



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

**Membership Number:** 3317

**Laboratory Name:** Pacific Rim Laboratories Inc.

**Parent Institution:**

**Address:** Unit 103 19575 - 55A Avenue Surrey BC V3S 8P8

**Contact:** Mr. David Hope

**Phone:** (604) 532-8711

**Fax:** (604) 532-8712

**Email:** dave@pacificrimlabs.com

**Standard:** Conforms with requirements of ISO/IEC 17025

**Clients Served:** All Interested Parties

**Revised On:** September 12, 2019

**Valid To:** September 30, 2021

### Scope of Accreditation

#### Food (Organic)

Brominated Flame Retardants - Food [Butter, Dairy, Egg, Fish Oil, Meat, Nut Butter, Vegetable Oil] (021)

SOP LAB06F/GC-HRMS; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,6'-Octabromodiphenyl ether

2,2',3,3',4,4',6'-Heptabromodiphenyl ether

2,2',3,4,4',5'-Hexabromodiphenyl ether (BDE-188)

2,2',3,4,4',6'-Hexabromodiphenyl ether

2,2',4,4',5,5'-HxBB

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 139 (2,2',3,4,4',6-Hexabromodiphenyl ether)

PBDE 15 (4,4'-Dibromodiphenyl ether)

PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)

PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)

PBDE 156/169 (2,3,3',4,4',5-Hexabromodiphenyl ether + 3,3',4,4',5,5'-Hexabromodiphenyl ether)

PBDE 17 (2,2',4-Tribromodiphenyl ether)

PBDE 180 (2,2',3,4,4',5,5'-Heptabromodiphenyl ether)

PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)

PBDE 184 (2,2',3,4,4',6,6'-Heptabromodiphenyl ether)

PBDE 191 (2,3,3',4,4',5',6-Heptabromodiphenyl ether)

PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)

PBDE 204 (2,2',3,4,4',5,6,6'-Octabromodiphenyl ether)

PBDE 205 (2,3,3',4,4',5,5',6-Octabromodiphenyl ether)

PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)

† "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).

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PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)

### Food (Organic)

Polychlorinated Biphenyls (PCB) - Food (012)

SOP LAB02F; modified from EPA 1668C

HRGC/HRMS-EXTRACTION

2,2',3,3',4,6'/2,3,3',4,5',6-HxCB (PCB-132/161)  
2,2',3,3',4,6'/2,2',3,3',5,5'-HxCB (PCB-131/133)  
2,2',3,3',6/2,3',4,5',6-PeCB (PCB-084/121)  
2,2',3,3',6,6'/2,2',3,4',5,6'-HxCB (PCB-136/148)  
2,3,3',5,6/2,3',4,4',6-PeCB (PCB-112/119)  
2,3,4,5,6/2,3',4',5',6-PeCB (PCB-116/125)  
PCB 1 (2-Chlorobiphenyl)  
PCB 10 (2,6-Dichlorobiphenyl)  
PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)  
PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
PCB 103 (2,2',4,5,6-Pentachlorobiphenyl)  
PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)  
PCB 105/127 (2,3,3',4,4'-Pentachlorobiphenyl + 3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)  
PCB 107/108 (2,3,3',4',5-Pentachlorobiphenyl + 2,3,3',4,5'-Pentachlorobiphenyl)  
PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
PCB 11 (3,3'-Dichlorobiphenyl)  
PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)  
PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 113 (2,3,3',5,6-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
PCB 12/13 (3,4-Dichlorobiphenyl + 3,4'-Dichlorobiphenyl)  
PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 128/162 (2,2',3,3',4,4'-Pentachlorobiphenyl) + 2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)

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PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
 PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
 PCB 139/149 (2,2',3,4,4',6-Hexachlorobiphenyl + 2,2',3,4',5',6-Hexachlorobiphenyl)  
 PCB 14 (3,5-Dichlorobiphenyl)  
 PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
 PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
 PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
 PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
 PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
 PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
 PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
 PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
 PCB 15 (4,4'-Dichlorobiphenyl)  
 PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
 PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
 PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
 PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
 PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
 PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
 PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
 PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
 PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
 PCB 16 (2,2',3-Trichlorobiphenyl)  
 PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
 PCB 163/164 (2,3,3',4',5,6-Hexachlorobiphenyl + 2,3,3',4',5',6-Hexachlorobiphenyl)  
 PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
 PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
 PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
 PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 17 (2,2',4-Trichlorobiphenyl)  
 PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
 PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
 PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
 PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
 PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
 PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
 PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
 PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
 PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
 PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
 PCB 18 (2,2',5-Trichlorobiphenyl)  
 PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
 PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
 PCB 182/187 (2,2',3,4,4',5,6'-Heptachlorobiphenyl + 2,2',3,4',5,5',6-Heptachlorobiphenyl)  
 PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
 PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
 PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)  
 PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
 PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
 PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
 PCB 19 (2,2',6-Trichlorobiphenyl)

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PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20/33 (2,3,3'-Trichlorobiphenyl + 2,4,6-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4-Trichlorobiphenyl)  
PCB 36 (3,3',5-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5-Trichlorobiphenyl)  
PCB 39 (3,4',5-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47/48 (2,2',4,4'-Tetrachlorobiphenyl + 2,2',4,5-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5/8 (2,3-Dichlorobiphenyl + 2,4'-Dichlorobiphenyl)  
PCB 50 (2,2',4,6-Tetrachlorobiphenyl)

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PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
 PCB 52/69 (2,2',5,5'-Tetrachlorobiphenyl + 2,3',4,6-Tetrachlorobiphenyl)  
 PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
 PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
 PCB 55 (2,3,3',4-Tetrachlorobiphenyl)  
 PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
 PCB 57 (2,3,3',5-Tetrachlorobiphenyl)  
 PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
 PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
 PCB 6 (2,3'-Dichlorobiphenyl)  
 PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
 PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
 PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
 PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
 PCB 64/72 (2,3,4',6-Tetrachlorobiphenyl + 2,3',5,5'-Tetrachlorobiphenyl)  
 PCB 65/75 (2,3,5,6-Tetrachlorobiphenyl + 2,4,4',6-Tetrachlorobiphenyl)  
 PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
 PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
 PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
 PCB 7 (2,4-Dichlorobiphenyl)  
 PCB 70 (2,3',4',5-Tetrachlorobiphenyl)  
 PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
 PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
 PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
 PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
 PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
 PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
 PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
 PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
 PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
 PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
 PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
 PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
 PCB 86/97/117 (2,2',3,4,5-Pentachlorobiphenyl + 2,2',3,4',5'-Pentachlorobiphenyl + 2,3,4',5,6-  
 PCB 87/115 (2,2',3,4,5'-Pentachlorobiphenyl + 2,3,4,4',6-Pentachlorobiphenyl)  
 PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
 PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
 PCB 9 (2,5-Dichlorobiphenyl)  
 PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
 PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
 PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
 PCB 93/98/102 (2,2',3,5,6-Pentachlorobiphenyl + 2,2',3,4',6'-Pentachlorobiphenyl + 2,2',4,5,6'-  
 PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
 PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
 PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
 PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)  
 Total Dichlorobiphenyls  
 Total Heptachlorobiphenyls (Total HpCBs)  
 Total Hexachlorobiphenyls (Total HxCBs)  
 Total Monochlorobiphenyls  
 Total Nonachlorobiphenyls (Total NoCBs)  
 Total Octachlorobiphenyls (Total OcCBs)  
 Total Pentachlorobiphenyls (Total PeCBs)

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Total Tetrachlorobiphenyls (Total TeCBs)

Total Trichlorobiphenyls (Total TrCBs)

### Food (Organic)

Polychlorinated Dibenzo(p)dioxins and Dibenzofurans (PCDD/PCDF) - Food (011)

SOP LAB01F; modified from EPA 1613B

HRGC/HRMS-EXTRACTION

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)

1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)

1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)

1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)

1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)

1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)

1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)

1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)

2,3,4,6,7,8-HxCDF

2,3,4,7,8-PeCDF

2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)

2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)

Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)

Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)

Total Heptachlorodibenzo-p-dioxins (Total HpCDD)

Total Heptachlorodibenzofurans (Total HpCDF)

Total Hexachlorodibenzo-p-dioxins (Total HxCDD)

Total Hexachlorodibenzofurans (Total HxCDF)

Total Pentachlorodibenzo-p-dioxins (Total PeCDD)

Total Pentachlorodibenzofurans (Total PeCDF)

Total Tetrachlorodibenzo-p-dioxins (Total TCDD)

Total Tetrachlorodibenzofurans (Total TCDF)

### Food (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Food (010)

SOP LAB03F; IN-HOUSE

HRGC/HRMS-EXTRACTION

Acenaphthene

Acenaphthylene

Anthracene

Benzo (a) anthracene

Benzo(a)pyrene

Benzo(b,i)fluoranthene

Benzo(q,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo (a,h) anthracene

Fluoranthene

Fluorene

Indeno(1,2,3-cd)pyrene

Naphthalene

Phenanthrene

Pyrene

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## Solids (Organic)

Brominated Flame Retardants - Solids [Sediment, Soil] (014)

SOP LAB06; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,6'-Octabromodiphenyl ether  
2,2',3,3',4,4',6'-Heptabromodiphenyl ether  
2,2',3,4,4',5'-Hexabromodiphenyl ether (BDE-188)  
2,2',3,4,4',6'-Hexabromodiphenyl ether  
2,2',4,4',5,5'-HxBB  
PBDE 10 (2,6-Dibromodiphenyl ether)  
PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)  
PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)  
PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)  
PBDE 139 (2,2',3,4,4',6-Hexabromodiphenyl ether)  
PBDE 15 (4,4'-Dibromodiphenyl ether)  
PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)  
PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
PBDE 156/169 (2,3,3',4,4',5-Hexabromodiphenyl ether + 3,3',4,4',5,5'-Hexabromodiphenyl ether)  
PBDE 17 (2,2',4-Tribromodiphenyl ether)  
PBDE 180 (2,2',3,4,4',5,5'-Heptabromodiphenyl ether)  
PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
PBDE 184 (2,2',3,4,4',6,6'-Heptabromodiphenyl ether)  
PBDE 191 (2,3,3',4,4',5',6-Heptabromodiphenyl ether)  
PBDE 197/204 (2,2',3,3',4,4',6,6'-Octabromodiphenyl ether + 2,2',3,4,4',5,6,6'-  
PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 205 (2,3,3',4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)

## Solids (Organic)

Organochlorine (OC) Pesticides - Solids [Biosolid, Sediment, Soil] (019)

SOP LAB012; EPA 1699

HRGC/HRMS-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)  
a - Chlordane  
Aldrin

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alpha-BHC  
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-cis-Nonachlor  
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)  
Dieldrin  
Endosulfan I (a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Endosulfan Sulfate  
Endrin  
γ - Chlordane  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Lindane (γ-BHC)  
Methoxychlor  
Mirex  
Oxychlordane  
Pentachlorobenzene  
Toxaphene 26 (Parlar 26)  
Toxaphene 50 (Parlar 50)  
Toxaphene 62 (Parlar 62)

### **Solids (Organic)**

Perfluorinated Compounds (PFC) - Solids [Soil] (026)

SOP LAB16; modified from EPA 537

LC-MS/MS - EXTRACTION

11-Chloroeicosafuoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)

4,8-Dioxa-3H-perfluorononanoate (ADONA)

9-Chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSSA)

N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)

Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)

Perfluorodecanoic acid (PFDA, Perfluorodecanoate)

Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)

Perfluoroheptanoic acid (PFHpA, Perfluorohepanoate)

Perfluorohexanesulfonate (PFHxS)

Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)

Perfluorononanoic acid (PFNA, Perfluorononanoate)

Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)

Perfluorooctanoic acid (PFOA, Perfluorooctanoate)

Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)

Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

### **Solids (Organic)**

Polychlorinated Biphenyls (PCB) - Solids [Sediment, Soil] (004)

SOP LAB02; modified from EPA 1668C

HRGC/HRMS-EXTRACTION

2,2',3,3',4,6'/2,3,3',4,5',6'-HxCB (PCB-132/161)

2,2',3,3',4,6'/2,2',3,3',5,5'-HxCB (PCB-131/133)

2,2',3,3',6/2,3',4,5',6'-PeCB (PCB-084/121)

2,2',3,3',6,6'/2,2',3,4',5,6'-HxCB (PCB-136/148)

2,3,3',5,6/2,3',4,4',6'-PeCB (PCB-112/119)

2,3,4,5,6/2,3',4',5',6'-PeCB (PCB-116/125)

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PCB 1 (2-Chlorobiphenyl)  
 PCB 10 (2,6-Dichlorobiphenyl)  
 PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)  
 PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
 PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)  
 PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)  
 PCB 105/127 (2,3,3',4,4'-Pentachlorobiphenyl + 3,3',4,5,5'-Pentachlorobiphenyl)  
 PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)  
 PCB 107/108 (2,3,3',4',5-Pentachlorobiphenyl + 2,3,3',4,5'-Pentachlorobiphenyl)  
 PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
 PCB 11 (3,3'-Dichlorobiphenyl)  
 PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)  
 PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
 PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
 PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
 PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
 PCB 12/13 (3,4-Dichlorobiphenyl + 3,4'-Dichlorobiphenyl)  
 PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
 PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
 PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
 PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
 PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
 PCB 128/162 (2,2',3,3',4,4'-Pentachlorobiphenyl) + 2,3,3',4',5,5'-Hexachlorobiphenyl)  
 PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
 PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
 PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
 PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
 PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
 PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
 PCB 139/149 (2,2',3,4,4',6-Hexachlorobiphenyl + 2,2',3,4',5',6-Hexachlorobiphenyl)  
 PCB 14 (3,5-Dichlorobiphenyl)  
 PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
 PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
 PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
 PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
 PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
 PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
 PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
 PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
 PCB 15 (4,4'-Dichlorobiphenyl)  
 PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
 PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
 PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
 PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
 PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
 PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
 PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
 PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
 PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
 PCB 16 (2,2',3-Trichlorobiphenyl)  
 PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
 PCB 163/164 (2,3,3',4',5,6-Hexachlorobiphenyl + 2,3,3',4',5',6-Hexachlorobiphenyl)

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PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
 PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
 PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
 PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 17 (2,2',4-Trichlorobiphenyl)  
 PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
 PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
 PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
 PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
 PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
 PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
 PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
 PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
 PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
 PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
 PCB 18 (2,2',5-Trichlorobiphenyl)  
 PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
 PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
 PCB 182/187 (2,2',3,4,4',5,6'-Heptachlorobiphenyl + 2,2',3,4',5,5',6-Heptachlorobiphenyl)  
 PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
 PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
 PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)  
 PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
 PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
 PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
 PCB 19 (2,2',6-Trichlorobiphenyl)  
 PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
 PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
 PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
 PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
 PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
 PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
 PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
 PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
 PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
 PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
 PCB 2 (3-Chlorobiphenyl)  
 PCB 20/33 (2,3,3'-Trichlorobiphenyl + 2,4,6-Trichlorobiphenyl)  
 PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
 PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
 PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
 PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
 PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
 PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
 PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
 PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
 PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
 PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
 PCB 21 (2,3,4-Trichlorobiphenyl)  
 PCB 22 (2,3,4'-Trichlorobiphenyl)  
 PCB 23 (2,3,5-Trichlorobiphenyl)  
 PCB 24 (2,3,6-Trichlorobiphenyl)

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PCB 25 (2,3',4-Trichlorobiphenyl)  
 PCB 26 (2,3',5-Trichlorobiphenyl)  
 PCB 27 (2,3',6-Trichlorobiphenyl)  
 PCB 28 (2,4,4'-Trichlorobiphenyl)  
 PCB 29 (2,4,5-Trichlorobiphenyl)  
 PCB 3 (4-Chlorobiphenyl)  
 PCB 30 (2,4,6-Trichlorobiphenyl)  
 PCB 31 (2,4',5-Trichlorobiphenyl)  
 PCB 32 (2,4',6-Trichlorobiphenyl)  
 PCB 34 (2,3',5'-Trichlorobiphenyl)  
 PCB 35 (3,3',4-Trichlorobiphenyl)  
 PCB 36 (3,3',5-Trichlorobiphenyl)  
 PCB 37 (3,4,4'-Trichlorobiphenyl)  
 PCB 38 (3,4,5-Trichlorobiphenyl)  
 PCB 39 (3,4',5-Trichlorobiphenyl)  
 PCB 4 (2,2'-Dichlorobiphenyl)  
 PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
 PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
 PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
 PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
 PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
 PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
 PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
 PCB 47/48 (2,2',4,4'-Tetrachlorobiphenyl + 2,2',4,5-Tetrachlorobiphenyl)  
 PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
 PCB 5/8 (2,3-Dichlorobiphenyl + 2,4'-Dichlorobiphenyl)  
 PCB 50 (2,2',4,6-Tetrachlorobiphenyl)  
 PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
 PCB 52/69 (2,2',5,5'-Tetrachlorobiphenyl + 2,3',4,6-Tetrachlorobiphenyl)  
 PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
 PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
 PCB 55 (2,3,3',4-Tetrachlorobiphenyl)  
 PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
 PCB 57 (2,3,3',5-Tetrachlorobiphenyl)  
 PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
 PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
 PCB 6 (2,3'-Dichlorobiphenyl)  
 PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
 PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
 PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
 PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
 PCB 64/72 (2,3,4',6-Tetrachlorobiphenyl + 2,3',5,5'-Tetrachlorobiphenyl)  
 PCB 65/75 (2,3,5,6-Tetrachlorobiphenyl + 2,4,4',6-Tetrachlorobiphenyl)  
 PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
 PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
 PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
 PCB 7 (2,4-Dichlorobiphenyl)  
 PCB 70 (2,3',4',5-Tetrachlorobiphenyl)  
 PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
 PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
 PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
 PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
 PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)

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PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
 PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
 PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
 PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
 PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
 PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
 PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
 PCB 86/97/117 (2,2',3,4,5-Pentachlorobiphenyl + 2,2',3,4',5'-Pentachlorobiphenyl + 2,3,4',5,6-  
 PCB 87/115 (2,2',3,4,5'-Pentachlorobiphenyl + 2,3,4,4',6-Pentachlorobiphenyl)  
 PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
 PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
 PCB 9 (2,5-Dichlorobiphenyl)  
 PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
 PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
 PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
 PCB 93/98/102 (2,2',3,5,6-Pentachlorobiphenyl + 2,2',3,4',6'-Pentachlorobiphenyl + 2,2',4,5,6'-  
 PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
 PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
 PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
 PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)  
 Total Dichlorobiphenyls  
 Total Heptachlorobiphenyls (Total HpCBs)  
 Total Hexachlorobiphenyls (Total HxCBs)  
 Total Monochlorobiphenyls  
 Total Nonachlorobiphenyls (Total NoCBs)  
 Total Octachlorobiphenyls (Total OcCBs)  
 Total Pentachlorobiphenyls (Total PeCBs)  
 Total Tetrachlorobiphenyls (Total TeCBs)  
 Total Trichlorobiphenyls (Total TrCBs)

### Solids (Organic)

Polychlorinated Dibenzo(p)dioxins and Dibenzofurans (PCDD/PCDF) - Solids [Sediment, Soil] (006)  
 SOP LAB01; modified from EPA 1613B  
 HRGC/HRMS-EXTRACTION

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)  
 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
 2,3,4,6,7,8-HxCDF  
 2,3,4,7,8-PeCDF  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
 2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
 Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
 Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
 Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
 Total Heptachlorodibenzofurans (Total HpCDF)  
 Total Hexachlorodibenzo-p-dioxins (Total HxCDD)

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Total Hexachlorodibenzofurans (Total HxCDF)  
Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
Total Pentachlorodibenzofurans (Total PeCDF)  
Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
Total Tetrachlorodibenzofurans (Total TCDF)

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) and Alkylated Polycyclic Aromatic Hydrocarbons (PAH) - Solids  
[Sediment, Soil] (023)

SOP LAB013; IN-HOUSE

GC/MS/MS - EXTRACTION

1-Ethylpyrene  
1-Methylbenz(a)anthracene  
1-Methylnaphthalene  
1-Methylnaphthalene  
1-Methylpyrene  
1,5-Dimethylphenanthrene  
1,7-Dimethylphenanthrene  
2-Methylnaphthalene  
2-Methylnaphthalene  
2,3,5-Naphthalene  
2,6-Phenanthrene  
3-Methylcholanthrene  
5-Methylchrysene  
6-Ethylchrysene  
6-Methylbenzo(a)pyrene  
6-Methylchrysene  
7-Methylbenz(a)anthracene  
7-Methylbenzo(a)pyrene  
7,12-Dimethylbenz(a)anthracene  
7H-Dibenzo(e,g)carbazole  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(e)pyrene  
Benzo(g)chrysene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Biphenyl (1,1-Biphenyl)  
C1-Acenaphthenes  
C1-Benz(a)anthracene/Chrysene  
C1-Benzofluoranthenes/Benzopyrenes  
C1-Biphenyls  
C1-Dibenzothiophenes  
C1-Fluoranthenes/Pyrenes  
C1-Fluoranthenes/Pyrenes  
C1-Fluorenes  
C1-Naphthalenes  
C1-Phenanthrenes/Anthracenes  
C2-Benzanthracenes/Chrysenes  
C2-Benzofluoranthenes/Benzopyrenes

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C2-Biphenyls/Acenaphthenes  
C2-Dibenzothiophenes  
C2-Fluorenes  
C2-Naphthalenes  
C2-Phenanthrenes/Anthracenes  
C3-Dibenzothiophenes  
C3-Naphthalenes  
C3-Phenanthrenes/Anthracenes  
C4-Dibenzothiophenes  
C4-Naphthalenes  
C4-Phenanthrenes/Anthracenes  
Chrysene  
Cyclopenta(cd)pyrene  
Dibenz(a,h)acridine  
Dibenzo(a,e)fluoranthene  
Dibenzo(a,e)pyrene  
Dibenzo(a,h)anthracene  
Dibenzo(a,h)pyrene  
Dibenzo(a,i)pyrene  
Dibenzo(a,i)pyrene  
Dibenzo(a,i)acridine  
Dibenzothiophene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Retene

#### **Solids (Organic)**

Tributyltins - Solids [Sediment, Soil] (009)

SOP LAB04; IN-HOUSE

HRGC/HRMS-EXTRACTION

Dibutyltin dichloride

Monobutyltin trichloride

Tributyltin chloride ((Parameter suspended on 8/14/2019))

#### **Tissue (Organic)**

Brominated Flame Retardants - Tissue (015)

SOP LAB06; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,6'-Octabromodiphenyl ether

2,2',3,3',4,4',6'-Heptabromodiphenyl ether

2,2',3,4,4',5'-Hexabromodiphenyl ether (BDE-188)

2,2',3,4,4',6'-Hexabromodiphenyl ether

2,2',4,4',5,5'-HxBB

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 139 (2,2',3,4,4',6-Hexabromodiphenyl ether)

PBDE 15 (4,4'-Dibromodiphenyl ether)

PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)

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PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
 PBDE 156/169 (2,3,3',4,4',5'-Hexabromodiphenyl ether + 3,3',4,4',5,5'-Hexabromodiphenyl ether)  
 PBDE 17 (2,2',4-Tribromodiphenyl ether)  
 PBDE 180 (2,2',3,4,4',5,5'-Heptabromodiphenyl ether)  
 PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
 PBDE 184 (2,2',3,4,4',6,6'-Heptabromodiphenyl ether)  
 PBDE 191 (2,3,3',4,4',5',6-Heptabromodiphenyl ether)  
 PBDE 197/204 (2,2',3,3',4,4',6,6'-Octabromodiphenyl ether + 2,2',3,4,4',5,6,6'-  
 PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
 PBDE 205 (2,3,3',4,4',5,5',6-Octabromodiphenyl ether)  
 PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
 PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
 PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
 PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
 PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
 PBDE 30 (2,4,6-Tribromodiphenyl ether)  
 PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
 PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
 PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
 PBDE 7 (2,4-Dibromodiphenyl ether)  
 PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
 PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
 PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
 PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
 PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)

### Tissue (Organic)

Organochlorine (OC) Pesticides - Tissue (020)

SOP LAB012; EPA 1699

HRGC/HRMS-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)

a - Chlordane

Aldrin

alpha-BHC

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-cis-Nonachlor

delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)

Dieldrin

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

Endosulfan Sulfate

Endrin

q - Chlordane

Heptachlor

Heptachlor epoxide

Hexachlorobenzene

Lindane (gamma-BHC)

Methoxychlor

Mirex

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Oxychlorodane  
Pentachlorobenzene  
Toxaphene 26 (Parlar 26)  
Toxaphene 50 (Parlar 50)  
Toxaphene 62 (Parlar 62)

**Tissue (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) and Alkylated Polycyclic Aromatic Hydrocarbons (PAH) - Tissue (024)

SOP LAB013; IN-HOUSE

GC/MS/MS - EXTRACTION

1-Ethylpyrene  
1-Methylbenz(a)anthracene  
1-Methylnaphthalene  
1-Methylnaphthalene  
1-Methylpyrene  
1,5-Dimethylphenanthrene  
1,7-Dimethylphenanthrene  
2-Methylnaphthalene  
2-Methylnaphthalene  
2,3,5-Naphthalene  
2,6-Phenanthrene  
3-Methylcholanthrene  
5-Methylchrysene  
6-Ethylchrysene  
6-Methylbenzo(a)pyrene  
6-Methylchrysene  
7-Methylbenz(a)anthracene  
7-Methylbenzo(a)pyrene  
7,12-Dimethylbenz(a)anthracene  
7H-Dibenzo(e,g)carbazole  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(e)pyrene  
Benzo(g)chrysene  
Benzo(q,h,i)perylene  
Benzo(k)fluoranthene  
Biphenyl (1,1-Biphenyl)  
C1-Acenaphthenes  
C1-Benz(a)anthracene/Chrysene  
C1-Benzofluoranthenes/Benzopyrenes  
C1-Biphenyls  
C1-Dibenzothiophenes  
C1-Fluoranthenes/Pyrenes  
C1-Fluoranthenes/Pyrenes  
C1-Fluorenes  
C1-Naphthalenes  
C1-Phenanthrenes/Anthracenes  
C2-Benzanthracenes/Chrysenes  
C2-Benzofluoranthenes/Benzopyrenes  
C2-Biphenyls/Acenaphthenes

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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](http://www.cala.ca/cala_directories.html)



C2-Dibenzothiophenes  
C2-Fluorenes  
C2-Naphthalenes  
C2-Phenanthrenes/Anthracenes  
C3-Dibenzothiophenes  
C3-Naphthalenes  
C3-Phenanthrenes/Anthracenes  
C4-Dibenzothiophenes  
C4-Naphthalenes  
C4-Phenanthrenes/Anthracenes  
Chrysene  
Cyclopenta(cd)pyrene  
Dibenzacridines  
Dibenzo(a,e)fluoranthene  
Dibenzo(a,e)pyrene  
Dibenzo(a,h)anthracene  
Dibenzo(a,h)pyrene  
Dibenzo(a,i)pyrene  
Dibenzo(a,i)pyrene  
Dibenzothiophene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Retene

#### **Tissue (Organic)**

Tributyltins - Tissue (013)

SOP LAB04; IN-HOUSE

HRGC/HRMS-EXTRACTION

Dibutyltin dichloride

Monobutyltin trichloride

Tributyltin chloride

#### **Water (Organic)**

Brominated Flame Retardants - Water (016)

SOP LAB06; modified from EPA 1614

HRGC/HRMS-EXTRACTION

2,2',3,3',4,4',5,6'-Octabromodiphenyl ether

2,2',3,3',4,4',6'-Heptabromodiphenyl ether

2,2',3,4,4',5'-Hexabromodiphenyl ether (BDE-188)

2,2',3,4,4',6'-Hexabromodiphenyl ether

2,2',4,4',5,5'-HxBB

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 139 (2,2',3,4,4',6-Hexabromodiphenyl ether)

PBDE 15 (4,4'-Dibromodiphenyl ether)

PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)

PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)

PBDE 156/169 (2,3,3',4,4',5-Hexabromodiphenyl ether + 3,3',4,4',5,5'-Hexabromodiphenyl ether)

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PBDE 17 (2,2',4-Tribromodiphenyl ether)  
PBDE 180 (2,2',3,4,4',5,5'-Heptabromodiphenyl ether)  
PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
PBDE 184 (2,2',3,4,4',6,6'-Heptabromodiphenyl ether)  
PBDE 191 (2,3,3',4,4',5',6-Heptabromodiphenyl ether)  
PBDE 197/204 (2,2',3,3',4,4',6,6'-Octabromodiphenyl ether + 2,2',3,4,4',5,6,6'-  
PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 205 (2,3,3',4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)

#### **Water (Organic)**

Nitrosamines - Water (017)

SOP LAB05; ON MOECC E3291

HRGC/HRMS-EXTRACTION

N-nitroso-N-methylethylamine NMEA

N-nitrosodi-n-butylamine

N-Nitrosodi-n-propylamine

N-Nitrosodiethylamine

N-Nitrosodimethylamine (NDMA)

N-nitrosomorpholine NMOR

N-Nitrosopiperidine

N-Nitrosopyrrolidine

#### **Water (Organic)**

Organochlorine (OC) Pesticides - Water (018)

SOP LAB012; EPA 1699

HRGC/HRMS-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)

a - Chlordane

Aldrin

alpha-BHC

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-cis-Nonachlor

delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)

Dieldrin

Endosulfan I (a-Endosulfan)

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Endosulfan II (b-Endosulfan)  
Endosulfan Sulfate  
Endrin  
γ - Chlordane  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Lindane (γ-BHC)  
Methoxychlor  
Mirex  
Oxychlordane  
Pentachlorobenzene

#### **Water (Organic)**

Perfluorinated Compounds (PFC) - Water (025)

SOP LAB16; modified from EPA 537

LC-MS/MS - EXTRACTION

11-Chloroeicosafuoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)  
4,8-Dioxa-3H-perfluorononanoate (ADONA)  
9-Chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS)  
Hexafluoropropylene oxide dimer acid (HFPO-DA)  
N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)  
N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)  
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)  
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)  
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)  
Perfluoroheptanoic acid (PFHpA, Perfluorohepanoate)  
Perfluorohexanesulfonate (PFHxS)  
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)  
Perfluorononanoic acid (PFNA, Perfluorononanoate)  
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)  
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)  
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)  
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)  
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

#### **Water (Organic)**

Polychlorinated Biphenyls (PCB) - Water (001)

SOP LAB02; modified from EPA 1668C

HRGC/HRMS-EXTRACTION

2,2',3,3',4,6'/2,3,3',4,5',6-HxCB (PCB-132/161)  
2,2',3,3',4,6'/2,2',3,3',5,5'-HxCB (PCB-131/133)  
2,2',3,3',6/2,3',4,5',6-PeCB (PCB-084/121)  
2,2',3,3',6,6'/2,2',3,4',5,6'-HxCB (PCB-136/148)  
2,3,3',5,6/2,3',4,4',6-PeCB (PCB-112/119)  
2,3,4,5,6/2,3',4',5',6-PeCB (PCB-116/125)  
PCB 1 (2-Chlorobiphenyl)  
PCB 10 (2,6-Dichlorobiphenyl)  
PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)  
PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)  
PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)  
PCB 105/127 (2,3,3',4,4'-Pentachlorobiphenyl + 3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)  
PCB 107/108 (2,3,3',4',5-Pentachlorobiphenyl + 2,3,3',4,5'-Pentachlorobiphenyl)

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PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
 PCB 11 (3,3'-Dichlorobiphenyl)  
 PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)  
 PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
 PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
 PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
 PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
 PCB 12/13 (3,4-Dichlorobiphenyl + 3,4'-Dichlorobiphenyl)  
 PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
 PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
 PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
 PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
 PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
 PCB 128/162 (2,2',3,3',4,4'-Pentachlorobiphenyl) + 2,3,3',4',5,5'-Hexachlorobiphenyl)  
 PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
 PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
 PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
 PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
 PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
 PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
 PCB 139/149 (2,2',3,4,4',6-Hexachlorobiphenyl + 2,2',3,4',5',6-Hexachlorobiphenyl)  
 PCB 14 (3,5-Dichlorobiphenyl)  
 PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
 PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
 PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
 PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
 PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
 PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
 PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
 PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
 PCB 15 (4,4'-Dichlorobiphenyl)  
 PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
 PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
 PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
 PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
 PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
 PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
 PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
 PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
 PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
 PCB 16 (2,2',3-Trichlorobiphenyl)  
 PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
 PCB 163/164 (2,3,3',4',5,6-Hexachlorobiphenyl + 2,3,3',4',5',6-Hexachlorobiphenyl)  
 PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
 PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
 PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
 PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 17 (2,2',4-Trichlorobiphenyl)  
 PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
 PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
 PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)

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PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
 PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
 PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
 PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
 PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
 PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
 PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
 PCB 18 (2,2',5-Trichlorobiphenyl)  
 PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
 PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
 PCB 182/187 (2,2',3,4,4',5,6'-Heptachlorobiphenyl + 2,2',3,4',5,5',6-Heptachlorobiphenyl)  
 PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
 PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
 PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)  
 PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
 PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
 PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
 PCB 19 (2,2',6-Trichlorobiphenyl)  
 PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
 PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
 PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
 PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
 PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
 PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
 PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
 PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
 PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
 PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
 PCB 2 (3-Chlorobiphenyl)  
 PCB 20/33 (2,3,3'-Trichlorobiphenyl + 2,4,6-Trichlorobiphenyl)  
 PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
 PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
 PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
 PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
 PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
 PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
 PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
 PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
 PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
 PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
 PCB 21 (2,3,4-Trichlorobiphenyl)  
 PCB 22 (2,3,4'-Trichlorobiphenyl)  
 PCB 23 (2,3,5-Trichlorobiphenyl)  
 PCB 24 (2,3,6-Trichlorobiphenyl)  
 PCB 25 (2,3',4-Trichlorobiphenyl)  
 PCB 26 (2,3',5-Trichlorobiphenyl)  
 PCB 27 (2,3',6-Trichlorobiphenyl)  
 PCB 28 (2,4,4'-Trichlorobiphenyl)  
 PCB 29 (2,4,5-Trichlorobiphenyl)  
 PCB 3 (4-Chlorobiphenyl)  
 PCB 30 (2,4,6-Trichlorobiphenyl)  
 PCB 31 (2,4',5-Trichlorobiphenyl)  
 PCB 32 (2,4',6-Trichlorobiphenyl)

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PCB 34 (2,3',5'-Trichlorobiphenyl)  
 PCB 35 (3,3',4'-Trichlorobiphenyl)  
 PCB 36 (3,3',5'-Trichlorobiphenyl)  
 PCB 37 (3,4,4'-Trichlorobiphenyl)  
 PCB 38 (3,4,5'-Trichlorobiphenyl)  
 PCB 39 (3,4',5'-Trichlorobiphenyl)  
 PCB 4 (2,2'-Dichlorobiphenyl)  
 PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
 PCB 41 (2,2',3,4'-Tetrachlorobiphenyl)  
 PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
 PCB 43 (2,2',3,5'-Tetrachlorobiphenyl)  
 PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
 PCB 45 (2,2',3,6'-Tetrachlorobiphenyl)  
 PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
 PCB 47/48 (2,2',4,4'-Tetrachlorobiphenyl + 2,2',4,5'-Tetrachlorobiphenyl)  
 PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
 PCB 5/8 (2,3-Dichlorobiphenyl + 2,4'-Dichlorobiphenyl)  
 PCB 50 (2,2',4,6'-Tetrachlorobiphenyl)  
 PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
 PCB 52/69 (2,2',5,5'-Tetrachlorobiphenyl + 2,3',4,6'-Tetrachlorobiphenyl)  
 PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
 PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
 PCB 55 (2,3,3',4'-Tetrachlorobiphenyl)  
 PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
 PCB 57 (2,3,3',5'-Tetrachlorobiphenyl)  
 PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
 PCB 59 (2,3,3',6'-Tetrachlorobiphenyl)  
 PCB 6 (2,3'-Dichlorobiphenyl)  
 PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
 PCB 61 (2,3,4,5'-Tetrachlorobiphenyl)  
 PCB 62 (2,3,4,6'-Tetrachlorobiphenyl)  
 PCB 63 (2,3,4',5'-Tetrachlorobiphenyl)  
 PCB 64/72 (2,3,4',6'-Tetrachlorobiphenyl + 2,3',5,5'-Tetrachlorobiphenyl)  
 PCB 65/75 (2,3,5,6'-Tetrachlorobiphenyl + 2,4,4',6'-Tetrachlorobiphenyl)  
 PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
 PCB 67 (2,3',4,5'-Tetrachlorobiphenyl)  
 PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
 PCB 7 (2,4-Dichlorobiphenyl)  
 PCB 70 (2,3',4',5'-Tetrachlorobiphenyl)  
 PCB 71 (2,3',4',6'-Tetrachlorobiphenyl)  
 PCB 73 (2,3',5',6'-Tetrachlorobiphenyl)  
 PCB 74 (2,4,4',5'-Tetrachlorobiphenyl)  
 PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
 PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
 PCB 78 (3,3',4,5'-Tetrachlorobiphenyl)  
 PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
 PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
 PCB 81 (3,4,4',5'-Tetrachlorobiphenyl)  
 PCB 82 (2,2',3,3',4'-Pentachlorobiphenyl)  
 PCB 83 (2,2',3,3',5'-Pentachlorobiphenyl)  
 PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
 PCB 86/97/117 (2,2',3,4,5'-Pentachlorobiphenyl + 2,2',3,4',5'-Pentachlorobiphenyl + 2,3,4',5,6-  
 PCB 87/115 (2,2',3,4,5'-Pentachlorobiphenyl + 2,3,4,4',6'-Pentachlorobiphenyl)

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PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
 PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
 PCB 9 (2,5-Dichlorobiphenyl)  
 PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
 PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
 PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
 PCB 93/98/102 (2,2',3,5,6-Pentachlorobiphenyl + 2,2',3,4',6'-Pentachlorobiphenyl + 2,2',4,5,6'-  
 PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
 PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
 PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
 PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)  
 Total Dichlorobiphenyls  
 Total Heptachlorobiphenyls (Total HpCBs)  
 Total Hexachlorobiphenyls (Total HxCBs)  
 Total Monochlorobiphenyls  
 Total Nonachlorobiphenyls (Total NoCBs)  
 Total Octachlorobiphenyls (Total OcCBs)  
 Total Pentachlorobiphenyls (Total PeCBs)  
 Total Tetrachlorobiphenyls (Total TeCBs)  
 Total Trichlorobiphenyls (Total TrCBs)

### Water (Organic)

Polychlorinated Dibenzo(p)dioxins and Dibenzofurans (PCDD/PCDF) - Water (005)

SOP LAB01; modified from EPA 1613B

HRGC/HRMS-EXTRACTION

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)  
 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
 2,3,4,6,7,8-HxCDF  
 2,3,4,7,8-PeCDF  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
 2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
 Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
 Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
 Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
 Total Heptachlorodibenzofurans (Total HpCDF)  
 Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
 Total Hexachlorodibenzofurans (Total HxCDF)  
 Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
 Total Pentachlorodibenzofurans (Total PeCDF)  
 Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
 Total Tetrachlorodibenzofurans (Total TCDF)

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## Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) and Alkylated Polycyclic Aromatic Hydrocarbons (PAH) - Water (022)

SOP LAB013; IN-HOUSE

GC/MS/MS - EXTRACTION

1-Ethylpyrene  
1-Methylbenz(a)anthracene  
1-Methylnaphthalene  
1-Methylnaphthalene  
1-Methylpyrene  
1,5-Dimethylphenanthrene  
1,7-Dimethylphenanthrene  
2-Methylnaphthalene  
2-Methylnaphthalene  
2,3,5-Naphthalene  
2,6-Phenanthrene  
3-Methylcholanthrene  
5-Methylchrysene  
6-Ethylchrysene  
6-Methylbenzo(a)pyrene  
6-Methylchrysene  
7-Methylbenz(a)anthracene  
7-Methylbenzo(a)pyrene  
7,12-Dimethylbenz(a)anthracene  
7H-Dibenzo(e,g)carbazole  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(e)pyrene  
Benzo(g)chrysene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Biphenyl (1,1-Biphenyl)  
C1-Acenaphthenes  
C1-Benz(a)anthracene/Chrysene  
C1-Benzofluoranthenes/Benzopyrenes  
C1-Biphenyls  
C1-Dibenzothiophenes  
C1-Fluoranthenes/Pyrenes  
C1-Fluoranthenes/Pyrenes  
C1-Fluorenes  
C1-Naphthalenes  
C1-Phenanthrenes/Anthracenes  
C2-Benzanthracenes/Chrysenes  
C2-Benzofluoranthenes/Benzopyrenes  
C2-Biphenyls/Acenaphthenes  
C2-Dibenzothiophenes  
C2-Fluorenes  
C2-Naphthalenes  
C2-Phenanthrenes/Anthracenes

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C3-Dibenzothiophenes  
C3-Naphthalenes  
C3-Phenanthrenes/Anthracenes  
C4-Dibenzothiophenes  
C4-Naphthalenes  
C4-Phenanthrenes/Anthracenes  
Chrysene  
Cyclopenta(cd)pyrene  
Dibenz(a,h)acridine  
Dibenzo(a,e)fluoranthene  
Dibenzo(a,e)pyrene  
Dibenzo (a,h) anthracene  
Dibenzo(a,h)pyrene  
Dibenzo(a,i)pyrene  
Dibenzo(a,i)pyrene  
Dibenzo(a,i)acridine  
Dibenzothiophene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline  
Retene

**Water (Organic)**

Tributyltins - Water (008)

SOP LAB04; IN-HOUSE

HRGC/HRMS-EXTRACTION

Dibutyltin dichloride

Monobutyltin trichloride

Tributyltin chloride

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