

P02-04 – CALA Program Description - PT Catalogue
Revision 1.5 – December 06, 2011



CALA
Proficiency Testing

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CALA PROGRAM DESCRIPTION – PT CATALOGUE

1.0 INTRODUCTION

The CALA Proficiency Testing (PT) Program is accredited to *ISO/IEC 17043- Conformity assessment—General requirements for proficiency testing* and offers PT in support of inorganics, organics and microbiology methods covering matrices such as water, soil/sediment, oil and air filters. For a detailed list of what is covered by the A2LA accreditation please refer to the on-line scope (<https://www.a2la.org/dirsearchnew/resultscurrent.cfm>).

With the exception of C05A (microbiology) and C05B (microbiology) 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.

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 P50, P51 and P52, each test group consists of four samples of different concentration. The P50, P51 and P52 test groups consist of two samples per study.

2.0 REFERENCES

The following CALA documents provide information about Proficiency Testing and other CALA programs:

- P02-01 - *CALA Program Description*;
- P02-02- *CALA Program Description - Fee Schedule*;
- P02-03 - *CALA Program Description – Proficiency Testing Policy for Accreditation*
- P02-05 - *CALA Program Description – List of Approved PT Providers*;
- PT15-01 - *CALA PT Program - Scheme*;
- PT15-02 - *CALA PT Program – Policies*;
- PT15-03 - *CALA PT Program – Procedures*;
- PT15-04 - *CALA PT Program – Collaborator Laboratories*;
- PT15-05 - *CALA PT Program – Regression Equations*; and,
- PT33-*List of PT Collaborators*.

3.0 REGISTRATION

Laboratories wishing to participate in CALA Proficiency Testing must submit a completed Application (P04-02-CALA *Application for Proficiency Testing* for testing laboratories or P04-07 - CALA *Application for Drinking Water Treatment Proficiency Testing*).

4.0 TESTS OFFERED IN THE CALA 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 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.

C01A Major Ions in Water

Mar/Oct	Alkalinity to pH 4.5 (20 - 250 mg/L)
500 mL	Chloride (5 - 500 mg/L)
No Preservative	Conductivity at 25°C (20 - 2000 µS/cm)
	Calcium (2 - 200 mg/L)
	Magnesium (2 - 50 mg/L)
	Fluoride (0.2 - 4.0 mg/L)
	Hardness as CaCO ₃ (10 - 800 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)
	Sulfate (5 - 200 mg/L)

C01B NH₃/PO₄/Carbon/Bromide/Nitrite in Water

Mar/Oct	Ammonia (0.5 - 20.0 mg/L)
250 mL	Organic Carbon (2.0 - 20.0 mg/L)
No Preservative	Phosphate (0.1 - 3.0 mg/L)
	Bromide (1.0 - 10.0 mg/L)
	Nitrite (0.1 - 1.0 mg/L)

C02A Metals (Full Range) in Water

Mar/Oct	Aluminum (0.001 - 1.60 mg/L)
250 mL	Antimony (1.0 - 100 µg/L)
0.2% HNO ₃	Arsenic (1.0 - 100 µg/L)
	Barium (0.001 - 1.6 mg/L)
	Beryllium (0.001 - 0.10 mg/L)
	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)

C02A (Cont.)

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)
Silver (0.001 - 0.100 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 - 1.60 mg/L)
Vanadium (0.001 - 1.60 mg/L)
Zinc (0.001 - 1.60 mg/L)

C02B Metals (High Range) in Water

Mar/Oct
 250 mL
 0.2% HNO₃

Aluminum (0.25 - 1.6 mg/L)
Barium (0.25 - 1.6 mg/L)
Boron (0.25 - 1.6 mg/L)
Chromium (0.25 - 1.6 mg/L)
Cobalt (0.25 - 1.6 mg/L)
Copper (0.25 - 1.6 mg/L)
Iron (0.25 - 1.6 mg/L)
Lead (0.25 - 1.6 mg/L)
Manganese (0.25 - 1.6 mg/L)
Molybdenum (0.25 - 1.6 mg/L)
Nickel (0.25 - 1.6 mg/L)
Strontium (0.25 - 1.6 mg/L)
Thallium (0.25 - 1.6 mg/L)
Titanium (0.25 - 1.6 mg/L)
Vanadium (0.25 - 1.6 mg/L)
Zinc (0.25 - 1.6 mg/L)

C02C Metals (Total) in Water

Mar/Oct
 250 mL
 0.2% HNO₃

Aluminum (0.25 - 1.6 mg/L)
Barium (0.25 - 1.6 mg/L)
Boron (0.25 - 1.6 mg/L)
Chromium (0.25 - 1.6 mg/L)
Cobalt (0.25 - 1.6 mg/L)
Copper (0.25 - 1.6 mg/L)
Iron (0.25 - 1.6 mg/L)
Lead (0.25 - 1.6 mg/L)
Manganese (0.25 - 1.6 mg/L)
Molybdenum (0.25 - 1.6 mg/L)
Nickel (0.25 - 1.6 mg/L)
Strontium (0.25 - 1.6 mg/L)
Thallium (0.25 - 1.6 mg/L)
Titanium (0.25 - 1.6 mg/L)
Vanadium (0.25 - 1.6 mg/L)
Zinc (0.25 - 1.6 mg/L)

C03 Total Nutrients in Water

Mar/Oct 250 mL pH < 2 with H2SO4	Total Kjeldahl Nitrogen (2.0 – 20 mg/L) Total Phosphorus (0.10 – 4.0 mg/L)
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C04A Solids in Water

Mar/Oct 500 mL No Preservative	Total Suspended Solids (10 – 200 mg/L) Volatile Suspended Solids (5 – 150 mg/L) Total Dissolved Solids (100 – 1000 mg/L)
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C04B Biochemical Oxygen Demand in Water

Mar/Oct 1000 mL Freezing	BOD (25 – 200 mg/L) CBOD (25 – 200 mg/L)
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C04C Turbidity in Water

Mar/Oct 100 mL No Preservative	Turbidly (0.5 – 50 NTU)
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C04D Chemical Oxygen Demand

Mar/Oct 250 mL pH < 2 with H2SO4	COD (30 – 500 mg/L)
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C05A Microbiology (Quantified) in Water

Mar/Oct 2 – 5 mL Stabilized	<i>Escherichia coli</i> (<i>E. coli</i>) (20 – 100 CFU/100 mL) Fecal (Thermotolerant) Coliforms (20 – 100 CFU/100 mL) Heterotrophic Plate Count (200 – 1000 CFU/mL) Total Coliforms (20 – 100 CFU/100 mL)
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C05B Microbiology (Presence/Absence) in Water

Mar/Oct 2 – 5 mL Stabilized	<i>Escherichia coli</i> (<i>E. coli</i>) Total Coliforms
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C06A Organochlorine Pesticides in Water

Jan/Jun 1000 mL No Preservative	alpha-BHC (0.05 – 3.0 µg/L) 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 – 5.0 µg/L) Dieldrin (0.05 – 5.0 µg/L) Heptachlor (0.05 – 5.0 µg/L) a – Chlordane (0.05 – 5.0 µg/L) g – Chlordane (0.05 – 5.0 µg/L)
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C06B Polychlorinated Biphenyls (PCBS) in Water

Jan/Jun	Total PCB (1.0 - 20.0 µg/L)
1000 mL	Aroclor 1242 (1.0 - 20.0 µg/L)
No Preservative	Aroclor 1254 (1.0 - 20.0 µg/L)
	Aroclor 1260 (1.0 - 20.0 µg/L)

C07 Polycyclic Aromatic Hydrocarbons (PAHs) in Water

Jan/Jun	Acenaphthene (1.0 - 20.0 µg/L)
1000 mL	Acenaphthylene (1.0 - 20.0 µg/L)
No Preservative	Anthracene (1.0 - 20.0 µg/L)
	Benzo (a) anthracene (1.0 - 20.0 µg/L)
	Benzo (a) pyrene (1.0 - 20.0 µg/L)
	Benzo (b) fluoranthene (1.0 - 20.0 µg/L)
	Benzo (g,h,i) perylene (1.0 - 20.0 µg/L)
	Benzo (k) fluoranthene (1.0 - 20.0 µg/L)
	Chrysene (1.0 - 20.0 µg/L)
	Dibenzo(a,h)anthracene (1.0 - 20.0 µg/L)
	Fluoranthene (1.0 - 20.0 µg/L)
	Fluorene (1.0 - 20.0 µg/L)
	Indeno (1,2,3 - cd) pyrene (1.0 - 20.0 µg/L)
	Naphthalene (1.0 - 20.0 µg/L)
	Phenanthrene (1.0 - 20.0 µg/L)
	Pyrene (1.0 - 20.0 µg/L)

C08 Polychlorinated Biphenyls (PCBS) in Oil

Jan/Jun	Total PCB (5.0 - 50.0 µg/g)
3 mL vial	Aroclor 1242 (5.0 - 50.0 µg/g)
No Preservative	Aroclor 1254 (5.0 - 50.0 µg/g)
	Aroclor 1260 (5.0 - 50.0 µg/g)

C09 Metals on Air Filters

Jan/Jun	Cadmium (4.0 - 30 µg/HVF)
47 mm x 2 (quartz)	Copper (4.0 - 60 µg/HVF)
No Preservative	Lead (4.0 - 80 µg/HVF)
	Zinc (4.0 - 60 µg/HVF)

C11 Rainbow Trout LC50

Mar/Oct	Trout 96 Hour LC50 (2 - 10 mL/L)
1000 mL	
No Preservative	

C12 Daphnia LC50

Mar/Oct	Daphnia 48 Hour LC50 (2 - 40 mL/L)
500 mL	
No Preservative	

C13 Microtox

Mar/Oct	Microtox 15 Minute IC50 (4 - 10 mL/L)
100 mL	
No Preservative	

C14 Cyanide in Water

Mar/Oct 500 mL pH > 12 NaOH	Strong Acid Dissociable Cyanide (0.2 – 5.0 mg/L)
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C15 pH in Water

Mar/Oct 125 mL No Preservative	pH (3 – 10 pH units)
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C16 Volatile Organic Compounds in Water

Jan/Jun 2 x 40 mL vials No Preservative	1,1,1-Trichloroethane (6.0 – 200 µg/L) 1,1,2,2-Tetrachloroethane (6.0 – 200 µg/L) 1,1,2-Trichloroethane (6.0 – 200 µg/L) 1,1-Dichloroethane (6.0 – 200 µg/L) 1,1-dichloroethylene (6.0 – 200 µg/L) 1,2-dichlorobenzene (6.0 – 200 µg/L) 1,2-dichloroethane (6.0 – 200 µg/L) 1,2-Dichloropropane (6.0 – 200 µg/L) 1,3-Dichlorobenzene (6.0 – 200 µg/L) 1,4-dichlorobenzene (6.0 – 200 µg/L) Acetone (2-Propanone) (6.0 – 200 µg/L) Benzene (6.0 – 200 µg/L) Bromodichloromethane (6.0 – 200 µg/L) Bromoform (6.0 – 200 µg/L) Carbon Tetrachloride (6.0 – 200 µg/L) Chlorobenzene (6.0 – 500 µg/L) Chlorodibromomethane (6.0 – 500 µg/L) Chloroform (6.0 – 200 µg/L) cis-1,2-Dichloroethylene (6.0 – 200 µg/L) cis-1,3-Dichloropropene (6.0 – 200 µg/L) Dichloromethane (6.0 – 500 µg/L) Ethylbenzene (6.0 – 500 µg/L) Ethylene Dibromide (6.0 – 200 µg/L) m/p-xylene (6.0 – 200 µg/L) Methyl Ethyl Ketone (6.0 – 200 µg/L) Methyl t-butyl ether (MTBE) (6.0 – 200 µg/L) Methyl isobutyl Ketone (MIBK) (6.0 – 200 µg/L) o-xylene (6.0 – 200 µg/L) Styrene (6.0 – 200 µg/L) Tetrachloroethylene (6.0 – 200 µg/L) Toluene (6.0 – 200 µg/L) trans-1,2-Dichloroethylene (6.0 – 200 µg/L) trans-1,3-Dichloropropene (6.0 – 200 µg/L) Trichloroethylene (6.0 – 200 µg/L) Trichlorofluoromethane (6.0 – 200 µg/L) Vinyl Chloride (6.0 – 200 µg/L)
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C17 Metals in Soil/Sediment

Jan/Jun	Aluminum (1000 - 100000 µg/g)
5 - 7 g	Antimony (0.5 - 4.0 µg/g)
No Preservative	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)
	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)

C18 Polycyclic Aromatic Hydrocarbons (PAHs) in Soil

Jan/Jun	Acenaphthene (0.2 - 50 µg/g)
25 - 40 g	Acenaphthylene (0.2 - 50 µg/g)
No Preservative	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 (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)

C19 Mercury in Water

Mar/Oct	Mercury (0.5 - 5 µg/L)
125 mL	
1% H2SO4/0.05% K2Cr2O7	

C20 Asbestos

Jan/Mar/Jun/Oct	Asbestos
Slide/Wedge	
No Preservative	

C21 Metals on Air Filters

Jan/Mar/Jun/Oct	Cadmium (10 – 25 µg)
37 mm cellulose ester filter	Chromium (50 – 200 µg)
No Preservative	Lead (25 – 200 µg)
	Zinc (75 – 200 µg)

C22 Organophosphorus Pesticides in Water

Jan/Jun	Atrazine (2 – 5 µg/L)
1000 mL	Azinphos-methyl (10 – 40 µg/L)
No Preservative	Bendiocarb (1 – 40 µg/L)
	Carbaryl (0.2 – 90 µg/L)
	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

Jan/Jun	2,4-Dichlorophenoxyacetic Acid (0.1 – 10 µg/L)
1000 mL	2,4,5-Trichlorophenoxyacetic Acid (0.1 – 10 µg/L)
No Preservative	Bromoxynil (1 – 5 µg/L)
	Dicamba (1 – 10 µg/L)
	Diclofop-methyl (as free acid) (0.5 – 5 µg/L)
	Dinoseb (1 – 10 µg/L)
	Picloram (0.1 – 10 µg/L)

C25 Phenolic Compounds

Jan/Jun	2,4,6-Trichlorophenol (2 – 20 µg/L)
1000 mL	2,3,4,6-Tetrachlorophenol (2 – 20 µg/L)
No Preservative	2,4-Dichlorophenol (2 – 20 µg/L)
	Pentachlorophenol (2 – 20 µg/L)

C27 Glyphosate in Water

Jan/Jun	Glyphosate (25 – 80 µg/L)
250 mL	
No Preservative	

C29 Aldicarb in Water

Jan/Jun	Aldicarb (1 – 9 µg/L)
250 mL	
No Preservative	

C31A Petroleum Hydrocarbons in Soil

Jan/Jun 30 g Freezing	F1: C6-C10 (30 - 3500 mg/kg) Benzene (0.1 - 10 mg/kg) Ethylbenzene (10 - 100 mg/kg) m/p- Xylene (100 - 500 mg/kg) o-Xylene (100 - 500 mg/kg) Toluene (10 - 200 mg/kg)
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C31B Petroleum Hydrocarbons in Soil

Jan/Jun 30 g Freezing	F2: C10-C16 (150 - 6500 mg/kg) F3: C16-C34 (250 - 12500 mg/kg) F4: C34-C50 (1000 - 12500 mg/kg) F4: Gravimetric (1000 - 12500 mg/kg)
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C32 Chlorine in Water

Mar/Oct 250 mL No Preservative	Free Chlorine (0.5 - 3.0 mg/L) Total Chlorine (0.5 - 3.0 mg/L)
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C33 Total 4AAP Phenolics

Mar/Oct 250 mL pH < 2 H2SO4	Total Phenolcs (0.005 - 0.5 mg/L)
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C34 Total Hexane Extractable Oil and Grease

Jan/Jun 1000 mL pH < 2 HCl	Total Oil and Grease (10 - 500 mg/L)
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C35 Polychlorinated Biphenyls (PCBS) in Soil

Jan/Jun 30 g No Preservative	Total PCB (2 - 150 µg/g) Aroclor 1242 (2 - 150 µg/g) Aroclor 1254 (2 - 150 µg/g) Aroclor 1260 (2 - 150 µg/g)
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C36 Volatile Organic Compounds in Soil

Jan/Jun 30 g Freezing	1,1,1-Trichloroethane (5 - 200 µg/g) 1,1,2,2-Tetrachloroethane (5 - 200 µg/g) 1,1,2-Trichloroethane (5 - 200 µg/g) 1,1-Dichloroethane (5 - 200 µg/g) 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) 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)
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C36 (Cont.)

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)

C37 Colour in Water

Mar/Oct 125 mL No Preservative	True Colour (0 - 50 CU)
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P50 Chlorine in Drinking Water by Test-Kit

Mar/Oct 125 mL No Preservative	Total Chlorine (0.5 - 3.0 mg/L) Free Chlorine (0.5 - 3.0 mg/L)
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P51 Turbidity in Drinking Water by Test-Kit

Mar/Oct 125 mL No Preservative	Turbidity (0.5 - 10 NTU)
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P52 pH in Drinking Water by Portable Meter

Mar/Oct 125 mL No Preservative	pH (4 - 8 pH Units)
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Special Notes

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

C02A, C02B and C02C: Full range metals will be of interest to labs that analyze samples over the range of 0.001 mg/L to 1.60 mg/L (e.g., drinking water, surface water and groundwater). Full range metals also contain Arsenic, Selenium and Antimony at microgram/L concentrations. High range metals (C02B) in the range 0.25 mg/L to 1.6 mg/L are applicable to labs that do not carry out trace metal analysis but are geared to industrial and wastewater concentrations. Arsenic, Selenium and Antimony are not present in the high range samples. There is no need to participate in both ranges unless you have both high and full range

capability, for example using different methods such as ICP/MS and AA. Total metals (C02C) are for laboratories that perform a digestion step prior to analysis.

C31A and C31B: F1/BTEX and F2, F3, F4 in soil are designed for the CCME Petroleum Hydrocarbons method. Although it is not essential that labs use the CCME extraction and analysis method for CALA PT purposes, for comparability, labs must report their data using the CCME fractions as outlined here and provide information on what method was used. C31B F4 Gravimetric is intended for gravimetric analysis of this fraction.

C33: Total Phenolics to be analyzed by colorimetric procedure.

C34: Total Oil and Grease to be analyzed by the solvent extraction, gravimetric procedure.

P50, P51 and P52: Intended for use by drinking water treatment using portable field equipment.