

CALA Scope of Accreditation

Laboratory Name: SGS Environmental Services (Lakefield)

Client ID: 1001999

Parent Institution: SGS Canada Inc.

Address: 185 Concession Street, Lakefield, Ontario, K0L 2H0

Contact: Ms. Dianne Griffin

Email: dianne.griffin@sgs.com; chris.bates@sgs.com

Phone: (705) 652-2006

Fax: (705) 652-6365

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Clients Served: All Interested Parties

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002 - Anions

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 300.1	Yes	Yes	No

Parameter

Bromide
Chloride
Nitrate
Nitrite
Sulfate

004 - Fluoride

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: ION SELECTIVE ELECTRODE (ISE)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-014

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-F- C	Yes	Yes	No

Parameter

Fluoride

006 - Phosphorus

Field of Accreditation: Environmental

Matrix: Water [Wastewater]

OSDWA[†]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-P J	Yes	Yes	No

Parameter

Total Dissolved Phosphorus
Total Phosphorus

007 - Nitrogen

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-002

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-NO3- F	Yes	Yes	No
SM 4500 NO2- B	Yes	Yes	No
SM 4500- N B	Yes	Yes	No

Parameter

Nitrate plus Nitrite
Total Nitrogen

008 - Biochemical Oxygen Demand (BOD)

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: DISSOLVED OXYGEN METER (DO)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5210 B	Yes	Yes	No

Parameter

Biochemical Oxygen Demand (BOD) (5 day), soluble

BOD (5 day)

Carbonaceous Biochemical Oxygen Demand (CBOD) (5 day), soluble

CBOD (5 day)

009 - Solids

Field of Accreditation: Environmental

Matrix: Water [Liquid Biosolid]

OSDWA†

Analytical Method: GRAVIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-004, ME-CA-[ENV] EWL-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2540	Yes	Yes	No

Parameter

Total Dissolved Solids

Total Solids (TS)

Total Suspended Solids

Volatile Solids (VS)

Volatile Suspended Solids

010 - Polychlorinated Biphenyls (PCB)

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: GC/ECD

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 8082	Yes	Yes	No

Parameter

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

011 - Semi-Volatile Organic Compounds (SVOC)

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1625	Yes	Yes	No
EPA 3510	Yes	Yes	No
EPA 8270	Yes	Yes	No

Parameter

1,2,4-Trichlorobenzene

1,2-Dichlorobenzene

1,2-Dinitrobenzene (o-Dinitrobenzene)

1,3-Dichlorobenzene

1,3-Dinitrobenzene (1,3-DNB)

1,4-Dichlorobenzene

1,4-Dinitrobenzene

1-Chloronaphthalene

1-Methylnaphthalene

2,3,4,6-Tetrachlorophenol

2,3,5,6-Tetrachlorophenol

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4-Dinitrotoluene

Parameter

2,6-Dinitrotoluene (2,6-DNT)
2-Chloronaphthalene
2-Chlorophenol
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)
2-Methylnaphthalene
2-Methylphenol (o-Cresol)
2-Nitroaniline
2-Nitrophenol
3,3-Dichlorobenzidine
3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)
3-Nitroaniline
4-Chloro-3-methylphenol
4-Chloroaniline (p-Chloroaniline)
4-Chlorophenyl phenyl ether
4-Nitroaniline
4-Nitrophenol
5-Nitroacenaphthene
7H-Dibenzo(c,g)carbazole
Acenaphthene
Acenaphthylene
Acridine
Aniline
Anthracene
Azobenzene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b,j)fluoranthene
Benzo(e)pyrene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Benzyl alcohol
Biphenyl (1,1-Biphenyl)
Bis(2-chloro-1-methylethyl) ether
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-ethylhexyl) adipate
Bis(2-ethylhexyl) phthalate (Diethylhexyl phthalate)
Bisphenol A (BPA)
Butyl benzyl phthalate
Camphene
Carbazole
Chrysene
Dibenzo(a,e)pyrene
Dibenzo(a,h)acridine
Dibenzo(a,h)anthracene
Dibenzo(a,h)pyrene
Dibenzo(a,i)pyrene
Dibenzo(a,j)acridine
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diphenyl ether
Diphenylamine = N-nitrosodiphenylamine
Fluoranthene
Fluorene
Hexachlorobenzene (HCB)
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3 - cd)pyrene
Indole
Isophorone
Naphthalene
Nitrobenzene (NB)
N-Nitrosodimethylamine (NDMA)
N-Nitrosodi-n-propylamine
Octachlorostyrene
PBDE 3 (4-Bromophenyl phenyl ether)
p-Dioxane
Pentachlorophenol
Perylene

Parameter
Phenanthrene
Phenol
Pyrene
Pyridine
Quinoline

012 - Polychlorinated Biphenyls (PCB)

Field of Accreditation: Environmental

Matrix: Oil

Analytical Method: GC/ECD

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D4059	Yes	Yes	No

Parameter
Aroclor 1242
Aroclor 1254
Aroclor 1260
Total PCB

015 - Cyanide

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-CN- O	Yes	Yes	No

Parameter
Cyanide (SAD)
Free Cyanide

016 - pH

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: PH METER

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-H+ B	Yes	Yes	No

Parameter
pH

017 - Volatile Organic Compounds (VOC)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS-PURGE AND TRAP

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 5030	Yes	Yes	No
EPA 8260	Yes	Yes	No

Parameter
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene

Parameter
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chloroethyl vinyl ether
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
4-Chlorotoluene (p-Chlorotoluene)
4-Isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Butylbenzene (n-Butylbenzene)
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane (CFC-12, Freon 12)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexane (n-Hexane)
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Propylbenzene
o-Xylene
sec-Butylbenzene ((1-Methylpropyl)benzene)
Styrene
tert-Butylbenzene
Tetrachloroethylene
Thiophene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

020 - Phenols

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5530 B	Yes	Yes	No
SM 5530 D	Yes	Yes	No

Parameter
Total Phenolics

022 - Oil and Grease

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: GRAVIMETRIC

Preparation Method: SHAKE EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	Yes	Yes	No

Parameter
Mineral Oil and Grease
Total Oil and Grease

025 - Polychlorinated Biphenyls (PCB)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: GC/ECD

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3570	Yes	Yes	No
EPA 8082	Yes	Yes	No

Parameter

Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

029 - Total Kjeldahl Nitrogen (TKN)

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-NH3 G	Yes	Yes	No
SM 4500-NORG	Yes	Yes	No

Parameter

Kjeldahl Nitrogen

032 - Acid Base Accounting (ABA)

Field of Accreditation: Environmental

Matrix: Solids [Rock, Tailings]

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
MEND REPORT 1.20.1	Yes	Yes	No

Parameter

Neutralization Potential (NP)

052 - Heterotrophic Plate Count (HPC)

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: MEMBRANE FILTRATION

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] MIC-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9215 A	Yes	Yes	No

Parameter

Heterotrophic Plate Count (HPC)

069 - Semi-Volatile Organic Compounds (SVOC)

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1625	Yes	Yes	No
EPA 3541	Yes	Yes	No
EPA 8270	Yes	Yes	No

Parameter

1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,2-Dinitrobenzene (o-Dinitrobenzene)
1,3-Dichlorobenzene
1,3-Dinitrobenzene (1,3-DNB)
1,4-Dichlorobenzene
1,4-Dinitrobenzene
1-Chloronaphthalene
1-Methylnaphthalene
2,3,4,6-Tetrachlorophenol

Parameter

2,3,5,6-Tetrachlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene (2,6-DNT)
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol (o-Cresol)
2-Nitroaniline
2-Nitrophenol
3,3-Dichlorobenzidine
3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Chloro-3-methylphenol
4-Chloroaniline (p-Chloroaniline)
4-Chlorophenyl phenyl ether
4-Nitroaniline
4-Nitrophenol
5-Nitroacenaphthene
Acenaphthene
Acenaphthylene
Acridine
Aniline
Anthracene
Azobenzene + 1,2-Diphenylhydrazine
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b,j)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Benzyl alcohol
Biphenyl (1,1-Biphenyl)
Bis(2-chloro-1-methylethyl) ether
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-ethylhexyl) adipate
Bis(2-ethylhexyl) phthalate (Diethylhexyl phthalate)
Bisphenol A (BPA)
Butyl benzyl phthalate
Camphene
Carbazole
Chrysene
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diphenyl ether
Diphenylamine = N-nitrosodiphenylamine
Fluoranthene
Fluorene
Hexachlorobenzene (HCB)
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3 - cd)pyrene
Indole
Isophorone
Naphthalene
Nitrobenzene (NB)
N-Nitrosodimethylamine (NDMA)
N-Nitrosodi-n-propylamine
Octachlorostyrene
PBDE 3 (4-Bromophenyl phenyl ether)
p-Dioxane
Pentachlorophenol
Perylene

Parameter
Phenanthrene
Phenol
Pyrene
Pyridine
Quinoline

070 - Metals

Field of Accreditation: Environmental

Matrix: Air [Filter]

Analytical Method: ICP/OES

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
NIOSH 7302	Yes	No	Yes
EPA 200.7	Yes	Yes	No

Parameter
Arsenic
Beryllium
Cadmium
Chromium
Cobalt
Lead
Manganese
Nickel
Zinc

071 - Chemical Oxygen Demand (COD)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-009

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5220 D	Yes	Yes	No

Parameter
COD

073 - Glyphosate

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 547	Yes	Yes	No

Parameter
Glyphosate

074 - Diquat and Paraquat

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 549.2	Yes	Yes	No

Parameter
Diquat
Paraquat

076 - Sulphur Speciation

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No

Parameter
Tetrathionate
Thiocyanate

Parameter
Thiosulfate

079 - Cyanate

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-002

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No

Parameter
Cyanate

081 - Dissolved and Total Reactive Phosphorus

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-P F	Yes	Yes	No

Parameter
Dissolved Reactive Phosphorus
Phosphate

082 - Ammonia

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-NH3 G	Yes	Yes	No

Parameter
Ammonia
Ammonium (NH₄)

090 - Geosmin and 2-Methylisoborneol (MIB)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-012

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No

Parameter
2-Methylisoborneol (MIB)
Geosmin

095 - Thiosalts

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No

Parameter
Thiosalts

101 - Sulphide

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-008

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-S2- E	Yes	Yes	No

Parameter
Sulphide

102 - Colour

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-002

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2120 C	Yes	Yes	No

Parameter
Apparent Colour
True Colour

103 - Turbidity

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: TURBIDIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2130 B	Yes	Yes	No

Parameter
Turbidity

106 - Clostridium perfringens

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: MEMBRANE FILTRATION (M-CP)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] MIC-LAK-AN-011

Method Reference	Modified From	Analytical Method	Preparation Method
EPA ICR MICROBIAL LABORATORY MANUAL	Yes	Yes	No

Parameter
Clostridium perfringens (C. perfringens)

110 - Nitritotriacetic Acid (NTA)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No

Parameter
Nitritotriacetic acid (NTA)

114 - Dissolved and Extractable Metals

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: ICP/MS

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.8	Yes	Yes	No
SM 3030 B	Yes	Yes	No
SM 3030 D	Yes	Yes	No

Parameter
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt

Parameter
Copper
Dysprosium
Erbium
Europium
Gold
Hafnium
Holmium
Iron
Lanthanum
Lead
Lithium
Lutetium
Magnesium
Manganese
Molybdenum
Neodymium
Nickel
Niobium
Osmium
Palladium
Phosphorus
Platinum
Potassium
Praseodymium
Rhenium
Rhodium
Rubidium
Ruthenium
Samarium
Scandium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tantalum
Tellurium
Terbium
Thallium
Thorium
Thulium
Tin
Titanium
Tungsten
Uranium
Vanadium
Ytterbium
Yttrium
Zinc
Zirconium

117 - Modified Acid Base Accounting (ABA)

Field of Accreditation: Environmental

Matrix: Solids [Rock, Tailings]

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
MEND PROJECT 1.16.1B	Yes	Yes	No

Parameter

Neutralization Potential (NP)

118 - Mercury

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: COLD VAPOUR ATOMIC ABSORPTION (CVAA)

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 245.1	Yes	Yes	No

Parameter

Mercury

125 - Paste pH

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Rock, Sediment, Sludge, Soil, Tailings]

Analytical Method: PH METER

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
MEND PROJECT 1.16.1B	Yes	Yes	No

Parameter

Paste pH

132 - Total Metals

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ICP/MS

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.8	Yes	Yes	No
SM 3030 D	Yes	No	Yes

Parameter

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt
Copper
Dysprosium
Erbium
Europium
Gold
Hafnium
Holmium
Iron
Lanthanum
Lead
Lithium
Lutetium
Magnesium
Manganese
Molybdenum
Neodymium
Nickel
Niobium
Osmium
Palladium
Phosphorus
Platinum
Potassium
Praseodymium
Rhenium
Rhodium
Rubidium
Ruthenium
Samarium
Scandium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tantalum
Tellurium
Terbium
Thallium

Parameter

Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Yttrium
Zinc
Zirconium

133 - Volatile Organic Compounds (VOC)**Field of Accreditation:** Environmental**Matrix:** Solids [Biosolid, Sediment, Sludge, Soil]**Analytical Method:** GC/MS-PURGE AND TRAP**Preparation Method:****Lab Method ID(s):** ME-CA-[ENV] GC-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 5030	Yes	Yes	No
EPA 5035	Yes	Yes	No
EPA 8260	Yes	Yes	No

Parameter

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chloroethyl vinyl ether
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
4-Chlorotoluene (p-Chlorotoluene)
4-Isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Butylbenzene (n-Butylbenzene)
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane (CFC-12, Freon 12)
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexane (n-Hexane)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether

Parameter
n-Propylbenzene
o-Xylene
sec-Butylbenzene ((1-Methylpropyl)benzene)
Styrene
tert-Butylbenzene
Tetrachloroethylene
Thiophene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

134 - Methane

Field of Accreditation: Environmental		Matrix: Water		OSDWA [†]
Analytical Method: GC/FID-HEADSPACE		Preparation Method:		
Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-014				
Method Reference	Modified From	Analytical Method	Preparation Method	
IN-HOUSE	No	Yes	No	
Parameter				
Methane				

137 - Coliforms

Field of Accreditation: Environmental		Matrix: Water		OSDWA†
Analytical Method: MEMBRANE FILTRATION (DC)		Preparation Method:		
Lab Method ID(s): ME-CA-[ENV] MIC-LAK-AN-001				
Method Reference	Modified From	Analytical Method	Preparation Method	
ON MECP E3407	Yes	Yes	No	
SM 9222	Yes	Yes	No	
Parameter				
Background Counts				
Escherichia coli				
Total Coliforms				

141 - Mercury

Field of Accreditation: Environmental		Matrix: Solids [Biosolid, Sediment, Sludge, Soil]	
Analytical Method: COLD VAPOUR ATOMIC ABSORPTION (CVAA)		Preparation Method: DIGESTION	
Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-004			
Method Reference	Modified From	Analytical Method	Preparation Method
EPA 245.1	Yes	Yes	No
EPA 7471	Yes	Yes	No
Parameter			
Mercury			

144 - Alkalinity

Field of Accreditation: Environmental		Matrix: Water		OSDWAT
Analytical Method: TITRIMETRIC		Preparation Method:		
Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006				
Method Reference	Modified From	Analytical Method	Preparation Method	
SM 2320 B	Yes	Yes	No	
Parameter				
Alkalinity (pH 4.5)				

145 - pH

Field of Accreditation: Environmental		Matrix: Water		OSDWA†
Analytical Method: TITRIMETRIC		Preparation Method:		
Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006				
Method Reference	Modified From	Analytical Method	Preparation Method	
SM 4500-H+ B	Yes	Yes	No	
Parameter				
pH				

146 - Conductivity

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2510 B	Yes	Yes	No

Parameter

Conductivity (25°C)

147 - Haloacetic Acids (HAA)

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-013

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 552.3	Yes	Yes	No

Parameter

Bromochloroacetic acid
Dibromoacetic acid
Dichloroacetic acid
Monobromoacetic acid
Monochloroacetic acid
Trichloroacetic acid

148 - Disinfection By-Products

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 317.0	Yes	Yes	No

Parameter

Bromate (BrO₃)
Bromide
Chlorate
Chlorite

149 - Carbon

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-009

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5310 C	Yes	Yes	No

Parameter

Organic Carbon
Total Carbon (TC)

150 - UV Transmittance

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-012

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5910	Yes	Yes	No

Parameter

UV Absorbance
UV Transmittance

151 - Chlorine

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-008

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-CL G	Yes	Yes	No

Parameter

Free Chlorine
Total Chlorine

175 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: ICP/MS

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3050	Yes	No	Yes
EPA 6020	Yes	Yes	No

Parameter

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

178 - Phenoxy Acid Herbicides and Chlorophenols

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 515.1	Yes	No	Yes
IN-HOUSE	No	Yes	No

Parameter

2,3,4,6-Tetrachlorophenol
2,4,5-TP (Silvex)
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dichlorophenoxyacetic acid
Bromoxynil
Dicamba
Diclofop-methyl (as free acid)
Dinoseb
MCPA (2-Methyl-4-chlorophenoxyacetic acid)
Pentachlorophenol
Picloram

181 - Acidity

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2310 B	Yes	Yes	No

Parameter
Acidity

183 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: GC/FID

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	Yes	Yes	No

Parameter
Extractable Petroleum Hydrocarbons (EPH): C10-C34
F2: C10-C16
F3: C16-C34
F4: C34-C50

185 - Volatile Acids

Field of Accreditation: Environmental

Matrix: Solids [Sludge]

Analytical Method: COLORIMETRIC

Preparation Method: LEACH

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5560 C	Yes	Yes	No

Parameter
Volatile acids

186 - Solids

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: GRAVIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2540	Yes	Yes	No

Parameter
Fixed Solids
Loss on Ignition (LOI) at 550C
Total Solids
Volatile Solids

188 - Tannin and Lignin

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-015

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5550 B	Yes	Yes	No

Parameter
Tannin and Lignin

189 - EMF

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ELECTRODE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-013

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2580 B	Yes	Yes	No

Parameter
EMF (REDOX POTENTIAL)

190 - Alkalinity

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2320	Yes	Yes	No

Parameter

Alkalinity (pH 4.5)

191 - Ammonia

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: COLORIMETRIC

Preparation Method: LEACH

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-NH3 G	Yes	Yes	No

Parameter

Ammonia-N

Ammonium (NH4)

192 - Anions

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method: LEACH

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 300.1	Yes	Yes	No

Parameter

Bromide

Chloride

Nitrate-N

Nitrite (NO2)

Sulphate

193 - Cyanide

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: COLORIMETRIC

Preparation Method: DISTILLATION

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-CN- C	Yes	Yes	No
SM 4500-CN- A	Yes	Yes	No
SM 4500-CN- O	Yes	Yes	No

Parameter

Cyanide (SAD)

Cyanide (WAD)

Free Cyanide

197 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: GC/FID

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	No	Yes	No

Parameter

Extractable Petroleum Hydrocarbons (EPH): C10-C34

F2: C10-C16

F3: C16-C34

F4: C34-C50

198 - Carbon-Sulphur Speciation

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Rock, Sediment, Sludge, Soil, Tailings]

Analytical Method: CARBON SULPHUR ANALYZER

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-020

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM E1915	Yes	Yes	No

Parameter

Carbonate (CO3)
Sulphate (Sulfate)
Sulphide (Sulfide)
Total Organic Carbon (TOC)

202 - Carbon-Sulphur Speciation

Field of Accreditation: Environmental **Matrix:** Solids [Biosolid, Rock, Sediment, Sludge, Soil, Tailings]

Analytical Method: CARBON SULPHUR ANALYZER **Preparation Method:**

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-019

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM E1915	Yes	Yes	No

Parameter

Total Carbon (TC)
Total Sulphur (Total Sulfur)

203 - Nonylphenol and Nonylphenol Ethoxylates

Field of Accreditation: Environmental **Matrix:** Water OSDWA[†]

Analytical Method: GC/MS **Preparation Method:** EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-015

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D7065-06	Yes	Yes	No

Parameter

Nonylphenol
Nonylphenol Diethoxylate (NP2EO)
Nonylphenol Monoethoxylates (NP1EO)

206 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental **Matrix:** Solids

Analytical Method: GRAVIMETRIC **Preparation Method:** EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	No	Yes	No

Parameter

F4: Gravimetric

207 - pH

Field of Accreditation: Environmental **Matrix:** Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: PH METER **Preparation Method:**

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
ON MECP E3530	Yes	Yes	No

Parameter

pH

208 - pH

Field of Accreditation: Environmental **Matrix:** Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: TITRIMETRIC **Preparation Method:**

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
ON MECP E3530	Yes	Yes	No
EPA 9045D	Yes	Yes	No

Parameter

pH

210 - Conductivity

Field of Accreditation: Environmental **Matrix:** Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: CONDUCTIVITY METER **Preparation Method:**

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
ON MECP E3530	Yes	Yes	Yes

Parameter

Conductivity

211 - Biochemical Oxygen Demand (BOD)

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sludge]

Analytical Method: DISSOLVED OXYGEN METER (DO)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5210 B	Yes	Yes	No

Parameter

Biochemical Oxygen Demand (BOD)

Carbonaceous Biochemical Oxygen Demand (CBOD)

216 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Biota, Sediment, Sludge, Soil]

Analytical Method: ICP/MS

Preparation Method: MICROWAVE DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.8	Yes	Yes	No
EPA 3052	Yes	No	Yes

Parameter

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Yttrium

Zinc

217 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GRAVIMETRIC

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	Yes	Yes	No

Parameter

F4: Gravimetric

222 - Reactive Silica

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-018

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-SI	Yes	Yes	No

Parameter

Reactive Silica

224 - Organochlorine (OC) Pesticides

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-018

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3541	Yes	Yes	No
EPA 8270	Yes	Yes	No

Parameter

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)
4,4'-Methoxychlor (p,p'-Methoxychlor)
Alachlor
Aldicarb
Aldrin
alpha-BHC
alpha-Chlordane
Atrazine
Azinphos-methyl (Guthion)
Bendiocarb
beta-BHC
Carbaryl
Carbofuran
Chlorpyrifos (Dursban)
Cyanazine (Bladex)
delta-Hexachlorocyclohexane (d-HCH, d-BHC, delta-HCH, delta-BHC)
Desethyl atrazine
Diazinon
Dieldrin
Dimethoate
Diuron (DCPMU)
Endosulfan I (a-Endosulfan)
Endosulfan II (b-Endosulfan)
Endosulfan sulfate (Endosulphan sulphate)
Endrin
Endrin aldehyde
Endrin ketone
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene (HCB)
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)
Hexachloroethane
Lindane (gamma-BHC)
Malathion
Methyl parathion (Parathion-methyl)
Metolachlor
Metribuzin (Sencor)
Mirex
Oxychlordane
Parathion (Ethyl parathion, Parathion (ethyl))
Phorate (Thimet)
Prometryne
Simazine
Temephos (Abate)
Terbufos
Triallate
Trifluralin

227 - Polychlorinated Biphenyls (PCB)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3570	Yes	Yes	No
EPA 8270	Yes	Yes	No

Parameter

Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

228 - Total Polychlorinated Biphenyls (PCB)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 8270	Yes	Yes	No

Parameter

Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

229 - Metals

Field of Accreditation: Environmental

Matrix: Biota

Analytical Method: ICP/MS

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-009

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.8	Yes	Yes	No
EPA 3052	Yes	Yes	No

Parameter

Aluminum
Arsenic
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Selenium
Tin
Zinc

231 - Ferrous Iron

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC-UV/VISIBLE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-019

Method Reference	Modified From	Analytical Method	Preparation Method
SM 3500-FE B	Yes	Yes	No

Parameter

Ferrous Iron (Fe²⁺)

233 - Heterotrophic Plate Count (HPC)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: POUR PLATE (MTGE)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] MIC-LAK-AN-017

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9215 B	Yes	Yes	No

Parameter

Heterotrophic Plate Count (HPC)

234 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Biosolid, Sediment, Sludge, Soil]

Analytical Method: ICP/OES

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-002

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.7	Yes	Yes	No
O.REG 153	No	No	Yes

Parameter

Hot Water Extractable Boron (Boron (Hot Water Soluble))

236 - Neutral Pesticides

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-018

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3510	Yes	Yes	No
EPA 8270	Yes	Yes	No

Parameter

2,4'-DDD (o,p'-DDD)
2,4'-DDE (o,p'-DDE)
4,4'-DDD (p,p'-DDD)
4,4'-DDE (p,p'-DDE)
a - Chlordane
A -BHC
Alachlor
Aldicarb
Aldrin
Atrazine
Azinphos-methyl
Bendiocarb
beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-HCH, beta-BHC)
Carbaryl
Carbofuran
Chlorpyrifos ethyl
Cyanazine
delta-Hexachlorocyclohexane (d-HCH, d-BHC, delta-HCH, delta-BHC)
Desethyl atrazine
Diazinon
Dieldrin
Dimethoate
Diuron
Endosulfan I
Endosulfan II
Endosulfan sulfate (Endosulphan sulphate)
Endrin
Endrin aldehyde
Endrin ketone
g - Chlordane
Heptachlor
Heptachlor epoxide
Hexachlorobenzene (HCB)
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)
Hexachloroethane
Lindane (gamma-BHC)
Malathion
Methyl parathion (Parathion-methyl)
Metolachlor
Metribuzin (Sencor)
Mirex
o,p' - DDT
Oxychlordane
p,p' - DDT
p,p' Methoxychlor

Parameter
Parathion (ethyl)
Phorate (Thimet)
Prometryne
Simazine
Temephos (Abate)
Terbufos
Toxaphene
Triallate
Trifluralin

237 - Oil and Grease

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: GRAVIMETRIC

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-019

Method Reference	Modified From	Analytical Method	Preparation Method
ON MECP E3401	Yes	Yes	No

Parameter
Mineral Oil and Grease
Total Oil and Grease

239 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ICP/OES

Preparation Method: LEACH-SAR

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-021, ME-CA-[ENV] SPE-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.7	Yes	Yes	No
O.REG 153	Yes	No	Yes

Parameter
Calcium
Magnesium
Sodium

242 - Salmonella

Field of Accreditation: Environmental

Matrix: Solids [Compost, Sludge, Soil]

Analytical Method: PRESENCE/ABSENCE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] MIC-LAK-AN-018

Method Reference	Modified From	Analytical Method	Preparation Method
MFHPB-20	Yes	Yes	No

Parameter
Salmonella

243 - Glycols

Field of Accreditation: Environmental

Matrix: Water

OSDWA†

Analytical Method: GC/FID

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-020

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 8015	Yes	Yes	No

Parameter
Diethylene glycol
Ethylene glycol
Propylene glycol

245 - Polychlorinated Biphenyls (PCB)

Field of Accreditation: Environmental

Matrix: Solids [Swab]

Analytical Method: GC/ECD

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 8082	Yes	Yes	No
IN-HOUSE	Yes	Yes	No

Parameter
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCBs (Total Polychlorinated Biphenyls)

246 - Carbon

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: NDIR-COMBUSTION

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-023

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5310 B	Yes	Yes	No

Parameter
Inorganic Carbon
Organic Carbon
Total Carbon (TC)

248 - Metals

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: ICP/MS

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-013

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	No	Yes
EPA 200.8	Yes	Yes	No

Parameter
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Cerium
Cesium
Chromium
Cobalt
Copper
Dysprosium
Erbium
Europium
Hafnium
Holmium
Iron
Lanthanum
Lead
Lithium
Lutetium
Magnesium
Manganese
Molybdenum
Neodymium
Nickel
Niobium
Phosphorus
Potassium
Praseodymium
Rubidium
Ruthenium
Samarium
Scandium
Selenium
Silver
Sodium
Strontium
Tantalum
Tellurium
Terbium

Parameter

Thallium
Thorium
Thulium
Tin
Titanium
Tungsten
Uranium
Vanadium
Ytterbium
Yttrium
Zinc
Zirconium

252 - Endotoxin**Field of Accreditation:** Environmental**Matrix:** WaterOSDWA[†]**Analytical Method:** TURBIDIMETRIC LIMULUS AMEBOCYTE LYSATE**Preparation Method:****Lab Method ID(s):** ME-CA-[ENV] MIC-LAK-AN-015**Method Reference****Modified From****Analytical Method****Preparation Method**

TURBIDIMETRIC LIMULUS AMEBOCYTE LYSATE (LAL) TEST

Yes

Yes

No

Parameter

Endotoxin

253 - Microcystins**Field of Accreditation:** Environmental**Matrix:** WaterOSDWA[†]**Analytical Method:** ENZYME-LINKED IMMUNOSORBENT ASSAY
(ELISA)**Preparation Method:****Lab Method ID(s):** ME-CA-[ENV] MIC-LAK-AN-014**Method Reference****Modified From****Analytical Method****Preparation Method**

ENVIROLOGIX INSTRUCTIONS FOR QUANTIPLATE

Yes

Yes

No

Parameter

Microcystins

254 - Total Kjeldahl Nitrogen (TKN)**Field of Accreditation:** Environmental**Matrix:** WaterOSDWA[†]**Analytical Method:** COLORIMETRIC-SEGMENTED FLOW ANALYSIS
(SFA)**Preparation Method:** DIGESTION**Lab Method ID(s):** ME-CA-[ENV] SFA-LAK-AN-001**Method Reference****Modified From****Analytical Method****Preparation Method**

SM 4500-NH3 G

Yes

Yes

No

SM 4500-NORG

Yes

Yes

No

Parameter

Total Kjeldahl Nitrogen

255 - Chloride**Field of Accreditation:** Environmental**Matrix:** Water**Analytical Method:** COLORIMETRIC**Preparation Method:****Lab Method ID(s):** ME-CA-[ENV] EWL-LAK-AN-026**Method Reference****Modified From****Analytical Method****Preparation Method**

EPA 325.2

Yes

Yes

No

Parameter

Chloride

256 - Arsenic Speciation**Field of Accreditation:** Environmental**Matrix:** Water**Analytical Method:** LC/ICP/MS**Preparation Method:****Lab Method ID(s):** ME-CA-[ENV] SPE-LAK-AN-015**Method Reference****Modified From****Analytical Method****Preparation Method**

IN-HOUSE

No

Yes

No

Parameter

Arsenic (As(III))

Arsenic (As(V))

257 - BTEX

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: GC/MS-HEADSPACE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 5021	Yes	Yes	No
EPA 8260	Yes	Yes	No

Parameter

Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

258 - BTEX

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/MS-HEADSPACE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 5021	Yes	Yes	No
EPA 8260	Yes	Yes	No

Parameter

Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

260 - Dust

Field of Accreditation: Environmental

Matrix: Air [Filter]

Analytical Method: GRAVIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] IC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
NIOSH 0500	Yes	Yes	No
NIOSH 0600	Yes	Yes	No

Parameter

Total Dustfall
Total Respirable Dust

261 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: GC/FID-HEADSPACE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	Yes	Yes	No
EPA 5021	Yes	Yes	No

Parameter

F1: C6-C10

262 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GC/FID-HEADSPACE

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-010

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	Yes	Yes	No
EPA 5021	Yes	Yes	No

Parameter

F1: C6-C10

267 - Selenium Speciation

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: LC/ICP/MS

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-16

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No

Parameter

Selenium (IV)

Selenium (VI)

268 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Ore, Rock, Soil, Tailings]

Analytical Method: ICP/MS

Preparation Method: TCLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-011, ME-CA-[ENV] SPE-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1311	No	No	Yes
EPA 200.8	Yes	Yes	No

Parameter

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Uranium

Vanadium

Yttrium

Zinc

272 - Sulphate (Sulfate)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-026

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 375.4	Yes	Yes	No

Parameter

Sulfate

274 - Volatile Organic Compounds (VOC)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/MS-PURGE AND TRAP

Preparation Method: TCLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-011, ME-CA-[ENV] GC-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1311	No	No	Yes
EPA 8260	Yes	Yes	No

Parameter
1,1-Dichloroethene (1,1-Dichloroethylene)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,4-Dichlorobenzene
Benzene
Carbon tetrachloride
Chlorobenzene
Chloroform
Dichloromethane
Methyl ethyl ketone
Tetrachloroethylene
Trichloroethylene

275 - Cyanide

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: COLORIMETRIC

Preparation Method: TCLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-011, ME-CA-[ENV] SFA-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1311	No	No	Yes
SM 4500-CN-	Yes	Yes	No

Parameter
Cyanide (WAD)

276 - Fluoride

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ION SELECTIVE ELECTRODE (ISE)

Preparation Method: TCLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-011, ME-CA-[ENV] EWL-LAK-AN-014

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1311	No	No	Yes
SM 4500-F-	Yes	Yes	No

Parameter
Fluoride

277 - Anions

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method: TCLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-011, ME-CA-[ENV] IC-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1311	No	No	Yes
EPA 300.1	Yes	Yes	No

Parameter
Nitrate
Nitrate plus Nitrite
Nitrite (NO₂)

278 - Mercury

Field of Accreditation: Environmental

Matrix: Waste

Analytical Method: COLD VAPOUR ATOMIC ABSORPTION (CVAA)

Preparation Method: TCLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-011, ME-CA-[ENV] SPE-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1311	No	No	Yes
EPA 245.1	Yes	Yes	No

Parameter
Mercury

282 - Glycols

Field of Accreditation: Environmental

Matrix: Solids [Sediment, Soil]

Analytical Method: GC/FID

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-020

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 8015	No	Yes	No

Parameter

Diethylene glycol
Ethylene glycol
Propylene glycol

283 - Gross Alpha Activity and Gross Beta Activity

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: GAS FLOW PROPORTIONAL COUNTING (GFPC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] RAD-LAK-AN-003

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 900.0	Yes	Yes	No

Parameter

Gross Alpha Activity
Gross Beta Activity

284 - Tritium

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: LIQUID SCINTILLATION COUNTING (LSC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] RAD-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 906.0	Yes	Yes	No
SM 7500-H3	Yes	Yes	No

Parameter

Tritium

285 - Gamma Emitters

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: GAMMA SPECTROSCOPY

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] RAD-LAK-AN-001

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM C1402-17	Yes	Yes	No

Parameter

Actinium-228
Bismuth-212
Bismuth-214
Cesium-134
Cesium-137
Cobalt-60
Lead-210
Lead-212
Lead-214
Manganese-54
Potassium-40
Radium-226
Thorium 230
Uranium-235
Zinc-65

286 - Hexavalent Chromium

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: COLORIMETRIC-SEGMENTED FLOW ANALYSIS (SFA)

Preparation Method: DIGESTION

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-012

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3060	No	Yes	No
SM 3500-CR B	Yes	Yes	No

Parameter

Hexavalent Chromium

287 - Hexavalent Chromium

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] SFA-LAK-AN-012

Method Reference	Modified From	Analytical Method	Preparation Method
SM 3500-CR B	Yes	Yes	No

Parameter

Hexavalent Chromium

289 - Hot Water Soluble Boron

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: ICP/MS

Preparation Method: EXTRACTION

Lab Method ID(s): ME-CA-[ENV] SPE-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.8	No	Yes	No
O.REG 153	No	No	Yes

Parameter

Hot Water Extractable Boron (Boron (Hot Water Soluble))

290 - Metals

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: ICP/MS

Preparation Method: SPLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-010, ME-CA-[ENV] SPE-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1312	No	No	Yes
EPA 200.8	Yes	Yes	No

Parameter

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Lead
Molybdenum
Nickel
Selenium
Silver
Thallium
Uranium
Vanadium
Zinc

291 - Mercury

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: COLD VAPOUR ATOMIC ABSORPTION (CVAA)

Preparation Method: SPLP

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-010, ME-CA-[ENV] SPE-LAK-AN-004

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1312	No	No	Yes
EPA 245.1	Yes	Yes	No

Parameter

Mercury

292 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ICP/MS

Preparation Method: LEACH-SAR

Lab Method ID(s): ME-CA-[ENV] ARD-LAK-AN-021, ME-CA-[ENV] SPE-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 200.8	Yes	Yes	No
O.REG 153	Yes	No	Yes

Parameter
Calcium
Magnesium
Sodium

294 - Radium-226

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: ALPHA SPECTROSCOPY

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] RAD-LAK-AN-006

Method Reference	Modified From	Analytical Method	Preparation Method
EICHROM AN-1418-10	Yes	Yes	No

Parameter
Radium-226

295 - Radium-226

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ALPHA SPECTROSCOPY

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] RAD-LAK-AN-007

Method Reference	Modified From	Analytical Method	Preparation Method
EICHROM AN-1421-10	Yes	Yes	No

Parameter
Radium-226

296 - Nitrate plus Nitrite and Nitrite

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-026

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 353.2	Yes	Yes	No

Parameter
Nitrate plus Nitrite
Nitrite

297 - Polycyclic Aromatic Hydrocarbons (PAH)

Field of Accreditation: Environmental

Matrix: Solids [Sediment, Soil]

Analytical Method: GC/MS

Preparation Method: SHAKE EXTRACTION

Lab Method ID(s): ME-CA-[ENV] GC-LAK-AN-005

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3541	Yes	No	Yes
EPA 8270	Yes	Yes	No

Parameter
1-Methylnaphthalene
1-Methylnaphthalene + 2-Methylnaphthalene (calculation)
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b,j)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo (a,h) anthracene
Fluoranthene
Fluorene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Phenanthrene
Pyrene

298 - N-Nitrosodimethylamine (NDMA)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: LC/MS

Preparation Method: SOLID PHASE EXTRACTION (SPE)

Lab Method ID(s): ME-CA-[ENV]IC-LAK-AN-011

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 521	Yes	Yes	No

Parameter

N-Nitrosodimethylamine (NDMA)

299 - Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Field of Accreditation: Environmental

Matrix: Water

OSDWA[†]

Analytical Method: LC/MS/MS

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]IC-LAK-AN-012

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1633	Yes	Yes	No

Parameter

11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
3-Perfluoroheptyl propanoic acid (7:3 FTCA, 7:3 Fluorotelomer carboxylic acid)
3-Perfluoropropyl propanoic acid (3:3 FTCA)
4,8-Dioxa-3H-perfluorononanoic acid [ADONA, Dodecafluoro-3H-4,8-dioxananoic acid]
5:3 perfluorooctanoic acid (5:3 FTCA)
9-Chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS, 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid)
Hexafluoropropylene oxide dimer acid (HFPO-DA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)
N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)
N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE)
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)
Perfluoro-3-methoxypropanoic acid (PFMPA)
Perfluoro-4-methoxybutanoic acid (PFMBA)
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonamide (PFOSA)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTrDA, Perfluorotridecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

300 - Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: LC/MS/MS

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]IC-LAK-AN-012

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 1633	Yes	Yes	No

Parameter

11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)

Parameter

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
3-Perfluoroheptyl propanoic acid (7:3 FTCA, 7:3 Fluorotelomer carboxylic acid)
3-Perfluoropropyl propanoic acid (3:3 FTCA)
4,8-Dioxo-3H-perfluorononanoic acid [ADONA, Dodecafluoro-3H-4,8-dioxananoic acid]
5:3 perfluorooctanoic acid (5:3 FTCA)
9-Chlorohexadecafluoro-3-oxanone-1-sulfonate (9CI-PF3ONS, 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid)
Hexafluoropropylene oxide dimer acid (HFPO-DA)
N-Ethylperfluorooctanesulfonamide (N-EtFOSA)
N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)
N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE)
N-Methylperfluorooctanesulfonamide (N-MeFOSA)
N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)
Perfluoro-3,6-dioxahexanoic acid (NFDHA)
Perfluoro-3-methoxypropanoic acid (PFMPA)
Perfluoro-4-methoxybutanoic acid (PFMBA)
Perfluorobutanesulfonic acid (PFBS, Perfluorobutanesulfonate)
Perfluorobutanoic acid (PFBA, Perfluorobutanoate)
Perfluorodecanesulfonic acid (PFDS, Perfluorodecanesulfonate)
Perfluorodecanoic acid (PFDA, Perfluorodecanoate)
Perfluorododecanesulfonic acid (PFDoS, Perfluorododecanesulfonate)
Perfluorododecanoic acid (PFDoA, Perfluorododecanoate)
Perfluoroheptanesulfonic acid (PFHpS, Perfluoroheptanesulfonate)
Perfluoroheptanoic acid (PFHpA, Perfluoroheptanoate)
Perfluorohexanesulfonic acid (PFHxS, Perfluorohexanesulfonate)
Perfluorohexanoic acid (PFHxA, Perfluorohexanoate)
Perfluorononanesulfonic acid (PFNS, Perfluorononanesulfonate)
Perfluorononanoic acid (PFNA, Perfluorononanoate)
Perfluorooctanesulfonamide (PFOSA)
Perfluorooctanesulfonic acid (PFOS, Perfluorooctanesulfonate)
Perfluorooctanoic acid (PFOA, Perfluorooctanoate)
Perfluoropentanesulfonic acid (PFPeS, Perfluoropentanesulfonate)
Perfluoropentanoic acid (PFPeA, Perfluoropentanoate)
Perfluorotetradecanoic acid (PFTeDA, Perfluorotetradecanoate)
Perfluorotridecanoic acid (PFTTrDA, Perfluorotridecanoate)
Perfluoroundecanoic acid (PFUnA, Perfluoroundecanoate)

301 - Volatile Organic Compounds (VOC)

Field of Accreditation: Environmental

Matrix: Air

Analytical Method: GC/MS

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]GC-LAK-AN-021

Method Reference	Modified From	Analytical Method	Preparation Method
EPA TO-15	Yes	Yes	No

Parameter

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113, Freon 113)
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC-114, Freon 114)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1-Ethyl-4-methylbenzene (4-Ethyltoluene)
2,2,4-Trimethylpentane (Isooctane)
2-Butanone (Methyl ethyl ketone, MEK)
2-Hexanone (Methyl butyl ketone, MBK)
2-Propanol (Isopropyl alcohol)
4-Methyl-2-pentanone (MIBK)
Acetone (2-Propanone)
Acrolein (Propenal)
Aliphatic Hydrocarbons: C10-C12
Aliphatic Hydrocarbons: C6-C8

Parameter

Aliphatic Hydrocarbons: C8-C10
Aromatic Hydrocarbons: C10-C12
Aromatic Hydrocarbons: C8-C10
Benzene
Benzyl chloride (a-Chlorotoluene)
Bromodichloromethane
Bromoethene (Vinyl bromide)
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dichlorodifluoromethane (CFC-12, Freon 12)
Dichloromethane (Methylene Chloride)
Ethanol
Ethyl acetate
Ethylbenzene
Ethylene Dibromide
Heptane
Hexachlorobutadiene
Hexane (n-Hexane)
Methyl methacrylate
Methyl tert-butyl ether (MTBE)
m-Xylene
Naphthalene
o-Xylene
p-Dioxane
Propene (Propylene)
Styrene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane (CFC-11, Freon 11)
Vinyl acetate
Vinyl chloride

302 - Alcohols

Field of Accreditation: Environmental**Matrix:** Water**Analytical Method:** GC/FID**Preparation Method:****Lab Method ID(s):** ME-CA-[ENV]GC-LAK-AN-022

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 8015D	Yes	Yes	No

Parameter

1-Butanol (n-Butanol)
2-Propanol (Isopropyl alcohol)
Butyl acetate
Methanol

303 - Chloride

Field of Accreditation: Environmental**Matrix:** Solids**Analytical Method:** PHOTOMETRIC DISCRETE ANALYZER**Preparation Method:** WATER LEACH**Lab Method ID(s):** ME-CA-[ENV] EWL-LAK-AN-026

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 325.2	Yes	Yes	No
IN-HOUSE	No	No	Yes

Parameter

Chloride

304 - Sulphate (Sulfate)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: PHOTOMETRIC DISCRETE ANALYZER

Preparation Method: WATER LEACH

Lab Method ID(s): ME-CA-[ENV] EWL-LAK-AN-026

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 375.4	Yes	Yes	No
IN-HOUSE	No	No	Yes

Parameter
Sulphate

305 - Thorium Isotopes

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: ALPHA SPECTROSCOPY

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]RAD-LAK-AN-009

Method Reference	Modified From	Analytical Method	Preparation Method
EICHROM AN-1608-10	Yes	Yes	No

Parameter
Thorium-228
Thorium-230
Thorium-232

306 - Gross Alpha Activity and Gross Beta Activity

Field of Accreditation: Environmental

Matrix: Solids

OSDWA[†]

Analytical Method: GAS FLOW PROPORTIONAL COUNTING (GFPC)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]RAD-LAK-AN-008

Method Reference	Modified From	Analytical Method	Preparation Method
ISO 18589-6	Yes	Yes	No

Parameter
Gross Alpha Activity
Gross Beta Activity

307 - Total Coliforms and Escherichia coli (E.coli)

Field of Accreditation: Environmental

Matrix: Water [Wastewater]

OSDWA[†]

Analytical Method: QUANTI-TRAY (COLILERT)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-021

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9223 B	Yes	Yes	No

Parameter
Escherichia coli (E. coli)
Total Coliforms

308 - Total Coliforms and Escherichia coli (E.coli)

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: QUANTI-TRAY (COLILERT)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-021

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9223 B	Yes	Yes	No

Parameter
Escherichia coli (E. coli)
Total Coliforms

309 - Pseudomonas aeruginosa

Field of Accreditation: Environmental

Matrix: Water [Wastewater]

OSDWA[†]

Analytical Method: QUANTI-TRAY (PSEUDALERT)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-020

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9213 G	Yes	Yes	No

Parameter
Pseudomonas aeruginosa (P. aeruginosa)

310 - Enterococci

Field of Accreditation: Environmental

Matrix: Water [Wastewater]

OSDWA†

Analytical Method: QUANTI-TRAY (ENTEROLERT)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-022

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9230 D	Yes	Yes	No

Parameter
Enterococci

311 - Enterococci

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: QUANTI-TRAY (ENTEROLERT)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-022

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9230 D	Yes	Yes	No

Parameter
Enterococci

312 - Fecal (Thermotolerant) Coliforms

Field of Accreditation: Environmental

Matrix: Water [Wastewater]

OSDWA†

Analytical Method: QUANTI-TRAY (COLILERT-18)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-023

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9223 B	Yes	Yes	No

Parameter
Fecal (Thermotolerant) Coliforms

313 - Fecal (Thermotolerant) Coliforms

Field of Accreditation: Environmental

Matrix: Solids

Analytical Method: QUANTI-TRAY (COLILERT-18)

Preparation Method:

Lab Method ID(s): ME-CA-[ENV]MIC-LAK-AN-023

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9223 B	Yes	Yes	No

Parameter
Fecal (Thermotolerant) Coliforms

Group Accreditation

As per the *A143 – CALA Policy on Group Accreditation* (<https://cala.ca/wp-content/uploads/A143-CALA-Policy-on-Group-Accreditation.pdf>), network laboratories operating from more than one location and operating under a single management system may qualify for CALA group accreditation. Each laboratory with the group will be assigned a unique member number and Individual scopes of accreditation are issued to each member of the group. The scope of accreditation of each location will contain references to the location being part of a group accreditation and will list all the other locations that are part of the Group.

For more information, please download A143.

The parent organization for the following is: **SGS Canada Inc.**

1001999	SGS Environmental Services (Lakefield)	185 Concession Street Lakefield, Ontario K0L 2H0
1002764	SGS Environmental Services (London)	657 Consortium Court London, Ontario N6E 2S8

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at <https://directory.cala.ca/> (<https://directory.cala.ca/>).