



SCOPE OF ACCREDITATION

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(Conforms with requirements of ISO/IEC 17025:2005)

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CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Biological, Chemical/Physical

PROGRAM SPECIALTY AREA: Environmental

INITIAL ACCREDITATION: 1995-03-06

MOST RECENT ACCREDITATION: 2020-06-25

ACCREDITATION VALID TO: 2023-03-06

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental

(Inorganic)



ATL SOP-00002	Particle Size Distribution by Hydrometer Gravel (>2000 µm) Sand (50-2000 µm) Silt (2-50 µm) Clay (<2 µm)
ATL SOP-00003	pH Analysis Soil/Sediment/Solids/Water (pH Meter); pH
ATL SOP-00004	Conductivity Analysis Soil/Sediment/Solids/Water (Conductivity Meter); Conductivity (25C)
ATL SOP-00007	Suspended Solid, Total (Gravimetric) Water (GRAVIMETRIC) Total Suspended Solids
ATL SOP-00008	Suspended Solid, Volatile (Gravimetric) Water (GRAVIMETRIC) Volatile Suspended Solids
ATL SOP-00009	Dissolved Solids, Total (TDS) Gravimetric Water (GRAVIMETRIC) Total Dissolved Solids
ATL SOP-00011	Turbidity (Nephelometric) Water (NEPHELOMETRY) Turbidity
ATL SOP-00012	Particle Size Distribution (Sieve/Pipette) Soil (SIEVE / PIPETTE / WENTWORTH CLASSIFICATION) < +1 PHI < +2 PHI < +3 PHI < +4 PHI < +5 PHI < +6 PHI < +7 PHI < +8 PHI < +9 PHI < 0 PHI < -1 PHI < -2 PHI < -3 PHI < -4 PHI Clay Gravel Sand Silt
ATL SOP-00013	Alkalinity (Total) by Discrete Analysis Water (AUTOMATED COLOURIMETRY)



ATL SOP-00014	Alkalinity (pH 4.5) Chloride by Discrete Analysis Water (AUTOMATED COLOURIMETRY) Chloride
ATL SOP-00015	Ammonia and Ammonium Nitrogen, Discrete Analysis Water (AUTOMATED COLOURIMETRY) Ammonia plus Ammonium
ATL SOP-00016	Nitrogen, Nitrate + Nitrite (NO _x) Discrete Analysis Enzyme Water (AUTOMATED COLOURIMETRY) Nitrate plus Nitrite
ATL SOP-00017	Nitrogen, Nitrite (NO ₂) by Discrete Analysis Water (AUTOMATED COLOURIMETRIC) Nitrite
ATL SOP-00018	Nitrogen, Nitrate (NO ₃ , Calculated) Water (AUTOMATED COLOURIMETRY) Nitrate (Calculated)
ATL SOP-00019	Total Kjeldahl Nitrogen (TKN) Water (DIGESTION / AUTOMATED COLOURIMETRY) Total Kjeldahl Nitrogen
ATL SOP-00020	Colour, Discrete Analysis Water (AUTOMATED COLOURIMETRY) Colour (460 nm)
ATL SOP-00021	Ortho Phosphorus, Discrete Analysis Water (AUTOMATED COLOURIMETRY) Orthophosphate (SRP)
ATL SOP-00022	Reactive Silica by Discrete Analysis Water (AUTOMATED COLOURIMETRY) Reactive Silica
ATL SOP-00023	Sulphate (Turbidimetric) by Discrete Analysis Water (AUTOMATED TURBIDIMETRIC) Sulfate
ATL SOP-00026	Automated Mercury Analysis CVAA Oil/Soil/Sediment/Solids Water / SPLP, TCLP, CGSB Leachate Tissue DIGESTION/COLD VAPOUR AA
ATL SOP-00027	Mercury in Coal Analysis by CVAA Coal (DIGESTION/COLD VAPOUR AA) Mercury
ATL SOP-00030	Metals in Biota Tissue/Biota/Terrestrial Biota (DIGESTION/ICP-MS) Aluminum Antimony Arsenic



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

ATL SOP-00031

Analysis of Trace Metals in Air Filters and Swabs
Air Filters/Swabs (DIGESTION / ICP-MS)

Aluminium
Antimony
Arsenic
Barium
Beryllium
Bismuth
Cadmium
Calcium
Chromium
Cobalt



Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silver
Sodium
Strontium
Sulphur
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

ATL SOP-00032

Boron - Hot Aqueous Extractable
Soil/Sediment/Solids (DIGESTION/ICP-MS)
Hot Water Soluble Boron

ATL SOP-00034

MOEE/CGSB Leachate

ATL SOP-00035

TCLP Extraction
Solid Waste (EXTRACTION / ICP-MS)

Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium



Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silver
Strontium
Sulphur
Tellurium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium

ATL SOP-00036

Synthetic Precipitation Leaching Procedure (SPLP)
Solid Waste (EXTRACTION / ICP-MS)
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium



	Rubidium
	Selenium
	Silver
	Sodium
	Strontium
	Sulphur
	Tellurium
	Thallium
	Tin
	Titanium
	Uranium
	Vanadium
	Zinc
	Zirconium
ATL SOP-00037	Carbon, Total / Dissolved Organic Water (Automated Colourimetry)
ATL SOP-00039	Phenolics in Water Water (DISTILLATION / AUTOMATED 4AAP COLOURIMETRY) Phenolics
ATL SOP-00040	Total Cyanide in Water Water (DISTILLATION / AUTOMATED Barbituric Acid Colourimetry) Cyanide
ATL SOP-00041	Carbonaceous Biochemical Oxygen Demand (CBOD) and BOD Water (INCUBATION / D.O. METER) BOD (5 day) CBOD (5 day) Dissolved BOD (5 day) Dissolved CBOD (5 day)
ATL SOP-00042	Chemical Oxygen Demand (COD) Water (DIGESTION/COLOURIMETRY) COD Dissolved COD
ATL SOP-00043	Fluoride (Ion Specific Electrode) Water SELECTIVE ION ELECTRODE Fluoride
ATL SOP-00044	Carbon Induction Furnace Soil/Sediment/Solids (COMBUSTION Carbon - Induction Furnace IR Detection) Inorganic Carbon Organic Carbon Total Carbon
ATL SOP-00052	Total Digestion of Sediments, Soil, Sludge and Solids Soil/Sediment/Solids (DIGESTION/ICP-MS) Aluminum



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

ATL SOP-00053	Coarse / Fine Classification of Soils (Gravimetric) Soil/Sediment/Solids (WET SIEVE / GRAVIMETRIC) >75um Fraction Coarse Fraction Fine Fraction
ATL SOP-00057	Total Phosphorus, Discrete Analysis Water (DIGESTION / AUTOMATED COLOURIMETRY) Total Phosphorus
ATL SOP-00058	CRC-ICP-MS, Full Metals Scan ICPMS Air Filters/Swab Paint Soil/Sediment/Solid



ATL SOP-00060

Solid Waste
Tissue/Biota/Terrestrial Biota
Water (Dissolved / Total)
Total Recoverable Metals in Water by Nitric/Hydrochloric Acid
Digestion
Dissolved Water / Total Water (Digestion) - ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Lithium
Magnesium
Manganese
Molybdenum
Nickel
Phosphorus
Potassium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur
Tellurium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc
Zirconium



ATL SOP-00061

Unified Acid Digestion of Sediments, Soil and Sludge
Paint (Digestion/ICP-MS)

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

ATL SOP-00061

Unified Acid Digestion of Sediments, Soil and Sludge
Soil/Sediment/Solids (DIGESTION/ICP-MS)

Aluminum
Antimony
Arsenic



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

ATL SOP-00143

Carbon in Coal-Resistance Furnace
Coal/Ash/Coke (ASTM D5373-16: Standard Test Methods for
Determination of Carbon, Hydrogen and Nitrogen in Analysis
Samples of Coal and Carbon in Analysis Samples of Coal and
Coke, 2016)
Total Carbon

ATL SOP-00203

Organic Carbon Analysis, Combustion-IR
Water
Total Organic Carbon
Dissolved Organic Carbon – Lab Filtered
Dissolved Organic Carbon - Field Filtered



(Organic)

ATL SOP-00129	Haloacetic Acids in Drinking Water by GC-ECD Water (GC/ECD Extraction/Derivatization) Bromochloroacetic Acid (BCAA) Bromodichloroacetic Acid (BDCAA) Chlorodobromoacetic Acid (CDBAA) Dalapon Dibromoacetic Acid (DBAA) Dichloroacetic Acid (DCAA) Monobromoacetic Acid (MBAA) Monochloroacetic Acid (MCAA) Trichloroacetic Acid (TCAA)
ATL SOP-00054	Zero Headspace Extractor Procedure (ZHE) Soil/Solids (Extraction / GCMS-Headspace) 1,1,1,-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzene Bromodichloromethane Bromoform Bromomethane C6-C10 Hydrocarbons Carbontetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane Dichloromethane Ethylbenzene m,p-Xylene(s)



	MTBE
	o-Xylene
	Styrene
	Tetrachloroethene
	Toluene
	trans-1,2-Dichloroethene
	trans-1,3-Dichloropropene
	Trichloroethene
	Trichlorofluoromethane
	Vinyl Chloride
ATL SOP-00102	Polynuclear Aromatic Hydrocarbons in Soil and Sediment by GC-MS Soil/Sediment (GC/MS- EXTRACTION)
	1-chloronaphthalene
	1-methylnaphthalene
	2-chloronaphthalene
	2-methylnaphthalene
	Acenaphthene
	Acenaphthylene
	Anthracene
	Benzo (a) anthracene
	Benzo (a) pyrene
	Benzo (b) fluoranthene
	Benzo (e) pyrene
	Benzo (g,h,i) perylene
	Benzo (j) fluoranthene
	Benzo (k) fluoranthene
	Chrysene
	Dibenz (a,h) anthracene
	Fluoranthene
	Fluorene
	Indeno (1,2,3 - cd) pyrene
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
ATL SOP-00103	Polynuclear Aromatic Hydrocarbons in 250 mL Water by GC-MS Water, SPLP / TCLP Leachate (GC/MS - EXTRACTION)
	1-chloronaphthalene
	1-methylnaphthalene
	2-chloronaphthalene
	2-methylnaphthalene
	Acenaphthene



Acenaphthylene
Acridine
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (e) pyrene
Benzo (g,h,i) perylene
Benzo (j) fluoranthene
Benzo (k) fluoranthene
Chrysene
Dibenz (a,h) anthracene
Fluoranthene
Fluorene
Indeno (1,2,3 - cd) pyrene
Naphthalene
Perylene
Phenanthrene
Pyrene
Quinoline
Polynuclear Aromatic Hydrocarbons in Fish and Shellfish by GC-MS
Tissue (GC/MS- EXTRACTION)
1-chloronaphthalene
1-methylnaphthalene
2-chloronaphthalene
2-methylnaphthalene
Acenaphthene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (e) pyrene
Benzo (g,h,i) perylene
Benzo (j) fluoranthene
Benzo (k) fluoranthene
Chrysene
Dibenz (a,h) anthracene
Fluoranthene
Fluorene
Indeno (1,2,3 - cd) pyrene
Naphthalene
Perylene

ATL SOP-00104



ATL SOP-00105	Phenanthrene Pyrene Polychlorinated Biphenyls in Oil by GC-ECD Oil (GC/ECD-EXTRACTION) Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Total PCB
ATL SOP-00106	Polychlorinated Biphenyls in Soil and Sediment Soil/Sediment (GC/ECD - EXTRACTION) Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Total PCB
ATL SOP-00107	Polychlorinated Biphenyls in 250 mL Water By GC-ECD Water, SPLP / TCLP Leachate (GC/ECD - EXTRACTION) Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Total PCB
ATL SOP-00110	Polychlorinated Biphenyls in Fish Tissue and Biota By GC-ECD Fish Tissue / Biota (GC/ECD- EXTRACTION) Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Total PCB



ATL SOP-00111	Total Extractable Hydrocarbons in Soil Soil (GC/FID - EXTRACTION) >C10 - C16 >C16 - C21 >C21 - C32
ATL SOP-00112	Total Extractable Hydrocarbons (>C10 to C32) in Fish and Shellfish Fish / Tissue (GC/FID) >C10 - C16 >C16 - C21 >C21 - C32
ATL SOP-00113	Total Extractable Hydrocarbons (>C10 to C32) in Water Water, Low Level Water, SPLP / TCLP Leachate (GC/FID - EXTRACTION) >C10 - C16 >C16 - C21 >C21 - C32
ATL SOP-00115	Low Level Total Extractable Hydrocarbons (>C10-C32) in Soil Soil / Sediment / Solid Waste (GC/FID - EXTRACTION) >C10 - C16 >C16 - C21 >C21 - C32
ATL SOP-00116	Aliphatic / Aromatic Fractionation for Petroleum Hydrocarbons (>C10-C32) Water / Soil / Sediment / Solids (GC/FID) >C10-C12 Aliphatic >C10-C12 Aromatic >C12-C16 Aliphatic >C12-C16 Aromatic >C16-C21 Aliphatic >C16-C21 Aromatic >C21-C32 Aliphatic >C21-C32 Aromatic
ATL SOP-00118	Volatile Petroleum Hydrocarbons (C6-C10) in Water Water (GC/MS - PURGE AND TRAP) Benzene C6-C10 Hydrocarbons Ethylbenzene m/p-xylene MTBE o-xylene Toluene Total Xylene
ATL SOP-00119	Volatile Petroleum Hydrocarbons in Soil by Headspace/GCMS/FID Soil (GC/FID/MS - HEADSPACE)



	Benzene
	C6-C10 Hydrocarbons
	Ethylbenzene
	m/p-xylene
	MTBE
	o-xylene
	Toluene
	Total Xylene
ATL SOP-00120	Aliphatic / Aromatic Fractionation of C6 to C10 Petro. Hydrocarbons Water (PT-GCMS) / Soil / Sediment / Solids (HS-GCMS) >C8-C10 Aliphatic >C8-C10 Aromatic Benzene C6-C8 Aliphatic Ethylbenzene m,p-xylene o-xylene Toluene Total Xylenes
ATL SOP-00126	Aliphatic, Aromatic Fractionation and Regular (>C6-C16) Pet. Hydrocarbons -Charcoal Tubes Air (GC/FID EXTRACTION) >C10-C12 fractions (Aromatic / Aliphatic) >C10-C16 >C12-C16 fractions (Aromatic / Aliphatic) >C6-C8 fraction (Aliphatic) >C8-C10 fractions (Aromatic (-EX)/Aliphatic) >C6-C10 Benzene Ethylbenzene m/p-xylene o-xylene Toluene



ATL SOP-00130	Volatile Petroleum Hydrocarbons in water by Headspace/GCMS/FID MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Gasoline (C6-C10) Gasoline (C6-C10) less BTEX
ATL SOP-00133	Volatile Organic Compounds by Headspace GC-MS/SIM Soil/Water (GC/MS - HEADSPACE) 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzene Bromodichloromethane Bromoform Bromomethane Carbontetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane Dichloromethane Ethylbenzene m,p-Xylene(s) MTBE o-Xylene Styrene Tetrachloroethene Toluene



trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl Chloride

Water (Microbiology)

ATL SOP-00096	Enumeration of Total Coliform and E. coli in Water Using the Membrane Filtration Method Escherichia coli (E. coli) Total Coliforms
ATL SOP-00097	Enumeration of Total Coliform and E. coli in Environmental Samples Using the Membrane Filtration Method Escherichia coli (E. coli) Total Coliforms
ATL SOP-00062	A1-Method for Fecal Coliform by MPN Fecal Coliforms
ATL SOP-00066	Coliforms Bacteria in Water (Colilert Method)-Enzyme Substrate Test Escherichia coli (E. coli) (Presence/Absence) Total Coliforms (Presence/Absence)
ATL SOP-00067	Determination of Coliforms, Fecal and E. coli by the Multiple Tube Method Coliforms E coli Fecal Coliforms
ATL SOP-00071	Enumeration of Fecal Coliform Using the Membrane Filtration Method Fecal Coliforms
ATL SOP-00072	Enumeration of Staphylococcus aureus Using the Membrane Filtration Method Staphylococcus aureus
ATL SOP-00073	Isolation and Identification of Salmonella in Environmental Samples Salmonella (Presence/Absence)
ATL SOP-00077	Enumeration of Pseudomonas aeruginosa Using the Membrane Filtration Method Pseudomonas aeruginosa
ATL SOP-00079	Heterotrophic Plate Count using Membrane Filtration Method Heterotrophic Plate Count
ATL SOP-00134	Enumeration of Fecal Enterococcus Using Membrane Filtration Method Fecal Enterococcus



Standards Council of Canada
Conseil canadien des normes

Notes:

ISO/IEC 17025-2005: General Requirements for the Competence of Testing and Calibration Laboratories

Elias Rafoul, Vice-President
Accreditation Services

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