



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2677

**Laboratory Name:** Analytical Chemistry Branch, Chalk River

**Parent Institution:** Canadian Nuclear Laboratories Ltd.

**Address:** 286 Plant Road Analytical Chemistry Branch (Stn. 83) Chalk River ON K0J 1J0

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**Standard:** Conforms with requirements of ISO/IEC 17025

**Clients Served:** All Interested Parties

**Revised On:** April 27, 2017

**Valid To:** January 12, 2019

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### Scope of Accreditation

#### Acidified Liquid (Inorganic)

Metals - Acidified Liquid (001)

148-127610-TEP-005; modified from ASTM D5673-10

ICP/MS

Aluminum

Antimony

Arsenic

Beryllium

Cadmium

Chromium

Copper

Lead

Molybdenum

Nickel

Selenium

Silver

Thallium

Tin

Uranium

#### Acidified Liquid (Radiochemistry)

Radionuclides - Gamma Emitters (008)

148-127610-TEP-022; IN-HOUSE

GAMMA SPECTROMETRY

Americium-241

Antimony-124

Antimony-125

Barium-133

† "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 [http://www.cala.ca/cala\\_directories.html](http://www.cala.ca/cala_directories.html)

Barium-140  
Cadmium-109  
Cerium-141  
Cerium-144  
Cesium-134  
Cesium-137  
Chromium-51  
Cobalt-57  
Cobalt-60  
Europium-154  
Europium-155  
Iodine-131  
Iron-59  
Lanthanum-140  
Lead-210  
Manganese-54  
Neodymium-147  
Niobium-94  
Niobium-95  
Ruthenium-103  
Ruthenium-106  
Scandium-46  
Strontium-85  
Tellurium-123m  
Tellurium-132  
Tin-113  
Yttrium-88  
Zinc-65  
Zirconium-95

**Acidified Liquid (Radiochemistry)**

Radionuclides Plutonium Isotopes - Acidified Liquids (005)  
148-127610-TEP-020; IN-HOUSE  
ALPHA SPECTROMETRY  
Plutonium-238  
Plutonium-239/240

**Acidified Liquid (Radiochemistry)**

Uranium Isotopic & Quant by TIMS - Acidified Liquids (006)  
148-127610-TEP-021; IN-HOUSE  
THERMAL IONIZATION MASS SPECTROMETRY  
Total Uranium  
Uranium-233  
Uranium-234  
Uranium-235  
Uranium-236  
Uranium-238

**Nitrate Salts (Radiochemistry)**

Uranium Isotopic & Quant by TIMS - Nitrate Salts (007)  
148-127610-TEP-021; IN-HOUSE  
THERMAL IONIZATION MASS SPECTROMETRY  
Total Uranium  
Uranium-233  
Uranium-234  
Uranium-235

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Uranium-236

Uranium-238

**Waste (Inorganic)**

Oil and Grease - Water (003)

148-127610-TEP-008; modified from SM 5520 B

GRAVIMETRIC - EXTRACTION

Total Oil and Grease

**Water (Inorganic)**

Solids - Water (004)

148-127610-TEP-009, 148-127610-TEP-007; modified from SM 2540 C, D, E

GRAVIMETRIC

Total Dissolved Solids

Total Suspended Solids

Volatile Suspended Solids

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