Membership Number: 3508
Laboratory Name: ALS Environmental (Burlington)
Parent Institution: ALS Canada Ltd.
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served:
Revised On: November 29, 2017
Valid To: December 6, 2019

Scope of Accreditation

Air (Inorganic)
Anions and Cations - Air (Stack) (016)
BU-TM-1005; modified from EPA 0050, EPA 0051, EPA 9056, EPA 9057, EPA 6, EPA 7A, EPA 7D, EPA 8, EPA 26, EPA 26A and CTM-027
ION CHROMATOGRAPHY
Ammonia (NH3)
Bromine (Br2)
Chlorine (Cl2)
Hydrogen Bromide (HBr)
Hydrogen Chloride (HCl)
Hydrogen Fluoride (HF)
NOx
SOx

Air (Inorganic)
Mercury - Air (Stack) (004)
BU-TM-1001, BU-TP-2001; modified from EPA 7470, ASTM D6784-02, EPA 29, EPA 101A and EPA 0060
COLD VAPOUR AA
Mercury

Air (Inorganic)
Metals – Air (Stack) (005)
BU-TM-1002, BU-TP-2001; modified from EPA 0060, EPA 29 and EPA 6020
ICP/MS
Antimony
Arsenic
Barium
Cadmium
Chromium

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Cobalt
Copper
Lead
Manganese
Nickel
Phosphorus
Selenium
Silver
Thallium
Vanadium
Zinc

**Air (Inorganic)**
Particulates - Air (Stack) (039)
BU-TM-1008; modified from EPA 5 and IO-3.1
GRAVIMETRIC
Particulates

**Air (Organic)**
Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Air (020)
BU-TM-1109, BU-TP-2109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13
BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206
BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30
BDE-32

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Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

**Air (Organic)**
Dioxins and Furans (PCDD/PCDF) - Air (Stack) (001)
BU-TM-1110, BU-TM-1107; modified from EPA 1613B and EPA 8290A and EPA TO-9A and EPA 23 and EPA 0023A

**ISOTOPE DILUTION GC/HRMS**
1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,6,7,8-HxCDD
1,2,3,4,6,7,8-HxCDF
1,2,3,4,6,7,9-HpCDD
1,2,3,4,6,7,8-HxCDD
1,2,3,4,7,8-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
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF

Octachlorodibenzop-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)

Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

**Air (Organic)**
PCB - Air (Stack) (036)
BU-TM-1105; modified from EPA 1668A and EPA 1668C

**ISOTOPE DILUTION - GC/HRMS**
PCB-1

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Air (Organic)
Polycyclic Aromatic Hydrocarbons (PAH) - Air (013)
BU-TP-2100, BU-TM-1100; modified from EPA 3540C, EPA 8270 D and CARB429
GC/LRMS - EXTRACTION
Acenaphthene
Acenaphthylene
Anthracene
Benz(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

Air (Organic)
Volatile Organic Compounds (VOC) - Air (007)
BU-TM-1114; modified from EPA 5041 A, EPA 8260 B and EPA 8260 C
GC/LRMS - PURGE AND TRAP
1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichloropropane
2-Butanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
Dibromomethane
Ethylbenzene
Hexanone
Iodomethane
m,p-Xylene

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Methylene chloride
o-Xylene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl chloride

**Biological Oil (Inorganic)**
Mercury - Biological Oil (047)
BU-TM-1001, BU-TP-2010; EPA METHOD 3052
COLD VAPOUR AA - DIGESTION
Mercury

**Biological Oil (Inorganic)**
Metals - Biological Oil (046)
BU-TM-1002, BU-TP-2010; EPA METHOD 3052
ICP/MS
Arsenic
Cadmium
Lead

**Food (Organic)**
Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Restaurant Food (dairy products, vegetable oil/fat/nut butter; grains and milled grain products) (034)
BU-TM-1109; modified from EPA 1614A
DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128
BDE-13
BDE-138
BDE-140
BDE-15
BDE-153
BDE-154
BDE-155
BDE-166
BDE-17
BDE-181
BDE-183
BDE-190
BDE-203
BDE-206

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BDE-207
BDE-208
BDE-209
BDE-25
BDE-28
BDE-30
BDE-32
BDE-33
BDE-35
BDE-37
BDE-49
BDE-51
BDE-66
BDE-7
BDE-71
BDE-75
BDE-77
BDE-79
BDE-8
BDE-85
BDE-99
Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromophenylbenzene (PBE)

Food (Organic)
PCB Congeners - Meat, Edible Offal, Fish, Eggs, Cereals, Dairy, Edible Oils, Processed Foods, Fresh Fruits and Vegetables (025)
BU-TM-1105, BU-TM-1110; modified from EPA 1668
ISOTOPE DILUTION - GC/HRMS
PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105
PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119

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Food (Organic)
Polyaromatic Hydrocarbons (PAH) - Meat, Edible Offal, Fish, Eggs, Cereals, Dairy, Edible Oils, Processed Foods, Fresh Fruits and Vegetables, Alcoholic and Non-Alcoholic Beverages, Honey (023)
BU-TP-2100, BU-TM-1100; modified from EPA 3510C and CARB 429
GC/HRMS - EXTRACTION
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benz(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

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Food (Organic)
Polychlorinated Dioxins, Polychlorinated Furans and Selected PCB Congeners (PCDD/PCDF) - Meat, Edible Offal, Fish, Eggs, Cereals, Dairy, Edible Oils, Processed Foods, Fresh Fruits and Vegetables (026)
BU-TM-1107, BU-TM-1110, BU-TM-1113, BU-TP-2113; modified from EPA 1613B and EPA 1668 A and C
ISOTOPE DILUTION - GC/HRMS
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
1,2,3,7,8,9-HxCDF
2',3,4,4',5-Pentachlorobiphenyl PCB123
2,3,4,4',5,5'-Hexachlorobiphenyl
2,3,4,4',5,5'-Heptachlorobiphenyl
2,3,4,4',5,5'-Pentachlorobiphenyl (118)
2,3,4,4',5,5',6'-Hexachlorobiphenyl PCB-167
2,3,3',4,4',5-Hexachlorobiphenyl PCB-156
2,3,3',4,4',5,5'-Hexachlorobiphenyl PCB-157
2,3,3',4,4',5,5',6'-Hexachlorobiphenyl PCB-189
2,3,3',4,4',5'-Pentachlorobiphenyl PCB105
2,3,4,4',5-Pentachlorobiphenyl (114)
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
3,3',4,4',5-Pentachlorobiphenyl
3,3',4,4',5,5'-Hexachlorobiphenyl
3,3',4,4'-Tetrachlorobiphenyl
3,4,4',5,5'-Tetrachlorobiphenyl
Octachlorodibenzop-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

Solids (Inorganic)
Mercury - Soils, Sediments, Solids (029)
BU-TM-1001; modified from EPA 7471A
COLD VAPOUR AA - DIGESTION
Mercury

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Solids (Inorganic)
Metals - Soils, Sediments, Solids (028)
NA-TP-2004, BU-TM-1002; modified from EPA 6020
DIGESTION/CP - LRMS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Uranium
Vanadium
Zinc

Solids (Inorganic)
Moisture - Solids (035)
BU-TM-1200; modified from ccme CWS FOR PHC IN SOIL - TIER 1
GRAVIMETRIC
Moisture %

Solids (Organic)
Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Soils, Solids, Sediments (018)
BU-TM-1109, BU-TP-2109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128

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Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBE)

**Solids (Organic)**

Dioxins and Furans (PCDD/PCDF) - Soil (002)
BU-TM-1110, BU-TM-1107; modified from EPA OW 1613B and EPA 8290A

ISOTOPE DILUTION GC/HRMS

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

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1,2,3,7,8,9-HxCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
Octachlorodibenzo-p-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

**Solids (Organic)**
Nitrosamines - Solids (011)
BU-TM-1106, BU-TP-2106; modified from MOE E3388
GC/HRMS
N-Nitrosodimethylamine (NDMA)

**Solids (Organic)**
Organochlorinated Pesticides - Solids (024)
BU-TM-1103, BU-TP-2103; modified from EPA 1699
EXTRACTION/HRMS
1,2,3,4-Tetrachlorobenzene
1,2,4,5-Tetrachlorobenzene
2,4'-DDD
2,4'-DDE
2,4'-DDT
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
beta-BHC
cis-Chlordane
cis-Nonachlor
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Lindane (gamma-BHC)
Methoxychlor
Mirex
Octachlorostyrene
Oxychlordane
Parlar-26
Parlar-50

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Parlar-62
Pentachlorobenzene
trans-Chlordane
trans-Nonachlor

**Solids (Organic)**
PCB Congeners - Soils, Solids, Sediments (015)
BU-TM-1110, BU-TM-1105; modified from EPA 1668 A and C
ISOTOPE DILUTION GC/HRMS
PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105
PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119
PCB-12
PCB-120
PCB-121
PCB-122
PCB-123
PCB-124
PCB-125
PCB-126
PCB-127
PCB-128
PCB-129
PCB-13
PCB-130
PCB-131
PCB-132
PCB-133
PCB-134
PCB-135
PCB-136
PCB-137
PCB-138
PCB-139

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Solids (Organic)
Polychlorinated Naphthalenes (PCN) - Solids (022)
BU-TM-1110, BU-TM-1102; modified from EPA 1613B and EPA 8290A and EPA MOE E3431
ISOTOPE DILUTION GC/HRMS
Dichlorinated Naphthalenes
Heptachlorinated Naphthalenes
Hexachlorinated Naphthalenes
Monochlorinated Naphthalenes
Octachlorinated Naphthalenes
Pentachlorinated Naphthalenes
Tetrachlorinated Naphthalenes
Trichlorinated Naphthalenes

Solids (Organic)
Polycyclic Aromatic Hydrocarbons (PAH) - Solids (009)
BU-TP-2100/BU-TM-1100; modified from EPA 3540C and California EPA Air Resources Board Method 429
ISOTOPE DILUTION - GC/LRMS
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
Pyrene

Tissue (Organic)
Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Tissue (019)
BU-TM-1109, BU-TP-2109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12
BDE-120
BDE-126
BDE-128

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Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBEB)

**Tissue (Organic)**

Dioxins and Furans (PCDD/PCDF) - Biota (014)
BU-TM-1110, BU-TM-1107; modified from EPA OW 1613B and EPA 8290A
ISOTOPE DILUTION GC/HRMS

- 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

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Octachlorodibenzop-dioxin (OCDD)
Octachlorodibenzofuran (OCDF)
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

Tissue (Organic)
Organochlorine Pesticides - Tissue (033)
BU-TM-1103, BU-TP-2103; modified from EPA 1699
SELECTED ION-MONITORING/GC/HRMS
2,4'-DDD
2,4'-DDE
2,4'-DDT
4,4'-DDD
4,4'-DDE
4,4'-DDT
alpha-BHC
beta-BHC
cis-Chlordane
cis-Heptachlor Epoxide
cis-Nonachlor
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Hexachlorobenzene
Lindane (gamma-BHC)
Methoxychlor
Mirex
Octachlorostyrene
Oxychlordane
Parlar-26
Parlar-50
Parlar-62
trans-Chlordane
trans-Heptachlor Epoxide
trans-Nonachlor

Tissue (Organic)
PCB - Tissue (032)
BU-TM-1120; EPA 680
GC/LRMS
PCB-10

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Tissue (Organic)
Polychlorinated Naphthalenes - Tissue (027)
BU-TM-1110, BU-TM-1102; modified from EPA 1613B and EPA 8290A and EPA MOE E3431
ISOTOPE DILUTION GC/HRMS
Dichlorinated Naphthalenes
Heptachlorinated Naphthalenes
Hexachlorinated Naphthalenes
Monochlorinated Naphthalenes
Octachlorinated Naphthalenes
Pentachlorinated Naphthalenes
Tetrachlorinated Naphthalenes
Trichlorinated Naphthalenes

Water (Organic)
Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Water (017)
BU-TM-1110, BU-TM-1109; modified from EPA 1614A
ISOTOPE DILUTION GC/HRMS
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
BDE-10
BDE-100
BDE-105
BDE-11
BDE-116
BDE-118
BDE-119
BDE-12

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Decabromodiphenyl ethane
Hexabromobenzene (HBB)
Pentabromoethylbenzene (PBE)

Water (Organic)

Dioxins and Furans (PCDD/PCDF) - Water (003)
BU-TM-1110, BU-TM-1107; modified from EPA 1613B and EPA 8290A
GC/HRMS

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

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<thead>
<tr>
<th>Substance</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>1,2,3,7,8-PeCDD</td>
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<tr>
<td>1,2,3,7,8-PeCDF</td>
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<tr>
<td>1,2,3,7,8,9-HxCDD</td>
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<tr>
<td>1,2,3,7,8,9-HxCDF</td>
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<td>2,3,4,6,7,8-HxCDF</td>
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<tr>
<td>2,3,4,7,8-PeCDF</td>
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<tr>
<td>2,3,7,8-TeCDD</td>
<td></td>
</tr>
<tr>
<td>2,3,7,8-TeCDF</td>
<td></td>
</tr>
<tr>
<td>Octachlorodibenzo-p-dioxin (OCDD)</td>
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</tr>
<tr>
<td>Octachlorodibenzofuran (OCDF)</td>
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<tr>
<td>Total HpCDD</td>
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<tr>
<td>Total HpCDF</td>
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<td>Total HxCDD</td>
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<td>Total PeCDF</td>
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<td>Total TeCDD</td>
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<td>Total TeCDF</td>
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**Water (Organic)**

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<th>Abbreviation</th>
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<td>Nitrosamines - Water (012)</td>
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<tr>
<td>BU-TM-1106, BU-TP-2106; modified from ONTARIO MOE E3388</td>
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<tr>
<td>GC/HRMS</td>
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<tr>
<td>N-Nitrosodimethylamine (NDMA)</td>
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**Water (Organic)**

<table>
<thead>
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<th>Test</th>
<th>Abbreviation</th>
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<tr>
<td>PCB - Water (037)</td>
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<tr>
<td>BU-TM-1105; modified from EPA 1668A and EPA 1668C</td>
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<tr>
<td>ISOTOPE DILUTION - GC/HRMS</td>
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<tr>
<td>PCB-1</td>
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<td>PCB-121</td>
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Water (Organic)  
Taste and Odour - Water (038)  
BU-TM-1115: modified from EPA 8270 D
HI RESOLUTION GC/HRMS

2-Isobutyl-3-methoxypyrazine  
2-isopropyl-3-methoxypyrazine  
2-Methylisoborneol  
2,3,6-Trichloroanisole  
2,4,6-Trichloroanisole  
3,4,5-Trichloroveratrole  
Geosmin  

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