



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3588
Laboratory Name: AGAT Laboratories (Dartmouth)
Parent Institution: AGAT Laboratories Ltd.
Address: 11 Morris Drive Unit 122 Dartmouth NS B3B 1M2
Contact: Ms. Pam Reyno
Phone: (902) 468-8718
Fax: (902) 468-8924
Email: reyno@agatlabs.com; vhill@agatlabs.com

Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: June 19, 2018
Valid To: April 3, 2019

Scope of Accreditation

Air (Inorganic)

Total Suspended Particulates - Air [Particulate] (128)

INOR-121-6041; EPA 5
GRAVIMETRIC

Total Suspended Particulate (TSP)

Air (Organic)

Total Petroleum Hydrocarbons (TPH) - Air (087)

VOL-120-5027; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS and NIOSH 1500

GC/FID

Aliphatic >C10-C12

Aliphatic >C12-C16

Aliphatic >C16-C21

Aliphatic C6-C8

Aliphatic >C8-C10

Aromatic >C10-C12

Aromatic >C12-C16

Aromatic >C8-C10

Benzene

>C10-C21

>C6-C10

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

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Air Filter

Metals - Air [Filter] (121)

MET-121-6105, MET-121-6112; modified from NIOSH 7303 and SM 3125

ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Oil (Organic)

Total Polychlorinated Biphenyls (PCB) - Oil (001)

ORG-120-5107; modified from ALBERTA ENVIRONMENT M106.0 and ASTM D4059-00

GC/ECD - EXTRACTION

Total PCB

Paint (Inorganic)

Mercury - Paint (108)

MET-121-6101, MET-121-6107; modified from DETERMINATION OF TOTAL MERCURY IN PAINT & APPLIED COATINGS, PRODUCT SAFETY BUREAU REF. MANUAL BOOK 5, HEALTH CANADA

COLD VAPOUR AA - DIGESTION

Mercury

Paint (Inorganic)

Metals - Paint (075)

MET-121-6103, MET 121-6105; modified from EPA 3050B and EPA 6020A and SM 3125

ICP/MS

Arsenic
Bismuth
Cadmium
Copper
Lead
Lithium
Molybdenum
Phosphorus
Rubidium
Selenium
Silver

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Sodium
Thallium
Tin
Uranium
Vanadium

Paint (Organic)

Total Polychlorinated Biphenyls (PCB) - Paint (105)
ORG-120-5107; modified from EPA 8082A
GC/ECD - EXTRACTION
Total PCB

Solids (Inorganic)

Grain Size - Solids [Soil] (095)
INOR-121-6034; ASTM D422-63
SIEVE AND PIPETTE
0 PHI (<1)
1 PHI (<1/2)
-1 PHI (<2)
2 PHI (<1/4)
-2 PHI (<4.75)
3 PHI (<1/8)
-3 PHI (<9.5)
4PHI (<1/16)
-4PHI (<12.5)
5 PHI (<1/32)
6 PHI (<1/64)
7 PHI (<1/128)
8 PHI (<1/256)
9 PHI (<1/512)
% clay
Gravel
% Sand
Silt

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (101)
INOR-121-6029; modified from SSSA BOOK 5, CH 25, P683
AUTO COLOR
Hexavalent chromium

Solids (Inorganic)

Leachable Mercury - Solids [Soil] (084)
MET-121-6107, INOR-121-6039; EPA 245.1 (ANALYSIS) and IN-HOUSE (PREPARATION) and SM 3112 B (ANALYSIS)
COLD VAPOUR AA - LEACH
Mercury

Solids (Inorganic)

Leachable Mercury - Solids [Soil] (085)
MET-121-6107, INOR-121-6036; modified from EPA 1312 and EPA 245.1 and SM 3112 B
COLD VAPOUR AA - SPLP
Mercury

Solids (Inorganic)

Leachable Mercury - Solids [Soil] (086)
MET-121-6107, INOR-121-6040; modified from CGSB and EPA 245.1 and SM 3112 B
COLD VAPOUR AA - CGSB
Mercury

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Solids (Inorganic)

Leachable Metals - Solids [Soil] (077)

MET-121-6105, INOR-121-6039; IN-HOUSE (PREPARATION) and SM 3030 B (ANALYSIS) and SM 3030 F (ANALYSIS) and SM 3125 (ANALYSIS)

ICP/MS - LEACH

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Bismuth
- Boron
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Lithium
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Rubidium
- Selenium
- Silver
- Strontium
- Thallium
- Tin
- Titanium
- Uranium
- Vanadium
- Zinc

Solids (Inorganic)

Leachable Metals - Solids [Soil] (078)

MET-121-6105, INOR-121-6036; modified from EPA 1312 and SM 3030 B and SM 3030 F and SM 3125

ICP/MS - SPLP

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

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Magnesium
Manganese
Molybdenum
Nickel
Rubidium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Leachable Metals - Solids [Soil] (079)

MET-121-6105, INOR-121-6040; modified from CGSB 164-GP-1MP and SM 3030 B and SM 3030 F and SM 3125

ICP/MS - Leachable CGSB

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Rubidium
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

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Solids (Inorganic)

Mercury - Solids [Soil] (004)

MET-121-6107, MET-121-6101; modified from EPA 245.5 and SM 3112 B

COLD VAPOUR AA - DIGESTION

Mercury

Solids (Inorganic)

Metals - Solids [Soil] (005)

MET-121-6105, MET-121-6103; modified from EPA 3050B and EPA 6020A and SM 3125

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Uranium

Vanadium

Zinc

Zirconium

Solids (Inorganic)

pH - Solids [Sediment, Soil] (076)

INOR-121-6006; modified from CANADIAN SOCIETY OF SOIL SCIENCE - P155

METER

Soil pH

Solids (Inorganic)

Phenols - Solids [Soil] (091)

INOR-121-6010; modified from EPA 9065

AUTO COLOR

Total Phenolics

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Solids (Inorganic)

Total Oil and Grease - Solids [Sediment, Soil] (073)

VOL-120-5024; IN-HOUSE

GRAVIMETRIC

Total Oil and Grease

Solids (Organic)

BTEX - Solids (175)

VOL-120-5031; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM

HYDROCARBONS METHODS

GC/MS - HEADSPACE

Benzene

Ethylbenzene

m/p-xylene

o-xylene

Toluene

Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) Fractionation - Solids [Soil] (058)

VOL-120-5007; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

PETROLEUM HYDROCARBONS METHODS

GC/FID - EXTRACTION

Aliphatic >C10-C12

Aliphatic >C12-C16

Aliphatic >C16-C21

Aliphatic >C21-C32

Aromatic >C10-C12

Aromatic >C12-C16

Aromatic >C16-C21

Aromatic >C21-C32

>C10-C16

>C16-C21

Fuel Oil (>C10-C21)

Lube Oil (>C21-C32)

Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Soil] (100)

ORG-120-5108; modified from EPA 3510C and EPA 8080 and EPA 8081A

GC/ECD - EXTRACTION

a-BHC

a-Chlordane

Aldrin

b-BHC

d-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

Endrin Keytone

g-BHC (Lindane)

g-Chlordane

Heptachlor

Heptachlor epoxide

Hexachlorobenzene

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Methoxychlor
Mirex
o,p'-DDD
o,p'-DDE
o,p'-DDT
Oxychlorane
p,p'-DDD
p,p'-DDE
p,p'-DDT
Trifluralin

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids (174)
VOL-120-5031; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM
HYDROCARBONS METHODS
GC/FID - HEADSPACE
F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids (176)
VOL-120-5031; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - HEADSPACE
F1: C6-C10

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (050)
VOL-120-5024; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - SHAKE EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (059)
VOL-120-5024; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC - SHAKE EXTRACTION
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (116)
VOL-120-5015; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - PURGE AND TRAP
F1: C6-C10

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (008)
ORG-120-5104; modified from EPA 3510 and EPA 3541 and EPA 8270C
GC/MS - EXTRACTION
1-Chloronaphthalene
1-Methylnaphthalene
2-Chloronaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene

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Benzo(b,i)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

Solids (Organic)

Total Polychlorinated Biphenyls (PCB) - Solids [Soil] (009)
ORG-120-5106; modified from EPA 3510C and EPA 8082
GC/ECD - EXTRACTION
Total PCB

Solids (Organic)

Volatile BTEX and Methyl t-butyl ether (MTBE) - Solids [Soil] (011)
VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
Methyl t-butyl ether
o-xylene
Toluene

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (014)
VOL-120-5002; modified from EPA 5035 and EPA 8260B
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
1,3-Dichloropropane
1,4-dichlorobenzene
2-Chloroethyl vinyl ether
2-Hexanone
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform

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Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
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-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Solids (Organic)

Volatile Petroleum Hydrocarbons (VPH) Fractionation - Solids [Soil] (063)
VOL-120-5013; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/FID - PURGE AND TRAP
Aliphatic C6-C8
Aliphatic >C8-C10
Aromatic >C8-C10
F1: C6-C10

Swab (Inorganic)

Metals - Solids [Swab] (129)
MET-121-6105, MET-121-6112; modified from NIOSH 9102 and SM 3125 B
ICP/MS - DIGESTION
Aluminum
Barium
Beryllium
Cadmium
Cobalt
Iron
Lead
Manganese
Molybdenum
Nickel
Silver
Thallium
Tin
Titanium
Uranium

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Swab (Organic)

Polychlorinated Biphenyls (PCB) - Solids [Swab] (149)

ORG-120-5107; EPA 8081 and EPA 8082

GC/ECD

Total PCB

Tissue (Inorganic)

Mercury - Tissue (099)

MET-121-6101, MET-121-6107; modified from DETERMINATION OF TOTAL MERCURY IN PAINTS, PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK 5 - HEALTH CAN and EPA 245.6

COLD VAPOUR AA

Mercury

Tissue (Inorganic)

Metals - Tissue (098)

MET-121-6103, MET-121-6105; modified from EPA 200.8 and EPA 3050

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

Tissue (Organic)

Organochlorine (OC) Pesticides - Tissue (183)

ORG-120-5115; modified from EPA 3510C and EPA 8080 and EPA 8081A

GC/ECD - EXTRACTION

a-Chlordane

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Aldrin
b-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Keytone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Methoxychlor
Mirex
o,p'-DDD
o,p'-DDE
o,p'-DDT
Oxychlordane
p,p'-DDD
p,p'-DDE
p,p'-DDT
Trifluralin

Tissue (Organic)

Petroleum Hydrocarbons (PHC) - Tissue (097)

VOL-120-5032; modified from DETERMINATION OF PETROLEUM HYDROCARBONS IN SELECTED MARINE ORGANISMS, UNEP 1995

GC/MS

Extractable Petroleum Hydrocarbons

Tissue (Organic)

Polychlorinated Biphenyls (PCB) - Tissue (182)

ORG-120-5117; modified from AGILENT GC/ECD ANALYSIS & CONFIRMATION OF PCBS IN FISH TISSUE and EPA 8082A

GC/ECD - EXTRACTION

Total PCB

Tissue (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Tissue (181)

ORG-120-5116; modified from AGILENT PAH ANALYSIS IN FISH BY GC/MS and EPA 3510 and EPA 3541 and EPA 8270C

GC/MS - EXTRACTION

1-Chloronaphthalene

1-Methylnaphthalene

2-chloronaphthalene

2-Methylnaphthalene

Acenaphthalene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(b,i)fluoranthene

Benzo(e)pyrene

Benzo(q,h,i)perylene

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Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Perylene
Phenanthrene
Pyrene

Waste (Leachate)

Volatile Organic Compounds (VOC) - Leachate [Waste] (137)

VOL-120-5001, INOR-121-6039; modified from EPA 5030B (ANALYSIS) and EPA 624 (ANALYSIS) and EPA 8260 (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS

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
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Chloroethyl vinyl ether
2-Hexanone
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
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 (MTBE)
o-Xylene
Styrene
Tetrachloroethylene

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Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Waste (Organic)

BTEX and MTBE - Waste (114)

VOL-120-5010, INOR-121-6036; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and EPA 1312

GC/MS - PURGE AND TRAP - SPLP

Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
t-Butyl methyl ether (MTBE)
Toluene

Waste (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Waste (113)

VOL-120-5007, INOR-121-6036; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and EPA 1312

GC/FID - SPLP

>C10-C16
>C10-C21
>C16-C21
>C21-C32

Waste (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Waste (143)

VOL-120-5007, INOR-121-6039; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/FID

>C10-C16
>C16-C21
>C21-C32

Waste (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Waste (144)

VOL-120-5007, INOR-121-6040; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and CGSB 164-GP-IMP

GC/FID

>C10-C16
>C16-C21
>C21-C32

Waste (Organic)

Polychlorinated Biphenyls (PCB) - Waste (148)

ORG-120-5106, INOR-121-6040; CGSB 164-GP-IMP and EPA 3510C and EPA 8082

GC/ECD

Total PCB

Waste (Organic)

Polychlorinated Biphenyls (PCB) - Waste (150)

ORG-120-5106, INOR-121-6039; EPA 3510C (ANALYSIS) and EPA 8082 (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/ECD

Total PCB

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Waste (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (102)

ORG-120-5104, INOR-121-6036; modified from EPA 1312 and EPA 3510 and EPA 3541 and EPA 8270D

GC/MS - SPLP

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
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

Waste (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (146)

ORG-120-5104, INOR-121-6040; CGSB 164-GP-IMP and EPA 3510 and EPA 354 and EPA 8270D

GC/MS

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,i)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

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Waste (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Waste (147)

ORG-120-5104, INOR-121-6039; EPA 3510 (ANALYSIS) and EPA 3541 (ANALYSIS) and EPA 8270D (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS

1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,i)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

Waste (Organic)

Total Polychlorinated Biphenyls (PCB) - Waste (103)

ORG-120-5106, INOR-121-6036; modified from EPA 1312 and EPA 3510C and EPA 8082

GC/ECD - SPLP

Total PCB

Waste (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Waste (118)

VOL-120-5010, INOR-121-6036; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and EPA 1312

GC/FID - PURGE AND TRAP - SPLP

C6-C10

Waste (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Waste (139)

VOL-120-5010, INOR-121-6039; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/FID - PURGE AND TRAP

C6-C10

Waste (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Waste (140)

VOL-120-5010, INOR-121-6039; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/MS - PURGE AND TRAP

Benzene
Ethylbenzene
m,p-Xylene
o-Xylene

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Toluene

Water (Inorganic)

Acidity - Water (179)
INOR-121-6044; SM 2310
TITRATION
Acidity

Water (Inorganic)

Alkalinity - Water (020)
INOR-121-6001; modified from SM 2320 B
TITRATION
Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (021)
INOR-121-6003; modified from SM 4500-NH3 G
AUTO COLOR
Ammonia

Water (Inorganic)

Anions - Water (022)
INOR-121-6005; SM 4110 B
ION CHROMATOGRAPHY
Bromate
Bromide
Chlorate
Chloride
Chlorite
Fluoride
Nitrate
Nitrite
Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (023)
INOR-121-6023; modified from SM 5210 B
D.O. METER
BOD (5 day)
CBOD (5 day)

Water (Inorganic)

Carbon - Water (056)
INOR-121-6026; SM 5310 B
IR - COMBUSTION
Inorganic Carbon
Organic Carbon
Total Carbon

Water (Inorganic)

Carbon Dioxide - Water (180)
INOR-121-6044; SM 4500-CO2 C
TITRATION
Carbon dioxide (CO2)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (024)
INOR-121-6013; SM 5220 D
COLOR - DIGESTION
COD

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Water (Inorganic)

Chlorine - Water (188)

INOR-121-6045; EPA 330.5

SPECTROPHOTOMETRIC

Total Chlorine

Water (Inorganic)

Colour - Water (055)

INOR-121-6014; SM 2120 C

AUTO COLOR

True Colour

Water (Inorganic)

Conductivity - Water (025)

INOR-121-6001; modified from SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

Water (Inorganic)

Dissolved and Extractable Metals - Water (029)

MET-121-6104, MET-121-6105; modified from SM 3030 B and SM 3030 D and SM 3125

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

Zirconium

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Water (Inorganic)

Ferrous Iron - Water (090)
INOR-121-6035; SM 3500-FE B
SPECTROPHOTOMETRIC
Ferrous Iron

Water (Inorganic)

Hexavalent Chromium - Water (074)
INOR-121-6029; modified from SM 3500-CR B
AUTO COLOR
Hexavalent Chromium

Water (Inorganic)

Mercury - Water (032)
MET-121-6100, MET-121-6107; modified from EPA 245.1 and SM 3112 B
COLD VAPOUR AA - DIGESTION
Mercury

Water (Inorganic)

Oil and Grease - Water (066)
VOL-120-5026; modified from EPA 1664A
GRAVIMETRIC
Mineral Oil and Grease
Total Oil and Grease

Water (Inorganic)

pH - Water (035)
INOR-121-6001; modified from SM 4500-H+ B
pH METER
pH

Water (Inorganic)

Phosphate - Water (034)
INOR-121-6004; modified from EPA 365.1 and SM 4500-P F
AUTO COLOR
Phosphate

Water (Inorganic)

Reactive Silica - Water (057)
INOR-121-6028; EPA 370.1 and SM 4500-SIO2 E
AUTO COLOR
Reactive Silica

Water (Inorganic)

Redox Potential (ORP) - Water (122)
INOR-121-6042; SM 2580 B
ELECTRODE
Redox Potential

Water (Inorganic)

Solids - Water (036)
INOR-121-6024, INOR-121-6025, INOR-121-6043; modified from SM 2540 C and SM 2540 D and SM 2540 E
GRAVIMETRIC
Fixed Solids
Total Dissolved Solids
Total Solids
Total Suspended Solids
Volatile Solids
Volatile Suspended Solids

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Water (Inorganic)

Sulphide - Water (187)

INOR-121-6015; SM 4500-S D

SPECTROPHOTOMETRIC

Sulphide

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (037)

INOR-121-6020; modified from SM 4500-NORG D

AUTO COLOUR

Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (030)

MET-121-6104, MET-121-6105; modified from SM 3030 B and SM 3030 D and SM 3125

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silver

Sodium

Strontium

Tellurium

Thallium

Tin

Titanium

Uranium

Vanadium

Zinc

Zirconium

Water (Inorganic)

Total Phosphorus - Water (038)

INOR-121-6009; modified from EPA 365.4 and SM 4500-P E

AUTO COLOR

Total Phosphorus

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Water (Inorganic)

Turbidity - Water (039)
INOR-121-6022; SM 2130 B
NEPHELOMETRY
Turbidity

Water (Microbiology)

Coliforms - Water (081)
MIC-121-7000; modified from SM 9223 B
COLILERT - PRESENCE/ABSENCE
Escherichia coli (E. coli)
Total Coliforms

Water (Microbiology)

Coliforms - Water (115)
MIC-121-7000; modified from SM 9223 B
COLILERT- QUANTI-TRAY (MPN)
Escherichia coli (E. coli)
Total Coliforms

Water (Microbiology)

Coliforms - Water (166)
MIC-121-7002; SM 9222 H
MEMBRANE FILTRATION (mCOLIBLUE)
Escherichia coli (E. coli)
Total Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (160)
MIC-121-7001; modified from SM 9222 D
COLILERT- QUANTI-TRAY
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (167)
MIC-121-7002; SM 9222 D
MEMBRANE FILTRATION (mFC)
Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (168)
MIC-121-7002; SM 9215 D
MEMBRANE FILTRATION (mHPC)
Heterotrophic Plate Count (HPC)

Water (Microbiology)

Pseudomonas - Water (169)
MIC-121-7002; SM 9213 E
MEMBRANE FILTRATION (mPA)
Pseudomonas aeruginosa ((Parameter suspended on 12/5/2017))

Water (Organic)

BTEX - Water (044)
VOL-120-5010; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2
PETROLEUM HYDROCARBONS METHODS
GC/MS - PURGE AND TRAP
Benzene
Ethylbenzene
m/p-xylene
o-xylene

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Toluene

Water (Organic)

Dissolved Gases - Water (178)

VOL-120-5028; modified from EPA RSK-175

GC/FID - HEADSPACE

Butane

Ethane

Methane

Propane

Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (060)

VOL-120-5026; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and IN-HOUSE (PREPARATION)

GRAVIMETRIC

F4G

Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) Fractionation - Water (072)

VOL-120-5007; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS

GC/FID - EXTRACTION

Aliphatic >C10-C12

Aliphatic >C12-C16

Aliphatic >C16-C21

Aliphatic >C21-C32

Aromatic >C10-C12

Aromatic >C12-C16

Aromatic >C16-C21

Aromatic >C21-C32

>C10-C16

>C16-C21

Fuel Oil (>C10-C21)

Lube Oil (>C21-C32)

Water (Organic)

Haloacetic Acids (HAA) - Water (061)

ORG-120-5110; modified from EPA 552.3

GC/ECD

Bromoacetic Acid

Bromochloroacetic acid

Chloroacetic acid

Dibromoacetic acid

Dichloroacetic acid

Trichloroacetic acid (TCAA)

Water (Organic)

Herbicides - Water (155)

ORG-120-5111; modified from EPA 515.1 and EPA 8151A

GC/ECD - EXTRACTION

2,3,4,6-Tetrachlorophenol

2,4-D

2,4-Dichlorophenol

2,4,6-Trichlorophenol

Bromoxynil

Dicamba

Diclofop-methyl (as free acid)

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Dinoseb
MCPA
Pentachlorophenol
Picloram

Water (Organic)

Organochlorine (OC) Pesticides - Water (071)

ORG-120-5108; modified from EPA 3510C and EPA 8080 and EPA 8081A

GC/ECD - EXTRACTION

A -BHC

α - Chlordane

Aldrin

β-BHC

δ-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan Sulfate

Endrin

Endrin Aldehyde

Endrin Keytone

γ - Chlordane

Heptachlor

Heptachlor Epoxide

Hexachlorobenzene

Lindane (γ-BHC)

Mirex

o,p' - DDT

o,p'-DDD

o,p'-DDE

Oxychlordane

p,p' - DDT

p,p' Methoxychlor

p,p'-DDD

p,p'-DDE

Total PCB

Water (Organic)

Organophosphorus (OP) Pesticides - Water (156)

ORG-120-5112; modified from EPA 3510C and EPA 8141A and EPA 8270C

GC/MS - EXTRACTION

Azinphos-methyl

Chlorpyrifos (ethyl)

Diazinon

Dimethoate

Malathion

Parathion (ethyl)

Phorate

Terbufos

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (080)

VOL-120-5025; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/FID - SHAKE EXTRACTION

F2: C10-C16

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F3: C16-C34

F4: C34-C50

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (120)

VOL-120-5014; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and IN-HOUSE (PREPARATION)

GC/FID - PURGE AND TRAP

F1: C6-C10

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (042)

ORG-120-5104; modified from EPA 3510C and EPA 3541 and EPA 8270D

GC/MS - EXTRACTION

1-Chloronaphthalene

1-Methylnaphthalene

2-Chloronaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo (a) anthracene

Benzo (a) pyrene

Benzo (b) fluoranthene

Benzo(b,i)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)

Total Polychlorinated Biphenyls (PCB) - Water (043)

ORG-120-5106; modified from EPA 3510C and EPA 8082

GC/ECD - EXTRACTION

Total PCB

Water (Organic)

Triazine Pesticides - Water (157)

ORG-120-5113; modified from EPA 3510C and EPA 8270C and ON MOECC E3121

GC/MS - EXTRACTION

Atrazine

Cyanazine

De-ethylated atrazine

Metolachlor

Metribuzin

Simazine

Trifluralin

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Water (Organic)

Volatile Organic Compounds (VOC) - Water (046)

VOL-120-5001; modified from EPA 5030B and EPA 624 and EPA 8260B

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-Dibromoethane
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3-dichloropropane
1,4-dichlorobenzene
2-Chloroethyl vinyl ether
2-Hexanone
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
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-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl Chloride

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Water (Organic)

Volatile Petroleum Hydrocarbons (VPH) Fractionation - Water (062)

VOL-120-5010; modified from ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2

PETROLEUM HYDROCARBONS METHODS

GC/FID - PURGE AND TRAP

Aliphatic C6-C8

Aliphatic >C8-C10

Aromatic >C8-C10

F1: C6-C10

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