



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2472  
**Laboratory Name:** SRC Environmental Analytical Laboratories  
**Parent Institution:** Saskatchewan Research Council  
**Address:** 422 Downey Road Saskatoon SK S7N 4N1  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** March 29, 2018  
**Valid To:** August 29, 2020

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### Scope of Accreditation

#### Air (Inorganic)

Metals - Air Filters (171)

CHM-518, CHM-522, PRP-034; modified from EPA 29

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Manganese

Molybdenum

Nickel

Selenium

Strontium

Thallium

Tl<sub>n</sub>

Titanium

Uranium

Vanadium

Zinc

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**Air (Organic)**

Volatile Organic Compounds (VOC) - Air (169)

GLC-113; modified from EPA TO-15

GC/MS - CRYOGENIC PRECONCENTRATION

1,1-Dichloroethane  
1,1-Dichloroethene  
1,1,1-Trichloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dibromoethane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloroethene (E)  
1,2-Dichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,3-Butadiene  
1,3-Dichlorobenzene  
1,3-Dichloropropene (E)  
1,3-Dichloropropene (Z)  
1,3,5-Trimethylbenzene  
1,4-Dichlorobenzene  
2-Butanone  
2-Hexanone  
4-Ethyltoluene  
Benzene  
Benzyl chloride  
Bromodichloromethane  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane  
Cyclohexane  
Dibromochloromethane  
Dichlorodifluoromethane  
Dichlorotetrafluoroethane  
Ethyl acetate  
Ethylbenzene  
Heptane  
Hexachlorobutadiene  
Hexane  
Isopropyl alcohol  
m,p-Xylene  
Methyl isobutyl ketone (MIBK)  
Methylene chloride  
o-Xylene  
Propene  
Styrene  
t-Butyl methyl ether (MTBE)  
Tetrachloroethylene

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Toluene  
Trichloroethylene  
Trichlorofluoromethane

**Air (Radiochemistry)**

Gross Alpha Activity and Gross Beta Activity - Wipes (170)  
RAD-110; modified from SM 7110  
GAS FLOW PROPORTIONAL COUNTING  
Gross Alpha  
Gross Beta

**Air (Radiochemistry)**

Radon - Air (103)  
RAD-119; EPA 420-R-92-004  
ALPHA TRACKS  
Radon

**Animal Biological Tissue (Radiochemistry)**

Thorium Isotopes - Biological Tissue (141)  
PRP-034, RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEM, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY  
Thorium-228  
Thorium-230  
Thorium-232

**Biological Tissue (Inorganic)**

Metals - Biological Tissue (081)  
CHM-518, CHM-522, PRP-034; SM 3125 and modified from EPA 3052  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin  
Titanium

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Uranium  
Vanadium  
Zinc

**Biological Tissue (Radiochemistry)**

Radium - Biological Tissue (082)  
PRP-034, RAD-105; modified from CANMET NUTP 3E  
ALPHA SPECTROSCOPY  
Radium-226

**Biological Tissues (Radiochemistry)**

Lead-210 - Biological Tissue (130)  
PRP-034, RAD-101; modified from CANMET REPORT 78-22  
GAS FLOW PROPORTIONAL COUNTING  
Lead-210

**Biological Tissues (Radiochemistry)**

Polonium-210 - Biological Tissue (128)  
PRP-034, RAD-103; modified from CANMET REPORT 78-22  
ALPHA SPECTROSCOPY  
Polonium-210

**Food Oil (Inorganic)**

Metals - Food Oil (117)  
CHM-518, CHM-522, PRP-034; modified from EPA 3052 and SM 3125  
ICP/MS - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
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

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**Fuel (Inorganic)**

Anions - Fuel Ethanol (096)  
CHM-133; modified from ASTM D7319  
ION CHROMATOGRAPHY  
Inorganic Chloride  
Sulfate

**Fuel (Inorganic)**

Conductivity - Fuel Ethanol (137)  
CHM-987; ASTM D1125  
CONDUCTIVITY METER  
Conductivity

**Fuel (Inorganic)**

Copper - Fuel Ethanol (102)  
CHM-1000, CHM-517; modified from ASTM 1688 METHOD A  
ICP/OES  
Copper

**Fuel (Inorganic)**

Density - Fuel Ethanol (101)  
GLC-292; ASTM 4052  
DENSITY METER  
Density

**Fuel (Inorganic)**

Iron Corrosion - Fuel Ethanol (138)  
CHM-985; ASTM D7548  
OBSERVATION  
Iron Corrosion

**Fuel (Inorganic)**

pHe - Fuel Ethanol (095)  
CHM-317; ASTM 6423  
pH METER  
pHe

**Fuel (Inorganic)**

Phosphorus - Fuel Ethanol (139)  
CHM-986; modified from ASTM D3231  
COLORIMETRIC  
Phosphorus

**Fuel (Inorganic)**

Solvent Washed Gum Content - Fuel Ethanol (098)  
GLC-291; modified from ASTM D381  
GRAVIMETRIC  
Solvent washed gum content

**Fuel (Inorganic)**

Total Acidity - Fuel Ethanol (094)  
CHM-319; ASTM D1613  
TITRATION  
Total Acidity

**Fuel (Inorganic)**

Total Sulphur - Fuel Ethanol (097)  
RAD-180; modified from ASTM D5453  
UV-FLUORESCENCE  
Total Sulfur

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**Fuel (Inorganic)**

Water Content - Fuel Ethanol (100)  
GLC-EQ-220; modified from ASTM E1064  
KARL FISCHER  
Water Content

**Fuel (Organic)**

Components in Fuel Ethanol - Fuel Ethanol (099)  
GLC-290; modified from CGSB3.0 NO 14.3 and ASTM D5501  
GC/FID  
Aromatics  
Benzene  
Denaturants  
Ethanol  
Methanol

**Oil**

Water Content - Oil (131)  
GLC-052; modified from ASTM D95  
DEAN STARK  
Water Content

**Oil (Organic)**

Total Polychlorinated Biphenyls (PCB) - Oil (033)  
GLC-133; modified from ASTM D4059  
GC/ECD - EXTRACTION  
Total PCB

**Oil (Radiochemistry)**

Total Organic Halogens - Oil (044)  
RAD-358; modified from EPA 9022  
NAA  
Total Organic Halogens

**Soil**

Mercury - Soil (164)  
CHM-311; EPA 7473  
COMBUSTION AND ATOMIC ABSORPTION  
Mercury

**Soil (Inorganic)**

Mercury - Soil (157)  
CHM-309, CHM-PRP-024; EPA 1311 and modified from EPA 1631  
TCLP LEACH/CVAF  
Mercury

**Soil (Inorganic)**

Metals - Soil, Leachate (159)  
CHM-518, CHM-522, CHM-PRP-024; EPA 1311 and SM 3125  
ICP/MS - TCLP LEACH  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt

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Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Soil (Organic)**

Volatile Organic Compounds (VOC) - Soil (167)  
GLC-186; modified from EPA 8260C and EPA 5021A  
GC/MS - HEADSPACE  
Benzene  
Ethylbenzene  
F1: C6-C10  
m/p-xylene  
o-xylene  
Toluene

**Solids (Inorganic)**

Chloride - Soil (121)  
CHM-133, CHM-620; SOIL SAMPLING & METHODS OF ANALYSIS and modified from SM 4110 B  
ION CHROMATOGRAPHY  
Chloride

**Solids (Inorganic)**

Metals - Soil, Sediment (079)  
CHM-504, CHM-518, CHM-522, PRP-034; SM 3125 and modified from EPA 3052  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus

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Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Thorium  
Thorium-232 (Calculated)  
Tin  
Titanium  
Uranium  
Uranium-234 (Calculated)  
Uranium-235 (Calculated)  
Uranium-238 (Calculated)  
Vanadium  
Zinc

**Solids (Inorganic)**

Particle Size Distribution - Soil, Sediment (124)  
CHM-1200; modified from ASTM C1070  
LASER DIFFRACTION  
Particle Size Characterization

**Solids (Inorganic)**

Sulphate - Soil (053)  
CHM-517, CHM-624; SM 3120 and MEND REPORT 1.20.1  
ICP/OES - DIGESTION  
Sulfate

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (077)  
GLC-186; CCME CWS FOR PETROLEUM HYDROCARBONS  
GC/FID - EXTRACTION  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Soil (084)  
GLC-186; CCME CWS FOR PETROLEUM HYDROCARBONS  
GRAVIMETRIC  
F4: Gravimetric

**Solids (Organic)**

Total Polychlorinated Biphenyls (PCB) - Soil (058)  
GLC-135; modified from EPA 3545A and EPA 8082A  
GC/ECD - EXTRACTION  
Total PCB

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Soil (174)  
GLC-PRP-024; EPA 1311  
GC/MS - HEADSPACE - TCLP  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,4-Dichlorobenzene  
Benzene  
Carbon tetrachloride

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Chlorobenzene  
Chloroform  
Dichloromethane  
Tetrachloroethylene  
Trichloroethylene

**Solids (Radiochemistry)**

Extractable Organic Halogens - Soil (043)  
RAD-356; modified from EPA 9022 and EPA 9023  
NAA - EXTRACTION  
Extractable Organic Halogens

**Solids (Radiochemistry)**

Lead-210 - Soil (073)  
PRP-034, RAD-101; modified from CANMET REPORT 78-22 and ASTM D7535  
GAS FLOW PROPORTIONAL COUNTING  
Lead-210

**Solids (Radiochemistry)**

Polonium-210 - Soil (074)  
PRP-034, RAD-103; modified from CANMET REPORT 78-22  
ALPHA SPECTROSCOPY  
Polonium-210

**Solids (Radiochemistry)**

Radionuclides - Soil (071)  
RAD-300; SM 7120 B  
GAMMA SPECTROSCOPY  
Actinium-228  
Americium-241  
Bismuth-212  
Bismuth-214  
Cesium-134  
Cesium-137  
Iodine-131  
Lead-210  
Lead-211  
Lead-212  
Lead-214  
Manganese-54  
Potassium-40  
Radium-226  
Radium-228  
Thallium-208  
Thorium-227  
Thorium-230  
Thorium-234  
Uranium-235  
Zinc-65

**Solids (Radiochemistry)**

Radium Isotopes - Soil (075)  
RAD-105; modified from CANMET NUTP-3E  
ALPHA SPECTROSCOPY  
Radium-226

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**Solids (Radiochemistry)**

Radium-228 - Soil (133)  
RAD-114; modified from CANMET NUTP-8E  
GAS FLOW PROPORTIONAL COUNTING  
Radium-228

**Solids (Radiochemistry)**

Strontium-90 - Solids (160)  
PRP-034, RAD-112; modified from EPA D5811  
MICROWAVE/SOLID PHASE EXTRACTION/BETA COUNTING  
Strontium-90

**Solids (Radiochemistry)**

Thorium Isotopes - Soil (072)  
PRP-034, RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEM, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY  
Thorium-228  
Thorium-230  
Thorium-232

**Solids (Radiochemistry)**

Uranium - Soil, Sediment (029)  
RAD-202; AECL DOCUMENT  
DELAYED NEUTRON COUNTING  
Uranium

**Swab (Organic)**

Polychlorinated Biphenyls (PCB) - Swabs (168)  
GLC-140; modified from ASTM D4059  
GC/ECD - EXTRACTION  
Total PCB

**Uranium Concentrates (Inorganic)**

Uranium - Uranium Concentrates (105)  
RAD-204; BRR CAM: U-25  
TITRIMETRIC  
Uranium

**Vegetation**

Lead-210 - Vegetation (129)  
PRP-034, RAD-101; modified from CANMET REPORT 78-22 and ASTM 7535  
GAS FLOW PROPORTIONAL COUNTING  
Lead-210

**Vegetation**

Polonium-210 - Vegetation (127)  
RAD-103; modified from CANMET REPORT 78-22  
ALPHA SPECTROSCOPY  
Polonium-210

**Vegetation**

Radionuclides - Vegetation (126)  
RAD-300; SM 7120 B  
GAMMA SPECTROSCOPY  
Actinium-228  
Americium-241  
Bismuth-214  
Cesium-134  
Cesium-137  
Iodine-131

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Lead-210  
Lead-212  
Lead-214  
Manganese-54  
Potassium-40  
Radium-226  
Ruthenium-103  
Thorium-230  
Thorium-234  
Zinc-65

**Vegetation**

Radium Isotopes - Vegetation (125)  
PRP-034, RAD-105; modified from CANMET NUTP-3E  
ALPHA SPECTROSCOPY  
Radium-226

**Vegetation**

Thorium Isotopes - Vegetation (140)  
PRP-034, RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEM, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY  
Thorium-228  
Thorium-230  
Thorium-232

**Vegetation (Inorganic)**

Metals - Vegetation (080)  
CHM-518, CHM-522, PRP-034; SM 3125 and modified from EPA 3052  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Mercury  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
Tin

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Titanium  
Uranium  
Vanadium  
Zinc

**Waste (Inorganic)**

Flashpoint - Waste (155)  
CHM-790; modified from ASTM D93  
PENSKY-MARTENS CLOSED CUP  
Flashpoint

**Water (Inorganic)**

Alkalinity - Water (001)  
CHM-211, CHM-404; modified from SM 2320  
TITRIMETRIC  
Alkalinity (pH 4.5)  
Bicarbonate (Calculated)  
Carbonate (Calculated)  
Hydroxide (Calculated)  
Inorganic Carbon (Calculated)  
Phenolphthalein Alkalinity

**Water (Inorganic)**

Ammonia - Water (088)  
CHM-123; modified from EPA 351.2  
COLORIMETRIC - DISCRETE  
Ammonia

**Water (Inorganic)**

Anionic Surfactants - Water (119)  
CHM-312; modified from SM 5540 C  
COLORIMETRIC  
MBAS

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (011)  
CHM-400; modified from SM 5210 B  
D.O. METER  
BOD (5 day)  
CBOD (5 day)

**Water (Inorganic)**

Carbon - Water (049)  
CHM-399; modified from SM 5310 C  
UV/PERSULPHATE  
Organic Carbon  
Total Carbon (Calculated)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (048)  
CHM-402; modified from SM 5220 D  
COLORIMETRIC  
COD

**Water (Inorganic)**

Chlorate and Chlorite and Bromate - Water (111)  
CHM-133; modified from SM 4110 D  
ION CHROMATOGRAPHY  
Bromate  
Chlorate

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Chlorite

**Water (Inorganic)**

Chloride - Water (018)

CHM-115; modified from SM 4500-CL- E

COLORIMETRIC

Chloride

**Water (Inorganic)**

Chloride and Sulfate - Water (002)

CHM-133; modified from SM 4110 B

ION CHROMATOGRAPHY

Chloride

Sulfate

**Water (Inorganic)**

Chlorine and Chlorination Byproducts - Water (118)

CHM-340; SM 4500-CL G

COLORIMETRIC

Dichloramine

Free Chlorine

Monochloramine

Total Chlorine

**Water (Inorganic)**

Color - Water (162)

CHM-220; SM 2120 C

SPECTROPHOTOMETRIC

True Colour

**Water (Inorganic)**

Conductivity - Water (003)

CHM-211; modified from SM 2510

CONDUCTIVITY METER

Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (032)

CHM-351; modified from NAQUADAT NO. 06604

AUTO COLOR - DISTILLATION

Cyanide (SAD)

Cyanide (WAD)

**Water (Inorganic)**

Cyanide - Water (173)

CHM-350; ISO 14403-2

CONTINUOUS FLOW

Cyanide (WAD)

Total Cyanide

**Water (Inorganic)**

Dissolved Cations - Water (020)

CHM-501, CHM-507, CHM-508; SM 3120 and modified from SM 3030

ICP/OES

Calcium

Hardness (calculation)

Magnesium

Potassium

Sodium

Sulfur

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**Water (Inorganic)**

Dissolved Metals - Water (008)

CHM-501, CHM-517; SM 3120 and modified from SM 3030

ICP/OES

Aluminum  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Silver  
Strontium  
Titanium  
Vanadium  
Zinc

**Water (Inorganic)**

Dissolved Metals - Water (076)

CHM-501, CHM-518, CHM-522; SM 3125 and modified from SM 3030

ICP/MS

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Cerium  
Chromium  
Cobalt  
Copper  
Dysprosium  
Erbium  
Europium  
Gadolinium  
Holmium  
Iron  
Lanthanum  
Lead  
Lithium  
Lutetium  
Manganese  
Molybdenum  
Neodymium  
Nickel  
Phosphorus

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Praseodymium  
Samarium  
Scandium  
Selenium  
Silver  
Strontium  
Terbium  
Thallium  
Thorium  
Thorium-230  
Thorium-232 (Calculated)  
Thulium  
Tin  
Titanium  
Uranium  
Uranium-234 (Calculated)  
Uranium-235 (Calculated)  
Uranium-238 (Calculated)  
Vanadium  
Ytterbium  
Yttrium  
Zinc

**Water (Inorganic)**

Fluoride - Water (005)  
CHM-211; SM 4500-F- C  
SELECTIVE ION ELECTRODE  
Fluoride

**Water (Inorganic)**

Mercury - Water (123)  
CHM-309; modified from EPA 1631  
COLD VAPOUR ATOMIC FLUORESCENCE - DIGESTION  
Mercury

**Water (Inorganic)**

Nitrate - Water (089)  
CHM-124; modified from EPA 353.2  
COLORIMETRIC - DISCRETE  
Nitrate plus Nitrite  
Nitrite

**Water (Inorganic)**

Nitrioltriacetic Acid (NTA) - Water (085)  
CHM-320; EPA 430.1  
COLORIMETRIC  
NTA

**Water (Inorganic)**

Oil and Grease - Water (054)  
CHM-610; modified from EPA 1664B  
GRAVIMETRIC  
Mineral Oil and Grease  
Total Oil and Grease

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**Water (Inorganic)**

pH - Water (004)  
CHM-211; modified from SM 4500-H+  
pH METER  
pH

**Water (Inorganic)**

Phenols - Water (064)  
CHM-304, CHM-305; modified from EPA 420.4  
COLORIMETRIC  
Total Phenolics

**Water (Inorganic)**

Phosphate - Water (009)  
CHM-116, HM-116; SM 4500-P F  
COLOR  
Inorganic Phosphate  
Organic Phosphate (calculated)  
Phosphate

**Water (Inorganic)**

Solids - Water (012)  
CHM-203, CHM-206; modified from SM 2540 C and SM 2540 D  
GRAVIMETRIC  
Total Dissolved Solids  
Total Solids (Calculation)  
Total Suspended Solids

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (110)  
CHM-128, PRP-128; modified from EPA 351.2  
COLOR - DIGESTION - SEAL  
Total Kjeldahl Nitrogen  
Total Nitrogen (Calculation)

**Water (Inorganic)**

Total Metals - Water (091)  
CHM-501, CHM-517; SM 3120 and modified from EPA 200.8  
ICP/OES - DIGESTION  
Aluminum  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Silver  
Strontium  
Titanium  
Vanadium  
Zinc

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**Water (Inorganic)**

Total Metals - Water (092)

CHM-501, CHM-518, CHM-522; SM 3125 and modified from EPA 200.8

ICP/MS - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Strontium  
Thallium  
Thorium-230  
Titanium  
Total Phosphorus  
Uranium  
Vanadium  
Zinc

**Water (Inorganic)**

Turbidity - Water (065)

CHM-316; SM 2130 B

TURBIDIMETRIC

Turbidity

**Water (Microbiology)**

Coliforms - Water (013)

CHM-410; modified from SM 9223

CHROM. SUBSTRATE - COLILERT TEST KIT

Escherichia coli (E. coli)

Total Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (120)

CHM-407; COLILERT-18 FECAL COLIFORM PROTOCOL ADDENDUM

CHROM. SUBSTRATE - COLILERT TEST KIT

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (066)

CHM-412; SM 9215 E

MOST PROBABLE NUMBER (MPN) (SIMPLATE)

Heterotrophic Plate Count (HPC)

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**Water (Organic)**

Chlorophenols - Water (142)  
GLC-150; modified from EPA 3510C and EPA 8041A  
GC/MSD - EXTRACTION  
2,3,4,6-Tetrachlorophenol  
2,4-Dichlorophenol  
2,4,6-Trichlorophenol  
Pentachlorophenol

**Water (Organic)**

Extractable Organic Halogens - Water (153)  
RAD-357; modified from EPA 9022 and EPA 9023  
NAA - EXTRACTION  
Extractable Organic Halogens

**Water (Organic)**

Formation Potential (Haloacetic Acids) - Water (107)  
GLC-122, GLC-350; modified from EPA 552.3 and SM 5710 B  
CHLORINE INCUBATION & GC/ECD-EXTRACTION  
Bromochloroacetic acid  
Dibromoacetic acid  
Dichloroacetic acid  
HAA-5 (calculation)  
Monobromoacetic acid (MBAA)  
Monochloroacetic acid (MCAA)  
Total Haloacetic Acids (Calculation)  
Trichloroacetic acid (TCAA)

**Water (Organic)**

Formation Potential (Trihalomethanes) - Water (135)  
GLC-119, GLC-122; modified from SM 5710 B and EPA 8260C and EPA 5021A  
CHLORINE INCUBATION & GC/MS - HEADSPACE  
Bromodichloromethane  
Bromoform  
Chlorodibromomethane  
Chloroform  
Total Trihalomethanes (Calculation)

**Water (Organic)**

Glyphosate - Water (172)  
GLC-081; GL SCIENCES INC. LC TECHNICAL NOTE 13  
HPLC/FL-PRECOLUMN DERIVATIZATION  
APMA  
Glyphosate

**Water (Organic)**

Haloacetic Acids (HAA) - Water (086)  
GLC-350; modified from EPA 552.3  
GC/ECD - EXTRACTION  
Bromochloroacetic acid  
Dibromoacetic acid  
Dichloroacetic acid  
HAA-5 (calculation)  
Monobromoacetic acid (MBAA)  
Monochloroacetic acid (MCAA)  
Total Haloacetic Acids (Calculation)  
Trichloroacetic acid (TCAA)

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**Water (Organic)**

Herbicides - Water (144)

GLC-095; modified from EPA 3510C and EPA 8270D and EPA 8151A

GC/MS - EXTRACTION

2,4-Dichlorophenoxyacetic acid  
2,4-DP (dichlorprop)  
2,4,5-TP (Silvex)  
2,4,5-Trichlorophenoxyacetic acid  
Bromoxynil  
Dicamba  
Diclofop-methyl (as free acid)  
MCPA  
Picloram

**Water (Organic)**

Herbicides and Pesticides - Water (143)

GLC-129; modified from EPA 3510C and EPA 8270D

GC/MS - EXTRACTION

Atrazine  
Carbofuran  
Chlorpyrifos (ethyl)  
Dimethoate  
Ethalfluralin  
Malathion  
Triallate  
Trifluralin

**Water (Organic)**

Hydrocarbons - Water (036)

GLC-180; EPA 8015D and modified from EPA 3510C

GC/FID - EXTRACTION

F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Water (Organic)**

Hydrocarbons - Water (166)

GLC-119; modified from EPA 8260C and EPA 5021A

GC/FID - HEADSPACE

F1: C6-C10

**Water (Organic)**

Pesticides and Polychlorinated Biphenyls (PCB) - Water (146)

GLC-131, GLC-132; modified from EPA 3510C and EPA 8081B and EPA 8082A and EPA 3620C

GC/ECD - EXTRACTION

A -BHC  
a - Chlordane  
Aldrin  
Dieldrin  
Endosulfan I  
Endosulfan II  
Endrin  
g - Chlordane  
Heptachlor  
Heptachlor Epoxide  
Lindane (gamma-BHC)  
Mirex

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o,p' - DDT  
p,p' - DDT  
p,p' Methoxychlor  
Total PCB  
Toxaphene

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

Polycyclic Aromatic Hydrocarbons (PAH) - Water (145)

GLC-011; modified from EPA 3510C and EPA 8270D

GC/MS - EXTRACTION

1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo(b+j+k)fluoranthene  
Benzo(e)pyrene  
Benzo (g,h,i) perylene  
Chrysene  
Dibenzo (a,h) anthracene  
Fluoranthene  
Fluorene  
Indeno (1,2,3 - cd) pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene  
Quinoline

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

Volatile Organic Compounds (VOC) - Water (134)

GLC-119; modified from EPA 8260C and EPA 5021A

GC/MS - HEADSPACE

1,1-Dichloroethane  
1,1-Dichloroethylene  
1,1,1-Trichloroethane  
1,1,1,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,4-Dichlorobenzene  
Benzene  
Bromodichloromethane  
Bromoform  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroform  
Dichloromethane  
Ethylbenzene  
m/p-xylene

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Methyl t-butyl ether  
o-xylene  
Styrene  
Tetrachloroethylene  
Toluene  
Total Trihalomethanes (Calculation)  
Trichloroethylene  
Vinyl Chloride  
Xylene; total (calculated)

**Water (Radiochemistry)**

Gross Alpha Activity and Gross Beta Activity - Water (031)  
RAD-110; modified from SM 7110 B  
GAS-FLOW PROPORTIONAL COUNTING  
Gross Alpha Activity  
Gross Beta Activity

**Water (Radiochemistry)**

Lead-210 - Water (038)  
RAD-101; modified from CANMET REPORT 78-22  
GAS FLOW PROPORTIONAL COUNTING  
Lead-210

**Water (Radiochemistry)**

Polonium-210 - Water (039)  
RAD-103; modified from CANMET REPORT 78-22  
ALPHA SPECTROSCOPY  
Polonium-210

**Water (Radiochemistry)**

Radionuclides - Water (070)  
RAD-300; SM 7120 B  
GAMMA SPECTROSCOPY  
Actinium-228  
Americium-241  
Bismuth-212  
Bismuth-214  
Cesium-134  
Cesium-137  
Cobalt-60  
Iodine-131  
Lead-210  
Lead-211  
Lead-212  
Lead-214  
Manganese-54  
Potassium-40  
Radium-226  
Radium-228  
Thallium-208  
Thorium-227  
Thorium-230  
Thorium-234  
Uranium-235  
Zinc-65

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**Water (Radiochemistry)**

Radium-226 - Water (041)

RAD-105; modified from CANMET NUTP-3E  
ALPHA SPECTROSCOPY

Radium-226

**Water (Radiochemistry)**

Radium-228 - Water (132)

RAD-114; modified from CANMET NUTP-3E  
GAS FLOW PROPORTIONAL COUNTING

Radium-228

**Water (Radiochemistry)**

Strontium-90 - Water (161)

RAD-112; modified from ASTM D5811  
SOLID PHASE EXTRACTION/BETA COUNTING

Strontium-90

**Water (Radiochemistry)**

Thorium Isotopes - Water (042)

RAD-106; modified from SILL & WILLIAMS, ANALYTICAL CHEMISTRY, VOL 53, NO3, 1981  
ALPHA SPECTROSCOPY

Thorium-228

Thorium-230

Thorium-232

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