



TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 272
(Conforms with requirements of ISO/IEC 17025:2005)

Legal Name of Accredited Laboratory: **Element Materials Technology Canada Inc.**

Location Name or Operating as (if applicable): CALGARY LABORATORY

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SCC File Number:	15352
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Biological Chemical/Physical
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET)
Initial Accreditation:	1998-07-02
Most Recent Accreditation:	2020-10-05
Accreditation Valid to:	2022-07-02

SCC Group Accreditation:

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

15031 - Element Materials Technology Canada Inc. - EDMONTON LABORATORY,
7217 Roper Road, Edmonton, AB, T6B 3J4, Accredited Laboratory No. 18

15258 - Element Materials Technology Canada Inc. -VANCOUVER LABORATORY,
Address: #104-19575-55A Avenue, Surrey, BC, V3S 8P8, Accredited Laboratory No.
188

15741 - Element Materials Technology Canada Inc. FORT ST. JOHN LABORATORY,
#1 8822- 100th Street, Fort St. John, BC, V1J 3W9, Accredited Laboratory No. 604

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products: (Human and Animal Consumption)

**Animal or Vegetable Fats and Oils and Their Cleavage Products;
prepared edible fats; animal or vegetable waxes**

Beverages, Spirits and Vinegars

Cereals and Products of the Milling Industry

Coffee, Tea, Mate, Spices

Dairy Products (Except Unpasteurized Milk) for Payment Purposes

Edible Fruits and Nuts

Edible Vegetables and Certain Roots and Tubers

Preparation of Vegetables, Fruits, Nuts and Parts of Plants

Preparation of Cereals, Flour, Starch; Pastrycook's Products

Sugars and Sugar Confectionary

Natural Health Products

Environmental (Swabs and Sponges)

Meat and Edible Meat Offal

Nutritional and Dietary Supplements

Eggs

(Chemistry)

TM FOOD 001-50	Ash in Food (AOAC 923.03 Modified)
TM FOOD 002-50	Bone Particle Size of Meat Samples (CFIA FLS-1971-001 Modified)
TM FOOD 003-50	Moisture (AOAC 950.46 Modified)
TM FOOD 005-50	Total Fat (AOCS Am 5-04 Modified)

(Microbiological)

MFHPB-10	Isolation of <i>Escherichia coli</i> O157:H7/NM from Foods and Environmental Surface Samples (TM MICR 073-50)
MFHPB-19	Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in Foods Using the MPN Method (TM MICR 070-50)

MFHPB-20	Isolation and Identification of <i>Salmonella</i> from Foods and Environmental Samples (TM MICR 124-50)
MFHPB-21	Enumeration of <i>Staphylococcus aureus</i> in Foods (TM MICR 091-50)
MFHPB-23	Enumeration of <i>Clostridium perfringens</i> in Foods (TM MICR 114-50)
MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria spp.</i> from Foods and Environmental Samples (TM MICR 089-50)
MFHPB-34	Enumeration of <i>Escherichia coli</i> and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ <i>E.coli</i> Count Plates (TM MICR 084-50)
MFLP-09	Enumeration of <i>Enterobacteriaceae</i> Species in Food and Environmental Samples Using 3M™ Petrifilm™ <i>Enterobacteriaceae</i> Count Plates (TM MICR 103-50)
MFLP-15	The Detection of <i>Listeria</i> species from Environmental Surfaces Using the Dupont Qualicon BAX® System Method and Direct Plating (TM MICR 140-50)
MFLP-28	The Qualicon BAX® System Method for the Detection of <i>Listeria monocytogenes</i> in a Variety of Food (TM MICR 135-50)
MFLP-29	Detection of Salmonella in Foods and Environmental Surface Samples Using the BAX® System <i>Salmonella</i> Assay (TM MICR 134-50)
MFLP-30	Detection of <i>Escherichia coli</i> O157:H7 in Select Foods using the BAX System <i>E. coli</i> O157:H7 MP (TM MICR 133-50)
MFLP-74	Enumeration of <i>Listeria monocytogenes</i> in Food (TM MICR 090-50)
MLG 4	Isolation and Identification of <i>Salmonella</i> from Meat, Poultry, Pasteurized Egg, and Siluriformes (Fish) Products and Carcass and Environmental Sponges (TM MICR 124-50)
MLG 41	Isolation and Identification of <i>Campylobacter jejuni/coli/lari</i> from Poultry Rinse, Sponge and Raw Product Samples (TM MICR 204-50)
TM MICR 076-50	Enumeration of Yeasts and Molds - Pour Plate and Spread Plate Method (USP 2021 Modified)
TM MICR 076-50	Enumeration of Yeasts and Molds - Pour Plate and Spread Plate Method (MFHPB-22 Modified)
TM MICR 086-50	Heterotrophic Plate Count (Aerobic Plate Count) and Anaerobic Plate Count-Pour Plate Method (USP 2021 Modified)
TM MICR 086-50	Heterotrophic Plate Count (Aerobic Plate Count) and Anaerobic Plate Count - Pour Plate Method (MFHPB-18 Modified)
TM MICR 136-50	Test for Absence of <i>Salmonella</i> Species by USP Methodology (USP 2022 Modified)
TM MICR 137-50	Test for Absence of <i>Escherichia coli</i> by USP Methodology (USP 2022 Modified)
TM MICR 138-50	Test for <i>Pseudomonas aeruginosa</i> by USP Methodology (USP 61 Modified)
TM MICR 139-50	Test for Absence of <i>Staphylococcus aureus</i> by USP Methodology (USP 2022 Modified)

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental

Oil

(PCB - Oil)

TM PCB 004-50	Analysis of Polychlorinated Biphenyls (PCBs as Aroclors) by GC/ECD (EPA 3580/8082 Modified)
	Aroclor 1016
	Aroclor 1221
	Aroclor 1232
	Aroclor 1242
	Aroclor 1248
	Aroclor 1254
	Aroclor 1260
	Aroclor 1262
	Aroclor 1268
	Total PCB

Soil/Sediment

(Alcohols - Soil)

TM ALC 001-50	Alcohols by Capillary Gas Chromatograph (EPA 8015 Modified)
	1-Butanol
	2-Butanol
	Ethanol
	Methanol
	2-Methyl-1-Propanol (Isobutanol)
	2-Methyl-2-Propanol (tert-Butyl alcohol)
	1-Pentanol (Pentanol)
	1-Propanol (Propanol)
	2-Propanol (Isopropanol)

(Acid Herbicides - Soil)

TM PEST 006-50	Acid Herbicides by HPLC/MSD (EPA 555/8321 Modified)
	Bromoxynil
	Clopyralid
	Dicamba
	2,4-Dichlorophenoxyacetic acid (2,4-D)
	2,4-Dichlorophenoxybutyric acid (2,4-DB)
	Dichloroprop
	Dinoseb
	Imazapyr
	MCPA
	MCPB
	Mecoprop (MCP)
	Picloram

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP)

(Amines and Glycols - Soil)

TM GLY 001-50 Glycol Analysis by HPLC/MSD (EPA 8321 Modified)
Diethylene glycol
Ethylene glycol
Propylene glycol
Tetraethylene glycol
Triethylene glycol

TM SULF 001-50 Sulfolane, Diisopropanolamine, and other Alkanoamines by HPLC/MSD
(EPA 8321 Modified)
Diethanolamine
Diisopropanolamine
Ethanolamine
Methyldiethanolamine
Sulfolane
Triethanolamine

(BTEX/Petroleum Hydrocarbons (PHCs) - Soil)

TM BTX 005-50 Analysis of C6-C16 Compounds, F1, and F2 by Headspace GC/MS/FID
(EPA 5021/EPA 8260/CCME-CWS-PHCS-TIER 1 Modified/B.C.
Environmental Lab Manual, VH Solids Modified)
Benzene
Ethylbenzene
F1: C6-C10
Hexane
Methyl tert-butyl ether (MTBE)
Styrene
Toluene
Volatile Petroleum Hydrocarbons (VPH)
m/p-Xylene
o-Xylene

(Carbamates - Soil)

TM PEST 007-50 Carbamates by HPLC/MSD (EPA 8318 Modified)
Aldicarb
Bendiocarb
Carbaryl
Carbofuran
Propoxur (Baygon)

(Coliforms - Soil, Sludges)

TM MICR 070-50 Enumeration of Coliforms, Faecal Coliforms and of *E. coli* Using the MPN Method (APHA 9221 B, E, F Modified)
Escherichia coli (*E. coli*)
Fecal Coliforms
Total Coliforms

(Neutral Herbicides - Soil - included in the Multiresidue Pesticides)

TM PEST 012-50 Pesticides by GC/MSD (EPA 8081 Modified)
Alachlor
Butylate
Chloroprotham
Dicofop-methyl
EPTC (Eptam)
Hexazinone
Metolachlor
Metribuzin
Prometon
Prometryn
Pronamide (Propyzamide)
Propazine
Triallate
Trifluralin

(Organo-chloride Pesticides - Soil - included in the Multiresidue Pesticides)

TM PEST 012-50 Pesticides by GC/MSD (EPA 8081 Modified)
Aldrin
alpha-BHC
beta-BHC
gamma-BHC (Lindane)
alpha-Chlordane
gamma-Chlordane
Chlorothalonil
2,4'-DDD
4,4'-DDD
2,4'-DDE
4,4'-DDE
2,4'-DDT
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Heptachlor

Heptachlor epoxide
Methoxychlor
Mirex
cis-Permethrin
trans-Permethrin
Propachlor

(Organo-phosphorus Pesticides - Soil - included in the Multiresidue Pesticides)

TM PEST 012-50 Pesticides by GC/MSD (EPA 8141 Modified)
Azinphos-methyl
Chlorpyrifos
Diazinon
Dimethoate
Malathion
Parathion
Phorate
Terbufos

(PAH - Soil)

TM PAH 004-50 Analysis of Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS &
GC/MS-MS (EPA 3540/8270 Modified/B.C. Environmental Lab Manual,
PAH Solids Modified)
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(j)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-c,d)pyrene
1-Methylnaphthalene
2-Methylnaphthalene
Naphthalene
Phenanthrene
Pyrene
Quinoline

(PCB - Soil)

TM PCB 004-50 Analysis of Polychlorinated Biphenyls (PCBs) as Aroclors's by GC/ECD (EPA 3540/8082 Modified)
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

(Petroleum Hydrocarbons (PHCs) - Soil)

CCME-CWS-PHCS-TIER 1 Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1 Method (TM CCME 004-50 Benchmark Method)
F2: C10-C16
F3: C16-C34
F4: C34-C50
F4G: Gravimetric Heavy Hydrocarbons
F4HTGC: C34+ Hydrocarbons (or >C34)

(Petroleum Hydrocarbons (PHCs) - Soil/Sediment)

TM CCME 004-50 Alternative Method Extractable Hydrocarbons in Water and CCME/BCMELP Hydrocarbons in Soil (Benchmark and Alternative Method) by GC/FID (CCME-CWS-PHCS-TIER 1 Modified/B.C. Environmental Lab Manual, EPH Solids Modified)
F2: C10-C16
F3: C16-C34
F4: C34-C50
F4HTGC: C34+ Hydrocarbons (or >C34)
Extractable Petroleum Hydrocarbons (EPH) C10-C19
Extractable Petroleum Hydrocarbons (EPH) C19-C32
Light Extractable Petroleum Hydrocarbons (LEPH)
Heavy Extractable Petroleum Hydrocarbons (HEPH)
SASK C11-C22
SASK C23-C60
SASK Total (C11-C60)
TEH (C11-C40+)

(Phenols - Soil)

TM PCP 003-50 Analysis of Chlorinated Phenolics by In Situ Acetylation and GC/MS (EPA 3650/1653/3510/8041 Modified)

2-Chlorophenol
3-Chlorophenol
4-Chloro-3-methylphenol
4-Chlorophenol
2,3-Dichlorophenol
2,4 & 2,5-Dichlorophenol
2,6-Dichlorophenol
3,4-Dichlorophenol
3,5-Dichlorophenol
Pentachlorophenol
2,3,4,5-Tetrachlorophenol
2,3,4,6-Tetrachlorophenol
2,3,5,6-Tetrachlorophenol
2,3,4-Trichlorophenol
2,3,5-Trichlorophenol
2,3,6-Trichlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
3,4,5-Trichlorophenol

(Sterilants - Soil)

TM PEST 004-50 Sterilant Scan by HPLC/MSD (AENV A119.0 Modified)
Atrazine
Bromacil
Cyanazine
Desethylatrazine
Desisopropylatrazine
Didesalkylatrazine
Diuron
Linuron
Metoxuron
Simazine
Tebuthiuron

Waste

(BTEX - Waste)

TM BTEX 005-50; WI Analysis of C6-C16 Compounds, F1, and F2 by Headspace
TCLP 002-50 GC/MSD/FID (EPA 1311/8260 Modified)
Leachable Benzene
Leachable Ethylbenzene
Leachable Toluene
Leachable Xylenes

(VOC - Soil and Waste)

Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Column Technique (EPA 5035/8260 Modified)

Acetone (2-Propanone)
Acetonitrile
Acrylonitrile
Allyl chloride
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
2-Butanone (MEK)
n-Butylbenzene
sec-Butylbenzene
tert-Butylbenzene
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethyl vinyl ether
Chloroform (Trichloromethane)
Chloromethane
2-Chlorotoluene
4-Chlorotoluene
1,2-Dibromo-3-chloropropane
Dibromochloromethane
1,2-Dibromoethane (Ethylene dibromide)
Dibromomethane
cis-1,4-Dichloro-2-butene
trans-1,4-Dichloro-2-butene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene (1,1-Dichloroethylene)
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)
Dichloromethane (Methylene chloride)
1,2-Dichloropropane
1,3-Dichloropropane
2,2-Dichloropropane

1,1-Dichloropropene
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Ethyl methacrylate
Ethylbenzene
Hexachlorobutadiene
Hexachloroethane
2-Hexanone
Iodomethane
Isopropylbenzene
p-Isopropyltoluene
Methacrylonitrile
Methyl methacrylate
Methyl tertiary-butyl ether (MTBE)
4-Methyl-2-pentanone (MIBK)
Naphthalene
Pentachloroethane
Propionitrile
n-Propylbenzene
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethene (Tetrachloroethylene)
Toluene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene (Trichloroethylene)
Trichlorofluoromethane
1,2,3-Trichloropropane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
m/p-Xylene
o-Xylene

Water (Microbiology)

(*Pseudomonas aeruginosa* - Water)

APHA 9213 E *Pseudomonas aeruginosa* - Membrane Filtration Method (TM MICR 100-50)
Pseudomonas aeruginosa

(Coliforms - Water - COLILERT)

APHA 9223 B Enzyme Substrate Coliform Test (TM MICR 068-050)
Escherichia coli (*E. coli*)
Fecal Coliforms
Total Coliforms

(Coliforms - Water - Membrane Filtration)

APHA 9222 B, D, I Membrane Filtration Technique for Members of the Coliform Group (TM
MICR 092-50)
Escherichia coli (*E. coli*)
Fecal Coliforms
Total Coliforms

(Coliforms - Water - MPN)

TM MICR 070-50 Enumeration of Coliforms, Faecal Coliforms and of *E. coli* Using the MPN
Method (APHA 9221 B, E , F Modified)
Escherichia coli (*E. coli*)
Fecal Coliforms
Total Coliforms

(Heterotrophic Plate Count - Water - Pour Plate)

APHA 9215 B Heterotrophic Plate Count (Aerobic Plate Count) and Anaerobic Plate
Count - Pour Plate Method (TM MICR 086-50)

(Iron Related Bacteria - Water)

IRB-BART Iron Related Bacteria - BART Method (TM MICR 095-50)
Biodetection Kit,
Droycon Bioconcepts
Inc.

(Sulfate Reducing Bacteria - Water)

SRB-BART Sulphate Reducing Bacteria Test - BART Method (TM MICR 203-50)
Biodetection Kit,
Droycon Bioconcepts
Inc.

Water (Organic)

(Alcohols-Water)

TM ALC 001-50 Alcohols by Capillary Gas Chromatograph (EPA 8015 Modified)
1-Butanol
2-Butanol

Ethanol
Methanol
2-Methyl-1-propanol (Isobutanol)
2-Methyl-2-propanol (tert-Butyl alcohol)
1-Pentanol (Pentanol)
1-Propanol (Propanol)
2-Propanol (Isopropanol)

(Acid Herbicides - Water)

TM PEST 006-50 Acid Herbicides by HPLC/MSD (EPA 555/8321 Modified)
Bromoxynil
Clopyralid
Dicamba
2,4-Dichlorophenoxyacetic acid (2,4-D)
2,4-Dichlorophenoxybutyric acid (2,4-DB)
Dichloroprop
Dinoseb
Imazapyr
MCPA
MCPB
Mecoprop (MCPP)
Picloram
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP)

(Amines and Glycols - Water)

TM GLY 001-50 Glycol Analysis by HPLC/MSD (EPA 8321 Modified)
Diethylene glycol
Ethylene glycol
Propylene glycol
Tetraethylene glycol
Triethylene glycol

TM SULF 001-50 Sulfolane, Diisopropanolamine, and other Alkanoamines by HPLC/MSD
(EPA 8321 Modified)
Diethanolamine
Diisopropanolamine
Ethanolamine
Methyldiethanolamine
Sulfolane
Triethanolamine

(BTEX/Petroleum Hydrocarbons (PHCs) - Water)

TM BTX 005-50 Analysis of C6-C16 Compounds, F1, and F2 by Headspace GC/MS/FID (EPA 5021/8260 Modified/B.C. Environmental Lab Manual, VH Water Modified)
Benzene
Ethylbenzene
F1: C6-C10
F2: C10-C16
Hexane
Methyl t-butyl ether (MTBE)
Styrene
Toluene
Volatile Petroleum Hydrocarbons
m/p-Xylene
o-Xylene

(Carbamates - Water)

TM PEST 007-50 Carbamates by HPLC/MSD (EPA 8318 Modified)
Aldicarb
Bendiocarb
Carbaryl
Carbofuran
Propoxur (Baygon)

(Glyphosates - Water)

TM PEST 011-50 Glyphosates by HPLC/MSD (EPA 8321 Modified)
Glyphosate

(Haloacetic Acids - Water)

EPA Method 552.3 Determination of Haloacetic Acids in Water by Liquid-Liquid Micro Extraction, Methylation, and GC/ECD (TM HAA 001-50)
Monobromoacetic acid (MBAA)
Monochloroacetic acid (MCAA)
Bromochloroacetic acid (BCAA)
Dibromoacetic acid (DBAA)
Dichloroacetic acid (DCAA)
Trichloroacetic acid (TCAA)

(Microcystins - Water)

EnviroLogix Microcystins Analysis by ELISA Method (TM ELI 001-50)
QuantiPlate Kit for
Microcystins

(Naphthenic Acids - Water)

TM NAS 001-50 Acid-Extractable Organics (Naphthenic Acids) in Water by FTIR (Scott et al. Chemosphere 73 (2008) 1258-1264/ doi:10.1016/j.scitotenv.2010.08.013 Modified)
Naphthenic Acid

(Neutral Herbicides - Water)

TM PEST 012-50 Pesticides by GC/MSD (EPA 8081 Modified)
Alachlor
Butylate
Chloroprotham
Diclofop-methyl
EPTC
Hexazinone
Metolachlor
Metribuzin
Prometon
Prometryn
Pronamide (Propyzamide)
Propazine
Triallate
Trifluralin

(Organo-chlorine Pesticides - Water - included in the Multiresidue Pesticides)

TM PEST 012-50 Pesticides by GC/MSD (EPA 8081 Modified)
Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
alpha-Chlordane
gamma-Chlordane
Chlorothalonil
2,4'-DDD
4,4'-DDD
2,4'-DDE
4,4'-DDE
2,4'-DDT
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Heptachlor

Heptachlor epoxide
Methoxychlor
Mirex
cis-Permethrin
trans-Permethrin
Propachlor

(Organo-phosphorus Pesticides - Water - included in the Multiresidue Pesticides)

TM PEST 012-50 Pesticides by GC/MSD (EPA 8141 Modified)
Azinphos-methyl
Chlorpyrifos
Diazinon
Dimethoate
Malathion
Parathion
Phorate
Terbufos

(PAH - Water)

TM PAH 004-50 Analysis of Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS &
GC/MS-MS (EPA 3510/8270 Modified/B.C. Environmental Lab Manual,
PAH Water Modified)
Acenaphthene
Acenaphthylene
Acridine
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(j)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-c,d)pyrene
1-Methylnaphthalene
2-Methylnaphthalene
Naphthalene
Phenanthrene
Pyrene
Quinoline

(PCB - Water)

TM PCB 004-50 Analysis of Polychlorinated Biphenyls (PCBs as Aroclors) by GC/ECD
(EPA 3150/8082 Modified)
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

(Petroleum Hydrocarbons (PHCs) - Water)

TM CCME 004-50 Extractable Hydrocarbons in Water and CCME/BCMELP Hydrocarbons
in Soil (Benchmark and Alternative Method) by GC/FID (EPA
3510/CCME-CWS-PHCS-TIER 1 Modified/BC Environmental Lab
Manual, EPH Water Modified)
F2: C10-C16
F3: C16-C34
F3+: C34+
F4: C34-C50
Extractable Petroleum Hydrocarbons (EPH) C10-C19
Extractable Petroleum Hydrocarbons (EPH) C19-C32
Light Extractable Petroleum Hydrocarbons (LEPH)
Heavy Extractable Petroleum Hydrocarbons (HEPH)

(Phenols - Water)

TM PCP 003-50 Analysis of Chlorinated Phenolics by In Situ Acetylation and GC/MS
(EPA 1653/8041 Modified)
2-Chlorophenol
3-Chlorophenol
4-Chloro-3-methylphenol
4-Chlorophenol
2,3-Dichlorophenol
2,4 & 2,5-Dichlorophenol
2,6-Dichlorophenol
3,4-Dichlorophenol
3,5-Dichlorophenol
Pentachlorophenol
2,3,4,5-Tetrachlorophenol
2,3,4,6-Tetrachlorophenol
2,3,5,6-Tetrachlorophenol
2,3,4-Trichlorophenol

2,3,5-Trichlorophenol
2,3,6-Trichlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
3,4,5-Trichlorophenol

(Sterilants - Water)

TM PEST 004-50 Sterilant Scan by HPLC/MSD (AENV A119.0 Modified)
Atrazine
Bromacil
Cyanazine
Desethylatrazine
Desisopropylatrazine
Didesalkylatrazine
Diuron
Linuron
Metoxuron
Simazine
Tebuthiuron

(VOC - Water)

TM VOC 003-50 Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Column Technique (EPA 5030/8260 Modified)
Acetone (2-Propanone)
Acetonitrile
Acrylonitrile
Allyl chloride
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
2-Butanone (MEK)
n-Butylbenzene
sec-Butylbenzene
tert-Butylbenzene
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethyl vinyl ether
Chloroform (Trichloromethane)

Chloromethane
2-Chlorotoluene
4-Chlorotoluene
1,2-Dibromo-3-chloropropane
Dibromochloromethane
1,2-Dibromoethane (Ethylene dibromide)
Dibromomethane
cis-1,4-Dichloro-2-butene
trans-1,4-Dichloro-2-butene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene (1,1-Dichloroethylene)
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)
Dichloromethane (Methylene chloride)
1,2-Dichloropropane
1,3-Dichloropropane
2,2-Dichloropropane
1,1-Dichloropropene
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Ethyl methacrylate
Ethylbenzene
Hexachlorobutadiene
Hexachloroethane
2-Hexanone
Iodomethane
Isopropyl benzene
p-Isopropyltoluene
Methacrylonitrile
Methyl Methacrylate
Methyl tertiary-butyl ether (MTBE)
4-Methyl-2-pentanone (MIBK)
Naphthalene
Pentachloroethane
Propionitrile
n-Propylbenzene
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethene (Tetrachloroethylene)
Toluene
1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene (Trichloroethylene)
Trichlorofluoromethane
1,2,3-Trichloropropane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
m/p-Xylene
o-Xylene

Number of Scope Listings: 72

Notes:

ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories

AENV: Alberta Environment

AOAC: Association of Official Analytical Chemist

APHA: American Public Health Association, Standard Methods for the Examination of Water and Wastewater

APHA Foods: American Public Health Association, Compendium of Methods for Microbiological Examination of Foods

CCME-CWS-PHCS Tier 1: Canadian Council of Ministers of the Environment, Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil - Tier 1

CFIA FLS: Canadian Food Inspection Agency - Food Laboratory Services

EPA: Environmental Protection Agency

JAOAC: Journal of the Association of Official Analytical Chemists

MFHPB and MFLP: Compendium of Analytical Methods; HPB Methods of Microbiological Analysis of Foods, Health Protection Branch, Health Canada

MLG: USDA/FSIS: Microbiology Laboratory Guidebook

USP: United States Pharmacopeia

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