



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3010  
**Laboratory Name:** CARO Analytical Services - Kelowna  
**Parent Institution:** CARO Analytical Services  
**Address:** 102-3677 Hwy. 97 N Kelowna BC V1X 5C3  
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**Standard:** Conforms with requirements of ISO/IEC 17025:2017  
**Clients Served:** All Interested Parties  
**Revised On:** August 30, 2021  
**Valid To:** February 28, 2024

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### Scope of Accreditation

#### Solids (Inorganic)

Asbestos - Solids [Bulk] (043)  
CK-TM-061; EPA 600/R-93/116  
POLARIZED LIGHT MICROSCOPY (PLM)  
Bulk Asbestos

#### Solids (Inorganic)

Organic Carbon - Solids (047)  
CK-TM-041; BC MOE LABORATORY MANUAL  
INFRARED SPECTROSCOPY (IR) - COMBUSTION  
Organic Carbon

#### Water (Inorganic)

Acidity - Water (046)  
CK-TM-040; modified from SM 2310 B  
TITRIMETRIC  
Acidity

#### Water (Inorganic)

Alkalinity - Water (029)  
CK-TM-001; modified from SM 2320 B  
AUTOMATED TITRIMETRIC  
Alkalinity (pH 4.5)

† "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).

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**Water (Inorganic)**

Ammonia - Water (002)  
CK-TM-067; modified from SM 4500-NH3 G  
AUTOMATED COLORIMETRIC  
Ammonia

**Water (Inorganic)**

Anions - Water (005)  
CK-TM-005; SM 4110 B  
ION CHROMATOGRAPHY (IC)  
Bromide  
Chloride  
Fluoride  
Nitrate  
Nitrite  
Phosphate  
Sulfate

**Water (Inorganic)**

Biochemical Oxygen Demand (BOD) - Water (032)  
CA-TM-003; SM 5210 B  
DISSOLVED OXYGEN METER (DO)  
BOD (5 day)  
CBOD (5 day)  
Soluble Biochemical Oxygen Demand (SBOD)

**Water (Inorganic)**

Carbon - Water (006)  
CK-TM-008; SM 5310 B  
INFRARED SPECTROSCOPY (IR) - COMBUSTION  
Organic Carbon

**Water (Inorganic)**

Chemical Oxygen Demand (COD) - Water (004)  
CA-TM-004; SM 5220 D  
COLORIMETRIC - REFLUX  
COD

**Water (Inorganic)**

Chlorine - Water (051)  
CA-TM-002; modified from SM 4500-CL- G  
COLORIMETRIC  
Free Chlorine  
Total Chlorine

**Water (Inorganic)**

Colour - Water (038)  
CK-TM-049; SM 2120 C  
SPECTROPHOTOMETRIC  
True Colour

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**Water (Inorganic)**

Conductivity - Water (030)  
CK-TM-006; SM 2510 B  
AUTOMATED CONDUCTIVITY METER  
Conductivity (25°C)

**Water (Inorganic)**

Cyanide - Water (048)  
CK-TM-069; modified from ASTM D7511-12  
AMPEROMETRIC TITRATION  
Cyanide (SAD)  
Cyanide (WAD)

**Water (Inorganic)**

Nitrate plus Nitrite - Water (040)  
CK-TM-060; modified from SM 4500-NO3- F  
COLORIMETRIC  
Nitrate plus Nitrite  
Nitrite  
Nitrogen

**Water (Inorganic)**

Nitrilotriacetic Acid (NTA) - Water (052)  
CK-TM-021; BC MOE LABORATORY MANUAL  
COLORIMETRIC  
Nitrilotriacetic acid (NTA)

**Water (Inorganic)**

pH - Water (031)  
CK-TM-014; SM 4500-H+ B  
AUTOMATED PH METER  
pH

**Water (Inorganic)**

Solids - Water (013)  
CA-TM-006, CK-TM-018; modified from SM 2540 C and SM 2540 D and SM 2540 E  
GRAVIMETRIC  
Total Dissolved Solids  
Total Suspended Solids  
Volatile Suspended Solids

**Water (Inorganic)**

Thiocyanate - Water (042)  
CK-TM-022; SM 4500-CN- M  
COLORIMETRIC  
Thiocyanate

**Water (Inorganic)**

Total Kjeldahl Nitrogen (TKN) - Water (012)  
CK-TM-015; modified from SM 4500-NORG  
COLORIMETRIC - DIGESTION  
Dissolved Kjeldahl Nitrogen

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Total Kjeldahl Nitrogen

**Water (Inorganic)**

Total Phosphorus - Water (044)  
CK-TM-033; modified from SM 4500-P F  
COLORIMETRIC - PERSULPHATE DIGESTION  
Dissolved Phosphorus  
Total Phosphorus

**Water (Inorganic)**

Turbidity - Water (033)  
CK-TM-011; SM 2130 B  
NEPHELOMETRIC  
Turbidity

**Water (Inorganic)**

UV Absorbance and Transmittance - Water (045)  
CK-TM-048; modified from SM 5910 B (2011)  
SPECTROPHOTOMETRIC  
UV Absorbance  
UV Transmittance

**Water (Microbiology)**

Coliforms - Water (028)  
CK-TM-050; modified from EMD MANUAL and SM 9222  
MEMBRANE FILTRATION (CHROMOCULT)  
Escherichia coli  
Total Coliforms

**Water (Microbiology)**

Coliforms - Water (049)  
CA-TM-009; SM 9223  
QUANTI-TRAY (COLILERT-18)  
Escherichia coli (E. coli)  
Fecal (Thermotolerant) Coliforms  
Total Coliforms

**Water (Microbiology)**

Coliforms - Water (050)  
CA-TM-009; SM 9223  
QUANTI-TRAY (COLISURE)  
Escherichia coli (E. coli)  
Total Coliforms

**Water (Microbiology)**

Escherichia coli (E. coli) - Water (023)  
CK-TM-020; SM 9222 G  
MEMBRANE FILTRATION (NA-MUG)  
Escherichia coli

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**Water (Microbiology)**

Escherichia coli (E. coli) - Water (027)

CK-TM-024; modified from SM 9221 C (PREPARATION) and SM 9221 F (ANALYSIS)

MOST PROBABLE NUMBER (MULTIPLE TUBE FERMENTATION) (MPN-MTF)

Escherichia coli (E. coli)

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (022)

CK-TM-020; SM 9222 D

MEMBRANE FILTRATION (M-FC)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Fecal (Thermotolerant) Coliforms - Water (026)

CK-TM-024; modified from SM 9221 C (PREPARATION) and SM 9221 E (ANALYSIS)

MOST PROBABLE NUMBER (MULTIPLE TUBE FERMENTATION) (MPN-MTF)

Fecal (Thermotolerant) Coliforms

**Water (Microbiology)**

Heterotrophic Plate Count (HPC) - Water (024)

CK-TM-023; SM 9215 D

MEMBRANE FILTRATION (R2A)

Heterotrophic Plate Count (HPC)

**Water (Microbiology)**

Total Coliforms - Water (025)

CK-TM-024; modified from SM 9221 B (ANALYSIS) and SM 9221 C (PREPARATION)

MOST PROBABLE NUMBER (MULTIPLE TUBE FERMENTATION) (MPN-MTF)

Total Coliforms

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