TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 309

Legal Name of Accredited Laboratory:	**Centre d'expertise en analyse environnementale du Québec**
Location Name or Operating as (if applicable):	Direction de l'analyse chimique
Contact Name:	Katy St-Pierre
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SCC File Number:	15385
Provider:	BNQ-EL
Provider File Number:	45814-2
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Chemical/Physical
Program Specialty Area:	Environmental Testing (ET)
Initial Accreditation:	1999-12-17
Most Recent Accreditation:	2021-08-18
Accreditation Valid to:	2023-12-17

SCC Group Accreditation:
This laboratory is a part of a Group Accreditation with the following facility in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

- Centre d'expertise en analyse environnementale du Québec, 2700, rue Einstein, Québec (Québec) G1P 3W8, Accredited Laboratory No. 310

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Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.
Note: This scope of accreditation is also available in French as a separately issued document.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental:

(Characterization and quantification analysis in inorganic chemistry and organic chemistry, including highly toxic contaminants in various environmental media (water, air, soil) and in releases (gas, liquid, and solid))

Inorganic chemistry

MA. 100 - Gran. 2.0	Determination of particle size
MA. 100 - Lix.com. 1.1	Leaching protocol for inorganic species
MA. 100 - Mas.Vol. 1.0	Determination of the density of agricultural soil: gravimetric method
MA. 100 - Part. 1.0	Determination of particles: gravimetric method
MA. 100 - pH 1.1	Determination of pH: electrometric method
MA. 100 - S.T. 1.1	Determination of total solids and total volatile solids: gravimetric method
MA. 108 - Cor. 2.1	Determination of corrosiveness: gravimetric method
MA. 108 - Corps étrangers	Determination of quantity of foreign matter in solid: gravimetric method
MA. 108 - P.Cal. 1.1	Determination of calorific value: combustion method with a calorimetric bomb
MA. 110 - ACISOL 1.0	Determination of the neutralizing capacity, acid generating potential and acidogenic potential of solid
MA. 110 - C. neu 1. 0	Determination of the neutralization capacity of solid waste
MA. 110 - L. lib. 1.0	Determination of the presence of free liquid in solid waste: gravimetric method
MA. 115 - Cond. 1.1	Determination of conductivity: electrometric method
MA. 115 - S.D. 1.0	Determination of total dissolved and volatile solids: gravimetric method
MA. 115 - S.S. 1.2	Determination of total suspended and volatile solids: gravimetric method
MA. 200 - Mét. 1.2	Determination of metals: argon plasma ionizing source mass spectrometry method
MA. 200 - Mét-P ass. 1.0	Determination of assimilable metals and phosphorus: argon plasma ionizing source mass spectrometry method
MA. 200 - M-Ter.rares	Determination of rare earth metals: argon plasma ionizing source mass spectrometry method

MA. 200 - Spec.Mét. 1.1	Determination of the speciation of antimony, arsenic, chromium and selenium: high pressure liquid chromatography method coupled with argon plasma ionizing source mass spectrometer
MA. 300 - CN 1.2	Determination of cyanides: automated colorimetric method with isonicotinic acid and barbituric acid – manual distillation
MA. 300 - F 1.2	Determination of fluorides: colorimetric method after distillation
MA. 300 - Hal-Sou 1.0	Determination of total halogens and sulfur: combustion method with a calorimetric bomb, followed by quantification by ion chromatography
MA. 300 - Ions 1.3	Determination of anions: ion chromatography method
MA. 300 - N. 2.0	Determination of ammoniacal nitrogen: automated colorimetric method with sodium salicylate
MA. 300 - NO3 2.0	Determination of nitrates and nitrites: automated colorimetric method with hydrazine sulfate and NED
MA. 300 - NTPT 2.0	Determination of total Kjeldahl nitrogen and total phosphorus: acid digestion - automated colorimetric method
MA. 300 - P. Ino. 2.0	Determination of total inorganic phosphorus: automated colorimetric method with ammonium molybdate
MA. 300 - S 1.2	Determination of sulfides: colorimetric method with ferric chloride and N,N-Dimethyl-p-phenylenediamine oxalate
MA. 304 - Ions 1.1	Determination of thiocyanates and thiosulfates: ion chromatography method
MA. 304 - T.L. 1.1	Determination and tannins and lignins: colorimetric method
MA. 310 - CS 1.0	Determination of carbon and sulfur: combustion method and quantification by infrared spectrophotometry
MA. 315 - Alc-Aci. 1.0	Determination of alkalinity and acidity: automated titrimetric method
MA. 315 - CNO 1.1	Determination of cyanates: ion chromatography method
MA. 315 - DBO 1.1	Determination of the biochemical oxygen demand: electrometric method
MA. 315 - DCO 1.1	Determination of the chemical oxygen demand: closed reflux system method followed by quantification by colorimetry with potassium dichromate
MA. 315 - Hydrazine 1.0	Determination of hydrazine: colorimetric method
MA. 400 - COHA	Determination of absorbable organic halogen compounds: combustion method with a calorimetric bomb, followed by quantification by ion chromatography
MA. 400 - Hal 1.1	Determination of total organic halogens: combustion method with a calorimetric bomb, followed by quantification by ion chromatography

MA. 404 - I.Phé. 2.2	Determination of phenolic compounds (phenol index): automated colorimetric method with 4-aminoantipyrine
MA. 405 - C 1.1	Determination of total organic carbon in solids: quantification by titration

Organic chemistry

MA. 108 - P.E. 1.1	Determination of the flash point temperature using the Pensky-Martens (closed cup) technique
MA. 400 - BPCHR 1.0	Determination of polychlorinated biphenyls (congener): quantification by gas chromatography coupled with a mass spectrometer
MA. 400 - Clbz 1.0	Determination of chlorobenzenes: quantification by gas chromatography coupled with a mass spectrometer
MA. 400 - D.F. 1.1	Determination of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans: quantification by gas chromatography coupled with a high resolution mass spectrometer
MA. 400 - Glycols	Determination of glycols by gas chromatography coupled with a mass spectrometer
MA. 400 - HAP 1.1	Determination of polycyclic aromatic hydrocarbons: quantification by gas chromatography coupled with a mass spectrometer
MA. 400 - HAP Alkylés	Determination of alkylated polycyclic aromatic hydrocarbons: quantification by gas chromatography coupled with a mass spectrometer
MA. 400 - HYD. 1.1	Determination of petroleum hydrocarbons (C_{10} to C_{50}): quantification by gas chromatography coupled with a flame ionization detector
MA. 400 - PBDE	Determination of polybrominated diphenyl ethers: quantification by gas chromatography coupled with a mass spectrometer
MA. 400 - Phé 1.0	Determination of phenolic compounds: quantification by gas chromatography coupled with a mass spectrometer after derivation with acetic anhydride
MA. 401 - ALD-Tube 1.0	Determination of aldehydes in ambient air sampled on DNPH tube: derivation into a hydrazone type compound and quantification by gas chromatography coupled with a mass spectrometer
MA. 401 - COV-Canister (68) 1.0	Determination of volatile organic compounds in ambient air collected with canisters: quantification by gas chromatography coupled with a mass spectrometer
MA. 401 - COV-Tubes-Tenax 1.0	Determination of volatile organic compounds in ambient air collected on Tenax tubes: thermal desorption of the tubes

	followed by quantification by gas chromatography coupled with a mass spectrometer
MA. 402 - COV 1.1	Determination of volatile organic compounds in releases into the atmosphere (VOST): thermal desorption followed by quantification by gas chromatography coupled with a mass spectrometer
MA. 405 - Formaldehyde	Determination of formaldehyde by gas chromatography coupled with a mass spectrometer
MA. 413 - Halocarbure	Determination of halocarbons in pressurized samples by gas chromatography coupled with two detectors: flame ionization and mass spectrometry
MA. 414 - Aci-g-r 1.0	Determination of fatty and resin acids: quantification by gas chromatography coupled with a mass spectrometer after derivation with BSTFA
MA. 415 - HGT 2.0	Determination of oils and greases in water: gravimetric method

Number of Scope Listings: 58

Notes:

ISO/IEC 17025:2017: General Requirements for the Competence of Testing and Calibration Laboratories

MA: CEAEQ internal analysis method

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

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