



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 1442  
**Laboratory Name:** ALS Environmental (Winnipeg)  
**Parent Institution:** ALS Canada Ltd.  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** July 4, 2019  
**Valid To:** September 30, 2021

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### Scope of Accreditation

#### **Air (Inorganic)**

Asbestos - Air (175)  
WP-TM-1702; NIOSH 7400  
PCM FIBRE COUNTING  
Asbestos

#### **Air (Inorganic)**

Radon - Air (142)  
WP-TM-1801; modified from EPA 402-R-92-004  
ELECTRET RADON MONITOR  
Radon

#### **Air (Mycology)**

Mould - Air (055)  
WP-TM-1703; modified from INTRODUCTION TO FOOD-BOURNE FUNGI  
CULTURABLE - MICROSCOPY  
Biocontaminant Identification  
Biocontaminant Quantitation

#### **Air (Mycology)**

Mould - Air (163)  
WP-TM-1704; modified from ASTM D7391  
DIRECT MICROSCOPIC EXAMINATION  
Biocontaminant Identification  
Biocontaminant Quantification

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**Food (Inorganic)**

pH - Food (188)  
WP-TM-1223; MFHPB-03  
pH METER  
pH

**Food (Microbiology)**

Coliforms - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (153)  
WP-TM-1210; MFHPB-19  
MOST PROBABLE NUMBER  
Escherichia coli (E. coli)  
Fecal (Thermotolerant) Coliforms  
Total Coliforms

**Food (Microbiology)**

Coliforms - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (157)  
WP-TM-1209; MFHPB-31  
POUR PLATE  
Total Coliforms

**Food (Microbiology)**

Coliforms - Food [Environmental Surface, Food Product] (200)  
WP-TM-1228; MFHPB-34  
PETRIFILM METHOD  
Escherichia coli (E. coli)  
Total Coliform

**Food (Microbiology)**

Gluten - Food (192)  
WP-TM-1226; AOAC 2014.03 and ROMER GLUTEN G12 ASSAY PRODUCT INSERT  
ELISA  
Gluten

**Food (Microbiology)**

Heterotrophic Plate Count (HPC) - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (152)  
WP-TM-1208; MFHPB-18  
POUR PLATE  
Heterotrophic Plate Count (HPC)

**Food (Microbiology)**

Listeria - Food [Bread, Cacao, Environmental Surface, Meat] (189)  
WP-TM-1224; MFLP-28  
PCR  
Listeria

**Food (Microbiology)**

Listeria - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (151)  
WP-TM-1202; AOAC 997.03  
VISUAL IMMUNOPRECIPITATE ASSAY  
Listeria monocytogenes

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**Food (Microbiology)**

Listeria - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Environmental Surface, Milk Powder] (156)

WP-TM-1201; MFHPB-30  
PRESENCE/ABSENCE  
Listeria monocytogenes

**Food (Microbiology)**

Listeria - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (158)

WP-TM-1203; MFLP-34  
VISUAL IMMUNOPRECIPITATE ASSAY  
Listeria monocytogenes

**Food (Microbiology)**

Salmonella - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Environmental Surface, Milk Powder] (154)

WP-TM-1204; MFHPB-20  
SPREAD PLATE  
Salmonella

**Food (Microbiology)**

Salmonella - Food [Chocolate, Dairy, Environmental Surface, Poultry] (179)

WP-TM-1222; MFLP-29  
PCR  
Salmonella

**Food (Microbiology)**

Salmonella - Food [Egg, Egg Product, Meat, Poultry] (160)

WP-TM-1206; USDA MLG 4  
SPREAD PLATE  
Salmonella

**Food (Microbiology)**

Staphylococcus aureus - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (155)

WP-TM-1207; MFHPB-21  
SPREAD PLATE  
Staphylococcus aureus

**Food (Microbiology)**

Yeast and Mould - Food (168)

WP-TM-1211; MFHPB-22  
POUR PLATE  
Mould  
Yeast

**Soil (Inorganic)**

Total Mercury - Soil (195)

NA-TM-1005, NA-TP-2004, NA-TP-2012; modified from EPA 1631E and EPA 200.2  
COLD VAPOUR AA - DIGESTION  
Mercury

**Solids (Biology)**

Benthic Organisms - Solids [Sediment] (075)

WP-TM-1301; modified from SM 10500  
MICROSCOPE EXAMINATION  
Benthos Enumeration  
Benthos Identification

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**Solids (Inorganic)**

Asbestos - Solids [Bulk] (176)

WP-TM-1701; NIOSH 9002

POLARIZED LIGHT MICROSCOPY (PLM)

Bulk Asbestos

**Solids (Inorganic)**

Cations - Solids [Soil] (184)

NA-TM-1002, WP-TM-1034; modified from EPA 6020B and SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15

ICP/MS - SATURATED PASTE EXTRACTION

Calcium

Magnesium

Potassium

Sodium

Sulfur

**Solids (Inorganic)**

Chloride - Solids [Soil] (183)

WP-TM-1033; modified from SM 4500-CL- E

COLORIMETRIC - DISCRETE ANALYZER

Chloride

**Solids (Inorganic)**

Conductivity - Solids [Soil] (185)

WP-TM-1034; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15

CONDUCTIVITY METER

Conductivity

**Solids (Inorganic)**

Metals - Solids (149)

NA-TM-1002, NA-TM-1700, NA-TP-2007; modified from EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)

ICP/MS - TCLP

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Strontium

Thallium

Tin

Uranium

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Vanadium  
Zinc  
Zirconium

**Solids (Inorganic)**

Moisture - Solids [Soil] (170)

WP-TM-1108; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
GRAVIMETRIC  
Percent Moisture

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (201)

WP-TM-1036; modified from ASTM D422-63  
HYDROMETER  
Clay (<0.005mm)  
Gravel (4.75mm-75mm)  
Sand (0.075mm-4.75mm)  
Silt (0.005mm-0.075mm)

**Solids (Inorganic)**

Particle Size Analysis (PSA) - Solids [Soil] (202)

WP-TM-1035; modified from ASTM D422-63  
GRAVIMETRIC  
Sand (>75um)

**Solids (Inorganic)**

Percent Saturation - Solids [Saturated Paste] (186)

WP-TM-1034; SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15  
SATURATED PASTE  
Saturation Percentage

**Solids (Inorganic)**

pH - Solids [Soil] (182)

WP-TM-1032; SOIL SAMPLING & METHODS OF ANALYSIS 2ND ED, 2008  
pH METER  
pH

**Solids (Inorganic)**

Total Metals - Solids (131)

NA-TM-1002, NA-TP-2004, NA-TP-2007; modified from EPA 200.2 and EPA 6020B  
ICP/MS - DIGESTION  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Molybdenum

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Nickel  
Phosphorus  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Sulfur  
Thallium  
Thorium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Solids (Mycology)**

Mould - Solids [Bulk, Swab] (178)  
WP-TM-1703; INTRODUCTION TO FOOD-BOURNE FUNGI, 5TH ED  
CULTURABLE - MICROSCOPY  
Mould

**Solids (Organic)**

Glycols - Solids [Soil] (145)  
WP-TM-1102; modified from ASTM D3695-82  
GC/FID  
Diethylene glycol  
Ethylene glycol  
Propylene glycol  
Tetraethylene glycol  
Triethylene glycol

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (148)  
NA-TM-1100, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1  
METHOD  
GC/FID  
F2: C10-C16  
F3: C16-C34  
F4: C34-C50

**Solids (Organic)**

Petroleum Hydrocarbons (PHC) - Solids [Soil] (150)  
NA-TM-1100, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1  
METHOD  
GRAVIMETRIC - TUMBLER  
F4: Gravimetric

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids [Soil] (051)  
NA-TM-1105, NA-TP-2103; modified from EPA 8270D  
GC/MS - SHAKE EXTRACTION  
1-Methylnaphthalene  
2-Methylnaphthalene  
Acenaphthene  
Acenaphthylene  
Acridine  
Anthracene

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

**Solids (Organic)**

Volatile Fatty Acids - Solids [Soil] (129)

WP-TM-1105; modified from ASTM D2908-91

GC/MS - WATER EXTRACTION

Acetic acid  
Butyric acid  
Caproic acid  
Formic acid  
Isobutyric acid  
Isovaleric acid  
Propionic acid  
Valeric acid

**Solids (Organic)**

Volatile Organic Compounds (VOC) - Solids [Soil] (141)

NA-TM-1102, NA-TP-2102; modified from EPA 5021A and EPA 8260C

GC/MS - METHANOL EXTRACTION/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  
2,2-Dichloropropane  
4-Chlorotoluene  
4-Isopropyltoluene

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Acetone (2-Propanone)  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Hexane  
Isopropylbenzene  
m/p-xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl n-butyl ketone  
Methyl t-butyl ether  
n-Butylbenzene  
o-xylene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride

**Solids (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Solids [Soil] (140)  
NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD  
(PERFORMANCE BASED MODIFICATION)  
GC/FID - METHANOL EXTRACTION/HEADSPACE  
F1: C6-C10

**Tissue (Inorganic)**

Total Mercury - Tissue (198)  
NA-TM-1005, NA-TP-2006, NA-TP-2012; modified from EPA 1631E and EPA 200.3  
COLD VAPOUR AA  
Mercury

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**Tissue (Inorganic)**

Total Metals - Tissue (070)

NA-TM-1002, NA-TP-2006, NA-TP-2007; BCMOE LABORATORY MANUAL and EPA 6020B

ICP/MS - DIGESTION

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Calcium  
Cesium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Silver  
Sodium  
Strontium  
Tellurium  
Thallium  
Tin  
Titanium  
Uranium  
Vanadium  
Zinc

**Tissue (Organic)**

Chlorophyll - Tissue (171)

WP-TM-1022; modified from EPA 445.0

ACETONE EXTRACTION/FLUORESCENCE

Chlorophyll a

**Waste (Inorganic)**

Total Mercury - Waste (197)

NA-TM-1005, NA-TM-1700, NA-TP-2012; modified from EPA 1311 and EPA 1631E

COLD VAPOUR AA - DIGESTION - TCLP

Mercury

**Water (Biology)**

Phytoplankton and Zooplankton - Water (076)

WP-TM-0102; modified from SM 10200

MICROSCOPE EXAMINATION

Phytoplankton Enumeration

Phytoplankton identification

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Zooplankton Enumeration  
Zooplankton Identification

**Water (Inorganic)**

Alkalinity - Water (001)  
WP-TM-1028; modified from SM 2320 B  
TITRIMETRIC  
Alkalinity (pH 4.5)

**Water (Inorganic)**

Ammonia - Water (135)  
WP-TM-1011, WP-WI-3005; modified from SM 4500-NH3 F  
COLORIMETRIC - DISCRETE ANALYZER  
Ammonia

**Water (Inorganic)**

Anions - Water (134)  
NA-TM-1001; modified from EPA 300.1  
ION CHROMATOGRAPHY  
Bromide  
Chloride  
Fluoride  
Nitrate  
Nitrite  
Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (015)  
WP-TM-1015; modified from SM 5210 B  
D.O. METER  
BOD (5 day)  
CBOD (5 day)

**Water (Inorganic)**

Carbon - Water (038)  
WP-TM-1029; modified from SM 5310 B  
AUTO IR ANALYZER  
Inorganic Carbon  
Organic Carbon  
Total Carbon (Calculation)

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (060)  
WP-TM-1017; modified from HACH and SM 5220 D  
COLOR - DIGESTION  
COD

**Water (Inorganic)**

Chlorine - Water (147)  
WP-TM-1013; modified from SM 4500-CL G  
COLORIMETRIC  
Free Chlorine  
Total Chlorine

**Water (Inorganic)**

Colour - Water (136)  
WP-TM-1010, WP-WI-3005; modified from SM 2120 C  
COLORIMETRIC - DISCRETE ANALYZER  
True Colour

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**Water (Inorganic)**

Conductivity - Water (003)

WP-TM-1028; modified from SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

**Water (Inorganic)**

Dissolved and Extractable Metals - Water (056)

NA-TM-1002, NA-TP-2002, NA-TP-2007; modified from EPA 200.2 and EPA 6020B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

Sodium

Strontium

Sulfur

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Zirconium

**Water (Inorganic)**

Dissolved Oxygen - Water (088)

WP-TM-1018; modified from SM 4500-O C

IODOMETRIC - AZIDE MODIFICATION

Dissolved Oxygen

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**Water (Inorganic)**

Mercury - Water (196)

NA-TM-1005, NA-TP-2002, NA-TP-2012; modified from EPA 1631E and EPA 200.2 and SM 3030 B  
COLD VAPOUR AA - DIGESTION

Mercury

**Water (Inorganic)**

Oil and Grease - Water (169)

WP-TM-1109; modified from EPA 1664  
GRAVIMETRIC - EXTRACTION

Mineral Oil and Grease

Total Oil and Grease

**Water (Inorganic)**

pH - Water (019)

WP-TM-1028; modified from SM 4500-H+

pH METER

pH

**Water (Inorganic)**

Phosphorus - Water (164)

WP-TM-1016; modified from SM 4500-P A and SM 4500-P B and SM 4500-P E  
COLORIMETRIC - DISCRETE ANALYZER

Dissolved Phosphate

Phosphate

**Water (Inorganic)**

Phosphorus - Water (165)

WP-TM-1016; modified from SM 4500-P A and SM 4500-P B and SM 4500-P E  
COLORIMETRIC - DISCRETE ANALYZER - DIGESTION

Total Dissolved Phosphorus

Total Inorganic Phosphorus

Total Phosphorus

**Water (Inorganic)**

Silica - Water (137)

WP-TM-1012, WP-WI-3005; modified from SM 4500-SIO2  
COLORIMETRIC - DISCRETE ANALYZER

Reactive Silica

**Water (Inorganic)**

Solids - Water (014)

NA-TM-1004, WP-TM-1014; modified from SM 2540 B and SM 2540 C and SM 2540 D  
GRAVIMETRIC

Total Dissolved Solids

Total Solids

Total Suspended Solids

Volatile Suspended Solids

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (173)

WP-TM-1030, WP-TP-2000, WP-WI-3005; modified from SM 4500-NORG D  
COLORIMETRIC - DISCRETE ANALYZER

Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Metals - Water (180)

NA-TM-1002, NA-TP-2001, NA-TP-2007; EPA 200.2 and EPA 6020B  
ICP/MS - DIGESTION

Aluminum

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Antimony  
Antimony  
Arsenic  
Arsenic  
Barium  
Beryllium  
Beryllium  
Bismuth  
Boron  
Cadmium  
Cadmium  
Calcium  
Cesium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Lithium  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Phosphorus  
Potassium  
Rubidium  
Selenium  
Selenium  
Silicon  
Silver  
Silver  
Sodium  
Strontium  
Sulfur  
Tellurium  
Thallium  
Thorium  
Tin  
Tin  
Titanium  
Tungsten  
Uranium  
Uranium  
Vanadium  
Zinc  
Zirconium

**Water (Inorganic)**

Turbidity - Water (068)

WP-TM-1009; modified from SM 2130 B

TURBIDIMETRIC

Turbidity

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**Water (Inorganic)**

UV Absorbance and Transmittance - Water (166)

WP-TM-1027; modified from SM 5910 B

SPECTROPHOTOMETRIC

UV Absorbance

UV Transmittance

**Water (Microbiology)**

Coliforms - Water (039)

NA-TM-1300; modified from IDEXX and SM 9223 B

MOST PROBABLE NUMBER (QUANTI-TRAY)

Escherichia coli

Total Coliforms

**Water (Microbiology)**

Coliforms - Water (172)

WP-TM-1221; modified from ON MOECC E3407

MEMBRANE FILTRATION (DC-AGAR)

Escherichia coli

Total Coliforms

**Water (Microbiology)**

Cryptosporidium and Giardia - Water (053)

WP-TM-1212; modified from EPA 1623

IMS/FA - FILTRATION

Cryptosporidium Enumeration

Giardia Enumeration

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (025)

WP-TM-1218; modified from SM 9222 D

MEMBRANE FILTRATION (mFC)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (167)

NA-TM-1300; modified from SM 9223 B

MOST PROBABLE NUMBER (QUANTI-TRAY)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Fecal Streptococci - Water (199)

WP-TM-1231; modified from SM 9230 C

MEMBRANE FILTRATION

Fecal streptococcus

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (041)

NA-TM-1301; modified from SM 9215 B

POUR PLATE

Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Legionella - Water (118)

WP-TM-1213; modified from ISO 11731 and SM 9260 J

MEMBRANE FILTRATION

Legionella-enumeration

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**Water (Microbiology)**

Microcystins - Water (090)  
WP-TM-1104; ENVIROLOGIX MANUAL and TOXICON MANUAL  
ELISA  
Microcystins

**Water (Microbiology)**

Pseudomonas aeruginosa - Water (093)  
WP-TM-1215; modified from SM 9213 E  
MEMBRANE FILTRATION (mPAC)  
Pseudomonas aeruginosa

**Water (Microbiology)**

Total Coliforms - Water (078)  
WP-TM-1218; modified from SM 9222 B  
MEMBRANE FILTRATION (mENDO)  
Total Coliforms

**Water (Organic)**

Alcohols and Glycols - Water (146)  
WP-TM-1102; modified from ASTM D2908-91  
GC/FID  
Diethylene glycol  
Ethanol  
Ethylene glycol  
Isobutanol  
Isopropanol  
Methanol  
n-Butanol  
n-Pentanol  
Propylene glycol  
sec-Butanol  
Tetraethylene glycol  
Triethylene glycol

**Water (Organic)**

Chlorophyll A - Water (144)  
WP-TM-1022; EPA 445.0  
FLUORESCENCE  
Chlorophyll

**Water (Organic)**

Haloacetic Acids (HAA) - Water (124)  
WP-TM-1103; modified from EPA 552.2  
GC/ECD - LIQUID/LIQUID PARTITION  
Bromochloroacetic acid  
Dibromoacetic acid  
Dichloroacetic acid  
Monobromoacetic acid  
Monochloroacetic acid  
Trichloroacetic acid

**Water (Organic)**

Petroleum Hydrocarbons (PHC) - Water (132)  
NA-TM-1112, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1  
METHOD and EPA 3511  
GC/FID - EXTRACTION  
F2: C10-C16

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F3: C16-C34

F4: C34-C50

**Water (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Water (193)

NA-TM-1112, NA-TP-2103; modified from EPA 3511 and EPA 8270D

GC/MS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Acridine

Anthracene

Benzo (a) anthracene

Benzo (a) pyrene

Benzo (b,i) fluoranthene

Benzo (g,h,i) perylene

Benzo (k) fluoranthene

Chrysene

Dibenzo (a,h) anthracene

Fluoranthene

Fluorene

Indeno (1,2,3 - cd) pyrene

Naphthalene

Phenanthrene

Pyrene

Quinoline

**Water (Organic)**

Volatile Fatty Acids - Water (130)

WP-TM-1105; modified from ASTM D2908-91

GC/MS

Acetic acid

Butyric acid

Caproic acid

Formic acid

Isobutyric acid

Isovaleric acid

Propionic acid

Valeric acid

**Water (Organic)**

Volatile Organic Compounds (VOC) - Water (139)

NA-TM-1102; modified from EPA 5021A and EPA 8260C

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

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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  
2,2-Dichloropropane  
4-Chlorotoluene  
4-Isopropyltoluene  
Acetone (2-Propanone)  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromodichloromethane - Formation Potential  
Bromoform  
Bromoform - Formation Potential  
Bromomethane  
Carbon disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chlorodibromomethane - Formation Potential  
Chloroethane  
Chloroform  
Chloroform - Formation Potential  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichlorodifluoromethane  
Dichloromethane  
Ethylbenzene  
Ethylene Dibromide  
Hexachlorobutadiene  
Hexane  
Isopropylbenzene  
m/p-xylene  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl n-butyl ketone  
Methyl t-butyl ether  
n-Butylbenzene  
o-xylene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene

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trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl Chloride

**Water (Organic)**

Volatile Petroleum Hydrocarbons (VPH) - Water (138)  
NA-TM-1102; modified from EPA 5021A and EPA 8015D  
GC/FID - HEADSPACE  
F1: C6-C10

**Water (Toxicology)**

Daphnia magna - Water [Wastewater] (017)  
WP-TM-1401; EPS 1/RM/11 and EPS 1/RM/14  
ACUTE LETHALITY (SURVIVAL)  
Daphnia LC50 (48 h)  
Single Concentration (48h)

**Water (Toxicology)**

Microtox - Water [Wastewater] (050)  
WP-TM-1403; EPS 1/RM/24  
BIOLUMINESCENCE  
Microtox (30min.)  
Microtox (5min.)  
Microtox IC50 (15 min)

**Water (Toxicology)**

Rainbow Trout - Water [Wastewater] (049)  
WP-TM-1402; EPS 1/RM/13 and EPS 1/RM/9  
ACUTE LETHALITY (SURVIVAL)  
Single Concentration (96h)  
Trout LC50 (96 h)

**Water (Toxicology)**

Rainbow Trout [pH Stabilization] - Water [Wastewater] (161)  
WP-TM-1402; EPS 1/RM/13 and EPS 1/RM/50  
ACUTE LETHALITY (SURVIVAL)  
Single Concentration (96h) - pH Stabilization  
Trout LC50 (96h) - pH Stabilization

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