

Catalogue

April 1, 2022
Version 1.6

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1.0 Introduction

The Proficiency Testing Canada PT Program (formerly the CALA PT Program) is accredited to ISO/IEC 17043-*Conformity assessment—General requirements for proficiency testing* and offers PT in support of inorganic, organic and microbiology test methods covering matrices such as water, soil/sediment, oil and air filters. Not all of the Test Groups in this catalogue are covered by the scope of accreditation. For a detailed list of what is covered by the A2LA accreditation please refer to certificate 2298.01 the A2LA website (<https://www.a2la.org>).

With the exception of C05A (microbiology), C05B (microbiology), C71 (Pesticides in Cannabis) and C73 (Residual Solvents in Hemp Oil), samples are provided as whole samples and are ready to analyze. However, some samples may have to be diluted to bring the concentrations within the laboratory's calibration range, as is common practice for customer samples.

In general, each test group is shipped twice per year, one half being shipped in January and June and the other half shipping in March and October. With the exception of 38, 39, C70, C71, C72, C73 and C78, each test group consists of four samples of different concentration.

Proficiency Testing Canada offers a discount to Institutional voting members of the Canadian Association for Laboratory Accreditation (CALA). If you would like to become a CALA member please visit their website (www.cala.ca).

2.0 References

The following PTC documents provide further information about Proficiency Testing:

- PAR03 - *Scheme*;
- PROC09 - *Procedures*;
- PROC11 - *Regression Equations*; and,
- PAR05 - *PT Subcontractors*.

3.0 2022 Shipping Schedule

The table below provides details on important dates for the PT Canada PT Program (2022).

| Water Inorganic Chemistry/Toxicology/Cannabis | | | |
|--|-----------------------|---------------|--------------------|
| Test Groups | Registration deadline | Shipping Date | Reporting Deadline |
| C01A, C01B, C02A, C02B, C02C, C03, C04A, C04B, C04C, C04D, C05A*, C05B*, C11, C12, C13, C14, C15, C19, C32, C33, C37, C42, C70, C71, C72, C73, C78 | | March 21 | April 22 |
| | | October 17 | November 18 |

* Note: C05A and C05B will be shipped on March 14.

| Water Organics/Soil Inorganics/Soil Organics/Oil | | | |
|--|-----------------------|---------------|--------------------|
| Test Groups | Registration deadline | Shipping Date | Reporting Deadline |
| C06A, C06B, C07, C08, C09, C16, C17, C18, C22, C24, C25, C27, C29, C31A, C31B, C34, C35, C36, C38, C39, C40A, C40B, C41, C43, C44, C45, C46, C47, C74, C75, C76, C77 | | January 24 | February 25 |
| | | June 20 | July 22 |

| Asbestos | | | |
|-------------|-----------------------|---------------|--------------------|
| Test Groups | Registration deadline | Shipping Date | Reporting Deadline |
| C20 | | January 10 | February 4 |
| | | March 7 | April 1 |
| | | June 13 | July 8 |
| | | October 10 | November 4 |

If there are any discrepancies between this schedule and the schedule posted on the PT Canada web site (www.ptcanada.org), the PTC web site will be deemed to be correct. If there are any changes to the posted schedule, all participants registered for the affected PT round will be notified.

4.0 Registration

Laboratories wishing to participate in PT Canada Proficiency Testing must submit a completed Application (PAR04 - *Application*).

5.0 Tests Offered in the PT Canada PT Program

This section provides details on the test group names, analytes included in the test group, approximate concentration range, months that the studies occur, the approximate volume of material provided and the preservative used.

Note to international laboratories: Some samples may be subject to national import restrictions. Please consult with your national import authorities.

5.1 WATER INORGANICS

| C01A Major Ions in Water | | | Information |
|--------------------------|---------------------|--|-----------------------|
| Analyte | Concentration Range | | |
| Alkalinity to pH 4.5 | 20 - 250 mg/L | | Mar/Oct |
| Chloride | 5 - 500 mg/L | | 500 mL |
| Conductivity at 25°C | 20 - 2000 µS/cm | | Preservative: None |
| Calcium | 2 - 200 mg/L | | Member Fee: \$258 |
| Magnesium | 2 - 50 mg/L | | Non-Member Fee: \$335 |

CO1A Major Ions in Water

| Analyte | Concentration Range | Information |
|-------------------------------|---------------------|-------------|
| Fluoride | 0.2 – 4.0 mg/L | |
| Hardness as CaCO ₃ | 10 – 800 mg/L | |
| Inorganic Carbon | 2 – 50 mg/L | |
| Nitrate | 0.20 – 20.0 mg/L | |
| Nitrate plus Nitrite | 0.20 – 20.0 mg/L | |
| Potassium | 1 – 40 mg/L | |
| Reactive Silica | 0.5 – 30 mg/L | |
| Sodium | 2 – 150 mg/L | |
| Sulphate | 5 – 200 mg/L | |

This PT is obtained from naturally occurring surface waters. The only analytes added are Fluoride and Nitrate. Although participants may use their method of choice for participation, caution should be taken when using colorimetric procedures as some samples may have a natural colour.

CO1B Simple Nutrients in Water

| Analyte | Concentration Range | Information |
|----------------|---------------------|-----------------------|
| Ammonia | 0.5 – 20.0 mg/L | Mar/Oct |
| Organic Carbon | 2.0 – 20.0 mg/L | 250 mL |
| Phosphate | 0.1 – 3.0 mg/L | Preservative: None |
| Bromide | 1.0 – 10.0 mg/L | Member Fee: \$217 |
| Nitrite | 0.1 – 1.0 mg/L | Non-Member Fee: \$284 |

The concentration ranges for this PT cover the range from clean waters to wastewaters.

CO2A Metals (Full Range) in Water

| Analyte | Concentration Range | Information |
|------------|---------------------|-------------------------------------|
| Aluminum | 0.001 – 1.60 mg/L | Mar/Oct |
| Antimony | 1.0 – 100 µg/L | 250 mL |
| Arsenic | 1.0 – 100 µg/L | Preservative: 0.2% HNO ₃ |
| Barium | 0.001 – 1.60 mg/L | Member Fee: \$217 |
| Beryllium | 0.001 – 0.10 mg/L | Non-Member Fee: \$284 |
| Boron | 0.001 – 1.60 mg/L | |
| Cadmium | 0.001 – 0.10 mg/L | |
| Chromium | 0.001 – 1.60 mg/L | |
| Cobalt | 0.001 – 1.60 mg/L | |
| Copper | 0.001 – 1.60 mg/L | |
| Iron | 0.001 – 1.60 mg/L | |
| Lead | 0.001 – 1.60 mg/L | |
| Manganese | 0.001 – 1.60 mg/L | |
| Molybdenum | 0.001 – 1.60 mg/L | |
| Nickel | 0.001 – 1.60 mg/L | |
| Selenium | 1.0 – 100 µg/L | |

CO2A Metals (Full Range) in Water

| Analyte | Concentration Range | Information |
|-----------|---------------------|-------------|
| Silver | 0.001 – 0.100 mg/L | |
| Strontium | 0.001 – 1.60 mg/L | |
| Thallium | 0.001 – 0.100 mg/L | |
| Tin | 0.001 – 0.100 mg/L | |
| Titanium | 0.001 – 1.60 mg/L | |
| Uranium | 0.001 – 0.1 mg/L | |
| Vanadium | 0.001 – 1.60 mg/L | |
| Zinc | 0.001 – 1.60 mg/L | |

This PT test group is intended for analysis by ICP-MS or other technologies that can achieve low µg/L detection levels. Although sample digestion is not required, hydrides by hydride generation will require the digestion specified by the method. Please note different reporting units for three hydride metals.

CO2B Metals (High Range) in Water

| Analyte | Concentration Range | Information |
|------------|---------------------|-------------------------------------|
| Aluminum | 0.25 – 1.60 mg/L | Mar/Oct 250 mL |
| Barium | 0.25 – 1.60 mg/L | Preservative: 0.2% HNO ₃ |
| Boron | 0.25 – 1.60 mg/L | Member Fee: \$217 |
| Chromium | 0.25 – 1.60 mg/L | Non-Member Fee: \$284 |
| Cobalt | 0.25 – 1.60 mg/L | |
| Copper | 0.25 – 1.60 mg/L | |
| Iron | 0.25 – 1.60 mg/L | |
| Lead | 0.25 – 1.60 mg/L | |
| Manganese | 0.25 – 1.60 mg/L | |
| Molybdenum | 0.25 – 1.60 mg/L | |
| Nickel | 0.25 – 1.60 mg/L | |
| Strontium | 0.25 – 1.60 mg/L | |
| Thallium | 0.25 – 1.60 mg/L | |
| Titanium | 0.25 – 1.60 mg/L | |
| Vanadium | 0.25 – 1.60 mg/L | |
| Zinc | 0.25 – 1.60 mg/L | |

This PT is intended for laboratories that use ICP-OES or other technologies that have higher detection levels than ICP-MS. Sample digestion is not required.

CO2C Metals (Total) in Water

| Analyte | Concentration Range | Information |
|----------|---------------------|-------------------------------------|
| Aluminum | 0.25 – 1.60 mg/L | Mar/Oct 250 mL |
| Antimony | 1.0 – 100 µg/L | Preservative: 0.2% HNO ₃ |
| Arsenic | 1.0 – 100 µg/L | Member Fee: \$217 |
| Barium | 0.25 – 1.60 mg/L | Non-Member Fee: \$284 |

CO2C Metals (Total) in Water

| Analyte | Concentration Range | Information |
|------------|---------------------|-------------|
| Beryllium | 0.001 – 0.10 mg/L | |
| Boron | 0.25 – 1.60 mg/L | |
| Cadmium | 0.001 – 0.10 mg/L | |
| Chromium | 0.25 – 1.60 mg/L | |
| Cobalt | 0.25 – 1.60 mg/L | |
| Copper | 0.25 – 1.60 mg/L | |
| Iron | 0.25 – 1.60 mg/L | |
| Lead | 0.25 – 1.60 mg/L | |
| Manganese | 0.25 – 1.60 mg/L | |
| Molybdenum | 0.25 – 1.60 mg/L | |
| Nickel | 0.25 – 1.60 mg/L | |
| Selenium | 1.0 – 100 µg/L | |
| Silver | 0.001 – 0.100 mg/L | |
| Strontium | 0.25 – 1.60 mg/L | |
| Thallium | 0.25 – 1.60 mg/L | |
| Tin | 0.001 – 0.100 mg/L | |
| Titanium | 0.25 – 1.60 mg/L | |
| Uranium | 0.001 – 0.1 mg/L | |
| Vanadium | 0.25 – 1.60 mg/L | |
| Zinc | 0.25 – 1.60 mg/L | |

This PT is intended for metals analyses that require a preliminary acid digestion.

CO3 Complex Nutrients in Water

| Analyte | Concentration Range | Information |
|-------------------------|---------------------|---|
| Total Kjeldahl Nitrogen | 2.0 – 20 mg/L | Mar/Oct 250 mL |
| Total Phosphorus | 0.10 – 4.0 mg/L | Preservative: pH < 2 H ₂ SO ₄ Member Fee: \$181 Non-Member Fee: \$237 |

The concentration range covers both clean waters and wastewaters. An appropriate digestion is required prior to analysis. This PT is not intended for Total Nitrogen analysis involving a UV digestion unless nitrates are subtracted prior to reporting.

CO4A Solids in Water

| Analyte | Concentration Range | Information |
|---------------------------|---------------------|---|
| Total Suspended Solids | 10 - 200 mg/L | Mar/Oct 500 mL Preservative: None Member Fee: \$170 Non-Member Fee: \$222 |
| Total Dissolved Solids | 10 - 1000 mg/L | |
| Volatile Suspended Solids | 5 - 150 mg/L | |

Solids concentrations are typical of those observed in wastewater treatment systems. Filters used should be Whatman™ 934-AH™ or equivalent

CO4B Biochemical Oxygen Demand in Water

| Analyte | Concentration Range | Information |
|---------|---------------------|--|
| BOD | 25 - 200 mg/L | Mar/Oct 1000 mL Preservative: Freezing Member Fee: \$186 Non-Member Fee: \$243 |
| CBOD | 25 - 200 mg/L | |

BOD and CBOD concentrations are typical of those observed in wastewater treatment systems.

CO4C Turbidity in Water

| Analyte | Concentration Range | Information |
|-----------|---------------------|---|
| Turbidity | 0.5 - 50 NTU | Mar/Oct 250 mL Preservative: None Member Fee: \$165 Non-Member Fee: \$217 |

The turbidity levels found in these samples are suitable for drinking water and for surface water.

CO4D Chemical Oxygen Demand in Water

| Analyte | Concentration Range | Information |
|---------|---------------------|--|
| COD | 30 - 500 mg/L | Mar/Oct 250 mL Preservative: pH < 2 H ₂ SO ₄ Member Fee: \$165 Non-Member Fee: \$217 |

The COD concentrations in these samples are typical of those found in wastewater treatment systems and is suitable for the HACH™ COD vials (or equivalent).

C14 Cyanide in Water

| Analyte | Concentration Range | Information |
|-----------------------------------|---------------------|---|
| Cyanide – Strong Acid Dissociable | 0.2 – 5.0 mg/L | Mar/Oct 500 mL Preservative: pH > 12 NaOH Member Fee: \$186 Non-Member Fee: \$243 |

This PT is suitable for methods that require a strong acid treatment to dissociate complex cyanides.

C15 pH in Water

| Analyte | Concentration Range | Information |
|---------|---------------------|---|
| pH | 3 – 10 pH units | Mar/Oct 125 mL Preservative: None Member Fee: \$140 Non-Member Fee: \$186 |

C19 Mercury in Water

| Analyte | Concentration Range | Information |
|---------|---------------------|--|
| Mercury | 0.1 – 2 µg/L | Mar/Oct 125 mL Preservative: 0.5% Bromine Monochloride Member Fee: \$176 Non-Member Fee: \$232 |

C32 Chlorine in Water

| Analyte | Concentration Range | Information |
|----------------|---------------------|---|
| Free Chlorine | 0.5 – 3.0 mg/L | Mar/Oct 250 mL Preservative: None Member Fee: \$165 Non-Member Fee: \$217 |
| Total Chlorine | 0.5 – 3.0 mg/L | |

C33 4AAP Phenolics in Water

| Analyte | Concentration Range | Information |
|-----------------|---------------------|--|
| Total Phenolics | 0.005 – 0.5 mg/L | Mar/Oct 250 mL Preservative: pH < 2 H ₂ SO ₄ Member Fee: \$191 Non-Member Fee: \$253 |

This PT is restricted to laboratories that use the 4AAP colorimetric method.

C34 Oil and Grease in Water in Water

| Analyte | Concentration Range | Information |
|------------------------------------|---------------------|---|
| Total Oil and Grease | 10 – 500 mg/L | Jan/Jun 1000 mL |
| Mineral (non-polar) Oil and Grease | 10 – 500 mg/L | Preservative: pH < 2 H ₂ SO ₄ Member Fee: \$260 Non-Member Fee: \$340 |

This PT is restricted to laboratories that use the hexane extractable/gravimetric procedure for oil and grease.

C37 Colour in Water

| Analyte | Concentration Range | Information |
|-------------|---------------------|---|
| True Colour | 0 – 50 CU | Mar/Oct 125 mL Preservative: pH < 2 HCl Member Fee: \$134 Non-Member Fee: \$176 |

Although the reference method for colour instructs laboratories to pH adjust samples for Colour analysis, these samples are not to be pH adjusted prior to analysis.

C41 Hexavalent Chromium in Water

| Analyte | Concentration Range | Information |
|---------------------|---------------------|---|
| Hexavalent Chromium | 50 – 500 µg/L | Jan/Jun 125 mL Preservative: pH 9.3 – 9.7 Ammonium Chloride Member Fee: \$245 Non-Member Fee: \$320 |

These samples are not to be pH adjusted before analysis.

C42 Sulphide in Water

| Analyte | Concentration Range | Information |
|----------|---------------------|---|
| Sulphide | 1 – 10 mg/L | Mar/Oct 125 mL Preservative: pH 10 with NaOH and ZnAc Member Fee: \$176 Non-Member Fee: \$232 |

C46 Acidity in Water

| Analyte | Concentration Range | Information |
|---------|---------------------|---|
| Acidity | 50 – 2000 mg/L | Jan/Jun 250 mL Preservative: None Member Fee: \$245 Non-Member Fee: \$320 |

5.2 WATER ORGANICS

| C06A Organochlorine Pesticides in Water | | |
|--|---------------------|--|
| Analyte | Concentration Range | Information |
| alpha-BHC | 0.05 - 3.0 µg/L | Jan/Jun 1000 mL Preservative: None Member Fee: \$351 Non-Member Fee: \$459 |
| Endosulfan I | 0.05 - 3.0 µg/L | |
| Endosulfan II | 0.05 - 3.0 µg/L | |
| Endrin | 0.05 - 3.0 µg/L | |
| Heptachlor Epoxide | 0.05 - 3.0 µg/L | |
| Lindane (gamma-BHC) | 0.05 - 3.0 µg/L | |
| Mirex | 0.05 - 3.0 µg/L | |
| o,p' - DDT | 0.05 - 3.0 µg/L | |
| p,p' - DDT | 0.05 - 3.0 µg/L | |
| p,p' Methoxychlor | 0.05 - 3.0 µg/L | |
| Aldrin | 0.05 - 3.0 µg/L | |
| Dieldrin | 0.05 - 3.0 µg/L | |
| Heptachlor | 0.05 - 3.0 µg/L | |
| a - Chlordane | 0.05 - 3.0 µg/L | |
| g - Chlordane | 0.05 - 3.0 µg/L | |

| C06B PCBs in Water | | |
|--|---------------------|--|
| Analyte | Concentration Range | Information |
| Total PCB | 1.0 - 20.0 µg/L | Jan/Jun 1000 mL Preservative: None Member Fee: \$304 Non-Member Fee: \$397 |
| Aroclor 1242 | 1.0 - 20.0 µg/L | |
| Aroclor 1248 | 1.0 - 20.0 µg/L | |
| Aroclor 1254 | 1.0 - 20.0 µg/L | |
| Aroclor 1260 | 1.0 - 20.0 µg/L | |
| Total PCBs in each sample will contain one of the aroclors listed above. | | |

| C07 Polycyclic Aromatic Hydrocarbons (PAHs) in Water | | |
|---|---------------------|---|
| Analyte | Concentration Range | Information |
| Acenaphthene | 0.4 - 12 µg/L | Jan/Jun 1000 mL Preservative: Sodium Bisulphate and Ascorbic Acid Member Fee: \$304 Non-Member Fee: \$397 |
| Acenaphthylene | 0.4 - 12 µg/L | |
| Anthracene | 0.4 - 12 µg/L | |
| Benzo(a)anthracene | 0.4 - 12 µg/L | |
| Benzo(a)pyrene | 0.4 - 12 µg/L | |
| Benzo(b)fluoranthene | 0.4 - 12 µg/L | |
| Benzo(b+j)fluoranthene | 0.4 - 12 µg/L | |
| Benzo(g,h,i)perylene | 0.4 - 12 µg/L | |
| Benzo(k)fluoranthene | 0.4 - 12 µg/L | |
| Chrysene | 0.4 - 12 µg/L | |

C07 Polycyclic Aromatic Hydrocarbons (PAHs) in Water

| Analyte | Concentration Range | Information |
|------------------------|---------------------|-------------|
| Dibenzo(a,h)anthracene | 0.4 - 12 µg/L | |
| Fluoranthene | 0.4 - 12 µg/L | |
| Fluorene | 0.4 - 12 µg/L | |
| Indeno(1,2,3-cd)pyrene | 0.4 - 12 µg/L | |
| Naphthalene | 0.4 - 12 µg/L | |
| Phenanthrene | 0.4 - 12 µg/L | |
| Pyrene | 0.4 - 12 µg/L | |

C16 Volatile Organic Compounds (VOCs) in Water

| Analyte | Concentration Range | Information |
|-------------------------------|---------------------|---------------------------------|
| 1,1,1-Trichloroethane | 2.0 - 200 µg/L | Jan/Jun |
| 1,1,2,2-Tetrachloroethane | 2.0 - 200 µg/L | 2 x 40 mL vials |
| 1,1,2-Trichloroethane | 2.0 - 200 µg/L | Preservative: Sodium Bisulphate |
| 1,1-Dichloroethane | 2.0 - 200 µg/L | Member Fee: \$325 |
| 1,1-Dichloroethylene | 2.0 - 200 µg/L | Non-Member Fee: \$423 |
| 1,2-Dichlorobenzene | 2.0 - 200 µg/L | |
| 1,2-Ddichloroethane | 2.0 - 200 µg/L | |
| 1,2-Dichloropropane | 2.0 - 200 µg/L | |
| 1,3-Dichlorobenzene | 2.0 - 200 µg/L | |
| 1,4-Dichlorobenzene | 2.0 - 200 µg/L | |
| Acetone (2-Propanone) | 2.0 - 200 µg/L | |
| Benzene | 2.0 - 200 µg/L | |
| Bromodichloromethane | 2.0 - 200 µg/L | |
| Bromoform | 2.0 - 200 µg/L | |
| Carbon Tetrachloride | 2.0 - 200 µg/L | |
| Chlorobenzene | 2.0 - 200 µg/L | |
| Chlorodibromomethane | 2.0 - 200 µg/L | |
| Chloroform | 2.0 - 200 µg/L | |
| cis-1,2-Dichloroethylene | 2.0 - 200 µg/L | |
| cis-1,3-Dichloropropene | 2.0 - 200 µg/L | |
| Dichloromethane | 2.0 - 200 µg/L | |
| Ethylbenzene | 2.0 - 200 µg/L | |
| Ethylene Dibromide | 2.0 - 200 µg/L | |
| m/p-xylene | 2.0 - 200 µg/L | |
| Methyl Ethyl Ketone | 2.0 - 200 µg/L | |
| Methyl t-butyl ether (MTBE) | 2.0 - 200 µg/L | |
| Methyl isobutyl Ketone (MIBK) | 2.0 - 200 µg/L | |
| o-xylene | 2.0 - 200 µg/L | |
| Styrene | 2.0 - 200 µg/L | |
| Tetrachloroethylene | 2.0 - 200 µg/L | |
| Toluene | 2.0 - 200 µg/L | |
| trans-1,2-Dichloroethylene | 2.0 - 200 µg/L | |

C16 Volatile Organic Compounds (VOCs) in Water

| Analyte | Concentration Range | Information |
|---------------------------|---------------------|-------------|
| trans-1,3-Dichloropropene | 2.0 - 200 µg/L | |
| Trichloroethylene | 2.0 - 200 µg/L | |
| Trichlorofluoromethane | 2.0 - 200 µg/L | |
| Vinyl Chloride | 2.0 - 200 µg/L | |

C22 Organophosphorus Pesticides in Water in Water

| Analyte | Concentration Range | Information |
|----------------------|---------------------|-----------------------|
| Atrazine | 2 - 5 µg/L | Jan/Jun 1000 mL |
| Azinphos-methyl | 10 - 40 µg/L | Preservative: None |
| Bendiocarb | 1 - 40 µg/L | Member Fee: \$485 |
| Carbaryl | 0.2 - 90 µg/L | Non-Member Fee: \$635 |
| Carbofuran | 0.2 - 90 µg/L | |
| Chlorpyrifos (ethyl) | 2 - 10 µg/L | |
| Cyanazine | 2 - 10 µg/L | |
| Diazinon | 0.5 - 20 µg/L | |
| Dimethoate | 2 - 20 µg/L | |
| Diuron | 20 - 50 µg/L | |
| Malathion | 2 - 10 µg/L | |
| Metolachlor | 2 - 10 µg/L | |
| Metribuzin | 2 - 10 µg/L | |
| Parathion (ethyl) | 0.5 - 20 µg/L | |
| Phorate | 0.5 - 5 µg/L | |
| Simazine | 1 - 10 µg/L | |
| Terbufos | 0.5 - 5 µg/L | |
| Trifluralin | 1 - 10 µg/L | |

C24 Aryloxy Acid Pesticides in Water

| Analyte | Concentration Range | Information |
|-----------------------------------|---------------------|---|
| 2,4-Dichlorophenoxyacetic Acid | 0.1 - 10 µg/L | Jan/Jun 1000 mL |
| 2,4,5-Trichlorophenoxyacetic Acid | 0.1 - 10 µg/L | Preservative: pH < 2 H ₂ SO ₄ |
| Bromoxynil | 1 - 5 µg/L | Member Fee: \$320 |
| Dicamba | 1 - 10 µg/L | Non-Member Fee: \$420 |
| Diclofop-methyl (as free acid) | 0.5 - 5 µg/L | |
| Dinoseb | 1 - 10 µg/L | |
| Picloram | 0.1 - 10 µg/L | |

C25 Phenolic Compounds in Water

| Analyte | Concentration Range | Information |
|---------------------------|---------------------|---|
| 2,4,6-Trichlorophenol | 2 - 20 µg/L | Jan/Jun 1000 mL |
| 2,3,4,6-Tetrachlorophenol | 2 - 20 µg/L | Preservative: pH < 2 H ₂ SO ₄ |
| 2,4-Dichlorophenol | 2 - 20 µg/L | Member Fee: \$310 |
| Pentachlorophenol | 2 - 20 µg/L | Non-Member Fee: \$405 |

C27 Glyphosate in Water

| Analyte | Concentration Range | Information |
|------------|---------------------|---|
| Glyphosate | 25 - 80 µg/L | Jan/Jun 250 mL Preservative: 0.01% Thiosulphate Member Fee: \$270 Non-Member Fee: \$355 |

C29 Aldicarb in Water

| Analyte | Concentration Range | Information |
|----------|---------------------|--|
| Aldicarb | 1 - 9 µg/L | Jan/Jun 250 mL Preservative: 0.001% Thiosulphate Member Fee: \$330 Non-Member Fee: \$430 |

C40A Petroleum Hydrocarbons in Water

| Analyte | Concentration Range | Information |
|--------------|---------------------|---------------------------------|
| Benzene | 1 - 100 µg/L | Jan/Jun 2 x 40 mL vials |
| Ethylbenzene | 1 - 100 µg/L | Preservative: Sodium Bisulphate |
| F1: C6-C10 | 20 - 1000 µg/L | Member Fee: \$299 |
| m/p-Xylene | 1 - 100 µg/L | Non-Member Fee: \$392 |
| o-Xylene | 1 - 100 µg/L | |
| Toluene | 1 - 100 µg/L | |
| VH (C6-C10)* | 20 - 1000 µg/L | |

C40B Petroleum Hydrocarbons in Water

| Analyte | Concentration Range | Information |
|-------------|---------------------|--|
| F2: C10-C16 | 200 - 50,000 µg/L | Jan/Jun 1000 mL |
| F3: C16-C34 | 200 - 50,000 µg/L | Preservative: None |
| F4: C34-C50 | 200 - 50,000 µg/L | Member Fee: \$299 Non-Member Fee: \$392 |

| C47 Haloacetic Acids in Water | | |
|--------------------------------------|---------------------|---|
| Analyte | Concentration Range | Information |
| Bromochloroacetic acid | 5 - 50 µg /L | Jan/Jun 2 x 40 mL Preservative: Ammonium Chloride Member Fee: \$270 Non-Member Fee: \$355 |
| Dibromoacetic acid | 5 - 50 µg /L | |
| Dichloroacetic acid | 5 - 50 µg /L | |
| Monobromoacetic acid | 5 - 50 µg /L | |
| Monochloroacetic acid | 5 - 50 µg /L | |
| Trichloroacetic acid | 5 - 50 µg /L | |

5.3 WATER MICROBIOLOGY**

| C05A Water Microbiology | | |
|-----------------------------------|---------------------|---|
| Analyte | Concentration Range | Information |
| Escherichia coli (E. coli) | 20 - 100 CFU/100 mL | Mar/Oct 2 - 5 mL Preservative: Stabilized Member Fee: \$243 Non-Member Fee: \$320 |
| Faecal (Thermotolerant) Coliforms | 20 - 100 CFU/100 mL | |
| Heterotrophic Plate Count | 200 - 1000 CFU/mL | |
| Total Coliforms | 20 - 100 CFU/100 mL | |

This PT is not intended for Multi-Tube fermentation methods

| C05B Water Microbiology (Presence/Absence) | | |
|---|---------------------|---|
| Analyte | Concentration Range | Information |
| Escherichia coli (E. coli) | NA | Mar/Oct 2 - 5 mL Preservative: Stabilized Member Fee: \$258 Non-Member Fee: \$335 |
| Total Coliforms | NA | |

5.4 SOIL

| C17 Metals in Soil | | |
|---------------------------|---------------------|--|
| Analyte | Concentration Range | Information |
| Aluminum | 1000 - 100000 µg/g | Jan/Jun 5 - 7 g Preservative: None Member Fee: \$176 Non-Member Fee: \$232 |
| Antimony | 0.4 - 4.0 µg/g | |
| Arsenic | 5.0 - 35 µg/g | |
| Barium | 50 - 500 µg/g | |
| Beryllium | 1.0 - 3.0 µg/g | |
| Boron | 20 - 200 µg/g | |
| Cadmium | 0.2 - 6.0 µg/g | |
| Chromium | 50 - 150 µg/g | |
| Cobalt | 10 - 20 µg/g | |
| Copper | 30 - 600 µg/g | |
| Iron | 1000 - 50000 µg/g | |
| Manganese | 100 - 2000 µg/g | |

C17 Metals in Soil

| Analyte | Concentration Range | Information |
|-----------|---------------------|-------------|
| Mercury | 50 - 2000 ng/g | |
| Nickel | 25 - 1000 µg/g | |
| Lead | 5 - 400 µg/g | |
| Strontium | 100 - 500 µg/g | |
| Tin | 10 - 100 µg/g | |
| Titanium | 500 - 5000 µg/g | |
| Uranium | 1 - 5 µg/g | |
| Vanadium | 25 - 200 µg/g | |
| Zinc | 40 - 1600 µg/g | |

This PT is intended for use by laboratories that utilize a strong acid digestion (e.g., aqua-regia) but is not intended for use with HF. Please note the different reporting units for mercury.

C18 Polycyclic Aromatic Hydrocarbons (PAHs) in Soil

| Analyte | Concentration Range | Information |
|------------------------|---------------------|--|
| Acenaphthene | 0.2 - 50 µg/g | Jan/Jun 25 - 40 g Preservative: None Member Fee: \$237 Non-Member Fee: \$309 |
| Acenaphthylene | 0.2 - 50 µg/g | |
| Anthracene | 0.2 - 50 µg/g | |
| Benzo(a)anthracene | 0.2 - 50 µg/g | |
| Benzo(a)pyrene | 0.2 - 50 µg/g | |
| Benzo(b)fluoranthene | 0.2 - 50 µg/g | |
| Benzo(b+j)fluoranthene | 0.2 - 50 µg/g | |
| Benzo(g,h,i)perylene | 0.2 - 50 µg/g | |
| Benzo(k)fluoranthene | 0.2 - 50 µg/g | |
| Chrysene | 0.2 - 50 µg/g | |
| Dibenzo(a,h)anthracene | 0.2 - 50 µg/g | |
| Fluoranthene | 0.2 - 50 µg/g | |
| Fluorene | 0.2 - 50 µg/g | |
| Indeno(1,2,3-cd)pyrene | 0.2 - 50 µg/g | |
| Naphthalene | 0.2 - 50 µg/g | |
| Phenanthrene | 0.2 - 50 µg/g | |
| Pyrene | 0.2 - 50 µg/g | |

C31A Petroleum Hydrocarbons in Soil

| Analyte | Concentration Range | Information |
|--------------|---------------------|------------------------|
| F1: (C6-C10) | 30 - 3500 mg/kg | Jan/Jun 8 g |
| Benzene | 10 - 200 mg/kg | Preservative: Methanol |
| Ethylbenzene | 10 - 200 mg/kg | Member Fee: \$284 |
| m/p- Xylene | 100 - 500 mg/kg | Non-Member Fee: \$371 |
| o-Xylene | 100 - 500 mg/kg | |
| Toluene | 10 - 200 mg/kg | |
| VH (C6-C10) | 30 - 3500 mg/kg | |

Samples are intended for use by the CCME PHC method.

C31B Petroleum Hydrocarbons in Soil

| Analyte | Concentration Range | Information |
|-----------------|---------------------|------------------------|
| F2: C10-C16 | 150 - 6500 mg/kg | Jan/Jun 30 g |
| F3: C16-C34 | 250 - 12500 mg/kg | Preservative: Freezing |
| F4: C34-C50 | 1000 - 12500 mg/kg | Member Fee: \$284 |
| F4: Gravimetric | 1000 - 12500 mg/kg | Non-Member Fee: \$371 |

Samples are intended for use by the CCME PHC method.

C35 PCBs in Soil

| Analyte | Concentration Range | Information |
|--------------|---------------------|-----------------------|
| Aroclor 1242 | 2 - 150 µg/g | Jan/Jun 30 g |
| Aroclor 1248 | 2 - 150 µg/g | Preservative: None |
| Aroclor 1254 | 2 - 150 µg/g | Member Fee: \$258 |
| Aroclor 1260 | 2 - 150 µg/g | Non-Member Fee: \$335 |
| Total PCB | 2 - 150 µg/g | |

Total PCBs in each sample will contain one of the aroclors listed above.

C36 Volatile Organic Compounds (VOCs) in Soil

| Analyte | Concentration Range | Information |
|---------------------------|---------------------|------------------------|
| 1,1,1-Trichloroethane | 5 - 200 µg/g | Jan/Jun 8 g |
| 1,1,2,2-Tetrachloroethane | 5 - 200 µg/g | Preservative: Methanol |
| 1,1,2-Trichloroethane | 5 - 200 µg/g | Member Fee: \$346 |
| 1,1-Dichloroethane | 5 - 200 µg/g | Non-Member Fee: \$454 |
| 1,1-Dichloroethylene | 5 - 200 µg/g | |
| 1,2-Dichlorobenzene | 5 - 200 µg/g | |
| 1,2-Dichloroethane | 5 - 200 µg/g | |
| 1,2-Dichloropropane | 5 - 200 µg/g | |

C36 Volatile Organic Compounds (VOCs) in Soil

| Analyte | Concentration Range | Information |
|-------------------------------|---------------------|-------------|
| 1,3-Dichlorobenzene | 5 – 200 µg/g | |
| 1,4-Dichlorobenzene | 5 – 200 µg/g | |
| Acetone (2-Propanone) | 5 – 200 µg/g | |
| Benzene | 5 – 200 µg/g | |
| Bromodichloromethane | 5 – 200 µg/g | |
| Bromoform | 5 – 200 µg/g | |
| Carbon Tetrachloride | 5 – 200 µg/g | |
| Chlorobenzene | 5 – 200 µg/g | |
| Chlorodibromomethane | 5 – 200 µg/g | |
| Chloroform | 5 – 200 µg/g | |
| cis-1,2-Dichloroethylene | 5 – 200 µg/g | |
| cis-1,3-Dichloropropene | 5 – 200 µg/g | |
| Dichloromethane | 5 – 200 µg/g | |
| Ethylbenzene | 5 – 200 µg/g | |
| Ethylene Dibromide | 5 – 200 µg/g | |
| m/p-xylene | 5 – 200 µg/g | |
| Methyl Ethyl Ketone | 5 – 200 µg/g | |
| Methyl t-butyl ether (MTBE) | 5 – 200 µg/g | |
| Methyl isobutyl Ketone (MIBK) | 5 – 200 µg/g | |
| o-xylene | 5 – 200 µg/g | |
| Styrene | 5 – 200 µg/g | |
| Tetrachloroethylene | 5 – 200 µg/g | |
| Toluene | 5 – 200 µg/g | |
| trans-1,2-Dichloroethylene | 5 – 200 µg/g | |
| trans-1,3-Dichloropropene | 5 – 200 µg/g | |
| Trichloroethylene | 5 – 200 µg/g | |
| Trichlorofluoromethane | 5 – 200 µg/g | |

C38 Volatile Organic Compounds in Soil (TCLP)

| Analyte | Concentration Range | Information |
|----------------------|---------------------|--|
| 1,2-Dichlorobenzene | 0.025 - 5 mg/L | Jan/Jun 100 g Preservative: Freezing Member Fee: \$320 Non-Member Fee: \$418 |
| 1,2-Dichloroethane | 0.025 - 5 mg/L | |
| 1,4-Dichlorobenzene | 0.025 - 5 mg/L | |
| Benzene | 0.025 - 5 mg/L | |
| Carbon tetrachloride | 0.025 - 5 mg/L | |
| Chlorobenzene | 0.025 - 5 mg/L | |
| Chloroform | 0.025 - 5 mg/L | |
| Dichloromethane | 0.025 - 5 mg/L | |
| Methyl Ethyl Ketone | 1.0 - 5 mg/L | |
| Tetrachloroethylene | 0.025 - 5 mg/L | |
| Trichloroethylene | 0.025 - 5 mg/L | |

This PT is restricted to participants that use the EPA 1311 *Toxicity Characteristic Leaching Procedure for volatiles*.

C39 Inorganics in Soil (TCLP)

| Analyte | Concentration Range | Information |
|---------------------------------|---------------------|--|
| Silver | 0.0010 - 0.050 mg/L | Jan/Jun 200 g Preservative: None Member Fee: \$335 Non-Member Fee: \$438 |
| Arsenic | 0.10 - 5.0 mg/L | |
| Boron | 0.50 - 10.0 mg/L | |
| Barium | 0.10 - 2.0 mg/L | |
| Cadmium | 0.0010 - 0.050 mg/L | |
| Chromium | 0.010 - 0.50 mg/L | |
| Lead | 0.010 - 0.50 mg/L | |
| Selenium | 0.050 - 1.0 mg/L | |
| Uranium | 0.050 - 1.0 mg/L | |
| Mercury | 0.0001 - 0.050 mg/L | |
| Fluoride | 10 - 100 mg/L | |
| Nitrate-N | 2 - 50 mg/L | |
| Nitrate and Nitrite as N | 2.8 - 70 mg/L | |
| Cyanide (Weak Acid Dissociable) | 0.1 - 5 mg/L | |

This PT is restricted to participants that use the EPA 1311 *Toxicity Characteristic Leaching Procedure for volatiles*.

C43 Solids in Soil

| Analyte | Concentration Range | Information |
|------------------|---------------------|--|
| Fixed Solids* | 80 - 100% | Jan/Jun 100 g Preservative: None Member Fee: \$176 Non-Member Fee: \$232 |
| Percent Moisture | 1 - 30% | |
| Total Solids | 70 - 100% | |
| Volatile Solids* | 1 - 20% | |

C44 Nutrients in Soil

| Analyte | Concentration Range | Information |
|-------------------|---------------------|-----------------------|
| Ammonia - N | 300 - 3000 µg/g | Jan/Jun 250 g |
| Kjeldahl Nitrogen | 400 - 4000 µg/g | Preservative: None |
| Phosphorus | 300 - 3000 µg/g | Member Fee: \$176 |
| Organic Carbon | 1000 - 15000 µg/g | Non-Member Fee: \$232 |

C45 Anions in Soil

| Analyte | Concentration Range | Information |
|--------------|---------------------|-----------------------|
| Bromide | 10 - 100 µg/g | Jan/Jun 250 g |
| Chloride | 200 - 1000 µg/g | Preservative: None |
| Fluoride | 25 - 500 µg/g | Member Fee: \$176 |
| Nitrate-N | 25 - 500 µg/g | Non-Member Fee: \$232 |
| Phosphate-P* | 25 - 500 µg/g | |
| Sulphate | 25 - 2000 µg/g | |
| % Saturation | | |

C74 Hexavalent Chromium in Soil

| Analyte | Concentration Range | Information |
|---------------------|---------------------|---|
| Hexavalent Chromium | 40 - 300 µg/g | Jan/Jun 40 g Preservative: None Member Fee: \$240 Non-Member Fee: \$320 |

| C75 Particle Size in Soil | | |
|----------------------------------|---------------------|--|
| Analyte | Concentration Range | Information |
| Percent Sand | | Jan/Jun 40 g |
| Percent Silt | | Preservative: None |
| Percent Clay | | Member Fee: \$240 Non-Member Fee: \$320 |

| C76 Oil and Grease in Soil | | |
|-----------------------------------|---------------------|---|
| Analyte | Concentration Range | Information |
| Total Oil and Grease | 300 - 3000 µg/g | Jan/Jun 40 g Preservative: None Member Fee: \$290 Non-Member Fee: \$375 |

| C77 Pesticides in Soil | | |
|-------------------------------|---------------------|-------------------------|
| Analyte | Concentration Range | Information |
| p,p'-DDT | 50 - 500 µg/kg | Jan/Jun 30 g ampoule |
| Aldrin | 50 - 500 µg/kg | Preservative: None |
| Alpha-BHC | 50 - 500 µg/kg | Member Fee: \$480 |
| Alpha-Chlordane | 50 - 500 µg/kg | Non-Member Fee: \$624 |
| Beta-BHC | 50 - 500 µg/kg | |
| Dieldrin | 50 - 500 µg/kg | |
| Endosulfan I | 50 - 500 µg/kg | |
| Endosulfan II | 50 - 500 µg/kg | |
| Endrin | 50 - 500 µg/kg | |
| Lindane | 50 - 500 µg/kg | |
| Gamma-Chlordane | 50 - 500 µg/kg | |
| Heptachlor | 50 - 500 µg/kg | |
| Heptachlor Epoxide | 50 - 500 µg/kg | |
| Methoxychlor | 50 - 500 µg/kg | |

5.5 OIL

| C08 PCBs in Oil | | |
|------------------------|---------------------|-----------------------|
| Analyte | Concentration Range | Information |
| Aroclor 1242 | 5.0 - 150.0 µg/g | Jan/Jun 3 mL vial |
| Aroclor 1248 | 5.0 - 150.0 µg/g | Preservative: None |
| Aroclor 1254 | 5.0 - 150.0 µg/g | Member Fee: \$248 |
| Aroclor 1260 | 5.0 - 150.0 µg/g | Non-Member Fee: \$325 |
| Total PCB | 5.0 - 150.0 µg/g | |

Total PCBs in each sample will contain one of the aroclors listed above.

5.6 AIR

| C09 Metals on Filters | | |
|--|---------------------|--|
| Analyte | Concentration Range | Information |
| Cadmium | 4.0 – 30 µg/HVF | Jan/Jun 47 mm quartz filter Preservative: None Member Fee: \$230 Non-Member Fee: \$300 |
| Copper | 4.0 – 60 µg/HVF | |
| Lead | 4.0 – 80 µg/HVF | |
| Zinc | 4.0 – 60 µg/HVF | |
| PT samples are provided as high-volume quartz filters. | | |

| C20 Asbestos* | | |
|----------------------|---------------------|--|
| Analyte | Concentration Range | Information |
| Asbestos | | Jan/Mar/Jun/Oct Slide/Wedge Preservative: None Member Fee: \$291 Non-Member Fee: \$383 |

5.7 TOXICOLOGY

| C11 Rainbow Trout LC50 | | |
|-------------------------------|---------------------|--|
| Analyte | Concentration Range | Information |
| Trout 96 Hour LC50 | 2 – 10 mL/L | Mar/Oct 1000 mL Preservative: None Member Fee: \$273 Non-Member Fee: \$356 |

| C12 <i>Daphnia</i> LC50 | | |
|--------------------------------|---------------------|---|
| Analyte | Concentration Range | Information |
| <i>Daphnia</i> 48 Hour LC50 | 2 – 40 mL/L | Mar/Oct 500 mL Preservative: None Member Fee: \$273 Non-Member Fee: \$356 |

| C13 Microtox™ | | |
|--------------------------|---------------------|---|
| Analyte | Concentration Range | Information |
| Microtox™ 15 Minute IC50 | 4 – 10 mL/L | Mar/Oct 500 mL Preservative: None Member Fee: \$273 Non-Member Fee: \$356 |

5.8 CANNABIS

| C70 Potency in Cannabis Ψ | | |
|------------------------------------|---------------------|--|
| Analyte | Concentration Range | Information |
| Tetrahydrocannabinol (THC) | 0.1 - 25% | Mar/Oct 2 x 1 g vials Preservative: None Member Fee: \$420 Non-Member Fee: \$550 |
| Tetrahydrocannabinolic Acid (THCA) | 0.1 - 25% | |
| Cannabidiol (CBD) | 0.1 - 25% | |
| Cannabidiolic Acid (CBDA) | 0.1 - 25% | |

| C71 Pesticides in Cannabis Ψ | | |
|-------------------------------------|---------------------|--|
| Analyte | Concentration Range | Information |
| Acephate | 0.1 - 1 µg/g | Mar/Oct 6 x 1 g vials blank cannabis 2 x spiking solutions Preservative: None Member Fee: \$620 Non-Member Fee: \$750 |
| Aldicarb | 5.0 - 20 µg/g | |
| Azoxystrobin | 0.1 - 1 µg/g | |
| Bifenazate | 0.1 - 1 µg/g | |
| Boscalid | 0.1 - 1 µg/g | |
| Carbaryl | 0.25 - 5 µg/g | |
| Carbofuran | 0.1 - 1 µg/g | |
| Diazinon | 0.1 - 1 µg/g | |
| Dichlorvos (DDVP) | 0.5 - 10 µg/g | |
| Dimethoate | 0.1 - 1 µg/g | |
| Ethoprophos | 0.1 - 1 µg/g | |
| Etoxazole | 0.1 - 1 µg/g | |
| Fipronil | 0.3 - 1.2 µg/g | |
| Fludioxonil | 0.1 - 1 µg/g | |
| Imidacloprid | 0.1 - 1 µg/g | |
| Malathion | 0.1 - 1 µg/g | |
| Metalaxyl | 0.1 - 1 µg/g | |
| Methiocarb | 0.1 - 1 µg/g | |
| Methomyl | 0.25 - 1 µg/g | |
| Myclobutanil | 0.1 - 1 µg/g | |
| Oxamyl | 15 - 60 µg/g | |
| Paclobutrazol | 0.1 - 1 µg/g | |
| Propoxur (Baygon) | 0.1 - 1 µg/g | |
| Spiromesifen | 15 - 60 µg/g | |
| Spirotetramat | 0.1 - 1 µg/g | |
| Thiamethoxam | 0.1 - 1 µg/g | |
| Trifloxystrobin | 0.1 - 1 µg/g | |

| C72 Metals in Hemp Ψ | | |
|-----------------------------|---------------------|--------------------------|
| Analyte | Concentration Range | Information |
| Arsenic | 0.1 - 10 µg/g | Mar/Oct 2 x 2 g vials |
| Cadmium | 0.1 - 50 µg/g | |

C72 Metals in Hemp Ψ

| Analyte | Concentration Range | Information |
|----------|---------------------|--|
| Chromium | 0.1 - 10 µg/g | Preservative: None Member Fee: \$350 Non-Member Fee: \$455 |
| Lead | 0.1 - 10 µg/g | |
| Mercury | 0.05 - 2 µg/g | |

C73 Residual Solvents in Hemp Seed Oil Ψ

| Analyte | Concentration Range | Information |
|---------------------------------------|---------------------|--|
| 1-Butanol (n-Butanol) | 500 - 7000 µg/g | Mar/Oct 2 x 1 g vials blank hemp oil 2 x spiking solutions Preservative: None Member Fee: \$490 Non-Member Fee: \$640 |
| 1-Pentanol | 500 - 7000 µg/g | |
| 1-Propanol (Propanol) | 500 - 7000 µg/g | |
| 2-Butanol | 500 - 7000 µg/g | |
| 2-Butanone (Methyl ethyl ketone, MEK) | 500 - 7000 µg/g | |
| 2-Propanol (Isopropyl alcohol) | 500 - 7000 µg/g | |
| 3-Methyl-1-butanol | 500 - 7000 µg/g | |
| Acetone (2-Propanone) | 500 - 7000 µg/g | |
| Anisole | 500 - 7000 µg/g | |
| Butane | 500 - 7000 µg/g | |
| Butyl acetate | 500 - 7000 µg/g | |
| Dimethyl sulfoxide | 500 - 7000 µg/g | |
| Ethanol | 500 - 7000 µg/g | |
| Ethyl acetate | 500 - 7000 µg/g | |
| Ethyl ether | 500 - 7000 µg/g | |
| Heptane | 500 - 7000 µg/g | |
| Isobutanol (2-Methyl-1-propanol) | 500 - 7000 µg/g | |
| Isobutyl acetate | 500 - 7000 µg/g | |
| Isopropyl acetate | 500 - 7000 µg/g | |
| Methyl acetate | 500 - 7000 µg/g | |
| Pentane | 500 - 7000 µg/g | |
| Propane | 500 - 7000 µg/g | |
| Propyl acetate | 500 - 7000 µg/g | |
| Triethylamine | 500 - 7000 µg/g | |

C78 Water Activity/% Moisture in Hemp Ψ (NEW)

| Analyte | Concentration Range | Information |
|------------------|---------------------|--|
| Percent Moisture | 1 - 60 % | Mar/Oct 2 x 6 g vials Preservative: None Member Fee: 200 Non-Member Fee: \$260 |
| Water Activity* | 0.1 - 10 aw | |

6.0 Special Notes

Ψ Cannabis PT samples will only be shipped to laboratories that hold a valid Health Canada licence for cannabis testing.

* These test groups are not currently included in PT Canada's A2LA scope of accreditation. Please refer to the A2LA web-site for the most current coverage.

** Microbiology samples within Canada will not be shipped without the appropriate Public Health Agency of Canada license or a claim that the participant is exempt from licencing.

Fees: With the exception of government laboratories that have provided a valid purchase order, all fees must be paid in advance. Failure to make payment will result in samples not being shipped. All fees are in Canadian dollars.

Shipping Fees: Shipments to countries other than Canada shall pay a shipping cost equal to 25% of the sample fees.

All Test Groups: The indicated concentration ranges are approximate values only. Actual concentrations may be higher or lower than those indicated.

General Organics: Because the assigned values used for the calculation of z-scores are based on consensus data, laboratories that are using isotope dilution procedures may observe a bias relative to the assigned values

7.0 History of Changes

| Date | Rev. No. | Sections | Changes |
|------------|----------|-------------------|---|
| 12/18/2019 | 1.0 | | Initial publication |
| 01/22/2020 | 1.1 | 5.1 | Corrected concentration ranges for C02B and C02C |
| 12/23/2020 | 1.2 | 1.0 | Added A2LA certificate number and removed some accreditation flags. |
| 03/03/2021 | 1.3 | 3.0 5.2 | Modified schedule for COVID changes Added a preservative for C07. |
| 11/08/2021 | 1.4 | 3.0 5.0 6.0 | Updated schedule. Updated for current A2LA accreditation status. Updated shipping fees. |
| 03/22/2022 | 1.5 | 5.1 | Corrected test group name for C02A and C02C. |
| 4/1/2022 | 1.3 | | Updated indications where analytes are not on the PTC scope of accreditation. |