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: December 11, 2020
Valid To: February 16, 2023

Scope of Accreditation

**Air (Inorganic)**
Ammonia - Air (212)
INOR-121-6003, INOR-121-6022; SM 4500 NH3 F COLORIMETRIC
Ammonia

**Air (Inorganic)**
Total Suspended Particulates - Air [Particulate] (128)
INOR-121-6041; EPA 5 GRAVIMETRIC
Particulate

**Air (Organic)**
Total Petroleum Hydrocarbons (TPH) - Air (087)
ORG-120-5109; 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 fraction
Aromatic >C12-C16 fraction
Aromatic >C8-C10 fraction

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Benzene
>C10-C21
>C6-C10
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

**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
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

**Air Filter (Inorganic)**

Metals - Air [Filter] (198)
MET-121-6112, MET-121-6113; NIOSH 7303 and SM 3120 B

ICP/OES
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron

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Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Selenium
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 ATOMIC ABSORPTION (CVAA) - DIGESTION
Mercury

Paint (Inorganic)
Metals - Paint (075)
MET 121-6105, MET-121-6103; modified from EPA 3050B and EPA 6020A and SM 3125 ICP/MS
Arsenic
Bismuth
Cadmium
Copper
Lead
Lithium
Molybdenum
Phosphorus
Rubidium
Selenium
Silver
Sodium
Thallium

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Paint (Inorganic)
Metals - Paint (195)
MET-121-6113; modified from EPA 3050 and EPA 6010C and SM 3120 B
ICP/OES
Bismuth
Cadmium
Copper
Lead
Lithium
Silver
Thallium
Tin
Uranium
Vanadium

Paint (Organic)
Total Polychlorinated Biphenyls (PCB) - Paint (105)
ORG-120-5107; modified from EPA 3510C and EPA 8082A
GC/ECD - EXTRACTION
Total PCB

Soil (Inorganic)
Available Metals - Solids [Soil] (194)
MET-121-6113; EPA 6010D and SM 3120 B
ICP/OES
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Manganese
Molybdenum
Nickel
Selenium
Strontium
Thallium
Tin

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Titanium
Uranium
Vanadium
Zinc
Zirconium

**Soil (Inorganic)**
Conductivity - Solids [Soil] (207)
INOR-121-6006; CANADIAN SOCIETY OF SOIL SCIENCE - P155 and SM 2510 B
CONDUCTIVITY METER
Conductivity

**Solid Waste (Inorganic)**
Metals - Waste [Solid] (193)
MET-121-6113; EPA 1312 and SM 3120 B
ICP/OES - SPLP
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

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Solid Waste (Inorganic)
Metals - Waste [Solid] (196)
MET-121-6113; EPA 1311 and SM 3120 B
ICP/OES - TCLP
- Aluminum
- Antimony
- Barium
- Beryllium
- Bismuth
- Boron
- Cadmium
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Lithium
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Selenium
- Silver
- Strontium
- Thallium
- Tin
- Titanium
- Uranium
- Vanadium
- Zinc
- Zirconium

(Parameter suspended on 10/21/2020)

Solid Waste (Inorganic)
Metals - Waste [Solid] (197)
MET-121-6113; modified from CGSB 164-GP-1MP and SM 3120 B
ICP/OES - LEACH-CGSB
- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Bismuth
- Boron
- Cadmium
- Chromium
- Cobalt

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Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Rubidium
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

**Solids (Inorganic)**

Grain Size - Solids [Soil] (095)
INOR-121-6034; ASTM D422-63

GRAVIMETRIC - SIEVE

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)
4 PHI (<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)
Gravel
Percent Clay
Percent Sand
Percent Silt

**Solids (Inorganic)**

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

AUTOMATED COLORIMETRIC

Hexavalent Chromium

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Solids (Inorganic)
Leachable Mercury - Solids [Soil] (084)
INOR-121-6039, MET-121-6107; EPA 1311 and EPA 245.1 and SM 3112 B
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - TCLP
Mercury

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

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

Solids (Inorganic)
Leachable Metals - Solids [Soil] (077)
INOR-121-6039, MET-121-6105; EPA 1311 and SM 3030 B and SM 3030 F and SM 3125
ICP/MS - TCLP
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

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Solids (Inorganic)
Leachable Metals - Solids [Soil] (078)
INOR-121-6036, MET-121-6105; 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
Magnesium
Manganese
Molybdenum
Nickel
Rubidium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)
Leachable Metals - Solids [Soil] (079)
INOR-121-6040, MET-121-6105; modified from CGSB 164-GP-1MP and SM 3030 B and SM 3030 F and SM 3125
ICP/MS - LEACH-CGSB
Aluminum
Antimony
Arsenic
Barium

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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)**
Mercury - Solids (204)
MET-121-6114, MET-121-6115; EPA 1631
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)
Mercury

**Solids (Inorganic)**
Mercury - Solids [Soil] (004)
MET-121-6101, MET-121-6107; modified from EPA 245.5 and SM 3112 B
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION
Mercury

**Solids (Inorganic)**
Metals - Solids [Soil] (005)
MET-121-6103, MET-121-6105; modified from EPA 3050B and EPA 6020A and SM 3125
ICP/MS - DIGESTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron

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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)**
Methyl Mercury - Solids (201)
MET-121-6116, MET-121-6117; EPA 1630
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)
Methyl mercury

**Solids (Inorganic)**
Percent Moisture - Solids (210)
LAB-131-4024; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 51.2
GRAVIMETRIC
Percent Moisture

**Solids (Inorganic)**
\( \text{pH} \) - Solids [Sediment, Soil] (076)
INOR-121-6006; modified from CANADIAN SOCIETY OF SOIL SCIENCE - P155
METER
Soil \( \text{pH} \)

**Solids (Inorganic)**
Phenols - Solids [Soil] (091)
INOR-121-6011; modified from EPA 9065
AUTOMATED COLORIMETRIC
Total Phenolics

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Solids (Inorganic)
Total Oil and Grease - Solids [Sediment, Soil] (073)
ORG-120-5105; IN-HOUSE
GRAVIMETRIC
Total Oil and Grease

Solids (Inorganic)
Total Phenols - Solids (208)
INOR-121-6011; EPA 1312 and SM 5530
AUTOMATED COLORIMETRIC - SPLP
Total Phenolics

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)
ORG-120-5101; 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 fraction
Aromatic >C12-C16 fraction
Aromatic >C16-C21 fraction
Aromatic >C21-C32 fraction
>C10-C16
>C16-C21
Fuel Oil (>C10-C21)
Lube Oil (>C21-C32)

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

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Solids (Organic)
Petroleum Hydrocarbons (PHC) - Solids [Soil] (050)
ORG-120-5102; 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)
ORG-120-5105; 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
Acenaphthylenne
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
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

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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 (Methyl butyl ketone, MBK)
   Acetone (2-Propanone)
   Benzene
   Bromodichloromethane
   Bromoform
   Bromomethane
   Carbon tetrachloride
   Chlorobenzene
   Chlorodibromomethane
   Chloroethane (Ethyl Chloride)
   Chloroethene (Vinyl chloride)
   Chloroform

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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

**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 fraction
  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

† “OSDWA” indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario “Safe Drinking Water Act” (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html
Swab (Inorganic)
Metals - Solids [Swab] (192)
MET-121-6112, MET-121-6113; NIOSH 9102 and SM 3120 B
ICP/OES
Aluminum
Arsenic
Barium
Beryllium
Cadmium
Cobalt
Copper
Iron
Lead
Manganese
Molybdenum
Nickel
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium

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 ATOMIC ABSORPTION (CVAA)
Mercury

Tissue (Inorganic)
Mercury - Tissue (205)
MET-121-6114, MET-121-6115; EPA 1631
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)
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

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The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html
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 (Inorganic)**

Metals - Tissue (191)
MET-121-6103, MET-121-6113; EPA 200.7 and SM 3120 B
ICP/OES
Aluminum
Beryllium
Boron
Cadmium
Iron
Titanium
Uranium
Zirconium

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Tissue (Inorganic)
Methyl Mercury - Tissue (202)
MET-121-6116, MET-121-6117; EPA 1630
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)
Methyl mercury

Tissue (Organic)
Organochlorine (OC) Pesticides - Tissue (183)
ORG-120-5115; modified from EPA 3510C and EPA 8080 and EPA 8081A
GC/ECD - EXTRACTION
2,4'-DDD (o,p'-DDD)
2,4'-DDE (o,p'-DDE)
2,4'-DDT (o,p'-DDT)
4,4'-DDD (p,p'-DDD)
4,4'-DDE (p,p'-DDE)
4,4'-DDT (p,p'-DDT)
Aldrin
alpha-Chlordane
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)
Dieldrin
Endosulfan I (a-Endosulfan)
Endosulfan II (b-Endosulfan)
Endosulfan Sulfate
Endrin
Endrin Ketone
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Lindane (gamma-BHC)
Methoxychlor
Mirex
Oxychlordane
Trifluralin

Tissue (Organic)
Petroleum Hydrocarbons (PHC) - Tissue (097)
ORG-120-5118; modified from DETERMINATION OF PETROLEUM HYDROCARBONS IN SELECTED MARINE ORGANISMS, UNEP 1995
GC/MS
Extractable Petroleum Hydrocarbons (EPH)

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

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**Tissue (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Tissue (181)

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

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,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

**Waste (Inorganic)**

Anions (SLP Leachate) - Waste (189)

INOR-121-6005, INOR-121-6036; EPA 1312 and SM 4110 B

ION CHROMATOGRAPHY (IC)

Chloride

**Waste (Leachate)**

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

INOR-121-6039, VOL-120-5001; modified from EPA 1311 and EPA 5030B and EPA 624 and EPA 8260B

GC/MS - TCLP

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

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1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2-Chloroethyl vinyl ether
2-Hexanone (Methyl butyl ketone, MBK)
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
Dichloromethane
Ethylbenzene
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl tert-butyl ether (MTBE)
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

**Waste (Organic)**

BTEX and MTBE - Waste (114)
INOR-121-6036, VOL-120-5013; 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
Methyl tert-butyl ether (MTBE)
o-Xylene
Toluene

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Waste (Organic)
Extractable Petroleum Hydrocarbons (EPH) - Waste (113)
INOR-121-6036, ORG-120-5101; 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)
INOR-121-6039, ORG-120-5101; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and EPA 1311 (PREPARATION)
GC/FID - TCLP
>C10-C16
>C16-C21
>C21-C32

Waste (Organic)
Extractable Petroleum Hydrocarbons (EPH) - Waste (144)
INOR-121-6040, ORG-120-5101; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS and CGSB 164-GP-1MP
GC/FID
>C10-C16
>C16-C21
>C21-C32

Waste (Organic)
Polychlorinated Biphenyls (PCB) - Waste (148)
INOR-121-6040, ORG-120-5106; CGSB 164-GP-1MP and EPA 3510C and EPA 8082
GC/ECD
Total PCB

Waste (Organic)
Polychlorinated Biphenyls (PCB) - Waste (150)
INOR-121-6039, ORG-120-5106; EPA 1311 (PREPARATION) and EPA 3510C (ANALYSIS) and EPA 8082 (ANALYSIS)
GC/ECD - TCLP
Total PCB

Waste (Organic)
Polycyclic Aromatic Hydrocarbons (PAH) - Waste (102)
INOR-121-6036, ORG-120-5104; 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

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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)
INOR-121-6040, ORG-120-5104; CGSB 164-GP-1MP 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,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

Waste (Organic)
Polycyclic Aromatic Hydrocarbons (PAH) - Waste (147)
INOR-121-6039, ORG-120-5104; EPA 1311 (PREPARATION) and EPA 3510 (ANALYSIS) and EPA 3541 (ANALYSIS) and EPA 8270D (ANALYSIS)
GC/MS - TCLP
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene

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

**Waste (Organic)**
Total Polychlorinated Biphenyls (PCB) - Waste (103)
INOR-121-6036, ORG-120-5106; modified from EPA 1312 and EPA 3510C and EPA 8082
GC/ECD - SPLP
Total PCB

**Waste (Organic)**
Volatile Petroleum Hydrocarbons (VPH) - Waste (118)
INOR-121-6036, VOL-120-5013; 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)
INOR-121-6039, VOL-120-5013; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and EPA 1311 (PREPARATION)
GC/FID-PURGE AND TRAP - TCLP
C6-C10

**Waste (Organic)**
Volatile Petroleum Hydrocarbons (VPH) - Waste (140)
INOR-121-6039, VOL-120-5013; ATLANTIC RBCA GUIDELINES FOR LABORATORIES TIER 1/TIER 2 PETROLEUM HYDROCARBONS METHODS (ANALYSIS) and EPA 1311 (PREPARATION)
GC/MS-PURGE AND TRAP - TCLP
Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

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Water (Inorganic)
Acidity - Water (179)
INOR-121-6044; SM 2310 and SM 4500-C02 C
TITRIMETRIC
Acidity
Carbon dioxide (CO2)

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

Water (Inorganic)
Ammonia - Water (021)
INOR-121-6047; modified from SM 4500-NH3 G
AUTOMATED COLORIMETRIC
Ammonia

Water (Inorganic)
Anions - Water (022)
INOR-121-6005; SM 4110 B
ION CHROMATOGRAPHY (IC)
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
DISSOLVED OXYGEN METER (DO)
BOD (5 day)
CBOD (5 day)

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

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

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**Water (Inorganic)**

Chlorine - Water (188)
INOR-121-6045; modified from SM 4500-CL G
SPECTROPHOTOMETRIC
Free Chlorine
Total Chlorine

**Water (Inorganic)**

Colour - Water (055)
INOR-121-6014; SM 2120 C
AUTOMATED COLORIMETRIC
True Colour

**Water (Inorganic)**

Colour - Water (213)
INOR-121-6008; modified from SM 2120 B
AUTOMATED COLORIMETRIC
True Colour

**Water (Inorganic)**

Conductivity - Water (025)
INOR-121-6001; modified from SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (209)
INOR-121-6030; SM 4500-CN- N
AUTOMATED COLORIMETRIC
Cyanide (SAD)

**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

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Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silver
Sodium
Strontium
Tellurium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

**Water (Inorganic)**

Dissolved Metals - Water (199)
MET-121-6113; EPA 6010D and SM 3120 B
ICP/OES

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

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Sodium
Strontium
Sulphur (Sulfur)
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

**Water (Inorganic)**
Dissolved Oxygen - Water (206)
INOR-121-6049; SM 4500-O
  DISSOLVED OXYGEN METER (DO)
  Dissolved Oxygen (DO)

**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
  AUTOMATED COLORIMETRIC
  Hexavalent Chromium

**Water (Inorganic)**
Mercury - Water (032)
MET-121-6100, MET-121-6107; modified from EPA 245.1 and SM 3112 B
  COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION
  Mercury

**Water (Inorganic)**
Mercury - Water (200)
MET-121-6114, MET-121-6115; EPA 1631
  COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)
  Mercury

**Water (Inorganic)**
Methyl Mercury - Water (203)
MET-121-6116, MET-121-6117; EPA 1630
  COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS)
  Methyl mercury

**Water (Inorganic)**
Oil and Grease - Water (066)
ORG-120-5105; modified from EPA 1664A
  GRAVIMETRIC
  Mineral Oil and Grease
  Total Oil and Grease

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

Water (Inorganic)
  Phenols - Water (211)
INOR-121-6011; SM 5530
  AUTOMATED COLORIMETRIC
  Total Phenolics

Water (Inorganic)
  Phosphate - Water (034)
INOR-121-6012; modified from EPA 365.1 and SM 4500-P F
  AUTOMATED COLORIMETRIC
  Phosphate

Water (Inorganic)
  Reactive Silica - Water (057)
INOR-121-6028; EPA 370.1 and SM 4500-SIO2 E
  AUTOMATED COLORIMETRIC
  Reactive Silica

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

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

Water (Inorganic)
  Sulphide - Water (187)
INOR-121-6015; modified from SM 4500-S D
  SPECTROPHOTOMETRIC
  Sulphide

Water (Inorganic)
  Total Kjeldahl Nitrogen (TKN) - Water (037)
INOR-121-6048; modified from SM 4500-NORG D
  COLORIMETRIC
  Total Kjeldahl Nitrogen

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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
   Chromium
   Cobalt
   Copper
   Iron
   Lead
   Lithium
   Manganese
   Molybdenum
   Nickel
   Phosphorus
   Potassium
   Rubidium
   Silver
   Sodium
   Strontium
   Tellurium
   Thallium
   Tin
   Titanium
   Uranium
   Vanadium
   Zinc
   Zirconium

Water (Inorganic)
Total Metals - Water (190)
MET-121-6113; EPA 6010D and SM 3120 B
ICP/OES
   Aluminum
   Antimony
   Arsenic
   Barium
   Beryllium
   Bismuth

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29
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

**Water (Inorganic)**

**Total Phosphorus - Water** (038)
INOR-121-6046; modified from EPA 365.4 and SM 4500-P E
AUTOMATED COLORIMETRIC

**Total Phosphorus**

**Water (Inorganic)**

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

**Turbidity**

**Water (Microbiology)**

**Coliforms - Water** (081)
MIC-121-7000; modified from SM 9223 B
COLILERT-PRESENCE/ABSENCE

Escherichia coli

**Total Coliforms**

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

Water (Microbiology)
Coliforms - Water (166)
MIC-121-7002; SM 9222 H
MEMBRANE FILTRATION (M-COLIBLUE)
Escherichia coli
Total Coliforms

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

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

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

Water (Microbiology)
Pseudomonas - Water (169)
MIC-121-7002; SM 9213 E
MEMBRANE FILTRATION (mPA)
Pseudomonas aeruginosa (Parameter suspended on 12/4/2020))

Water (Organic)
BTEX - Water (044)
ORG-120-5113; 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
Toluene

Water (Organic)
Dissolved Gases - Water (178)
VOL-120-5028; modified from EPA RSK-175
GC/FID-HEADSPACE
Butane
Ethane

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Methane
Propane

Water (Organic)
Extractable Petroleum Hydrocarbons (EPH) - Water (060)
ORG-120-5105; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and IN-HOUSE (PREPARATION)
  GRAVIMETRIC
  F4: Gravimetric

Water (Organic)
Extractable Petroleum Hydrocarbons (EPH) Fractionation - Water (072)
ORG-120-5101; 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 fraction
  Aromatic >C12-C16 fraction
  Aromatic >C16-C21 fraction
  Aromatic >C21-C32 fraction
  >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
  Bromochloroacetic acid
  Dibromoacetic acid
  Dichloroacetic acid
  Monobromoacetic acid
  Monochloroacetic acid
  Trichloroacetic acid

Water (Organic)
Petroleum Hydrocarbons (PHC) - Water (080)
ORG-120-5103; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD (ANALYSIS) and IN-HOUSE (PREPARATION)
  GC/FID - SHAKE EXTRACTION
  F2: C10-C16
  F3: C16-C34
  F4: C34-C50

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32
Water (Organic)
Petroleum Hydrocarbons (PHC) - Water (120)
VOL-120-5015; 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,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)
Total Polychlorinated Biphenyls (PCB) - Water (043)
ORG-120-5106; modified from EPA 3510C and EPA 8082
GC/ECD - EXTRACTION
Total PCB

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

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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
1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-dichlorobenzene
2-Chloroethyl vinyl ether
2-Hexanone (Methyl butyl ketone, MBK)
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
Trichlorotrifluoroethane
Vinyl chloride

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**Water (Organic)**

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

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 fraction
  
F1: C6-C10

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