# CALA CERTIFICATION, CHAIN OF CUTODY FOR SAMPLING

AND

SCOPE OF CADUCEON LAB ACCREDITATION

					DHINKING	WATER FACILITY 6	/ CLASSIFICATION	NOT	REPORT NU	REPORT NUMBER (Lob Use)	(40
	C A D U	ENVIRONMENTAL LABORATORIES	Z		Municipal Large Large Residential	Small Non-Municipal Small Non-Residential	0000	Reg. 170/03 Reg. 318/06 & 319/06 Reg. 243/07			
- Kingston	Indicate Laborator	Indicate Laboratory Samples are Submitted to Ottawa Rehmond Hill	1 6	Indsor	Other	Raw Drinking water	)	ATE MAIL MAILE			
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After Hours Tel:	Public Health Unit:	Waterworks No.:		Project Name/No.			4+1				60% - 48 Hours 25% - 72 Hours
		Quote No.:	Image	P.O. No.:	urlacia	DS/NO3	s, Cu, Fe rVI, Pb, yanide	103		Standard 5-7 days Specific Date:	days
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170-3000		Semple	Cantrol	Sedimentation Car	Consumption)	Mar, SW > Backress	A. PSup = Filter S		echesel, WW - Wasterra	ter, RWFC = Ray	r Warber for
No. Sample Source	Sample Source Indio: Smith Handleston.	Habte"	Point -	Sylmical Street	Collected Reservois	N. IN	Using & Check Mi	ft In The Box Provided	14.	Total Total	Semple
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	Has Lab Service	Has Lab Service Notification (LSN) Form been co	been con	npleted & st	mpleted & submitted to the MOE/PHU?			No No	Not Applicable		
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# for Laboratory Accreditation Inc. Canadian Association

CALA

Certificate of Accreditation

Caduceon Environmental Laboratories (Ottawa)
Caduceon Enterprises Inc.
2378 Holly Lane
Ottawa, Ontario

management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009). This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.



Accreditation No.: A2644

Issued On: February 15, 2017
Accreditation Date: January 3, 2005
Expiry Date: August 16, 2019

President & CEO



policy in place at date of issue. For the specific tests to which this accreditation applies, please refer to the laboratory's scope of accreditation at www.cala.ca This certificate is the property of the Canadian Association for Laboratory Accreditation Inc. and must be returned on request; reproduction must follow

# Canadian Association for Laboratory Accreditation Inc.



Certificate of Accreditation

Caduceon Environmental Laworatories (Kingston)
Caduceon Enterprises Inc.
285 Dalton Ave.
Kingston, Ontario

This laboratory is accredited in accordance with the exostrized international Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Accreditation No.: A2728

Issued On: December 22, 2016 Accreditation Date: January 3, 2005

Expiry Date: June 22, 2019

President & CEO



This certificate is the property of the Canadian Association for Laboratory Accreditation Inc. and must be returned on request, reproduction must follow policy in place at date of issue. For the specific tests to which this accreditation applies, please refer to the laboratory's scope of accreditation at www.calaca



# **CALA Directory of Laboratories**

Membership Number: 2644

Laboratory Name: Caduceon Environmental Laboratories (Ottawa)

Parent Institution: Caduceon Enterprises Inc.

Address: 2378 Holly Lane Ottawa ON K1V 7P1

Contact: Mr. Greg Clarkin Phone: (613) 526-0123 Fax: (613) 526-1244

Email: gclarkin@caduceonlabs.com

Standard: Conforms with requirements of ISO/IEC 17025

**Clients Served:** 

Revised On: May 9, 2013 Valid To: October 25, 2015

# Scope of Accreditation

## Air (Inorganic)

Metals - Air Filter (012)

D-ICP-02; modified from APHA 3120 B ICP - DIGESTION

Cadmium

Chromium

Cobalt

Copper

Iron

Lead

Manganese

Molybdenum

Nickel

Zinc

# Air (Inorganic)

Total Suspended Particulates - Air Filter (018)

A-TSP-01; modified from MOEE E3288A

**GRAVIMETRIC** 

**Total Suspended Particulates** 

# Dustfall

Total/insoluble Dustfall - Dustfall (020) A-DF-01; modified from MOEE DF-E3043A

**FILTRATION - GRAVIMETRIC** 

Insoluble Dustfall Total Dustfall

<sup>† &</sup>quot;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 "Sate Drinking Water Act" (2002).



# **CALA Directory of Laboratories**

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Parent Institution: Caduceon Enterprises Inc.

Address: 2378 Holly Lane Ottawa ON K1V 7P1

Contact: Mr. Greg Clarkin Phone: (613) 526-0123 Fax: (613) 526-1244

Email: oclarkin@caduceonlabs.com

Standard: Conforms with requirements of ISO/IEC 17025

**Clients Served:** 

Revised On: May 9, 2013 Valid To: October 25, 2015

Scope of Accreditation

Metals - Air Filter (012)

D-ICP-02; modified from APHA 3120 B ICP - DIGESTION

Cadmium Chromium Cobalt Copper

Iron

LUGU

Manganese Molybdenum

Nickel

Zinc

Air (inorganic)

Total Suspended Particulates - Air Filter (018) A-TSP-01; modified from MOEE E3288A

**Total Suspended Particulates** 

Dustfall

Total/insoluble Dustfall - Dustfall (020) A-DF-01; modified from MOEE DF-E3043A FILTRATION - GRAVIMETRIC

> Insoluble Dustfall Total Dustfall

occion the analysis of Charle dimining water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

```
Fluoride Candles
Fluoride - Candles (019)
A-FISE-01; modified from MOEE FSIE-1983D
        DIGESTION - ISE
        Fluoride
Oil (Organic)
Polychlorinated Biphenyls (PCB) - Oil (040)
C-PCB-01; modified from EPA 8081
        GC/ECD - EXTRACTION
        Aroclor 1242
        Aroclor 1248
        Aroclor 1254
        Aroclor 1260
Solids (Inorganic)
Anions - Soils, Biosolids (069)
A-IC-01; modified from APHA 4110 C
        ION CHROMATOGRAPHY - EXTRACTION
        Chloride
        Nitrate
        Nitrite
        Sulphate
Solids (Inorganic)
Boron (Hot Water Soluble) - Soil (098)
D-ICP-02; MOE-LaSB E3470
       ICP/AES - EXTRACTION
        Boron
Solids (Inorganic)
Conductivity - Soil, Sediments (099)
A-CONDO-03; SM 2510 B & MOE-LaSB E 3138
        CONDUCTIVITY METER - EXTRACTION
       Conductivity
Solids (Inorganic)
Extractable Anions - Leachate (090)
A-IC-01; modified from EPA 1311, APHA 4110-C
       ION CHROMATOGRAPHY - TCLP
       Nitrate
       Nitrite
Solids (Inorganic)
Extractable Metals - Leachate (091)
D-ICP-01; modified from EPA 1311/APHA 3120 B
ICP/AES - TCLP
       Arsenic
       Barium
       Beryllium
       Boron
       Cadmium
       Chromium
       Lead
       Nickel
       Silver
       Zinc
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<sup>† &</sup>quot;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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Extractable Metals - Leachate (092)
 D-ICPMS-01; modified from EPA 1311/EPA 200.8
        ICP/MS - TCLP
        Antimony
        Arsenic
        Selenium
        Uranium
Solids (inorganic)
Extractable Metals - Leachate (093)
D-HG-02; modified from EPA 1311/SM 3112 B
        COLD VAPOUR AA - TCLP
        Mercury
Solids (Inorganic)
Flash Point - Soil, Solid Waste (096)
C-FPCC-01; modified FROM ASTM D93-10
        CLOSED CUP FLASH POINT TESTER
        Flashpoint
Solids (Inorganic)
Hexavalent Chromium - Soil (094)
D-CRVI-02; modified from EPA 3060A EPA 7196 A COLORIMETRIC - MANUAL
        Chromium (VI)
Solids (Inorganic)
Mercury - Soil, Solid Biosolids (017)
D-HG-01; modified from EPA 7471A
COLD VAPOUR AA - DIGESTION
        Mercury
Solids (Inorganic)
Metals - Soil, Solid Biosolids (015)
D-ICP-02; modified from EPA 6010
        ICP/OES - DIGESTION
        Aluminum
       Antimony
       Arsenic
        Barium
        Bervllium
       Boron
       Cadmium
       Calcium
       Chromium
       Cobalt
       Copper
       Iron
       Lead
       Magnesium
       Manganese
       Molybdenum
       Nickel
       Potassium
       Silver
       Sodium
       Strontium
```

Solids (inorganic)

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```
Tin
        Titanium
        Tungsten
        Vanadium
        Zinc
Solids (Inorganic)
pH - Soil, Sediment, Solid Sludge (100)
A-pH-03; SM 4500 H & MOE-LaSB E3137
        PH METER - EXTRACTION
        Hq
Solids (inorganic)
Total Metals - Soils, Biosolids (070)
D-ICPMS-01; modified from EPA 6020 ICP/MS - DIGESTION
        Antimony
        Arsenic
        Selenium
        Silver
        Thallium
        Uranium
Solids (Organic)
Extractable Volatile Organic Compounds (VOC) - Leachate (089)
C-VOC-01; modified from EPA SW-846 METHOD 1311, 5030/8260
       GC/MS - PURGE AND TRAP - TCLP
       1,1-Dichloroethylene
       1.2-Dichlorobenzene
       1.2-Dichloroethane
       1,4-Dichlorobenzene
       Benzene
       Carbon tetrachloride
       Chlorobenzene
       Chloroform
       Dichloromethane
       Methyl ethyl ketone
       Tetrachloroethylene
       Trichloroethylene
       Vinyl chloride
Solids (Organic)
Petroleum Hydrocarbons (PHC) - Soil (075)
C-PHCS-01; modified from CCME CWS REF. METHOD & MOE E3398
       GC/FID - EXTRACTION
       F2: C10-C16
       F3: C16-C34
       F4: C34-C50
Solids (Organic)
Petroleum Hydrocarbons (PHC) - Soil (097)
C-PHCS-01; modified from CCME CWS REF. METHOD & MOE E3398
       GRAVIMETRIC
```

F4: Gravimetric

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# Solids (Organic)

Polychlorinated Biphenyls (PCB) - Soil (053) C-PCB-02; modified from EPA 8000/8081

**GC/ECD - EXTRACTION** 

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

## Solids (Organic)

Volatile Organic Compounds (VOC) - Soil (083)

C-VOC-02; modified from EPA 8260 GC/MS - PURGE AND TRAP

- 1.1 Dichloropropene
- 1.1-Dichloroethane
- 1.1-dichloroethylene
- 1.1.1-Trichloroethane
- 1,1,1,2 Tetrachloroethane
- 1.1.2-Trichloroethane
- 1.1.2.2-Tetrachloroethane
- 1.2 Dibromo 3 chloropropane
- 1.2-dichlorobenzene
- 1,2-dichloroethane
- 1,2-Dichloropropane
- 1,2,3 Trichlorobenzene
- 1.2.3 Trichloropropane
- 1.2.4 Trichlorobenzene
- 1,2,4 Trimethylbenzene
- 1,3 Dichloropropane
- 1,3-Dichlorobenzene
- 1.3.5 -Trimethylbenzene
- 1.4-dichlorobenzene
- 2 Chlorotoluene
- 2 Hexanone (MBK)
- 2,2 Dichloropropane
- 4 Chlorotoluene

Acetone (2-Propanone)

Benzene

Bromobenzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon Tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane

Chloroform

Chloromethane

cis-1,2-Dichloroethylene

cis-1,3-Dichloropropene Dibromomethane

Dichlorodifluoromethane Dichloromethane

Ethvibenzene

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Ethylene Dibromide **Hexachlorobutadiene** 

Hexane

Isopropylbenzene

Isopropyltoluene

m/p-xylene

Methyl Ethyl Ketone

Methyl isobutyl Ketone

Methyl t-butyl ether

n - Butvibenzene

Naphthalene

o-xviene

Propvibenzene

sec - Butylbenzene

Styrene

tert - Butylbenzene

Tetrachloroethylene

Toluene

trans-1,2-Dichloroethylene

trans-1,3-Dichloropropene

Trichloroethylene

Trichlorofluoromethane

Vinvl Chloride

#### Solids (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Soil (073)
C-GRO-01; modified from CCME CWS REF. METHOD & MOE E3398
GC/FID - PURGE AND TRAP

F1: C6-C10

# Water (Inorganic)

Alkalinity - Water (088)

A-ALK-03; modified from APHA 2320 B

AUTO TITRIMETRIC

Alkalinity (pH 4.5)

## Water (Inorganic)

Ammonia - Water, Wastewater, Liquid Biosolids (055)

A-NH3-01; modified from MOEE RNDNP-E3364, SDNP-E3366

**AUTO COLOR** 

**Ammonia** 

Ammonia - Nitrogen

## Water (Inorganic)

Ammonia - Water, Wastewater, Liquid Biosolids (103)

A-NH3-01; modified from MOEE RNDNP-E3364, SDNP-E3368

COLORIMETRIC - DISCRETE

**Ammonia** 

# Water (Inorganic)

Anions - Water, Wastewater, Liquid Biosolids (002)

A-IC-01; modified from APHA 4110 C ION CHROMATOGRAPHY

**Bromide** 

Chloride

**Fluoride** 

**Nitrate** 

**Nitrite** 

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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

OSDWA †

OSDWA †

OSDWA †

Sulfate

Water (Inorganic) OSDWA † Biochemical Oxygen Demand (BOD) - Water (008) C-BOD-01; modified from APHA 5210 B D.O. METER BOD (5 day) CBOD (5 day) Water (Inorganic) OSDWA † Carbon - Water (054)
C-OC-01; modified from APHA 5310C, EPA 415.1
IR-UV-PERSULFATE Organic Carbon Water (Inorganic) OSDWA † Chemical Oxygen Demand (COD) - Water (083) C-COD-01; modified from APHA 5220 D COLORIMETRIC COD Water (Inorganic) OSDWA + Colour - Water (027) A-COL-01; modified from APHA 2120 C SPECTROPHOTOMETRIC **True Colour** Water (Inorganic) OSDWA † Conductivity - Water (003) A-COND-01; modified from APHA 2510 B CONDUCTIVITY METER Conductivity (25°C) Water (Inorganic) OSDWA † Conductivity - Water (087) A-COND-02; modified from APHA 2510 B AUTO CONDUCTIVITY METER Conductivity (25°C) Water (inorganic) OSDWA † Dissolved and Extractable Metals - Water (004) D-ICP-01; modified from APHA 3120 B Aluminum **Barium** Bervllium **Bismuth** Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum

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Nickel **Potassium** Silicon Silver Sodium Strontium Tin **Titanium** Tungsten Vanadium Yttrium Zinc Zirconium Water (Inorganic) OSDWA † Dissolved Metals - Water (049) D-ICPMS-01; modified from EPA 200.8 ICP/MS **Antimony** Arsenic Barium Bervilium Cadmium Chromium Cobatt Copper Lead Molybdenum Selenium Silver **Thallium** Uranium Vanadium Water (Inorganic) Hexavalent Chromium - Water (095) D-CRVI-01; modified from MOE - HEXCR-E3056 **COLORIMETRIC - MANUAL** Chromium (VI) Water (inorganic) OSDWA † Mercury - Water, Wastewater (025)
D-HG-02; modified from APHA 3112 B
COLD VAPOUR AA - DIGESTION Mercury Water (Inorganic) Nitrate + Nitrite - Water (102) A-NO23-01; modified from SM 4500-NO3-F COLORIMETRIC - DISCRETE ANALYZER Nitrate plus Nitrite Water (Inorganic) Nitrite - Water (101) A-NO2-01; modified from SM 4500-NO2-B

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**COLORIMETRIC - DISCRETE ANALYZER** 

**Nitrite** 

Nitrogen - Water, Wastewater, Liquid Biosolids (033) A-TKN-01; modified from MOEE RTNP-E3367 **AUTO COLOR - DIGESTION** Total Kjeldahl Nitrogen Water (Inorganic) Orthophosphate - Water (104) A-PO4-01; modified from MOEE RNDNP-E3364, SDNP-E3366 **COLORIMETRIC - DISCRETE Phosphate** OSDWA † Water (Inorganic) pH - Water (005) A-pH-01; modified from APHA 4500 H pH METER pН OSDWA † Water (Inorganic) pH - Water (086) A-pH-02; modified from APHA 4500H+ B AUTO - pH METER pΗ OSDWA † Water (Inorganic) Phenols - Water (056) C-PHEN-01; modified from MOE ROPHEN-E3179 **AUTO, 4-AAP Total Phenolics** OSDWA † Water (Inorganic) Phosphate - Water (058) A-PO4-01; modified from MOEE RNDNP-E3364, SDNP-E3366 **AUTO COLOR Phosphate** Water (Inorganic) Total Metals - Water, Wastewater, Liquid Biosolids (067) D-ICP-01; modified from APHA 3120 B ICP/AES - DIGESTION Aluminum **Antimony** Arsenic Barium Bervilium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper iron Lead Lithium Magnesium Manganese Molybdenum

Water (Inorganic)

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 <a href="http://www.cala.ca/cala\_directories.html">http://www.cala.ca/cala\_directories.html</a>

OSDWA †

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Nickel **Potassium** Silver **Sodium** Strontium Tin Titanium Tungsten Vanadium Yttrium Zinc Zirconium Water (Inorganic) Total Metals - Water, Wastewater, Liquid Biosolids (071) D-ICPMS-01; modified from EPA 6020 ICP/MS - DIGESTION **Antimony** Arsenic Barium Bervilium Cadmium Chromium Cobalt Copper Lead Molybdenum Selenium Silver Vanadium Water (Inorganic) OSDWA† Total Phosphorus - Water, Wastewater, Liquid Biosolids (057) A-TP-01; modified from MOEE RTNP-E3367 AUTO COLOR - DIGESTION **Total Phosphorus** Water (Inorganic) OSDWA † Total Suspended Solids (TSS) - Water (009) A-TSS-01; modified from APHA 2540 D **GRAVIMETRIC Total Suspended Solids** Water (Inorganic) OSDWA † Turbidity - Water (026)
A-TURB-01; modified from APHA 2130 B
NEPHELOMETRY **Turbidity** Water (Microbiology) OSDWA † Coliforms - Water (050) B-ECTC-01; modified from MICROMFDC-E3407

**MEMBRANE FILTRATION (DC)** 

Background Bacteria Escherichia coli (E. coli)

**Total Coliforms** 

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Water (Microbiology) OSDWA † Escherichia coli (E. coli) - Water (010) B-MFEC-01; modified from MFMICRO-E3371 MEMBRANE FILTRATION (EC) Escherichia coli (E. coli) Water (Microbiology) OSDWA + Fecal (Thermotolerant) Coliforms - Water (065) B-MFFC-01: modified from MFMICRO-E3371 MEMBRANE FILTRATION (mFC) Fecal (Thermotolerant) Coliforms Water (Microbiology) OSDWA + Heterotrophic Plate Count (HPC) - Water (021) B-HPC-01; modified from APHA 9215 C SPREAD PLATE Heterotrophic Plate Count (HPC) Water (Microbiology) OSDWA † Total Coliforms - Water (066) B-MFTC-01; modified from MFMICRO-E3371 MEMBRANE FILTRATION (mENDO) **Background Counts Total Coliforms** Water (Organic) OSDWA † Glycols - Water (085) C-GLYCOL-01; modified from EPA 8015 B DIRECT INJECTION GC-FID Diethylene Glycol **Ethylene Glycol** Propylene Glycol Water (Organic) OSDWA † Petroleum Hydrocarbons (PHC) - Water (072) C-GRO-01; modified from MOE E3421 GC/FID - PURGE AND TRAP F1: C6-C10 Water (Organic) OSDWA † Petroleum Hydrocarbons (PHC) - Water (074) C-PHCW-02; modified from MOE E3421 GC/FID - EXTRACTION F2: C10-C16 F3: C16-C34 F4: C34-C50 Water (Organic) OSDWA † Volatile Organic Compounds (VOC) - Water (041) C-VOC-01; modified from EPA 8260 and 5030 GC/MS - PURGE AND TRAP 1.1-Dichloroethane 1,1-dichloroethylene 1.1-Dichloropropene 1.1.1-Trichloroethane 1,1,1,2-Tetrachloroethane 1.1.2-Trichloroethane 1,1,2,2-Tetrachloroethane 1.2-Dibromo-3-chloropropane

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- 1.2-dichlorobenzene
- 1,2-dichloroethane
- 1,2-Dichloropropane
- 1.2.3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,3,5-Trimethylbenzene 1,4-dichlorobenzene
- 2-Chlorotoluene
- 2-Hexanone (MBK)
- 2,2-Dichloropropane
- 4-Chlorotoluene
- 4-Isopropyl Toluene
- Acetone (2-Propanone)
- Benzene
- Bromobenzene
- Bromodichloromethane
- **Bromoform**
- **Bromomethane**
- Carbon Tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroform
- Chloromethane
- cis-1,2-Dichloroethylene
- cis-1,3-Dichloropropene
- Dibromomethane
- Dichlorodifluoromethane
- Dichloromethane
- Ethylbenzene
- **Ethylene Dibromide**
- Hexachlorobutadiene
- Hexane
- Isopropyl Benzene
- m/p-xylene
- Methyl Ethyl Ketone
- Methyl isobutyl Ketone
- Methyl t-butyl ether
- n-Butylbenzene
- n-Propylbenzene
- Naphthalene
- o-xylene
- Sec-Butylbenzene
- Styrene
- tert-Butylbenzene
- Tetrachioroethylene
- Toluene
- trans-1,2-Dichloroethylene
- trans-1,3-Dichloropropene
- Trichloroethylene

<sup>† &</sup>quot;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),