microbiology)

Fecal (Thermotolerant) Coliforms - Solids (070)
MIC-181-7007; SM 9221 E
MULTIPLE TUBE FERMENTATION (MPN)
Fecal (Thermotolerant) Coliforms

Solids (Microbiology)

Salmonella - Solids (069)
MIC-181-7008; SM 9260 B
MULTIPLE TUBE TECHNIQUE (MPN)
Salmonella

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Solids (Organic)

BTEX and Volatile Petroleum Hydrocarbons (VPH) and Volatile Hydrocarbons (VH) - Solids [Soil] (012)

ORG-180-5100; modified from BC MOE LABORATORY MANUAL SECTION D

GC/MS/FID - HEADSPACE

Benzene

Ethylbenzene

m,p-Xylene

Methyl t-butyl ether

o-Xylene

Styrene

Toluene

Volatile Hydrocarbons (VH): C6-C10

Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Solids [Soil] (013)

ORG-180-5101; modified from BC MOE LABORATORY MANUAL SECTION D

GC/FID - COLD SHAKE EXTRACTION

Extractable Petroleum Hydrocarbons (EPH): C10-C19

Extractable Petroleum Hydrocarbons (EPH): C19-C32

Solids (Organic)

Leachable Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (089)

LAB-181-4001; EPA 1311 (PREPARATION)

GC/MS

1-Methylnaphthalene

2-Methylnaphthalene

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

Perylene

Phenanthrene

Pyrene

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (090)

ORG-180-5100; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/MS/FID

F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (091)

ORG-180-5137; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID

F2: C10-C16

F3: C16-C34

F4: C34-C50

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Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Soil] (102)

ORG-180-5138; modified from BC MOE LABORATORY MANUAL SECTION D
GC/ECD

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

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (014)

ORG-180-5102; modified from BC MOE LABORATORY MANUAL SECTION D
GC/MS - COLD SHAKE EXTRACTION

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
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
Pyrene
Quinoline

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (015)

ORG-180-5103; modified from BC MOE LABORATORY MANUAL SECTION D
GC/MS - PURGE AND TRAP

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

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Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m,p-Xylene
Methyl Ethyl Ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Hexane
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Volatile Hydrocarbons (VH): C6-C10

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (088)

LAB-180-5135; EPA 1311 (PREPARATION)

GC/MS - HEADSPACE

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-Dibromoethane (Ethylene dibromide)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Benzene
Bromodichloromethane
Bromoform
Carbon disulfide
Carbon tetrachloride

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Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl tert-butyl ether (MTBE)
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Tissue (Inorganic)

Metals - Tissue (017)

LAB-181-4007, MET-181-6101; modified from BC MOE LABORATORY MANUAL SECTION C (PREPARATION) and EPA 6010C (ANALYSIS)

ICP/OES - DIGESTION

Calcium
Magnesium
Phosphorus
Potassium
Sodium

Tissue (Inorganic)

Metals - Tissue (062)

LAB-181-4007, MET-181-6102; modified from BC MOE LABORATORY MANUAL SECTION C and EPA 6020A

ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

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Tissue (Inorganic)

Total Mercury - Tissue (018)

LAB-181-4007, MET-181-6100; modified from EPA 3050B and EPA 7471B

COLD VAPOUR AA - DIGESTION

Mercury

Water (Inorganic)

Acidity - Water (071)

INOR-181-6020; modified from SM 2310 B

TITRIMETRIC

Acidity

Water (Inorganic)

Acidity - Water (084)

INOR-181-6000; modified from SM 2310 B

AUTO TITRIMETRIC

Acidity

Water (Inorganic)

Alkalinity - Water (019)

INOR-181-6000; modified from SM 2320 B

AUTO TITRIMETRIC

Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (020)

INOR-181-6001; modified from SM 4500-NH3 G

SEGMENTED FLOW

Ammonia

Water (Inorganic)

Anions - Water (021)

INOR-181-6002; modified from SM 4110 B

ION CHROMATOGRAPHY

Bromate

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (041)

INOR-181-6032; modified from BC MOE LABORATORY MANUAL SECTION D

D.O. METER

BOD (5 day)

CBOD (5 day)

Water (Inorganic)

Carbon - Water (022)

INOR-181-6003; modified from SM 5310 B

COMBUSTION - IR

Organic Carbon

Total Carbon (TC)

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Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (023)
INOR-181-6004; modified from SM 5220 D
SPECTROPHOTOMETRIC
COD

Water (Inorganic)

Chlorophyll A - Water (100)
INOR-181-6025; SM 10200 H
SPECTROPHOTOMETRIC
Chlorophyll a

Water (Inorganic)

Colour - Water (063)
INOR-181-6033; modified from BC MOE LABORATORY MANUAL SECTION B
SPECTROPHOTOMETRIC (UV-VIS)
Apparent Colour
True Colour

Water (Inorganic)

Conductivity - Water (024)
INOR-181-6000; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Conductivity - Water (082)
ARD-181-18012; SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Cyanide - Water (025)
INOR-181-6010; modified from EPA 335.3
FLOW CHEMISTRY
Cyanide (SAD)
Cyanide (WAD)

Water (Inorganic)

Dissolved Mercury - Water (027)
LAB-181-4015, MET-181-6100; modified from EPA 245.7
COLD VAPOUR AA
Mercury

Water (Inorganic)

Dissolved Metals - Water (028)
LAB-181-4015, MET-181-6102; modified from SM 3125 B
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper

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Iron
Lead
Lithium
Manganese
Molybdenum
Nickel
Phosphorus
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Dissolved Metals - Water (029)

LAB-181-4015, MET-181-6101; modified from SM 3120 B

ICP/OES

Calcium

Iron

Magnesium

Manganese

Phosphorus

Potassium

Silicon

Sodium

Sulphur (Sulfur)

Water (Inorganic)

Hexavalent Chromium - Water (030)

INOR-181-6005; modified from SM 3500-CR B

COLORIMETRIC

Hexavalent Chromium

Water (Inorganic)

Nitrite and Nitrate and Nitrate plus Nitrite - Water (099)

INOR-181-6026; modified from SM 4500-NO2- B and SM 4500-NO3- F

COLORIMETRIC

Nitrate (calculation)

Nitrate plus Nitrite

Nitrite

Water (Inorganic)

Nitrogen - Water (031)

INOR-181-6006; modified from SM 4500-N

COMBUSTION - IR

Total Dissolved Nitrogen

Total Nitrogen

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Water (Inorganic)

Oil and Grease - Water (045)

ORG-180-5132; modified from BC MOE LABORATORY MANUAL SECTION D
GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

Water (Inorganic)

Oxidation Reduction Potential (ORP) - Water (083)

ARD-181-18013; SM 2580 B

ORP METER

Oxidation Reduction Potential (ORP)

Water (Inorganic)

pH - Water (032)

INOR-181-6000; modified from SM 4500-H+

pH METER

pH

Water (Inorganic)

pH - Water (081)

ARD-181-18011; SM 4500-H+

pH METER

pH

Water (Inorganic)

Phosphate - Water (066)

INOR-181-6021; modified from SM 4500-P F

AUTO COLOR

Phosphate

Water (Inorganic)

Phosphorus - Water (033)

INOR-181-6011, LAB-181-4015; modified from SM 4500-P B and SM 4500-P F

AUTO COLOR

Total Dissolved Inorganic Phosphorus

Total Dissolved Phosphorus

Total Inorganic Phosphorus

Total Phosphorus

Water (Inorganic)

Reactive Silica - Water (034)

INOR-181-6012; modified from SM 4500-SIO2

AUTO COLOR

Reactive Silica

Water (Inorganic)

Solids - Water (035)

INOR-181-6007; SM 2540 C and SM 2540 D and SM 2540 E

GRAVIMETRIC

Fixed Solids

Total Dissolved Solids

Total Suspended Solids

Volatile Solids (VS)

Volatile Suspended Solids

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Water (Inorganic)

Sulphide - Water (101)
INOR-181-6035; modified from SM 4500-S2- D
COLORIMETRIC
Sulphide (Sulfide)

Water (Inorganic)

Tannin and Lignin - Water (075)
INOR-181-6018; modified from SM 5550 B
SPECTROPHOTOMETRIC
Tannin and Lignin

Water (Inorganic)

Total Mercury - Water (037)
MET-181-6100; modified from EPA 245.7
COLD VAPOUR AA - DIGESTION
Mercury

Water (Inorganic)

Total Mercury - Water [Seawater] (061)
MET-181-6100; modified from EPA 245.7
COLD VAPOUR AA - DIGESTION
Mercury

Water (Inorganic)

Total Metals - Water (038)
LAB-181-4009, MET-181-6102; modified from SM 3125 B
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Manganese
Molybdenum
Nickel
Phosphorus
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

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Water (Inorganic)

Total Metals - Water (039)

LAB-181-4009, MET-181-6101; modified from SM 3120 B

ICP/OES - DIGESTION

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

Water (Inorganic)

Total Metals - Water [Seawater] (057)

LAB-181-4009, MET-181-6102; modified from SM 3125 B

ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Lithium

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Manganese
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Turbidity - Water (040)
INOR-181-6008; BC MOE LABORATORY MANUAL SECTION B
TURBIDIMETRIC
Turbidity

Water (Microbiology)

Coliforms - Water (052)
MIC-181-7004; SM 9223 B
ENZYME SUBSTRATE (MPN)
Escherichia coli
Total Coliforms

Water (Microbiology)

Coliforms - Water (065)
MIC-181-7003; SM 9222 B and SM 9222 G
MEMBRANE FILTRATION (mENDO)
Escherichia coli
Total Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (053)
MIC-181-7005; SM 9222 D
MEMBRANE FILTRATION (mFC)
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (043)
MIC-181-7002; SM 9215 E
ENZYME SUBSTRATE
Heterotrophic Plate Count (HPC)

Water (Organic)

BTEX - Water (044)
ORG-180-5130; modified from EPA 5012A and EPA 8260C
GC/MS - HEADSPACE
Benzene
Ethylbenzene
m,p-Xylene
Methyl t-butyl ether
o-Xylene
Styrene
Toluene

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Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (064)
ORG-180-5134; modified from BC MOE LABORATORY MANUAL SECTION D
GC/FID - EXTRACTION
Extractable Petroleum Hydrocarbons (EPH): C10-C19
Extractable Petroleum Hydrocarbons (EPH): C19-C32

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (092)
ORG-180-5130; BC MOE LABORATORY MANUAL and EPA 5021A and EPA 8260C
GC/MS/FID
F1: C6-C10

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (093)
ORG-180-5134; BC MOE LABORATORY MANUAL
GC/FID
F2: C10-C16
F3: C16-C34
F4: C34-C50

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (103)
ORG-180-5139; modified from BC MOE LABORATORY MANUAL SECTION D
GC/ECD
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (047)
ORG-180-5133; modified from BC MOE LABORATORY MANUAL SECTION D
GC/MS - EXTRACTION
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
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
Quinoline

Water (Organic)

Volatile Hydrocarbons (VH) - Water (076)
ORG-180-5130; modified from BC MOE LABORATORY MANUAL SECTION D
GC/FID - HEADSPACE
Volatile Hydrocarbons (VH): C6-C10

Water (Organic)

Volatile Organic Compounds (VOC) - Water (046)
ORG-180-5131; modified from BC MOE LABORATORY MANUAL SECTION D
GC/MS - PURGE AND TRAP
1,1-Dichloroethane
1,1-dichloroethylene
1,1,1-Trichloroethane
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
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m,p-Xylene
Methyl Ethyl Ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride
Volatile Hydrocarbons (VH): C6-C10

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