



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**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:** July 18, 2018  
**Valid To:** December 6, 2019

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### Scope of Accreditation

#### Air (Inorganic)

Anions and Cations - Air [Stack Emission] (016)  
BU-TM-1005; modified from CTM-027 and EPA 0050 and EPA 0051 and EPA 26 and EPA 26A and EPA 6 and EPA 7A and EPA 7D and EPA 8 and EPA 9056 and EPA 9057  
ION CHROMATOGRAPHY  
Ammonia (NH<sub>3</sub>)  
Bromine (Br<sub>2</sub>)  
Chlorine (Cl<sub>2</sub>)  
Hydrogen Bromide (HBr)  
Hydrogen Chloride (HCl)  
Hydrogen Fluoride (HF)  
NO<sub>x</sub>  
SO<sub>x</sub>

#### Air (Inorganic)

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

#### Air (Inorganic)

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

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Chromium  
Cobalt  
Copper  
Lead  
Manganese  
Nickel  
Phosphorus  
Selenium  
Silver  
Thallium  
Vanadium  
Zinc

**Air (Inorganic)**

Particulates - Air [Particulate] (039)  
BU-TM-1008; modified from EPA 5 and EPA 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

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BDE-32  
BDE-33  
BDE-35  
BDE-37  
BDE-47  
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)  
Pentabromoethylbenzene (PBEB)

**Air (Organic)**

Dioxins and Furans (PCDD/PCDF) - Air (001)

BU-TM-1110, BU-TM-1107; modified from EPA 0023A and EPA 1613B and EPA 23 and EPA 8290A and EPA TO-9A

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  
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

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**Air (Organic)**

Polychlorinated Biphenyls (PCB) - Air (036)

BU-TM-1105; modified from EPA 1668A and EPA 1668C

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  
PCB-14  
PCB-140  
PCB-141  
PCB-142

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PCB-143  
PCB-144  
PCB-145  
PCB-146  
PCB-147  
PCB-148  
PCB-149  
PCB-15  
PCB-150  
PCB-151  
PCB-152  
PCB-153  
PCB-154  
PCB-155  
PCB-156  
PCB-157  
PCB-158  
PCB-159  
PCB-16  
PCB-160  
PCB-161  
PCB-162  
PCB-163  
PCB-164  
PCB-165  
PCB-166  
PCB-167  
PCB-168  
PCB-169  
PCB-17  
PCB-170  
PCB-171  
PCB-172  
PCB-173  
PCB-174  
PCB-175  
PCB-176  
PCB-177  
PCB-178  
PCB-179  
PCB-18  
PCB-180  
PCB-181  
PCB-182  
PCB-183  
PCB-184  
PCB-185  
PCB-186  
PCB-187  
PCB-188  
PCB-189  
PCB-19  
PCB-190

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PCB-191  
PCB-192  
PCB-193  
PCB-194  
PCB-195  
PCB-196  
PCB-197  
PCB-198  
PCB-199  
PCB-2  
PCB-20  
PCB-200  
PCB-201  
PCB-202  
PCB-203  
PCB-204  
PCB-205  
PCB-206  
PCB-207  
PCB-208  
PCB-209  
PCB-21  
PCB-22  
PCB-23  
PCB-24  
PCB-25  
PCB-26  
PCB-27  
PCB-28  
PCB-29  
PCB-3  
PCB-30  
PCB-31  
PCB-32  
PCB-33  
PCB-34  
PCB-35  
PCB-36  
PCB-37  
PCB-38  
PCB-39  
PCB-4  
PCB-40  
PCB-41  
PCB-42  
PCB-43  
PCB-44  
PCB-45  
PCB-46  
PCB-47  
PCB-48  
PCB-49  
PCB-5

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PCB-50  
PCB-51  
PCB-52  
PCB-53  
PCB-54  
PCB-55  
PCB-56  
PCB-57  
PCB-58  
PCB-59  
PCB-6  
PCB-60  
PCB-61  
PCB-62  
PCB-63  
PCB-64  
PCB-65  
PCB-66  
PCB-67  
PCB-68  
PCB-69  
PCB-7  
PCB-70  
PCB-71  
PCB-72  
PCB-73  
PCB-74  
PCB-75  
PCB-76  
PCB-77  
PCB-78  
PCB-79  
PCB-8  
PCB-80  
PCB-81  
PCB-82  
PCB-83  
PCB-84  
PCB-85  
PCB-86  
PCB-87  
PCB-88  
PCB-89  
PCB-9  
PCB-90  
PCB-91  
PCB-92  
PCB-93  
PCB-94  
PCB-95  
PCB-96  
PCB-97  
PCB-98

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**Air (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Air (013)

BU-TP-2100, BU-TM-1100; modified from CARB 429 and EPA 3540C and EPA 8270D

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 5041A and EPA 8260B and EPA 8260C

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

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m,p-Xylene  
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 3052  
COLD VAPOUR AA - DIGESTION  
Mercury

**Biological Oil (Inorganic)**

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

**Food (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Food [Butter, Dairy, Fat, Grains, Milled Grain Product, Nut Butter, Vegetable Oil] (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

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BDE-206  
BDE-207  
BDE-208  
BDE-209  
BDE-25  
BDE-28  
BDE-30  
BDE-32  
BDE-33  
BDE-35  
BDE-37  
BDE-47  
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)  
Pentabromoethylbenzene (PBEB)

#### **Food (Organic)**

Polyaromatic Hydrocarbons (PAH) - Food [Beverage, Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat] (023)

BU-TP-2100, BU-TM-1100; modified from CARB 429 and EPA 3510C

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 Biphenyls (PCB) Congeners - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, 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
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- PCB-130
- PCB-131
- PCB-132
- PCB-133
- PCB-134
- PCB-135
- PCB-136
- PCB-137
- PCB-138
- PCB-139
- PCB-14
- PCB-140
- PCB-141

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PCB-142  
PCB-143  
PCB-144  
PCB-145  
PCB-146  
PCB-147  
PCB-148  
PCB-149  
PCB-15  
PCB-150  
PCB-151  
PCB-152  
PCB-153  
PCB-154  
PCB-155  
PCB-156  
PCB-157  
PCB-158  
PCB-159  
PCB-16  
PCB-160  
PCB-161  
PCB-162  
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PCB-164  
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PCB-166  
PCB-167  
PCB-168  
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PCB-179  
PCB-18  
PCB-180  
PCB-181  
PCB-182  
PCB-183  
PCB-184  
PCB-185  
PCB-186  
PCB-187  
PCB-188  
PCB-189  
PCB-19

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PCB-190  
PCB-191  
PCB-192  
PCB-193  
PCB-194  
PCB-195  
PCB-196  
PCB-197  
PCB-198  
PCB-199  
PCB-2  
PCB-20  
PCB-200  
PCB-201  
PCB-202  
PCB-203  
PCB-204  
PCB-205  
PCB-206  
PCB-207  
PCB-208  
PCB-209  
PCB-21  
PCB-22  
PCB-23  
PCB-24  
PCB-25  
PCB-26  
PCB-27  
PCB-28  
PCB-29  
PCB-3  
PCB-30  
PCB-31  
PCB-32  
PCB-33  
PCB-34  
PCB-35  
PCB-36  
PCB-37  
PCB-38  
PCB-39  
PCB-4  
PCB-40  
PCB-41  
PCB-42  
PCB-43  
PCB-44  
PCB-45  
PCB-46  
PCB-47  
PCB-48  
PCB-49

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PCB-5  
PCB-50  
PCB-51  
PCB-52  
PCB-53  
PCB-54  
PCB-55  
PCB-56  
PCB-57  
PCB-58  
PCB-59  
PCB-6  
PCB-60  
PCB-61  
PCB-62  
PCB-63  
PCB-64  
PCB-65  
PCB-66  
PCB-67  
PCB-68  
PCB-69  
PCB-7  
PCB-70  
PCB-71  
PCB-72  
PCB-73  
PCB-74  
PCB-75  
PCB-76  
PCB-77  
PCB-78  
PCB-79  
PCB-8  
PCB-80  
PCB-81  
PCB-82  
PCB-83  
PCB-84  
PCB-85  
PCB-86  
PCB-87  
PCB-88  
PCB-89  
PCB-9  
PCB-90  
PCB-91  
PCB-92  
PCB-93  
PCB-94  
PCB-95  
PCB-96  
PCB-97

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PCB-98  
PCB-99

**Food (Organic)**

Polychlorinated Dioxins and Polychlorinated Furans and Selected PCB Congeners (PCDD/PCDF) - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, Vegetables] (026)  
BU-TM-1107, BU-TM-1110, BU-TM-1113, BU-TP-2113; modified from EPA 1613B and EPA 1668A and EPA 1668C

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  
2',3,4,4',5-Pentachlorobiphenyl PCB123  
2,2',3,3',4,4',5-Heptachlorobiphenyl  
2,2',3,4,4',5,5'-Heptachlorobiphenyl  
2,3',4,4',5-Pentachlorobiphenyl (118)  
2,3',4,4',5,5'-Hexachlorobiphenyl PCB-167  
2,3,3',4,4',5'-Hexachlorobiphenyl PCB-156  
2,3,3',4,4',5-Hexachlorobiphenyl PCB-157  
2,3,3',4,4',5,5'-Heptachlorobiphenyl PCB-189  
2,3,3',4,4'-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-Tetrachlorobiphenyl  
Octachlorodibenzo-p-dioxin (OCDD)  
Octachlorodibenzofuran (OCDF)  
Total HpCDD  
Total HpCDF  
Total HxCDD  
Total HxCDF  
Total PeCDD  
Total PeCDF  
Total TeCDD  
Total TeCDF

**Solids (Inorganic)**

Mercury - Solids [Sediment, Soil] (029)  
BU-TM-1001; modified from EPA 7471A  
COLD VAPOUR AA - DIGESTION  
Mercury

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**Solids (Inorganic)**

Metals - Solids [Sediment, Soil] (028)

NA-TP-2004, BU-TM-1002; modified from EPA 6020

DIGESTION/CP - LRMS

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 PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

**Solids (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Solids [Sediment, Soil] (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  
BDE-13

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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  
BDE-33  
BDE-35  
BDE-37  
BDE-47  
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)  
Pentabromoethylbenzene (PBEB)

**Solids (Organic)**

Dioxins and Furans (PCDD/PCDF) - Solids [Soil] (002)  
BU-TM-1110, BU-TM-1107; modified from EPA 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  
1,2,3,7,8,9-HxCDF

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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 ON MOECC E3388

GC/HRMS

N-Nitrosodimethylamine (NDMA)

**Solids (Organic)**

Organochlorine (OC) Pesticides - Solids (024)

BU-TM-1103, BU-TP-2103; modified from EPA 1699

GC/HRMS - EXTRACTION

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

Parlar-62

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Pentachlorobenzene  
trans-Chlordane  
trans-Nonachlor

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) Congeners - Solids [Sediment, Soil] (015)  
BU-TM-1110, BU-TM-1105; modified from EPA 1668A and EPA 1668C  
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  
PCB-14

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PCB-140  
PCB-141  
PCB-142  
PCB-143  
PCB-144  
PCB-145  
PCB-146  
PCB-147  
PCB-148  
PCB-149  
PCB-15  
PCB-150  
PCB-151  
PCB-152  
PCB-153  
PCB-154  
PCB-155  
PCB-156  
PCB-157  
PCB-158  
PCB-159  
PCB-16  
PCB-160  
PCB-161  
PCB-162  
PCB-163  
PCB-164  
PCB-165  
PCB-166  
PCB-167  
PCB-168  
PCB-169  
PCB-17  
PCB-170  
PCB-171  
PCB-172  
PCB-173  
PCB-174  
PCB-175  
PCB-176  
PCB-177  
PCB-178  
PCB-179  
PCB-18  
PCB-180  
PCB-181  
PCB-182  
PCB-183  
PCB-184  
PCB-185  
PCB-186  
PCB-187  
PCB-188

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PCB-189  
PCB-19  
PCB-190  
PCB-191  
PCB-192  
PCB-193  
PCB-194  
PCB-195  
PCB-196  
PCB-197  
PCB-198  
PCB-199  
PCB-2  
PCB-20  
PCB-200  
PCB-201  
PCB-202  
PCB-203  
PCB-204  
PCB-205  
PCB-206  
PCB-207  
PCB-208  
PCB-209  
PCB-21  
PCB-22  
PCB-23  
PCB-24  
PCB-25  
PCB-26  
PCB-27  
PCB-28  
PCB-29  
PCB-3  
PCB-30  
PCB-31  
PCB-32  
PCB-33  
PCB-34  
PCB-35  
PCB-36  
PCB-37  
PCB-38  
PCB-39  
PCB-4  
PCB-40  
PCB-41  
PCB-42  
PCB-43  
PCB-44  
PCB-45  
PCB-46  
PCB-47

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PCB-48  
PCB-49  
PCB-5  
PCB-50  
PCB-51  
PCB-52  
PCB-53  
PCB-54  
PCB-55  
PCB-56  
PCB-57  
PCB-58  
PCB-59  
PCB-6  
PCB-60  
PCB-61  
PCB-62  
PCB-63  
PCB-64  
PCB-65  
PCB-66  
PCB-67  
PCB-68  
PCB-69  
PCB-7  
PCB-70  
PCB-71  
PCB-72  
PCB-73  
PCB-74  
PCB-75  
PCB-76  
PCB-77  
PCB-78  
PCB-79  
PCB-8  
PCB-80  
PCB-81  
PCB-82  
PCB-83  
PCB-84  
PCB-85  
PCB-86  
PCB-87  
PCB-88  
PCB-89  
PCB-9  
PCB-90  
PCB-91  
PCB-92  
PCB-93  
PCB-94  
PCB-95

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PCB-96  
PCB-97  
PCB-98  
PCB-99

**Solids (Organic)**

Polychlorinated Naphthalenes (PCN) - Solids (022)

BU-TM-1110, BU-TM-1102; modified from EPA 1613B and EPA 8290A and ON MOECC 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 CARB 429 and EPA 3540C  
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  
BDE-13

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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  
BDE-33  
BDE-35  
BDE-37  
BDE-47  
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)  
Pentabromoethylbenzene (PBEB)

**Tissue (Organic)**

Dioxins and Furans (PCDD/PCDF) - Tissue (014)  
BU-TM-1110, BU-TM-1107; modified from EPA 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  
1,2,3,7,8,9-HxCDF

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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

**Tissue (Organic)**

Organochlorine (OC) 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)**

Polychlorinated Biphenyls (PCB) - Tissue (032)

BU-TM-1120; EPA 680

GC/LRMS  
PCB-10  
PCB-101

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PCB-105  
PCB-106  
PCB-107  
PCB-108  
PCB-109  
PCB-110  
PCB-111  
PCB-114  
PCB-115  
PCB-116  
PCB-117  
PCB-118  
PCB-12  
PCB-120  
PCB-121  
PCB-123  
PCB-125  
PCB-126  
PCB-127  
PCB-128  
PCB-129  
PCB-13  
PCB-131  
PCB-132  
PCB-135  
PCB-137  
PCB-138  
PCB-139  
PCB-141  
PCB-142  
PCB-144  
PCB-146  
PCB-149  
PCB-15  
PCB-151  
PCB-153  
PCB-156  
PCB-157  
PCB-158  
PCB-159  
PCB-16  
PCB-160  
PCB-163  
PCB-165  
PCB-167  
PCB-168  
PCB-169  
PCB-17  
PCB-170  
PCB-171  
PCB-172  
PCB-174  
PCB-177

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PCB-18  
PCB-180  
PCB-181  
PCB-182  
PCB-183  
PCB-187  
PCB-19  
PCB-190  
PCB-191  
PCB-192  
PCB-193  
PCB-194  
PCB-195  
PCB-196  
PCB-199  
PCB-20  
PCB-203  
PCB-205  
PCB-206  
PCB-207  
PCB-208  
PCB-209  
PCB-21  
PCB-22  
PCB-24  
PCB-25  
PCB-26  
PCB-27  
PCB-28  
PCB-31  
PCB-32  
PCB-33  
PCB-37  
PCB-4  
PCB-41  
PCB-42  
PCB-43  
PCB-44  
PCB-45  
PCB-46  
PCB-47  
PCB-48  
PCB-49  
PCB-5  
PCB-52  
PCB-53  
PCB-56  
PCB-59  
PCB-6  
PCB-60  
PCB-61  
PCB-63  
PCB-64

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PCB-66  
PCB-68  
PCB-7  
PCB-70  
PCB-71  
PCB-73  
PCB-74  
PCB-75  
PCB-76  
PCB-8  
PCB-80  
PCB-81  
PCB-82  
PCB-83  
PCB-84  
PCB-85  
PCB-86  
PCB-87  
PCB-89  
PCB-9  
PCB-90  
PCB-91  
PCB-92  
PCB-93  
PCB-95  
PCB-97  
PCB-99

**Tissue (Organic)**

Polychlorinated Naphthalenes (PCN) - Tissue (027)

BU-TM-1110, BU-TM-1102; modified from EPA 1613B and EPA 8290A and ON MOECC 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

BDE-120

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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  
BDE-33  
BDE-35  
BDE-37  
BDE-47  
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)  
Pentabromoethylbenzene (PBEB)

**Water (Organic)**

OSDWA †

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  
1,2,3,7,8-PeCDD

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1,2,3,7,8-PeCDF  
1,2,3,7,8,9-HxCDD  
1,2,3,7,8,9-HxCDF  
2,3,4,6,7,8-HxCDF  
2,3,4,7,8-PeCDF  
2,3,7,8-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

**Water (Organic)**

OSDWA †

Nitrosamines - Water (012)

BU-TM-1106, BU-TP-2106; modified from ON MOECC E3388  
GC/HRMS

N-Nitrosodimethylamine (NDMA)

**Water (Organic)**

Polychlorinated Biphenyls (PCB) - Water (037)

BU-TM-1105; modified from EPA 1668A and EPA 1668C  
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

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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  
PCB-14  
PCB-140  
PCB-141  
PCB-142  
PCB-143  
PCB-144  
PCB-145  
PCB-146  
PCB-147  
PCB-148  
PCB-149  
PCB-15  
PCB-150  
PCB-151  
PCB-152  
PCB-153  
PCB-154  
PCB-155  
PCB-156  
PCB-157  
PCB-158  
PCB-159  
PCB-16  
PCB-160  
PCB-161  
PCB-162  
PCB-163  
PCB-164  
PCB-165  
PCB-166  
PCB-167  
PCB-168  
PCB-169  
PCB-17  
PCB-170

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PCB-171  
PCB-172  
PCB-173  
PCB-174  
PCB-175  
PCB-176  
PCB-177  
PCB-178  
PCB-179  
PCB-18  
PCB-180  
PCB-181  
PCB-182  
PCB-183  
PCB-184  
PCB-185  
PCB-186  
PCB-187  
PCB-188  
PCB-189  
PCB-19  
PCB-190  
PCB-191  
PCB-192  
PCB-193  
PCB-194  
PCB-195  
PCB-196  
PCB-197  
PCB-198  
PCB-199  
PCB-2  
PCB-20  
PCB-200  
PCB-201  
PCB-202  
PCB-203  
PCB-204  
PCB-205  
PCB-206  
PCB-207  
PCB-208  
PCB-209  
PCB-21  
PCB-22  
PCB-23  
PCB-24  
PCB-25  
PCB-26  
PCB-27  
PCB-28  
PCB-29  
PCB-3

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PCB-30  
PCB-31  
PCB-32  
PCB-33  
PCB-34  
PCB-35  
PCB-36  
PCB-37  
PCB-38  
PCB-39  
PCB-4  
PCB-40  
PCB-41  
PCB-42  
PCB-43  
PCB-44  
PCB-45  
PCB-46  
PCB-47  
PCB-48  
PCB-49  
PCB-5  
PCB-50  
PCB-51  
PCB-52  
PCB-53  
PCB-54  
PCB-55  
PCB-56  
PCB-57  
PCB-58  
PCB-59  
PCB-6  
PCB-60  
PCB-61  
PCB-62  
PCB-63  
PCB-64  
PCB-65  
PCB-66  
PCB-67  
PCB-68  
PCB-69  
PCB-7  
PCB-70  
PCB-71  
PCB-72  
PCB-73  
PCB-74  
PCB-75  
PCB-76  
PCB-77  
PCB-78

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PCB-79  
PCB-8  
PCB-80  
PCB-81  
PCB-82  
PCB-83  
PCB-84  
PCB-85  
PCB-86  
PCB-87  
PCB-88  
PCB-89  
PCB-9  
PCB-90  
PCB-91  
PCB-92  
PCB-93  
PCB-94  
PCB-95  
PCB-96  
PCB-97  
PCB-98  
PCB-99

**Water (Organic)**

Taste and Odour Compounds - Water (038)

BU-TM-1115; modified from EPA 8270D

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

OSDWA †

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