



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 2694
Laboratory Name: CARO Analytical Services - Richmond
Parent Institution: CARO Analytical Services
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: January 27, 2021
Valid To: September 10, 2022

Scope of Accreditation

Air (Organic)

Volatile Organic Compounds (VOC) - Air [TD Tube] (034)
CR-TM-056; BC MOE LABORATORY MANUAL and EPA TO-17
GC/MS-THERMAL DESORPTION

- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1,1-Trichloroethane
- 1,1,1,2-Tetrachloroethane
- 1,1,2-Trichloro-1,2,2-trifluoroethane (CFC 113)
- 1,1,2-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2-Dibromo-3-chloropropane (DBCP)
- 1,2-Dibromoethane (Ethylene dibromide)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3-Butadiene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane

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1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Butanone (Methyl ethyl ketone, MEK)
2-Chlorophenol
2-Chlorotoluene
2-Propanol (Isopropyl alcohol)
4-Methyl-2-pentanone (MIBK)
Acetone (2-Propanone)
Acrylonitrile
Allyl chloride (3-chloropropene)
Benzene
Bromobenzene
Bromodichloromethane
Bromoform
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Dichloromethane (Methylene Chloride)
Ethyl acetate
Ethyl ether
Ethyl methacrylate
Ethylbenzene
Hexachlorobutadiene
Hexachloroethane
Isopropylbenzene (Cumene)
m,p-Xylene
Methacrylonitrile
Methyl acrylate
Methyl methacrylate
Methyl tert-butyl ether (MTBE)
Methylcyclohexane
n-Decane
n-Hexane
Naphthalene
Nitrobenzene
o-Xylene

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Styrene
Tetrachloroethylene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Volatile Hydrocarbons (VH): C6-C13

Cannabis (Inorganic)

Heavy Metals - Cannabis [Cannabis Oil, Flower] (154)

CR-TM-167; modified from EPA 200.3

ICP/MS

Arsenic
Cadmium
Lead
Mercury

Cannabis (Organic)

Cannabinoids - Cannabis [Cannabis Oil, Flower] (Burnaby) (147)

CR-TM-161;

HPLC

Cannabidiol (CBD)
Cannabidiol (CBD)
Cannabidiolic acid (CBDA)
Cannabidiolic acid (CBDA)
delta-9-Tetrahydrocannabinol (delta-9-THC)
Tetrahydrocannabinolic acid (THCA)
Tetrahydrocannabinolic acid (THCA)
Tetrahydrocannabinol (THC)

Cannabis (Organic)

Mycotoxins - Cannabis [Cannabis Oil, Flower] (Burnaby) (143)

CR-TM-156, CR-TM-166; modified from USP 561

LC/MS/MS

Aflatoxin B1
Aflatoxin B2
Aflatoxin G1
Aflatoxin G2
Ochratoxin A

Cannabis (Organic)

Pesticides - Cannabis [Cannabis Oil, Flower] (Burnaby) (151)

CR-TM-160;

LC/MS/MS

Abamectin
Acephate
Acequinocyl
Acetamiprid

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Aldicarb
Allethrin
Azadirachtin
Azoxyastrobin
Benzovindiflupyr
Bifenazate
Bifenthrin
Boscalid
Buprofezin
Carbaryl
Carbofuran
Chlorantraniliprole
Chlorphenapyr
Chlorpyrifos
Clofentezine
Clothianidin
Coumaphos
Cyantraniliprole
Cyfluthrin
Cypermethrin
Cyprodinil
Daminozide
Deltamethrin
Diazinon
Dichlorvos (DDVP)
Dimethoate
Dinotefuran
Dodemorph
Ethoprophos
Etofenprox
Etoxazole
Fenoxycarb
Fenpyroximate
Fensulfothion
Fenthion
Flonicamid
Fluopyram
Hexythiazox
Imazalil
Imidacloprid
Iprodione
Kinoprene (Enstar)
Kresoxim-methyl
Malathion

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Metalaxyl
Methiocarb
Methomyl
Methoprene
Methyl parathion
Mevinphos (Phosdrin)
MGK-264
Myclobutanil
Naled (Dibrom)
Novaluron
Oxamyl
Paclobutrazol
Permethrin
Phenothrin
Phosmet (Imidan)
Piperonyl butoxide
Pirimicarb
Prallethrin
Propiconazole
Propoxur (Baygon)
Pyraclostrobin
Pyrethrins
Pyridaben
Resmethrin
Spinetoram
Spinosad
Spirodiclofen
Spiromesifen
Spirotetramat
Spiroxamine
Tebuconazole
Tebufenozide
Teflubenzuron
Tetrachlorvinphos
Tetramethrin
Thiacloprid
Thiamethoxam
Thiophanate-methyl
Trifloxystrobin

Cannabis (Organic)

Pesticides - Cannabis [Cannabis Oil, Flower] (Burnaby) (152)

CR-TM-160;

GC/MS/MS

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

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Endosulfan Sulfate
Etridiazole
Fenvalerate
Fipronil
Fipronil
Fludioxonil
Fludioxonil
Pentachloronitrobenzene (Quintozene)

Cannabis (Organic)

Residual Solvents - Cannabis [Cannabis Oil] (Burnaby) (141)
CR-TM-162; modified from USP 467

GC/MS-HEADSPACE

1-Butanol (n-Butanol)
1-Pentanol
1-Propanol (Propanol)
2-Butanol
2-Butanone (Methyl ethyl ketone, MEK)
2-Propanol (Isopropyl alcohol)
4-Methyl-2-pentanone (MIBK)
Acetone (2-Propanone)
Anisole
Butyl acetate
Ethanol
Ethyl acetate
Ethyl ether
Ethyl formate
Heptane
Isobutanol (2-Methyl-1-propanol)
Isobutyl acetate
Isopropyl acetate
Methyl acetate
Pentane
Propyl acetate
Tert-Butylmethyl ether

Food

NSAIDS, Steroids, Hormones and - Food [Animal Tissue, Egg] (Burnaby) (110)
CR-TM-127; CVDR-M-3034

LC/MS/MS

17a-Trenbolone
17b-Trenbolone
19-Nortestosterone
20-Dihydroprednisolone
20-Dihydroprednisone
Acepromazine
Altrenogest

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Azaperol
Azaperone
Beclomethasone
Betamethasone
Boldenone
Butorphanol
Carazolol
Chlorpromazine
Detomidine
Dexamethasone
Dianabol (Methandrostenolone)
Diclofenac
Epitestosterone
Epitestosterone
Etodolac
Flumethasone
Flunixin
Haloperidol
Ketoprofen
Mefenamic acid
Meloxicam
Methylprednisolone
Naproxen
Niflumic Acid
Oxyphenbutazone
Phenylbutazone
Prednisolone
Prednisone
Progesterone
Propionylpromazine
Testosterone
Tolfenamic acid
Xylazine

Food (Inorganic)

Metals - Food [Fruit, Honey, Processed Food, Vegetables] (097)

CR-TM-088 (ANALYSIS), CR-TM-112 (PREP); EPA 200.3 (PREPARATION) and EPA 6020 (ANALYSIS)
ICP/MS

Aluminum
Antimony
Arsenic
Beryllium
Boron
Cadmium
Chromium
Copper

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Iron
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Selenium
Tin
Titanium
Zinc

Food (Organic)

4-Methylimidazole - Food [Beverage] (Burnaby) (130)
CR-TM-146; modified from CFIA LCAQ-117-04
LC/MS/MS
4-Methylimidazole

Food (Organic)

Aflatoxins - Food [Cereal] (Burnaby) (132)
CR-TM-151; CFIA BFCL-002
LC/MS/MS
Aflatoxin B1
Aflatoxin B2
Aflatoxin G1
Aflatoxin G2

Food (Organic)

Alar - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (077)
CR-TM-092; PMRA: P-RE-057-97(1) - AMO
GC/MS
Alar (Daminozide)

Food (Organic)

Aminoglycosides - Food [Animal Tissue, Egg, Honey] (Burnaby) (088)
CR-TM-103; CFIA CALGARY ACC-078-V1.1
LC/MS/MS
Amikacin
Apramycin
Dihydrostreptomycin
Gentamycin
Hygromycin B
Kanamycin A
Kanamycin B
Neomycin
Spectinomycin
Streptomycin
Tobramycin

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Food (Organic)

Amitraz - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (078)

CR-TM-093; modified from CFIA CALGARY CSP-006-V1.0

LC/MS/MS

Amitraz + 2,4-Dimethylaniline

Food (Organic)

Antibiotics - Food [Animal Tissue, Egg, Honey] (Burnaby) (103)

CR-TM-106; CENTER FOR VETERINARY MEDICINE, US FDA, VOLUME 56: J. ARGIC. FOOD CHEM 1553

-1559, 2008

LC/MS/MS

Chloramphenicol

Chlortetracycline (CTC)

Ciprofloxacin

Danofloxacin

Desmycosin

Difloxacin

Doxycycline

Enrofloxacin

Erythromycin

Fumagillin

Lincomycin

Monensin

Oxytetracycline (OTC)

Sarafloxacin

Streptomycin

Sulfathiazole

Tetracycline

Tylosin

Food (Organic)

Bacitracin - Food [Animal Tissue, Egg] (Burnaby) (128)

CR-TM-143; modified from CFIA BAC-SP01

LC/MS/MS

Bacitracin

Food (Organic)

Benzimidazoles - Food [Animal Tissue, Egg] (Burnaby) (113)

CR-TM-130; modified from FSIS BNZ

LC/MS/MS

5-Hydroxy-thiabendazole

Albendazole

Albendazole sulfoxide

Albendazole sulphone

Albendazole-2-aminosulphone

Cambendazole

Carbendazim

Fenbendazole

Fenbendazole sulfone (Meat)

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Flubendazole
Levamisole
Mebendazole
Oxfendazole
Oxibendazole
Thiabendazole

Food (Organic)

Beta-Agonists - Food [Animal Tissue, Egg] (Burnaby) (156)
CR-TM-153; CFIA CVDR-M-3033.01
LC/MS/MS

Brombuterol hydrochloride
Cimaterol
Clenbuterol hydrochloride
Clenpenterol hydrochloride
Clenpropanol
Fenoterol hydrobromide
Formoterol fumarate dihydrate
Hydroxymethyl clenbuterol
Isoxspine hydrochloride
Mabuterol
Mapenterol hydrochloride
Metaproterenol hemisulphate
Ractopamine hydrochloride
Ritodrine hydrochloride
Salbutamol
Terbutaline hemisulphate
Tulobuterol hydrochloride
Zilpaterol

Food (Organic)

Carbadox - Food [Animal Tissue] (Burnaby) (157)
CR-TM-154; CFIA CVDR-M-3015.06
LC/MS/MS

1,4 Bis-desoxycarbadox (DCBX)
3-Methylquinoxaline-2-carboxylic acid (MQCA)
Quinoxaline-2-carboxylic acid (QCA)

Food (Organic)

Carbamates - Food [Animal Tissue, Egg] (Burnaby) (129)
CR-TM-144; modified from CLG-PST5.07
LC/MS/MS

3-Hydroxycarbofuran
Aldicarb
Aldicarb sulfone
Aldicarb sulfoxide
Bendiocarb
Carbaryl

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Dioxacarb
Isoprocarb
Methiocarb
Methiocarb sulfoxide
Methomyl
Oxamyl
Promecarb
Propoxur (Baygon)

Food (Organic)

Carbamates - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (102)

CR-TM-098; CFIA CALGARY PMR-016-V1.0

LC/MS/MS

3-Hydroxycarbofuran
Aldicarb
Aldicarb sulfone
Aldicarb sulfoxide
Aminocarb
Bendiocarb
Carbaryl
Carbofuran
Dioxacarb
Methiocarb
Methiocarb sulfoxide
Methomyl
Oxamyl
Promecarb
Propoxur (Baygon)

Food (Organic)

Coccidiostats - Food [Animal Tissue, Egg] (Burnaby) (109)

CR-TM-126; CVDR-M-1002

LC/MS/MS

Amprolium
Buquinolate
Clopidol
Decoquate
Diclazuril
DNC (Nicarbazin Metabolite)
Ethopabate
Fenbendazole
Halofuginone
Lasalocid
Maduramycin
Monensin
Narasin

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Ractopamine
Robenidine
Salinomycin
Toltrazuril sulfone

Food (Organic)

Dipyron - Food [Animal Tissue] (Burnaby) (120)
CR-TM-137; CLG-DPN1.00
HPLC/UV - EXTRACTION
4-(Methylamino)antipyrine
4-Aminoantipyrine (4-AAP)
4-Formylaminoantipyrine
Dipyron

Food (Organic)

Diquat and Paraquat - Food [Fruit, Processed Food, Vegetables] (Burnaby) (099)
CR-TM-115; EURL-SRM QUPPE - METHOD VERSION 9.1 May 2016
LC/MS/MS
Diquat
Paraquat

Food (Organic)

EBDC - Food [Fruit, Honey, Vegetables] (Burnaby) (079)
CR-TM-094; modified from PMRA: P-RE-053-95-EBDC
GC/MS
total dithiocarbamates as Zineb

Food (Organic)

EBDC - Food [Fruit, Honey, Vegetables] (Burnaby) (080)
CR-TM-095; CFIA CALGARY SPR-002 V2.6
HPLC
Ethylenediamine

Food (Organic)

Endectocides - Food [Animal Tissue, Egg] (Burnaby) (114)
CR-TM-131; CFIA SOM-DAR-CHE-030-03
LC/MS/MS
Abamectin
Doramectin
Emamectin
Eprinomectin
Ivermectin
Moxidectin

Food (Organic)

Ethylene thiourea - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (081)
CR-TM-096; EU REFERENCE LABORATORY OF PESTICIDES - EURL-SRM PESTICIDES IN FOODS OF PLANT ORIGIN (VERSION 9.1 MAY 2016)
LC/MS/MS
Ethylene thiourea

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Food (Organic)

Fluoroquinolones - Food [Animal Tissue, Egg] (Burnaby) (140)

CR-TM-101; CFIA MULTICLASS VET DRUG BY LC-MS/MS
LC/MS/MS

Ciprofloxacin
Danofloxacin
Desethylene Ciprofloxacin
Difloxacin
Enflurane
Enrofloxacin
Flumequine
Marbofloxacin
Nalidixic acid
Norfloxacin
Ofloxacin
Orbifloxacin
Oxolinic acid
Pipemidic acid
Sarafloxacin
Sparfloxacin

Food (Organic)

Fluoroquinolones - Food [Honey] (Burnaby) (086)

CR-TM-101; CFIA CALGARY ACC-080-V1.0
LC/MS/MS

Ciprofloxacin
Danofloxacin
Difloxacin
Enoxacin
Enrofloxacin
Flumequine
Marbofloxacin
Nalidixic acid
Norfloxacin
Ofloxacin
Orbifloxacin
Oxolinic acid
Pipemidic acid
Sarafloxacin
Sparfloxacin

Food (Organic)

Fumagillin - Food [Honey] (Burnaby) (087)

CR-TM-102; JOURNAL OF CHROMATOGRAPHY A, 1190 (2008) 224-231
LC/MS/MS

Fumagillin

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Food (Organic)

Furans - Food [Processed Food] (Burnaby) (133)

CR-TM-145; CONTAMINANTS, VOL. 27, NO.6, JUNE 2010 and FOOD ADDITIVE GC/MS

2-Methylfuran

3-Methylfuran

Furan

Food (Organic)

Gestagens - Food [Animal Tissue] (Burnaby) (119)

CR-TM-136; modified from CVDR-M-3016

LC/MS/MS

Chlormadinone acetate

Megestrol acetate

Melengestrol acetate

Food (Organic)

Glyphosate - Food [Fruit, Processed Food, Vegetables] (Burnaby) (084)

CR-TM-099; EU REFERENCE LABORATORY FOR PESTICIDES - EURL-SRM PESTICIDES IN FOODS OF PLANT ORIGIN (VERSION 9.1 May 2016)

LC/MS/MS

AMPA

Glufosinate

Glyphosate

Food (Organic)

Halofuginone - Food [Animal Tissue, Egg] (Burnaby) (117)

CR-TM-134; CVDR-M-3034

LC/MS/MS

Halofuginone

Food (Organic)

Ionophores - Food [Animal Tissue, Egg, Honey] (Burnaby) (089)

CR-TM-104; modified from CFIA IONTMS-SP01

LC/MS/MS

Lasalocid

Maduramycin

Monensin

Narasin

Salinomycin

Food (Organic)

Macrolides - Food [Animal Tissue, Egg, Honey] (Burnaby) (090)

CR-TM-105; CFIA CALGARY ACC-066-V3.0

LC/MS/MS

Clindamycin

Desmycosin (tylosin B)

Erythromycin

Gamithromycin

Josamycin

Lincomycin

Neospiramycin

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Oleandomycin
Pirlimycin
Spiramycin
Tildipirosin
Tilmicosin
Tulathromycin
Tylosin
Tylvalosin

Food (Organic)

Macrolides and Liincosamides - Food [Animal Tissue, Egg] (Burnaby) (139)
CR-TM-105; modified from CFIA MULTICLASS VET DRUG BY LC-MS/MS
LC/MS/MS

Clindamycin
Desmycosin
Erythromycin
Gamithromycin
Josamycin
Lincomycin
Neospiramycin
Oleandomycin
Pirlimycin
Spiramycin
Tildipirosin
Tilmicosin
Tulathromycin
Tylosin
Tylvalosin

Food (Organic)

Morantel and Pyrantel - Food [Animal Tissue, Egg] (Burnaby) (118)
CR-TM-135; FSIS MPT
GC/MS

N-methyl-1,3 propane diamine

Food (Organic)

Nitrofurans - Food [Animal Tissue, Egg, Honey] (Burnaby) (092)
CR-TM-107; CFIA CALGARY ACC-070-V1.4
LC/MS/MS

AHD
AMAZ
AOZ
SEM

Food (Organic)

Nitroimidazoles - Food [Animal Tissue, Egg, Honey] (Burnaby) (098)
CR-TM-114; JOURNAL OF AOAC INTERNATIONAL VOL 90, NO 3 PG.872-878
LC/MS/MS

Dimetridazole
Dimetridazole metabolite

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Ipronidazole
Ipronidazole metabolite
Metronidazole
Metronidazole metabolite
Ronidazole
Tinidazole

Food (Organic)

Penicillin Residues - Food [Animal Tissue, Egg, Honey] (Burnaby) (093)

CR-TM-108; CFIA CALGARY ACC-063-V1.0

LC/MS/MS

Amoxicillin

Ampicillin

Cloxacillin

Dicloxacillin

Nafcillin

Oxacillin

Penicillin G

Penicillin V

Food (Organic)

Pesticides - Food [Animal Tissue, Egg] (Burnaby) (125)

CR-TM-142; modified from CLG-PST5.07

GC/MS/MS

2,4'-DDD (o,p'-DDD)

2,4'-DDT (o,p'-DDT)

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

4,4'-DDT (p,p'-DDT)

Alachlor

Alachlor metabolite(2-chloro-2',6'-diethylanilide)

Aldrin

alpha-BHC

alpha-Chlordane

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)

Chlorpyrifos

cis-Permethrin

Cyfluthrin

Cyfluthrin

Dicofol

Dieldrin

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

Endosulfan Sulfate

Endrin

Fenclorophos (Ronnel)

Fenvalerate

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Flucythrinate
gamma-Chlordane
Heptachlor
Heptachlor Epoxide (endo)
Hexachlorobenzene
lambda-Cyhalothrin
Lindane (gamma-BHC)
Methoxychlor
Mirex
Myclobutanil
Oxychlordane
Tau-Fluvalinate
Tefluthrin
trans-Permethrin

Food (Organic)

Pesticides - Food [Animal Tissue, Egg] (Burnaby) (126)
CR-TM-142; modified from CLG-PST5.07

LC/MS/MS
3-Hydroxycarbofuran
Acephate
Acetamiprid
Benoxacor
Boscalid
Carbaryl
Carbofuran
Carfentrazone-ethyl
Clofentezine
Clothianidin
Difenoconazole
Diflubenzuron
Diuron
Fenoxaprop-ethyl
Fluridone
Imazalil
Imidacloprid
Indoxacarb
Methomyl
Methoxyfenozide
Pyraclostrobin
Pyriproxyfen
Tebufenozide
Thiabendazole
Thiamethoxam

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Food (Organic)

Pesticides - Food [Animal Tissue, Egg] (Burnaby) (127)

CR-TM-142; modified from CLG-PST5.07

GC/MS/MS

2,4'-DDD (o,p'-DDD)

2,4'-DDE (o,p'-DDE)

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

Alachlor

Aldrin

alpha-Chlordane

Atrazine

Azoxystrobin

Bifenthrin

Buprofezin

Carbaryl

Carbofuran

Carboxin (Carbathiin)

Chloroneb

Chlorpropham (CIPC)

Chlorpyrifos

Chlorpyrifos methyl (Reldan)

cis-Permethrin

Coumaphos O

Coumaphos S

Cyfluthrin

Cypermethrin

Cypermethrin

DDT-op DDT-pp

Deltamethrin

Deltamethrin

Desethyl atrazine

Dichlorvos (DDVP)

Dieldrin

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

Endosulfan Sulfate

Ethofumesate

Fenpropathrin

Fipronil

Fipronil desulfinyl

Fipronil sulfide

Flucythrinate

Fluroxypyr-1-methylheptyl ester

Fluvalinate

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gamma-Chlordane
Heptachlor
Hexazinone
lambda-Cyhalothrin
Linuron
Malathion
Metalaxyl
Metolachlor
Metribuzin
Mirex
Myclobutanil
Norflurazon
Oxychlordane
Permethrin
Piperonyl butoxide
Profenofos
Pronamide
Propachlor
Propanil
Propetamphos
Propiconazole
Pyridaben
Resmethrin
Simazine
Tau-Fluvalinate
Tebufenozide
Tefluthrin
Thiobencarb
trans-Nonachlor
trans-Permethrin
Trifloxystrobin

Food (Organic)

Pesticides - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (082)
CR-TM-097; CFIA CALGARY PMR-001-V1.11 and CFIA CALGARY PMR-002-V1.1
GC/MS

2-Phenylphenol (ortho-phenylphenol)
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)
Acephate
Acibenzolar-s-methyl
Alachlor

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Aldrin
Allethrin 1
Allethrin 2
Allidochlor
alpha-BHC
alpha-Chlordane
Ametryn
Aramite 1
Aramite 2
Aspon
Atrazine
Azinphos-ethyl
Azinphos-methyl (Guthion)
Azoxytobin
Benalaxyl
Benfluralin
Benodanil
Benzoylprop-ethyl
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)
BifenoX
Bifenthrin
Biphenyl (1,1-Biphenyl)
Bromacil
Bromophos-ethyl
Bromophos-methyl
Bromopropylate
Bupirimate
Buprofezin
Butachlor
Butralin
Butylate (Sutan)
Captafol
Captan
Carbetamide
Carbophenothion
Carboxin (Carbathiin)
Chlorbenside
Chlorbromuron
Chlorbufam
Chlordimeform
Chlorfenoson
Chlorfenvinphos (e + z)
Chlorflurenol-methyl
Chloridazon (Pyrazon)

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Chlormephos
Chlorobenzilate
Chloroneb
Chloropropylate
Chlorothalonil (Daconil)
Chlorpropham (CIPC)
Chlorpyrifos
Chlorpyrifos methyl (Reldan)
Chlorthiamid
Chlorthiamid (parent)
Chlorthion
Chlorthiophos
Chlozolate
cis-Diallate (Diallate I)
cis-Mevinphos
cis-Permethrin
Clomazone
Coumaphos
Crotoxyphos
Crufomate
Cyanazine
Cyanophos
Cycloate
Cyfluthrin I
Cyfluthrin I
Cyfluthrin II
Cyfluthrin III
Cypermethrin I
Cypermethrin II
Cypermethrin III
Cypermethrin IV
Cyprazine
Cyproconazole
Cyprodinil
Cyromazine
Dacthal (chlorthal-dimethyl)
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)
delta-trans-Allethrin
Deltamethrin
Demeton-O
Demeton-S
Demeton-S-methyl
Desethyl atrazine
Desmetryn

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Dialifos
Diazinon
Diazinon o analogue
Dichlobenil (Casoron)
Dichlofenthion
Dichlofluanid
Dichloran
Dichlormid
Dichlorvos (DDVP)
Diclobutrazole
Diclofop-methyl
Dicofol
Dicrotophos
Dieldrin
Diethyl-ethyl
Dimethachlor
Dimethoate
Dinitramine
Dioxathion
Diphenamid
Diphenylamine
Disulfoton (Disyston)
Disulfoton sulfone
Edifenphos
Endosulfan I (a-Endosulfan)
Endosulfan II (b-Endosulfan)
Endosulfan Sulfate
Endrin
Eptam (EPN)
Eptam (EPTC)
Erbon
Etaconazole 1
Etaconazole 2
Ethalfuralin
Ethion
Ethofumesate
Ethoprophos
Ethylan
Etridiazole
Etrimfos
Fenamiphos
Fenamiphos Sulfone
Fenamiphos Sulfoxide
Fenarimol

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Fenbuconazole
Fenchlorphos (Ronnell)
Fenfuram
Fenitrothion
Fenpropathrin
Fenson
Fensulfothion
Fenthion
Fenvalerate
Fenvalerate I
Fenvalerate II
Flamprop-isopropyl
Flamprop-methyl
Fluchloralin
Flucythrinate I
Flucythrinate II
Fludioxonil
Flumetralin
Fluorochloridone I
Fluorochloridone II
Fluorodifen
Flusilazole
Fluvalinate 1 (tau)
Fluvalinate 2 (tau)
Folpet
Fonofos
gamma-Chlordane
Heptachlor
Heptachlor Epoxide (endo)
Heptachlor epoxide - exo
Heptenophos (Heptanophos)
Hexachlorobenzene
Hexaconazole
Hexazinone
Imazalil
Iodofenphos
Iprobenfos
Iprodione I
Iprodione II
Isazophos
Isofenphos
Isopropalin
Isoprothiolane
Kresoxim-methyl

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lambda-Cyhalothrin
Leptophos
Lindane (gamma-BHC)
Linuron
Malaaxon
Malathion
Mecarbam
Metalaxyl
Metazachlor
Methamidophos
Methoprotryne
Methoxychlor
(Methyl PCP sulphide)
Methyl Pentachlorophenyl sulphide
Methyl trithion
Metobromuron
Metolachlor
Metribuzin
Mexacarbate (parent)
Mirex
Monocrotophos
Monolinuron
Myclobutanil
Naled (Dibrom)
Nitralin
Nitrapyrin
Nitrofen
Nitrothal-isopropyl
Norflurazon
Nuaimol
Ochthilinone
Omethoate
Oxadiazon
Oxadixyl
Oxycarboxin
Oxychlorane
Oxyfluorfen
Paraoxon
Parathion
Parathion-methyl
Pebulate
Penconazole
Pendimethalin
Pentachloroaniline

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Pentachloronitrobenzene (Quintozene)
Phenthoate
Phorate
Phorate sulfone
Phosalone
Phosmet (Imidan)
Phosphamidon
Piperonyl butoxide
Pirimicarb
Pirimiphos-ethyl
Pirimiphos-methyl
Prochloraz
Procymidone
Profenofos
Profluralin
Prometon
Prometryne
Pronamide
Propachlor
Propanil
Propargite (1&2)
Propazine
Propetamphos
Propham (IPC)
Propiconazole I
Propiconazole II
Prothiophos (Tokuthion)
Pyracarbolid
Pyrazophos
Pyridaben
Quinalphos
Quinomethionate
Schradan
Secbumeton
Simazine
Simetryn
Sulfallate
Sulfotep
Sulprophos (Bolstar)
TCMTB
Tebuconazole
Tecnazene
Terbacil
Terbufos

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Terbumeton
Terbutryn
Terbutylazine
Tetrachlorvinphos
Tetradifon
Tetraiodoethylene
Tetramethrin I
Tetramethrin II
Tetrasul
Thiobencarb
Tolclofos-methyl
Tolyfluanid
trans-Diallate (Diallate II)
trans-Mevinphos
trans-Permethrin
Triadimefon
Triadimenol 1 (Baytan)
Triadimenol 2 (Baytan)
Triallate
Triazophos
Tribufos
Tricyclazole
Trifloxystrobin
Triflumizole
Trifluralin
Vernolate
Vinclozolin

Food (Organic)

Pesticides - Food [Fruit, Honey, Processed Food, Vegetables] (Burnaby) (083)

CR-TM-098; CFIA CALGARY PMR-016-V1.0

LC/MS/MS

3-Hydroxycarbofuran
Abamectin B1a
Acetamiprid
Acetochlor
Aclonifen
Aldicarb
Aldicarb sulfone
Aldicarb sulfoxide
Aminocarb
Anilofos
Azaconazole
Bendiocarb
Benomyl
Benoxacor

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Bitertanol
Boscalid
Bromuconazole
Bufencarb
Butafenacil
Butocarboxim
Butocarboxim sulfoxide
Cadusafos
Carbaryl
Carbendazim
Carbetamide
Carbofuran
Carfentrazone-ethyl
Chlorantraniliprole
Chlorbromuron
Chloridazon (Pyrazon)
Chloridazon (Pyrazon)
Chlorimuron-ethyl
Chloroxuron
Chlortoluron
Clodinafop-propargyl
Cloquintocet-mexyl
Clothianidin
Cyanofenphos
Cyazofamid
Cycloxydim
Cycluron
Cyromazine
Demeton-s-methyl sulfone
Desmedipham
Dialifos
Diclocymet
Diethofencarb
Difenoconazole
Dimethametryn
Dimethomorph
Dimetilan
Dimoxystrobin
Diniconazole
Dioxacarb
Dipropetryn
Diuron
Dodemorph
Emamectin

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Epoxiconazole
Ethiofencarb
Ethiofencarb sulfone
Ethiofencarb sulfoxide
Ethiprole
Ethirimol
Ethoprofos
Etofenprox
Etoxazole
Fenamidone
Fenazaquin
Fenhexamid
Fenoxanil
Fenpropimorph
Fenpyroximate
Fentrazamide
Fluazifop-butyl
Flubendiamide
Flucarbazone-sodium
Fluoxastrobin
Flutolanil
Flutriafol
Forchlorfenuron
Formetanate
Fosthiazate
Fuberidazole
Furathiocarb
Griseofulvin
Haloxyfop
Imazamethabenz-methyl
Imazethapyr
Imidacloprid
Indoxacarb
Ipconazole
Iprovalicarb
Isocarbamide
Isoprocarb
Isoxadifen-ethyl
Isoxathion
Mandipropamid
Mepanipyrim
Mepanipyrim
Mephosfolan
Methabenzthiazuron

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Methidathion (Supracide)
Methiocarb
Methiocarb sulfone
Methiocarb sulfoxide
Methomyl
Methoxyfenozide
Metolcarb
Metosulam
Metoxuron
Mexacarbate
Molinate
Monocrotophos
Napropamide
Naptalam
Neburon
Nitenpyram
Ofurace
Oxadixyl
Oxamyl
Oxamyl oxime
Oxycarboxin
Oxydemeton-methyl
Paclobutrazol
Pencycuron
Penoxsulam
Picolinafen
Picoxystrobin
Piperophos
Pretilachlor
Primisulfuron-methyl
Prodiamine
Promecarb
Propamocarb
Prophos
Propoxur (Baygon)
Pymetrozine
Pyraclostrobin
Pyrflufen-ethyl
Pyridalyl
Pyridaphention
Pyridate
Pyrifenox
Pyrimethanil
Pyriproxyfen

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Pyroquilon
Pyroxsulam
Quinoxyfen
Quizalofop
Quizalofop-ethyl
Schradan
Simeconazole
Spinosad
Spinosyn A
Spinosyn D
Spirodiclofen
Spiromesifen
Spirotetramat
Spiroxamine
Sulfentrazone
Tebufenozide
Tebufenpyrad
Tebupirimfos
Tepaloxymid
Tetraconazole
Thiabendazole
Thiacloprid
Thiamethoxam
Thiazopyr
Thiodicarb
Thiofanox
Thiofanox sulfone
Thiofanox sulfoxide
Thiophanate-methyl
Tolfenpyrad
Tolyfluanid
Tralkoxydim
Trichlorfon
Tricyclazole
Trietazine
Trifloxysulfuron
Triforine
Trimethacarb
Zinophos
Zoxamide

Food (Organic)

Phenicol Residues - Food [Animal Tissue, Egg, Honey] (Burnaby) (094)
CR-TM-109; CFIA CALGARY ACC-062-V2.3
LC/MS/MS
Chloramphenicol

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Florfenicol
Thiamphenicol

Food (Organic)

Phenols - Food [Animal Tissue, Egg] (Burnaby) (124)
CR-TM-141; CVDR-PCP-SP08
GC/MS
2,3,4,5-Tetrachlorophenol
2,3,4,6-Tetrachlorophenol
2,3,5,6-Tetrachlorophenol
Pentachlorophenol

Food (Organic)

Phenoxy Acid Herbicides - Food [Fruit, Processed Food, Vegetables] (Burnaby) (085)
CB-TM-002; CRL - ACIDIC PESTICIDES BY QUECHERS (2007)
LC/MS/MS
2,4-Dichlorophenoxyacetic acid (2,4-D)
MCPA (2-Methyl-4-chlorophenoxyacetic acid)

Food (Organic)

Phenylbutazone - Food [Animal Tissue, Egg] (Burnaby) (115)
CR-TM-132; CVDR-M-3002
LC/MS/MS
Phenylbutazone

Food (Organic)

Sulfonamide - Food [Animal Tissue, Egg, Honey] (Burnaby) (095)
CR-TM-110; CFIA CALGARY ACC-056-V4.1
LC/MS/MS
Dapsone
Sulfabenzamide
Sulfacetamide
Sulfachloropyridazine
Sulfadiazine
Sulfadimethoxine
Sulfadoxine
Sulfaethoxypyridazine
Sulfaguanidine
Sulfamerazine
Sulfameter
Sulfamethazine
Sulfamethizole
Sulfamethoxazole
Sulfamethoxypyridazine
Sulfamonomethoxine
Sulfamoxole
Sulfanilamide
Sulfaphenazole
Sulfapyridine
Sulfaquinoxaline

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Sulfathiazole
Sulfisomidine
Sulfisoxazole
Trimethoprim

Food (Organic)

Tetracyclines - Food [Animal Tissue, Egg, Honey] (Burnaby) (096)
CR-TM-111; CFIA CALGARY ACC-042-V2.0

LC/MS/MS

4-Epioxytetracycline (EOTC)

4-Epioxytetracycline (EOTC)

4-Epitetracycline (ETC)

Chlortetracycline (CTC)

Doxycycline

Oxytetracycline (OTC)

Tetracycline

Food (Organic)

Thyreostats - Food [Animal Tissue, Egg] (Burnaby) (158)
CR-TM-155; CFIA CVDR-M-3003.05

LC/MS/MS

2-Mercaptobenzimidazole

2-Thiouracil

6-Methyl-2-thiouracil

6-Phenyl-2-thiouracil

6-Propyl-2-thiouracil

Tapazole

Food (Organic)

Tiamulin - Food [Animal Tissue, Egg] (Burnaby) (112)
CR-TM-129; CVDR-M-3031

LC/MS/MS

Tiamulin

Food (Organic)

Toltrazuril - Food [Animal Tissue, Egg] (Burnaby) (116)
CR-TM-133; CVDR-M-3031

LC/MS/MS

Toltrazuril sulfone

Food (Organic)

Trenbolone - Food [Animal Tissue, Egg] (Burnaby) (121)
CR-TM-138; modified from CVDR-M-3017

LC/MS/MS

alpha-Trenbolone

beta-Trenbolone

Food (Organic)

Virginiamycin M1 - Food [Animal Tissue, Egg] (Burnaby) (123)
CR-TM-140; modified from CVDR-M-VIRG-SP01

LC/MS/MS

Virginiamycin M1

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Soil (Organic)

Perfluorinated Alkyl Substances (PFAS) - Solids [Soil] (Burnaby) (137)

CB-TM-005; modified from ASTM D7968-17A

LC/MS/MS

Perfluorobutanoic acid (PFBA, Perfluorobutanoate)

Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)

Perfluorodecanoic acid (PFDA, Perfluorodecanoate)

Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)

Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)

Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)

Perfluorohexanesulfonate (PFHxS)

Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)

Perfluorononanoic acid (PFNA, Perfluorononanoate)

Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)

Perfluorooctanesulfonamide (PFOSA)

Perfluorooctanoic acid (PFOA, Perfluorooctanoate)

Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)

Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)

Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

Solids (Inorganic)

Chloride - Solids [Saturated Paste] (063)

CR-TM-006, CR-TM-075; modified from SM 4500-CL- D (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 (PREPARATION)

TITRIMETRIC - EXTRACTION

Chloride

Solids (Inorganic)

Flashpoint - Solids [Ash, Soil] (066)

CR-TM-084; ASTM D93-12B

PENSKY-MARTENS CLOSED CUP

Flashpoint

Solids (Inorganic)

Free Liquid - Solids [Soil] (075)

CR-TM-082; EPA 9095B

PRESENCE/ABSENCE

Free Liquid

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (046)

CR-TM-034; EPA 3060A (PREPARATION) and EPA 7196A (ANALYSIS)

COLORIMETRIC - ALKALINE DIGESTION

Hexavalent Chromium

Solids (Inorganic)

Hot Water Soluble Boron - Solids [Soil] (057)

CR-TM-076 (PREP), CR-TM-088 (ANALYSIS); SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 9.2 , EPA 6020A (PREPARATION)

ICP/MS - EXTRACTION

Boron (Hot Water Soluble)

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Solids (Inorganic)

Metals - Solids [Saturated Paste] (065)

CR-TM-075, CR-TM-088; EPA 6020A (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1 (PREPARATION)

ICP/MS - EXTRACTION

Boron

Calcium

Magnesium

Potassium

Sodium

Solids (Inorganic)

Metals - Solids [Soil] (049)

CR-TM-057 (EXTRACTION), CR-TM-088 (ANALYSIS); EPA 1311 (PREPARATION) and EPA 6020A (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic (Parameter suspended on 10/21/2020)

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Mercury

Nickel

Selenium

Silver

Thallium

Uranium

Vanadium

Zinc

Zirconium

Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (061)

CA-TM-005; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.3

HYDROMETER

Percent Clay

Percent Sand

Percent Silt

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Solids (Inorganic)

Particle Size Analysis (PSA) - Solids [Soil] (062)

CR-TM-081; modified from SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.4
GRAVIMETRIC - WET SIEVE

75um Sieve (No. 200)

Solids (Inorganic)

pH - Solids [Soil] (059)

CR-TM-018; SM 4500-H+ (ANALYSIS) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.2
(PREPARATION) and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 16.3 (PREPARATION)
AUTOMATED PH METER

pH (1:2) soil:CaCl2

pH (1:2) soil:water

Solids (Inorganic)

SALM Metals - Solids [Soil] (020)

CR-TM-088, CR-TM-119; BC MOE LABORATORY MANUAL, SALM V.2 (PREPARATION) and EPA 6020A
(ANALYSIS)

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Tellurium

Thallium

Thorium

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Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Solids (Organic)

Acid Herbicides - Solids [Soil] (053)
CR-TM-074; modified from EPA 8151A
GC/MS - EXTRACTION, DERIVATIZATION
2,4-Dichlorophenoxyacetic acid (2,4-D)
2,4-Dichlorophenoxybutyric acid (2,4-DB)
2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)
2,4,5-TP (Silvex)
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)
3,5-Dichlorobenzoic acid
Dicamba
Dinoseb
MCPA (2-Methyl-4-chlorophenoxyacetic acid)
MCPP (Mecoprop, Methylchlorophenoxypropionic acid)
Picloram

Solids (Organic)

BTEX - Solids [Soil] (068)
CR-TM-031, CR-TM-086; EPA 1311 (PREPARATION) and EPA 5030B (ANALYSIS) and EPA 8260C (ANALYSIS)
GC/MS - TCLP
Benzene
Ethylbenzene
m,p-Xylene
Naphthalene
o-Xylene
Toluene

Solids (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Solids [Soil] (017)
CR-TM-010; BC MOE LABORATORY MANUAL
GC/FID - EXTRACTION
EPH C10-C19 (sg)
EPH C19-C32 (sg)
Extractable Petroleum Hydrocarbons (EPH): C10-C19
Extractable Petroleum Hydrocarbons (EPH): C19-C32

Solids (Organic)

Glycols - Solids [Soil] (047)
CR-TM-054; modified from EPA 8015B
GC/FID - EXTRACTION
Diethylene glycol

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Ethylene glycol
Methanol
Propylene glycol
Sulfolane
Triethylene glycol

Solids (Organic)

Organochlorine (OC) and Organonitrogen (ON) and Organophosphorus (OP) Pesticides and Herbicides - Solids [Soil] (050)

CR-TM-073; modified from EPA 3570 (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - EXTRACTION

4,4'-DDD (p,p'-DDD)

4,4'-DDE (p,p'-DDE)

4,4'-DDT (p,p'-DDT)

Alachlor

Aldrin

alpha-BHC

alpha-Chlordane

Atrazine

Azinphos-methyl (Guthion)

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)

Bromacil

Bromoxynil

Captan

Chlorothalonil (Daconil)

Chlorpyrifos

cis-Permethrin

Cyanazine

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

Diazinon

Dichlorvos (DDVP)

Diclofop-methyl

Dieldrin

Dimethoate

Disulfoton (Disyston)

Diuron

Endosulfan I (a-Endosulfan)

Endosulfan II (b-Endosulfan)

Endosulfan Sulfate

Endrin

Endrin Aldehyde

Endrin Ketone

Fenchlorphos (Ronnell)

gamma-Chlordane

Heptachlor

Heptachlor epoxide

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Lindane (gamma-BHC)
Linuron
Malathion
Methoxychlor
Methyl parathion
Metolachlor
Metribuzin
Parathion (ethyl)
Pentachloronitrobenzene (Quintozene)
Phorate
Prometon
Prometryne
Propiconazole
Simazine
Sulfotep
Tebuthiuron
Temephos (Abate)
Terbufos
trans-Permethrin
Triallate
Trifluralin

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (032)

CR-TM-010; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (064)

CR-TM-083; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC

F4: Gravimetric

Solids (Organic)

Phenols - Solids [Soil] (044)

CR-TM-067; modified from EPA 3570 (PREPARATION) and EPA 8270D (ANALYSIS)
GC/MS - EXTRACTION

2-Chlorophenol

2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)

2-Methylphenol (o-Cresol)

2-Nitrophenol

2,3-Dichlorophenol

2,3,4-Trichlorophenol

2,3,4,5-Tetrachlorophenol & 2,3,5,6-Tetrachlorophenol

2,3,4,6-Tetrachlorophenol

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2,3,6-Trichlorophenol
2,4-Dichlorophenol + 2,5-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,6-Dichlorophenol
2,6-Dimethylphenol
3-Chlorophenol & 4-Chlorophenol
3-Methylphenol & 4-Methylphenol
3,4-Dichlorophenol
3,4-Dimethylphenol
3,4,5-Trichlorophenol
3,5-Dichlorophenol
4-Chloro-3-methylphenol
4-Hydroxyphenol (Hydroquinone)
4-Nitrophenol
Pentachlorophenol
Phenol

Solids (Organic)

Polychlorinated Biphenyls (PCB) Aroclors - Solids [Soil] (038)
CR-TM-066; modified from EPA 3570 (PREPARATION) and EPA 8082 (ANALYSIS)
GC/ECD - EXTRACTION
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Aroclor 1262
Aroclor 1268
Total PCB

Solids (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (015)
CR-TM-015; modified from EPA 3570 (PREPARATION) and EPA 8270D (ANALYSIS)
GC/MS - EXTRACTION
1-Methylnaphthalene
2-Chloronaphthalene
2-Methylnaphthalene
3-methyl cholanthrene
7,12-Dimethylbenz(a)anthracene
Acenaphthene
Acenaphthylene

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Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(g,h,i)perylene
Benzo(j)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Quinoline

Solids (Organic)

Volatile Hydrocarbons (VH) - Solids [Soil] (026)
CR-TM-036; BC MOE LABORATORY MANUAL
GC/FID-PURGE AND TRAP - EXTRACTION
F1: C6-C10
VH: C6-C10

Solids (Organic)

Volatile Hydrocarbons (VH) - Solids [Soil] (071)
CR-TM-036; BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM HYDROCARBONS IN SOIL -
TIER 1 METHOD
GC/FID-HEADSPACE
F1: C6-C10
VH: C6-C10

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (025)
CR-TM-035; EPA 5030B (PREPARATION) and EPA 5035 (PREPARATION) and EPA 8260C (ANALYSIS)
GC/MS-PURGE AND TRAP - EXTRACTION
1,1-Dichloroethane
1,1-dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-dichlorobenzene
1,2-dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene

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1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene

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o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (069)

CR-TM-035; EPA 5021A (PREPARATION) and EPA 8260C (ANALYSIS)
GC/MS-HEADSPACE - EXTRACTION

1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane

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Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Tissue (Inorganic)

Metals - Tissue [Vegetation] (101)

CR-TM-088, CR-TM-113; modified from EPA 200.3 and EPA 6020A

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

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Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (008)
CA-TM-003; SM 4500-O G and SM 5210 B
DISSOLVED OXYGEN METER (DO)
BOD (5 day)
Carbonaceous Biochemical Oxygen Demand (CBOD)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (013)
CA-TM-004; SM 5220 D
COLORIMETRIC - DIGESTION
COD

Water (Inorganic)

Chloride - Water (002)
CR-TM-006; modified from SM 4500-CL- D
AUTOMATED TITRIMETRIC
Chloride

Water (Inorganic)

Conductivity - Water (003)
CR-TM-008; SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

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Water (Inorganic)

Dissolved and Extractable Metals - Water (019)

CR-TM-025 (PREP), CR-TM-088 (ANALYSIS); BC MOE LABORATORY MANUAL SECTION C
ICP/MS

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Hardness (calculation)
Iron
Lead
Lithium
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Silver
Sodium
Strontium
Tellurium
Tellurium
Thallium
Thorium
Thorium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium
Zirconium

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Water (Inorganic)

Hexavalent Chromium - Water (045)
CR-TM-033; SM 3500-CR B
COLORIMETRIC
Hexavalent Chromium

Water (Inorganic)

Mercury - Water (100)
CR-TM-091; modified from EPA 245.7
COLD VAPOUR ATOMIC FLUORESCENCE SPECTROSCOPY (CVAFS) - DIGESTION
Mercury

Water (Inorganic)

Nitrite - Water (107)
CR-TM-121; SM 4500-NO2- B (2011)
COLORIMETRIC
Nitrite

Water (Inorganic)

Oil and Grease - Water (014)
CR-TM-014; modified from EPA 1664
GRAVIMETRIC - EXTRACTION
Mineral Oil and Grease
Total Oil and Grease

Water (Inorganic)

pH - Water (011)
CR-TM-018; SM 4500-H+
PH METER
pH

Water (Inorganic)

Solids - Water (007)
CA-TM-006; modified from SM 2540 D
GRAVIMETRIC
Total Suspended Solids

Water (Inorganic)

Total Metals - Water (021)
CR-TM-025 (PREP), CR-TM-088 (ANALYSIS); BC MOE LABORATORY MANUAL SECTION C
ICP/MS - DIGESTION
Aluminum
Antimony
Antimony
Arsenic
Arsenic
Barium
Beryllium
Beryllium
Bismuth
Boron
Cadmium
Cadmium

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Calcium
Chromium
Cobalt
Copper
Hardness (calculation)
Iron
Lead
Lithium
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Phosphorus
Potassium
Selenium
Selenium
Silver
Silver
Sodium
Strontium
Thallium
Tin
Tin
Titanium
Uranium
Uranium
Vanadium
Zinc

Water (Microbiology)

Coliforms - Water (161)

CA-TM-009; SM 9223

ENZYME SUBSTRATE

Escherichia coli

Fecal (Thermotolerant) Coliforms

Total Coliforms

Water (Organic)

Acid Herbicides - Water (169)

CB-TM-001; DETERMINATION OF ACIDIC HERBICIDES IN WATER USING LC-MS/MS,. WATERS CORPORATION. (JUNE 2018)

LC/MS/MS

2,4-Dichlorophenoxyacetic acid

2,4-Dichlorophenoxybutyric acid (2,4-DB)

2,4-Dichlorophenoxypropionic acid (2,4-DP, Dichlorprop)

2,4,5-TP (Silvex)

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2,4,5-Trichlorophenoxyacetic acid
Acifluorfen
Bentazon
Bromoxynil
Chloramben
Clopyralid
Dicamba
Dinoseb
MCPA (2-Methyl-4-chlorophenoxyacetic acid)
MCPB (4-(4-chloro-2-methylphenoxy)butanoic acid)
MCPB (Mecoprop, Methylchlorophenoxypropionic acid)
Picloram
Triclopyr

Water (Organic)

Carbamates - Water (Burnaby) (106)
CR-TM-090; modified from EPA 531.2
LC/MS/MS
Aldicarb
Bendiocarb
Carbaryl
Carbofuran

Water (Organic)

Diquat and Paraquat - Water (Burnaby) (105)
CR-TM-117; modified from EPA 549.2
LC/MS/MS
Diquat
Paraquat

Water (Organic)

Extractable Petroleum Hydrocarbons (EPH) - Water (012)
CR-TM-009; BC MOE LABORATORY MANUAL
GC/FID - EXTRACTION
EPH C10-C19 (sg)
EPH C19-C32 (sg)
Extractable Petroleum Hydrocarbons (EPH): C10-C19
Extractable Petroleum Hydrocarbons (EPH): C19-C32

Water (Organic)

Glycols - Water (048)
CR-TM-054; modified from EPA 8015B
GC/FID
Diethylene glycol
Ethylene glycol
Propylene glycol
Triethylene glycol

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Water (Organic)

Glyphosate - Water (Burnaby) (104)

CR-TM-116; modified from EPA 547

LC/MS/MS

AMPA

Glufosinate

Glyphosate

Water (Organic)

Haloacetic Acids (HAA) - Water (033)

CR-TM-059; modified from EPA 552.3

GC/ECD - MICROEXTRACTION, DERIVATIZATION

Bromochloroacetic acid

Bromodichloroacetic acid

Trichloroacetic acid

Water (Organic)

Organochlorine (OC) and Organonitrogen (ON) and Organophosphorus (OP) Pesticides and Herbicides - Water (035)

CR-TM-068; modified from EPA 3510C (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - 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)

A -BHC

a - Chlordane

Alachlor

Aldrin

Atrazine

Azinphos-methyl

beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)

Bromacil

Bromoxynil

Captan

Chlorothalonil (Daconil)

Chlorpyrifos ethyl

cis-Permethrin

Cyanazine

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

Deltamethrin

Desethyl atrazine

Diazinon

Dichlorvos (DDVP)

Diclofop-methyl

Dieldrin

Dimethoate

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Disulfoton (Disyston)
Diuron
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
Fenclorphos (Ronnel)
g - Chlordane
Heptachlor
Heptachlor epoxide
Lindane (gamma-BHC)
Linuron
Malathion
Methyl parathion
Metolachlor
Metribuzin
p,p' - DDT
p,p' Methoxychlor
Parathion (ethyl)
Pentachloronitrobenzene (Quintozene)
Phorate
Prometon
Prometryne
Propiconazole
Simazine
Sulfotep
Tebuthiuron
Temephos (Abate)
Terbufos
trans-Permethrin
Triallate
Trifluralin

Water (Organic)

Perfluorinated Alkyl Substances (PFAS) - Water (Burnaby) (138)

CB-TM-004; modified from EPA 537

LC/MS/MS

Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)

Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)

Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)

Perfluoroheptanoic acid (PFHpA, Perfluorohepanoate)

Perfluorononanoic acid (PFNA, Perfluorononanoate)

Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)

Perfluorooctanesulfonamide (PFOSA)

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Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (056)

CR-TM-009; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Water (Organic)

Phenols - Water (029)

CR-TM-052; EPA 3510C (PREPARATION) and EPA 8270D (ANALYSIS)
GC/MS - EXTRACTION

2-Chlorophenol

2-Hydroxyphenol (Catechol)

2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)

2-Methylphenol (o-Cresol)

2-Nitrophenol

2,3-Dichlorophenol

2,3,4-Trichlorophenol

2,3,4,5-Tetrachlorophenol & 2,3,5,6-Tetrachlorophenol

2,3,4,6-tetrachlorophenol

2,3,5-Trichlorophenol

2,3,6-Trichlorophenol

2,4-Dichlorophenol + 2,5-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4,5-Trichlorophenol

2,4,6-trichlorophenol

2,6-Dichlorophenol

2,6-Dimethylphenol

3-Chlorophenol & 4-Chlorophenol

3-Methylphenol & 4-Methylphenol

3,4-Dichlorophenol

3,4-Dimethylphenol

3,4,5-Trichlorophenol

3,5-Dichlorophenol

4-Chloro-3-methylphenol

4-Hydroxyphenol (Hydroquinone)

4-Nitrophenol

Pentachlorophenol

Phenol

Resorcinol

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Water (Organic)

Polychlorinated Biphenyls (PCB) Aroclors - Water (039)

CR-TM-064; modified from EPA 3510C (PREPARATION) and EPA 8082 (ANALYSIS)

GC/ECD - EXTRACTION

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Aroclor 1262

Aroclor 1268

Total PCB

Water (Organic)

Polycyclic Aromatic Hydrocarbons (PAH) - Water (009)

CR-TM-016; EPA 3510C (PREPARATION) and EPA 8270D (ANALYSIS)

GC/MS - EXTRACTION

1-Methylnaphthalene

2-Chloronaphthalene

2-Methylnaphthalene

3-Methylcholanthrene

7,12-Dimethylbenz(a)anthracene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(g,h,i)perylene

Benzo(j)fluoranthene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3 - cd)pyrene

Naphthalene

Phenanthrene

Pyrene

Quinoline

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Water (Organic)

Volatile Fatty Acids - Water (076)

CR-TM-060; SM 5560 D

GC/FID

Acetic acid

Butyric acid

Caproic Acid (Hexanoic Acid)

Heptanoic acid

Isobutyric acid

Isocaproic acid

Isovaleric acid

Propionic acid

Valeric acid

Water (Organic)

Volatile Hydrocarbons (VH) - Water (027)

CR-TM-032; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM

HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID-PURGE AND TRAP

F1: C6-C10

VH: C6-C10

Water (Organic)

Volatile Hydrocarbons (VH) - Water (072)

CR-TM-032; modified from BC MOE LABORATORY MANUAL and CCME CWS PETROLEUM

HYDROCARBONS IN SOIL - TIER 1 METHOD

GC/FID-HEADSPACE

F1: C6-C10

VH: C6-C10

Volatile Hydrocarbons (VH)

Water (Organic)

Volatile Organic Compounds (VOC) - Water (024)

CR-TM-031; EPA 5030B (PREPARATION) and EPA 8260C (ANALYSIS) and SM 6200 B (ANALYSIS)

GC/MS-PURGE AND TRAP

1,1-Dichloroethane

1,1-dichloroethylene

1,1-Dichloropropene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-Dibromo-3-chloropropane (DBCP)

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

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1,2,4-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
4-Methyl-2-pentanol (MIBC)
Acetone (2-Propanone)
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene

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o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Water (Organic)

Volatile Organic Compounds (VOC) - Water (070)

CR-TM-031; EPA 5021A (PREPARATION) and EPA 8260C (ANALYSIS)

GC/MS-HEADSPACE

1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane

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Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl t-butyl ether
n-Butylbenzene
n-Propylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

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