



## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

Accredited Laboratory No. 97

**Legal Name of Accredited Laboratory:** **Bureau Veritas Canada (2019) Inc.,  
formerly known as Maxxam Analytics**

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<b>SCC File Number:</b>	15025
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET) Environmental Testing (ET - OSDWA)
<b>Initial Accreditation:</b>	1992-10-06
<b>Most Recent Accreditation:</b>	2020-07-31
<b>Accreditation Valid To:</b>	2024-10-06

**Note: Food and Water Microbiology tests are performed at 6660 Campobello Road, Mississauga, ON L5N 2L9**

**Note: Neutron Activation and Radiological analyses are conducted at 6790 Kitimat Road, Unit 4, Mississauga, Ontario L5N 5L9**



**SCC Group Accreditation:**

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

151068 - Bureau Veritas North America, Lake Zurich Laboratory, 95 Oakwood Rd., Lake Zurich, IL, 60047, Accredited Laboratory No. 876

**NON-METALLIC MINERALS AND PRODUCTS**

Petroleum Refinery Products: (Including asphalt materials; petrochemicals; fuels and lubricants)

Fuels and Lubricants are performed at the following location:

Bureau Veritas, PETROCHEMICAL LABORATORY

4141 Sladeview Crescent Unit 10

Mississauga, ON

MOECC Licence No.: 2312, 2314, 2315

**TEST METHOD DEVELOPMENT & EVALUATION AND NON-ROUTINE TESTING**

**Note: Laboratories accredited under this Program Specialty Area have demonstrated that they meet ISO/IEC 17025 requirements for routine testing under the same product classification as described below.**

Chemical Analysis:

1. Development and validation of new testing methodology for the screening and determination of chemical compounds in food, water and environmental samples.
2. Development of testing methods for the assessment and validation of commercially available test kits for the screening and determination of mycotoxins, allergens and histamines in food, water and environmental samples.
3. Development and validation of mass spectral techniques in food, water and environmental samples.

Microbiology Analysis

1. Development and validation of analytical methods for detection, isolation, identification and characterization of microorganism including bacteria, yeast and molds in food, water and environmental samples.
2. Development, evaluation and validation of new test kits including commercial test kits for the detection and/or enumeration of microorganisms in food, water and environmental samples.
3. Modification, improvement and validation of published or existing methods for detection and/or enumeration of microorganisms in food, water and environmental samples.
4. Analysis of non-routine analytical methods for MPN in food borne pathogens; including but not limited to Salmonella, Shigella, Listeria species or Listeria monocytogenes, E.coli O157:H7, Campylobacter species or Campylobacter jejuni, Vibrio species or Vibrio parahaemolyticus, Vibrio vulnificus, Vibrio cholera, Enterobacter sakazakii



Procedures used for Test Method Development & Evaluation and Non-routine Testing:  
COR WI-00122 Procedure for Compliance to RG-TMD NRT  
COR1SOP-00049: Enumeration of Foodborne Pathogens by MPN

## **ANIMAL AND PLANTS (AGRICULTURE)**

### **Foods and Edible Products: (Human and Animal Consumption)**

**(Animal Tissue, Animal Derived Foods (Dairy, Honey, Eggs), Meat, Fish, Seafood, Fresh and Processed Fruit and Vegetables, Urine, Veal)**

CAM SOP-00332	Determination of Chlorinated Phenols (CPHs) in Soil, Water and Tissue Samples Using Selected Ion Monitoring (SIM) GCMS 2-Chlorophenol 2,3,4,6-Tetrachlorophenol 2,3,5-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4,6-Trichlorophenol 2,6-Dichlorophenol 4-Chloro-3-Methylphenol m/p-Cresol o-Cresol Pentachlorophenol Phenol 2,3,4,5-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol 2,3,4-Trichlorophenol 2,4,5-Trichlorophenol 2,3,6-Trichlorophenol 3,4,5-Trichlorophenol 2,3-Dichlorophenol 2,5-Dichlorophenol 3,4-Dichlorophenol 3,5-Dichlorophenol 3 & 4-Chlorophenol
CAM SOP 00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge Arsenic Calcium Chromium Copper Iron Magnesium Manganese Molybdenum



	Phosphorus
	Potassium
	Selenium
	Sodium
	Sulphur
	Zinc
CAM SOP 00440	Nitrate, Nitrite and TON in Waters, Solids, Sludge and Food by FIA
	Nitrate
	Nitrite
CAM SOP 00447	ICPMS Metals in Waters, Foods, Solids, NHP, Biota
	Aluminum
	Arsenic
	Barium
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Selenium
	Sodium
	Tin
	Titanium
	Zinc
CAM SOP 00453	Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by CVAA.
CAM SOP-00756	Perchlorate in Food by LCMSMS
<b>(Fish and Seafood)</b>	
BRL SOP-00408	PCB Congeners (209 analytes) by HRGC HRMS in Food Product (Modified USEPA Method 1668, MOE Method DFPCB-E3418, and Environment Canada Method EPS1/RM)
BRL SOP-00410	Dioxins/Furans in Water, Soil, Food and Biota by HRGC HRMS (EPA 1613)
	1,2,3,4,6,7,8,9-C18-Dibenzofuran
	1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin
	1,2,3,4,6,7,8-C17-Dibenzofuran
	1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin
	1,2,3,4,7,8,9-C17-Dibenzofuran



1,2,3,4,7,8-C16-Dibenzofuran  
1,2,3,4,7,8-C16-Dibenzo-p-dioxin  
1,2,3,6,7,8-C16-Dibenzofuran  
1,2,3,6,7,8-C16-Dibenzo-p-dioxin  
1,2,3,7,8,9-C16-Dibenzofuran  
1,2,3,7,8,9-C16-Dibenzo-p-dioxin  
1,2,3,7,8-C15-Dibenzofuran  
1,2,3,7,8-C15-Dibenzo-p-dioxin  
2,3,4,6,7,8-C16-Dibenzofuran  
2,3,4,7,8-C15-Dibenzofuran  
2,3,7,8-C14-Dibenzofuran  
2,3,7,8-C14-Dibenzo-p-dioxin  
H6CDD  
H6CDF  
H7CDD  
H7CDF  
O8CDD  
O8CDF  
P5CDD  
P5CDF  
PCDD/PCDF  
T4CDD  
T4CDF

BRL SOP-00423

PAH Compounds by HRGC/ HRMS in Food Products, Sediment  
and Water (Modified EPA 3540C, CARB 429)  
2-chloronaphthalene  
2-Methyl naphthalene  
Acenaphthene  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(e) pyrene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Bibenz(a,h)anthracene  
Chrysene  
Coronene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd) pyrene  
Naphthalene  
Perylene  
Phenanthrene  
Pyrene

**(Food Chemistry - General)**



BRL SOP-00408	PCB Congeners Analyses by HRGC/HRMS (modified EPA 1668A and 1668B)
BRL SOP-00410	PCB Congeners (209 analytes) Dioxins/Furans in Water, Soil (EPA 1613), Food and Biota (modified EPA 1613) by HRGC HRMS 1,2,3,4,6,7,8,9-C18-Dibenzofuran 1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin 1,2,3,4,6,7,8-C17-Dibenzofuran 1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin 1,2,3,4,7,8,9-C17-Dibenzofuran 1,2,3,4,7,8-C16-Dibenzofuran 1,2,3,4,7,8-C16-Dibenzo-p-dioxin 1,2,3,6,7,8-C16-Dibenzofuran 1,2,3,6,7,8-C16-Dibenzo-p-dioxin 1,2,3,7,8,9-C16-Dibenzofuran 1,2,3,7,8,9-C16-Dibenzo-p-dioxin 1,2,3,7,8-C15-Dibenzofuran 1,2,3,7,8-C15-Dibenzo-p-dioxin 2,3,4,6,7,8-C16-Dibenzofuran 2,3,4,7,8-C15-Dibenzofuran 2,3,7,8-C14-Dibenzofuran 2,3,7,8-C14-Dibenzo-p-dioxin H6CDD H6CDF H7CDD H7CDF O8CDD O8CDF P5CDD P5CDF PCDD/PCDF T4CDD T4CDF
BRL SOP-00423	PAH Compounds by HRGC/ HRMS in Food Products, Sediment and Water (modified EPA 3540C, CARB 429) - For Food Products only Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b/j)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene



	Naphthalene
	Phenanthrene
	Pyrene
CAM SOP 00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge
	Only for: Calcium
	Copper
	Chromium
	Iron
	Magnesium
	Manganese
	Molybdenum
	Phosphorus
	Potassium
	Selenium
	Sodium
	Sulphur
	Zinc
CAM SOP 00413	Measurement of pH in Water, Soils and Food Samples
CAM SOP 00423	The Determination of Brookfield Viscosity in Food
CAM SOP 00700	Determination of Cholesterol in Foods, Feeds and Oils by GC/FID
CAM SOP 00701	Determination of Fat in Meat by Gravimetry
CAM SOP 00702	Determination of Fatty Acids in Fats and Oils by GC/FID
CAM SOP 00703	Determination of Sodium Chloride in Food and Feed Products by Titration
CAM SOP 00705	Determination of Fat in Foods using Soxhlet Extraction
CAM SOP 00706	Determination of Fat in Foods using Acid Hydrolysis
CAM SOP 00707	Total Dietary Fibre Soluble Fibre and Insoluble Fibre in Foods by Gravimetry
CAM SOP 00708	Determination of Sugars in Foods by Refractive Index
CAM SOP 00709	Vitamin A and B-Carotene in Food by HPLC
CAM SOP 00710	The Determination of Fat by the Modified Mojonnier Method in Milk, Cream, Milkshake Mix and Confectionary Products
CAM SOP 00711	Determination of Protein in Foods, Feeds and Edible Oils by Combustion
CAM SOP 00712	Vitamin E in foods, feeds, milk, and other dairy products by Capillary Gas Chromatography
CAM SOP 00713	Determination of Ash in Food and Food Products by Gravimetry
CAM SOP 00714	Determination of Acidity in Food and Food Products by Titration
CAM SOP 00715	Determination of Moisture and Total Solids in Food and Food Products by Gravimetry
CAM SOP 00716	Determination of Starch in Food by Spectrophotometry
CAM SOP 00717	Determination of Peroxide Value of Oils and Fats by Titration
CAM SOP 00718	Sulfites in Food and in Seafood by Gravimetry
CAM SOP 00719	Determination of Vitamin D-3 (Cholecalciferol) in Food Products by HPLC
CAM SOP 00720	Determination of Free Fatty Acids in Foods
CAM SOP 00722	The Determination of TBA Value in Foods by Spectrophotometry





CAM SOP 00724	Determination of Vitamin C in Complex Foodstuffs Using HPLC with Electrochemical Detector (Modified QFCL-001-01)
CAM SOP 00732	Determination of Water Activity in Food by Aqualab Water Activity Meter
CAM SOP 00734	Allergens in Foods and Swabs, Mycotoxin in Food using ELISA
CAM SOP 00739	Brix (Soluble Solids) in Foods, Juices and Honey by Refractometer
CAM SOP 00740	Sorbic and Benzoic Acids by HPLC in Food and Beverages
CAM SOP 00750	Determination of Total Folates (Vitamin B9) in Foods by Microbiological Assay
CAM SOP 00751	Determination of Niacin (Vitamin B3) in Food by Microbiological Assay
CAM SOP 00752	Determination of Pantothenic Acid (Vitamin B5) in Food by Microbiological Assay
CAM SOP 00754	Determination of Cobalamin (Vitamin B12) in Food by Microbiological Assay
CAM SOP 00755	Determination of Pyridoxine (Vitamin B6) in Foods by Microbiology Assay
CAM SOP 00762	Determination of Furans in Various Food Matrices by Headspace GC/MS FURAN 2-METHYLFURAN 3-METHYLFURAN
CAM SOP 00874	Analysis of Melamine and Cyanuric Acid in Food by LC/MS/MS
CAM SOP 00882	Determination of Thiamine (Vitamin B1) in Foods by Fluorometry
CAM SOP 00884	Determination of Riboflavin (Vitamin B2) in Foods by Fluorometry
CAM SOP 00885	Analysis of Acrylamide in Food by LCMSMS
CAM SOP-00807	Determination of Perfluorinated Compounds in Food by LC/MS/MS
CAM SOP-00926	Determination of Amino Acids by HPLC
CAM SOP-00927	Determination of Choline in Foods by Enzymatic Method
CAM SOP-00932	Nitrite and Nitrate in Meat and Food Products by HPLC

**(Microbiological)**

AOAC 2014.05	Enumeration of Yeast and Moulds in Food using 3M™ Petrifilm™ Rapid Yeast And Mold Count (RYM) Plate
Assurance GDS® MPX Top7 STEC Assay COR1SOP-00019	BioControl Assurance GDS® MPX Top 7 STEC  Enumeration of Coliforms, Faecal Coliforms and <i>E. Coli</i> in foods using the MPN Method (Modified MFHPB-19; option of standard 3-tube and 10-tube MPN method)
FDA BAM	Isolation and Identification of <i>Salmonella</i> in Food and Environmental Samples Following the FDA-BAM Method
MFHPB-10	Isolation of <i>Escherichia coli</i> O157:H7/NM from foods and environmental surface samples
MFHPB-18	Determination of the Aerobic Colony Count in Foods





MFHPB-19	Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in Foods by using the MPN Method
MFHPB-20	Isolation and Identification of <i>Salmonella</i> from Foods and Environmental Samples
MFHPB-21	Enumeration of <i>Staphylococcus aureus</i> in Foods
MFHPB-22	Enumeration of Yeasts and Molds in Foods
MFHPB-23	Enumeration of <i>Clostridium perfringens</i> in Foods
MFHPB-29	Detection of <i>Listeria</i> spp. in foods and environmental samples by the VIDAS <i>Listeria</i> ™ Method
MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp from foods and environmental samples
MFHPB-31	Determination of Coliforms in Foods Using Violet Red Bile Agar
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plates
MFHPB-34	Enumeration of <i>E. coli</i> and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ <i>E. coli</i> Count Plates
MFHPB-35	Enumeration Of Coliforms In Food Products And Food Ingredients Using 3M™ Petrifilm™ Coliform Count Plates
MFLP-06	Detection of <i>SALMONELLA SPP.</i> in Foods using the 3M™ Molecular Detection System Test Kit
MFLP-16	Detection of <i>Escherichia coli</i> O157:H7 in foods – Assurance GDS® for <i>E.coli</i> O157:H7 Tq Gene Detection System
MFLP-21	Enumeration of <i>Staphylococcus aureus</i> in Foods and Environmental Samples Using 3M™ Petrifilm™ Staph Express Count (STX) Plates
MFLP-25	Isolation and Identification of <i>Shigella</i> spp. from Food
MFLP-27	The Dupont Qualicon Bax® System Method for the Detection of <i>Enterobacter Sakazakii</i> in Selected Foods
MFLP-28	The Qualicon Bax® System Method for the Detection of <i>Listeria Monocytogenes</i> in a Variety of Food
MFLP-29	The Qualicon Bax® System Method for the Detection of <i>Salmonella</i> in Foods and Environmental Surface Samples
MFLP-30	Detection of <i>E. coli</i> O157:H7 in select foods using the Bax® system <i>E.coli</i> O157:H7 MP
MFLP-33	Detection of <i>Listeria monocytogenes</i> in foods by the VIDAS LMO 2™ method
MFLP-36	Detection of <i>Salmonella</i> in Food and Environmental Surface Samples- Assurance GDS® for <i>Salmonella</i> Tq Genetic Detection System
MFLP-37	Part 1: Detection of Halophilic <i>Vibrio</i> Species in Seafood Part 2: Detection of <i>Vibrio Cholerae</i>
MFLP-38	Detection of <i>Salmonella</i> spp. from All Foods and Selected Environmental Surfaces using IQ-Check™ <i>Salmonella</i> Real-time PCR Test Kit
MFLP-39	Detection of <i>Listeria</i> spp. From Environmental Surfaces and heat processed RTE Meat and Poultry Using iQ-Check™ <i>Listeria</i> spp. Real-Time PCR Test Kit
MFLP-42	Isolation and Enumeration of <i>Bacillus cereus</i> group in Foods
MFLP-44	Determination of Aerobic and Anaerobic sporeformers



MFLP-46	Isolation of Thermophilic <i>Campylobacter</i> from Food
MFLP-49	Detection of <i>Salmonella Spp</i> in Food Products and Environmental Surfaces by the VIDAS® UP Salmonella (SPT) Method
MFLP-54	Detection of <i>Listeria monocytogenes</i> from selected foods using iQ-Check™ <i>Listeria monocytogenes</i> Real-Time PCR Test Kit
MFLP-59	Detection of <i>Listeria spp.</i> in food products and environmental surface samples with VIDAS® UP <i>Listeria</i> (LPT)
MFLP-65	Detection of staphylococcal enterotoxins in food products using the vidas® staph enterotoxin ii (set2), an elfa (enzyme linked fluorescent assay) technique
MFLP-72	Detection of <i>Listeria monocytogenes</i> in foods using the 3M™ Molecular Detection System Test Kit
MFLP-74	Enumeration of <i>Listeria monocytogenes</i> in Foods
MFLP-76	The DuPont Qualicon BAX® System real time method for the detection of <i>E.coli</i> O157:H7 in raw beef trim and raw ground beef
MFLP-77	Detection of <i>Listeria monocytogenes</i> and other <i>Listeria spp.</i> in food products and environmental samples by the VIDAS® <i>Listeria</i> species Xpress (LSX) method
MFLP-79	Detection of <i>Listeria spp.</i> in Environmental Surface Samples Using the BAX® System Real-Time PCR Assay for <i>Listeria</i> Genus
MFLP-83	Detection of Verotoxins VT 1 And VT 2 from <i>E.coli</i> O157:H7/NM by The Merck Duopath® Verotoxin Kit
MFLP-86	Identification of vt1 and vt2 genes from Verotoxigenic <i>Escherichia coli</i> by polymerase chain reaction
MFLP-101	Detection of <i>Listeria spp.</i> In Environmental Surface Samples Using the 3M™ Molecular Detection System Test Kit Version 2
MFLP-9	Enumeration of <i>Enterobacteriaceae</i> Species in Food and Environmental Samples Using 3M™ Petrifilm™ <i>Enterobacteriaceae</i> Count Plates
MLG 4	Isolation and Identification of <i>Salmonella</i> from Meat, Poultry, Pasteurized egg and Siluriformes (Fish) products and Carcass and Environmental Sponges
MLG41	Isolation, Identification of <i>Campylobacter jejuni/coli/lari</i> from Poultry Rinse and Sponge and Raw Product Samples
MLG5C	Detection, Isolation and Identification of Top Seven Shiga Toxin-Producing <i>Escherichia coli</i> (STECs) from Meat Products and Carcass and Environmental Sponges

**Animal or Vegetable Fats and Oils and Their Cleavage Products; prepared edible fats; animal or vegetable waxes**

**Beverages, Spirits and Vinegar**

CAM SOP-00739	Brix (Soluble Solids) in Foods, Juices and Honey by Refractometer
CAM SOP-00740	Sorbic and Benzoic Acids by HPLC in Food and Beverages

**Dairy Products**



See Animal Tissue, Animal Derived Foods (Dairy, Honey, Eggs), Meat, Fish, Seafood, Fresh and Processed Fruit and Vegetables, Urine, Veal

CAM SOP-00736	Determination of Undenatured Whey Protein Nitrogen in Non-Fat Dry Milk by Spectrophotometry
CAM SOP-00737	Determination of Solubility Index by Volumetric Analysis
CAM SOP-00738	Determination of Scorched Particles Using Water Disc Method

**Edible Fruits and Nuts**

See Fresh and Processed Fruit and Vegetables

**Edible Vegetables and Certain Roots and Tubers**

See Fresh and Processed Fruit and Vegetables

**Meat and Edible Meat Offal**

**(Meat and Meat Products (See Animal Tissue, Animal Derived Foods (Dairy, Honey, Eggs), Meat, Fish, Seafood, Fresh and Processed Fruit and Vegetables, Urine, Veal))**

**(Natural Health Products)**

CAM SOP-00408	Minerals by ICP in Natural Health Products Mg, Zn, Na, Ca, Cu, Fe, P, K, Mn, Mo, B, Ca, Cr, Se
CAM SOP-00447	Heavy Metals by ICPMS in Natural Health Products As, Cd, Pb
CAM SOP-00453	Mercury by Cold Vapour in Natural Health Products
CAM SOP-00709	Vitamin A by HPLC in Natural Health Products
CAM SOP-00712	Vitamin E in Natural Health Products
CAM SOP-00719	Vitamin D in Natural Health Products
CAM SOP-00724	Vitamin C in Natural Health Products
CAM SOP-00750	Vitamin B9 by Microbiological Assay in Natural Health Products
CAM SOP-00751	Vitamin B3 by Microbiological Assay in Natural Health Products
CAM SOP-00752	Vitamin B5 by Microbiological Assay in Natural Health Products
CAM SOP-00754	Vitamin B12 by Microbiological Assay in Natural Health Products
CAM SOP-00755	Vitamin B6 by Microbiological Assay in Natural Health Products
CAM SOP-00758	Vitamin Bs by HPLC in Natural Health Products
CAM SOP-00766	Solvents by GC (FID detector) (VOC Class I and II) in Natural Health Products
CAM SOP-00882	Vitamin B1 by Microbiological Assay in Natural Health Products
CAM SOP-00884	Vitamin B2 by Microbiological Assay in Natural Health Products
CAM SOP-00926	Amino Acids in Natural Health Products



CAM SOP-00702

Fatty Acids in Natural Health Products

**Environmental - Soil/Sediment/Water/Air**

**CHEMICALS and CHEMICAL PRODUCTS**

**ELASTOMERS AND PROTECTIVE AND COATINGS**

**Medical Products: Devices (Non-Electrical) Limbs Surgical Instruments Sterile**

**Dressings (See also CHEM Pharmaceuticals) Treatment Equipment – NOTE:**

**Specifically: Sutures, Contact lenses, Surgical Tubing**

**NON-METALLIC MINERALS AND PRODUCTS**

**TEXTILES AND FIBROUS MATERIALS**

**WOOD PRODUCTS**

**ANIMAL AND PLANTS (AGRICULTURE) - Foods and Edible Products: (Human and Animal Consumption) – NOTE: Specifically: Iodine in pet food**

BQL SOP-00001

**NEUTRON ACTIVATION**

Long Lived Isotopes which may include:

Antimony

Arsenic

Barium

Cerium

Cesium

Chromium

Cobalt

Europium

Gold

Hafnium

Iron

Lanthanum

Lutetium

Molybdenum

Neodymium

Nickel

Rubidium

Samarium

Scandium

Selenium

Silver

Sodium

Tantalum

Terbium

Thorium

Titanium

Tungsten

Uranium

Ytterbium

Zinc

Zirconium



BQL SOP-00002	NEUTRON ACTIVATION Platinum Group Elements with Nickel-Sulphide Fire Assay Pre-Concentration which may include Os Ir Pd Pt Rh Ru
BQL SOP-00004	NEUTRON ACTIVATION Short-Lived Elements which may include: Aluminum Barium Bromine Calcium Chlorine Dysprosium Europium Fluorine Indium Iodine Magnesium Manganese Potassium Samarium Sodium Strontium Titanium Vanadium
BQL SOP-00005	DELAYED NEUTRON COUNTING for Uranium and U-235

**ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

**Environmental**

**(Soil/Sediment/Water/Air)**

BQL SOP-00006	ALPHA SPECTROMETRY Polonium-210 Radium-224 Radium-226 (OSDWA) Thorium-228 Thorium-230 Thorium-232 Uranium-234 Uranium-235 Uranium-238
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BQL SOP-00007	<b>GAMMA SPECTROMETRY</b> Natural Decay Chain Isotopes which may include Th-234, Th-230, Ra-226, Pb-210, U-235, Th-227, Ra-223, Ac-228, Ra-228 (OSDWA), Rn-222 (OSDWA), Pb-212, Pb-214, Bi-214, Tl-208 Synthetic Isotopes which may include Cs-137, Cs-134, I-131, Zn-65, Co-60, Mn-54, Am-241
BQL SOP-00008	<b>GAS FLOW PROPORTIONAL COUNTING</b> Gross Alpha Activity (OSDWA) Gross Beta Activity (OSDWA) Other radionuclides which may include Lead-210, (OSDWA) Radium-228(OSDWA) Strontium-90
BQL SOP-00009	<b>LIQUID SCINTILLATION COUNTING</b> which may include: Carbon-14 Tritium (OSDWA)

**Air**

BQL-SOP-00010	Electret Ion Chamber Measurement for Radon-222
BRL SOP-00103	Metals by ICP/MS in Water, Soil, Air and Biota (Modified NIOSH 7300, 6009) Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Tungsten Vanadium



	Zinc
	Uranium
BRL SOP-00104	Mercury by CVAAS in Water, Soil, Air and Biota
	Mercury (Hg)
BRL SOP-00105	Anions by IC in Water and Air
	Bromide
	Chloride
	Fluoride
	Nitrite
	Phosphate
	Sulfate
BRL SOP-00106	Hexavalent Chromium by IC in Air
	Chromium VI
BRL SOP-00107	Ammonia in Air by IC (Based on EPA CTM-027)
	Ammonia (as NH <sub>4</sub> <sup>+</sup> )
BRL SOP-00108	Anions From Emission Sampling Trains by IC (Modified EPA 26/26A, EPA SW846 9057)
	Bromine
	Chlorine
	Fluorine
	Hydrogen Bromide
	Hydrogen Chloride
	Hydrogen Fluoride
	Hydrogen Iodide
	Iodine
	Nitric Acid
BRL SOP-00109	Gravimetric Determination of PM Emission from Stationary Sources and Air
	Particulates of Filters, Gravimetric
BRL SOP-00200	Semivolatiles Full Scan by GCMS in Water, Soil and Stack Gas Samples (Modified EPA SW846 8270C, 3510C, 3540C, 3640A, 0010)
	1,2,4-Trichlorobenzene
	1,2-Dichlorobenzene
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	1-Chloronaphthalene
	1-Methylnaphthalene
	2,3,4,5-Tetrachlorophenol
	2,3,4,6-Tetrachlorophenol
	2,3,4-Trichlorophenol
	2,3,5,6-Tetrachlorophenol
	2,3,5-Trichlorophenol
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	2,4-Dichlorophenol
	2,4-Dimethylphenol
	2,4-Dinitrophenol
	2,4-Dinitrotoluene





2,6-Dichlorophenol  
2,6-Dinitrotoluene  
2-Chloronaphthalene  
2-Chlorophenol  
2-Methylnaphthalene  
2-Methylphenol (o-Cresol)  
2-Nitroaniline  
2-Nitrophenol  
3,3'-Dichlorobenzidine  
3+4 Methylphenol (m+p-Cresol)  
3-Nitroaniline  
4,6-Dinitro-2-methylphenol  
4-Bromophenyl Phenyl Ether  
4-Chloro-3-Methylphenol  
4-Chloroaniline  
4-Chlorophenyl Phenyl Ether  
4-Nitroaniline  
4-Nitrophenol  
5-Nitroacenaphthene  
Acenaphthene  
Acenaphthylene  
Aniline  
Anthracene  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Benzoic Acid  
Benzyl Alcohol  
Benzyl Butyl Phthalate  
Biphenyl  
Bis (2-chloroethoxy)Methane  
Bis (2-chloroethyl) Ether  
Bis (2-chloroisopropyl) Ether  
Bis (2-ethylhexyl) Phthalate  
Camphene  
Carbazole  
Chrysene  
Dibenzo (a,h) anthracene  
Dibenzofuran  
Diethyl Phthalate  
Dimethyl Phthalate  
Di-n-Butylphthalate  
Di-n-Octylphthalate  
Diphenylether  
Fluoranthene  
Fluorene  
Hexachlorobenzene



	Hexachlorobutadiene
	Hexachlorocyclopentadiene
	Hexachloroethane
	Indeno (1,2,3-cd) pyrene
	Indole
	Isophorone
	Naphthalene
	Nitrobenzene
	N-Nitrosodimethylamine (NDMA)
	N-Nitroso-di-N-Propylamine
	N-Nitrosodiphenylamine
	Pentachlorophenol
	Perylene
	Phenanthrene
	Phenol
	Pyrene
BRL SOP-00201	PAHs by SIM GCMS in Water, Soil and Air (Modified CARB 429)
	2-Methylnaphthalene
	Acenaphthene
	Acenaphthylene
	Anthracene
	Benzo (a) anthracene
	Benzo (a) pyrene
	Benzo (e) pyrene
	Benzo (g,h,i) perylene
	Benzo (k) fluoranthene
	Benzo( b) fluoranthene
	Chrysene
	Dibenzo (a,h) anthracene
	Fluoranthene
	Fluorene
	Indeno (1,2,3 cd) pyrene
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
BRL SOP-00304	Volatiles in Summa Canisters by GCMS (Modified EPA TO-14A AND TO-15)
	1,1,1-Trichloroethane
	1,1,1,2-tetrachloroethane
	1,1,2,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1-Dichloroethane
	1,1-Dichloroethene
	1,2,3-Trimethylbenzene
	1,2,4-Trichlorobenzene
	1,2,4-Trimethylbenzene
	1,2-Dichlorobezene
	1,2-Dichloroethane



1,2-Dichloropropane  
1,3,5-Trimethylbenzene  
1,3-Butadiene  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
1,4-Dioxane  
2,2,4-Trimethylpentane  
Butane  
2-Butanone (MEK)  
2-Hexanone  
2-Propanol  
4-Ethyltoluene  
4-Methyl-2-Pentanone  
Acetone  
Allyl Chloride  
Benzene  
Benzyl chloride  
Bis ( 2-Chloroethyl) Ether  
Bromobenzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene  
cis-1,3-Dichloropropene  
Cyclohexane  
Decane  
Dibromochloromethane  
Dibromomethane  
Dichlorodifluoromethane  
Ethanol  
Ethyl Acetate  
Ethyl acrylate  
Ethyl Benzene  
Ethyl Bromide  
Ethylene Dibromide  
Halocarbon 113  
Halocarbon 114  
Heptane  
Hexachlorobutadiene  
Hexane  
Isopropyl benzene (Cumene)  
Methyl Cyclohexane  
Methyl Methacrylate



Methyl Tertbutyl Ether  
Methylene Chloride  
m-xylene  
o-xylene  
Propene  
p-xylene  
Styrene  
Tetrachloroethene  
Tetrahydrofuran  
Toluene  
trans 1,2-Dichloroethene  
trans 1,3-Dichloropropene  
trans-1,2-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl Acetate  
Vinyl Bromide  
Vinyl Chloride  
Xylenes (total)  
BRL SOP-00408 PCB Congener (209 Analytes) by HRGC HRMS in Water, Soil and Air (Modified EPA 1668A)

**(PCDD/PCDF - Air)**

BRL SOP-00404 Dioxins and Furans by HRGC HRMS in Air Samples (Modified EPA 40CFR PART 60 APP. A METHOD 23/23A)  
1,2,3,4,6,7,8,9-C18-Dibenzofuran  
1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin  
1,2,3,4,6,7,8-C17-Dibenzofuran  
1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin  
1,2,3,4,7,8,9-C17-Dibenzofuran  
1,2,3,4,7,8-C16-Dibenzofuran  
1,2,3,4,7,8-C16-Dibenzo-p-dioxin  
1,2,3,6,7,8-C16-Dibenzofuran  
1,2,3,6,7,8-C16-Dibenzo-p-dioxin  
1,2,3,7,8,9-C16-Dibenzofuran  
1,2,3,7,8,9-C16-Dibenzo-p-dioxin  
1,2,3,7,8-C15-Dibenzofuran  
1,2,3,7,8-C15-Dibenzo-p-dioxin  
2,3,4,6,7,8-C16-Dibenzofuran  
2,3,4,7,8-C15-Dibenzofuran  
2,3,7,8-C14-Dibenzofuran  
2,3,7,8-C14-Dibenzo-p-dioxin  
H6CDD  
H6CDF  
H7CDD  
H7CDF  
O8CDD  
O8CDF



P5CDD  
P5CDF  
PCDD/PCDF  
T4CDD  
T4CDF

**(Volatiles - Air)**

BRL SOP-00302

VOST Analyses by GCMS in Air (Modified EPA SW846 5041 A, 8260C)

1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,2,3-Trichloropropane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
1,4-Difluorobenzene  
2-Butanone  
2-Hexanone  
4-Methyl-2-Pentanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dichlorodifluoromethane  
Ethyl Benzene  
Ethylene Dibromide  
Iodomethane  
Methylene Chloride  
Styrene  
Tetrachloroethene  
Toluene  
Trans-1,2-Dichloroethylene  
Trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane



Vinyl Chloride  
Xylenes

**Air Filter**

CAM SOP-00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium Silicon Silver Sodium Strontium Tin Titanium Tungsten Vanadium Zinc
CAM SOP-00942	Gravimetric Analysis of Filter-Collected Suspended Particulate Matter

**Biosolids**

MICROBIOLOGY (Biosolids)

**Oil**

CAM SOP-00328	Polychlorinated Biphenyls in Oil Samples (PCBs) by GC/ECD Aroclor-1016 Aroclor-1221 Aroclor-1232
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CAM SOP-00453 Aroclor-1242  
Aroclor-1248  
Aroclor-1254  
Aroclor-1260  
Aroclor-1262  
Aroclor-1268  
Total PCB  
Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by  
CVAA.

**Paint**

CAM SOP 00408 ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and  
Sludge  
Aluminum  
Arsenic  
Barium  
Beryllium  
Bismuth  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Lead  
Magnesium  
Manganese  
Nickel  
Potassium  
Sodium  
Strontium  
Sulfur  
Vanadium  
Zinc  
CAM SOP-00453 Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by  
CVAA.

**Solids**

**(Soil, Sediment, other environmental solids)**

BRL SOP-00012 Nitrosamines Analysis in water, soil by GC/Triple Quadrupole Mass  
Spectrometer  
N-Nitrosodimethylamine  
N-Nitrosoethylmethylamine  
N-Nitrosodiethylamine  
N-Nitroso-di-n-propylamine  
N-Nitrosomorpholine  
N-Nitrosopyrrolidine





BRL SOP-00014	N-Nitrosopiperidine N-Nitroso-di-n-butylamine Determination of Organochlorine in Water and Soil by Gas Chromatography/Triple Quadruple Mass Spectrometry (GC/MS/MS) Hexachlorobenzene a-BHC g-BHC b-BHC heptachlor d-BHC Aldrin Oxychlorodane Heptachlor epoxide g-Chlordane op-DDE Trans-Nonachlor a-Chlordane a-Endosulfan pp-DDE Dieldrin op-DDD Endrin op-DDT cis-Nonachlor pp-DDT b-Endosulfan pp-DDD Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone Mirex
BRL SOP-00015	Determination of Toxaphene in Water and Soil by Gas Chromatography/Triple Quadruple Mass Spectrometry (GC/MS/MS) <u>Hx-Sed</u> <u>Hp-Sed</u> <u>Parlar 26</u> <u>Parlar 41</u> <u>Parlar 40</u> <u>Parlar 44</u> <u>Parlar 50</u> <u>Parlar 62</u> Total Toxaphene
BRL SOP-00217 BRL SOP-00406	1,4 Dioxane in Water and Soil using Isotope Dilution by GCMS Dioxins and Furans by HRGC HRMS in Water and Soil (Modified EPA SW846 8290) 1,2,3,4,6,7,8,9-C18-Dibenzofuran



	1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin
	1,2,3,4,6,7,8-C17-Dibenzofuran
	1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin
	1,2,3,4,7,8,9-C17-Dibenzofuran
	1,2,3,4,7,8-C16-Dibenzofuran
	1,2,3,4,7,8-C16-Dibenzo-p-dioxin
	1,2,3,6,7,8-C16-Dibenzofuran
	1,2,3,6,7,8-C16-Dibenzo-p-dioxin
	1,2,3,7,8,9-C16-Dibenzofuran
	1,2,3,7,8,9-C16-Dibenzo-p-dioxin
	1,2,3,7,8-C15-Dibenzofuran
	1,2,3,7,8-C15-Dibenzo-p-dioxin
	2,3,4,6,7,8-C16-Dibenzofuran
	2,3,4,7,8-C15-Dibenzofuran
	2,3,7,8-C14-Dibenzofuran
	2,3,7,8-C14-Dibenzo-p-dioxin
	H6CDD
	H6CDF
	H7CDD
	H7CDF
	O8CDD
	O8CDF
	P5CDD
	P5CDF
	PCDD
	PCDF
	T4CDD
	T4CDF
BRL SOP-00408	PCB Congener (209 Analytes) by HRGC HRMS in Water, Soil and Air (Modified EPA 1668A)
CAM SOP-00460	Determination of Nitrogen in Soil/Sediment by Combustion
CAM SOP 00307, CAM SOP 00317, CAM SOP 00309	Organochlorine Pesticides and PCBs in Solids, Water and Biological Materials by GC-ECD, Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD, and Neutral Chlorinated Hydrocarbons in Solid and Water by GC/ECD
	1,2,3,4-Tetrachlorobenzene
	1,2,3,5-Tetrachlorobenzene
	1,2,4,5-Tetrachlorobenzene
	1,2,4-Trichlorobenzene
	1,3,5-Trichlorobenzene
	2,4,5-Trichlorotoluene
	a-BHC
	a-Chlordane
	Aldrin
	Aroclor 1016
	Aroclor 1221
	Aroclor 1232
	Aroclor 1242



	Aroclor 1248
	Aroclor 1254
	Aroclor 1260
	Aroclor 1262
	Aroclor 1268
	b-BHC
	d-BHC
	Dieldrin
	Endosulfan I
	Endosulfan II
	Endosulfan Sulfate
	Endrin
	g-Chlordane
	Heptachlor
	Heptachlor Epoxide
	Hexachlorobenzene
	Hexachlorobutadiene
	Hexachlorocyclopentadiene
	Hexachloroethane
	Lindane
	Methoxychlor
	Mirex
	o,p' DDD
	o,p' DDE
	o,p'-DDT
	Octachlorostyrene
	Oxychlordane
	p,p'-DDD
	p,p'-DDE
	p,p'-DDT
	Pentachlorobenzene
	Total PCB
	Toxaphene
CAM SOP 00310	The Determination of Formaldehyde in Water and Soil by HPLC
CAM SOP 00449	Fluoride in Waters, Soil, Air, and Vegetation, by ISE
CAM SOP 00463	Determination of Chloride in Water and Soil by MicroColourimetry
CAM SOP 00464	Sulphate Determination in Water and Soils by Automated Turbidimetry
CAM SOP-00226	Volatile Organic Compounds by Purge and Trap GC/MS in Water, Leachates and Soil
	1,1,1,2-Tetrachloroethane
	1,1,1-Trichloroethane
	1,1,2,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1-dichloroethane
	1,1-Dichloroethene
	1,2-Dibromoethane
	1,2-Dichlorobenzene



1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
2-Hexanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dichlorodifluoromethane  
Dichloroethane  
Ethylbenzene  
Hexane  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl Isobutyl Ketone  
Methyl Tertbutyl Ether  
o-xylene  
Styrene  
Tetrachloroethene  
Toluene  
trans-1,2-Dichloroethene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl Chloride  
Volatile Organic Compounds by Headspace GC/MS in Water and Soil  
1,1,1,2-Tetrachloroethane  
1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,2-Dibromoethane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
2-Hexanone

CAM SOP-00228



	3-Dichlorobenzene
	Acetone
	Benzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Carbon Tetrachloride
	Chlorobenzene
	Chloroethane
	Chloroform
	Chloromethane
	cis-1,2-Dichloroethene
	cis-1,3-Dichloropropene
	Dibromochloromethane
	Dichlorodifluoromethane
	Dichloromethane
	Ethylbenzene
	Hexane
	m/p-xylene
	Methyl Ethyl Ketone
	Methyl Isobutyl Ketone
	Methyl Tertbutyl Ether
	o-xylene
	Styrene
	Tetrachloroethene
	Toluene
	trans-1,2-Dichloroethene
	trans-1,3-Dichloropropene
	Trichloroethene
	Trichlorofluoromethane
	Vinyl Chloride
CAM SOP-00230	Volatile Organic Compounds (VOCs) and F1 Hydrocarbons In Solid and GC/MS/FID
	1,1,1 Trichloroethane
	1,1,1,2-Tetrachloroethane
	1,1,2,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1-Dichloroethane
	1,1-Dichloroethylene
	1,2-Dichlorobenzene
	1,2-Dichloroethane
	1,2-Dichloropropane
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	Acetone
	Benzene
	Bromodichloromethane
	Bromoform
	Bromomethane



CAM SOP-00301

Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dichlorodifluoromethane  
Ethylbenzene  
Ethylene dibromide  
F1( C6-C10)  
Hexane  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl t-butyl ether  
Methylene chloride  
m-Xylene  
o-Xylene  
p-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Determination of Semivolatle Organics (Acid / Base Neutral Extractables) in Solid And Aqueous Samples Using GC/MS operating under both the Full Scan and Selected Ion Monitoring (SIM) Modes  
1,2,4-Trichlorobenzene  
1,2-Dichlorobenzene  
1,2-Diphenylhydrazine  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
1-Methylnaphthalene  
2,3,4,5-Tetrachlorophenol  
2,3,4,6-Tetrachlorophenol  
2,3,4-Trichlorophenol  
2,3,5,6-Tetrachlorophenol  
2,3,5-Trichlorophenol  
2,3,6-Trichlorophenol  
2,3-Dichlorophenol  
2,4,5-Trichlorophenol  
2,4,6-Trichlorophenol  
2,4-Dichloro Phenol  
2,4-Dimethyl Phenol  
2,4-Dinitrophenol



2,4-Dinitrotoluene  
2,5-Dichlorophenol  
2,6-Dichlorophenol  
2,6-Dinitrotoluene  
2-Chloronaphthalene  
2-Chlorophenol  
2-Methylnaphthalene  
2-Nitrophenol  
3,3'-Dichlorobenzidine  
3,4,5-Trichlorophenol  
3,4-Dichlorophenol  
3,5-Dichlorophenol  
3-Chlorophenol  
4,6-Dinitro-O-Cresol  
4-Bromophenyl Phenyl Ether  
4-Chloroaniline  
4-Chlorophenol  
4-Chlorophenyl Phenyl Ether  
4-Nitrophenol  
Acenaphthene  
Acenaphthylene  
Amytryne  
Anthracene  
Atrazine  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo (e) pyrene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Biphenyl  
Bis (2-Chloro Ethoxy) Methane  
Bis (2-Chloro Ethyl) Ether  
Bis(2-chloro-1methylethyl) ether/ Bis (2-Chloro Isopropyl) Ether/  
2,2'-oxybis[1-chloro-propane]  
Bis (2-ethylhexyl) Phthalate  
Butyl Benzyl Phthalate  
Chrysene  
Cyanazine  
Diazinon  
Dibenzo (a,h) anthracene  
Diethyl Phthalate  
Dimethyl Phthalate  
Di-n-Butylphthalate  
Di-n-Octylphthalate  
Fluoranthene  
Fluorene  
Hexachlorobenzene  
Hexachlorobutadiene





	Hexachlorocyclopentadiene
	Hexachloroethane
	Indeno (1,2,3 - cd) pyrene
	Isophorone
	m/p-cresol
	Malathion
	Metribuzin
	Naphthalene
	Nitrobenzene
	N-Nitrosodimethylamine
	N-Nitroso-Di-N Propyl Amine
	N-Nitroso-Diphenylamine/Diphenylamine
	o-Cresol
	Parathion Ethyl
	Parathion Methyl
	P-Chloro-M-Cresol
	pentachlorobenzene
	Pentachloro-phenol
	Phenanthrene
	Phenol
	Prometon
	Prometryne
	Propazine
	Pyrene
	Quinoline
	Simazine
	Simetryn
	Terbutryn
CAM SOP-00315	Determination of CCME C6-C10 Hydrocarbons (F1) and BTEX in Soil and Water by Headspace-GC/MS/FID BTEX (Benzene, Toluene, Ethylbenzene, Xylenes) F1: C6-C10
CAM SOP-00316	The Determination of CCME Extractable Petroleum Hydrocarbons (F2-4) in Water and Soil by GC-FID F2: C10-C16 F3: C16-C34 F4: C34-C50 F4G
CAM SOP-00318	Determination Of Polynuclear Aromatic Hydrocarbons (PAHs) In Solid And Water Samples Using Selected Ion Monitoring (SIM) GCMS 1-methylnaphthalene 2-methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b,j) fluoranthene



	Benzo (e) pyrene
	Benzo (g,h,i) perylene
	Benzo (k) fluoranthene
	Biphenyl
	Chrysene
	Dibenzo (a,h) anthracene
	Fluoranthene
	Fluorene
	Indeno (1,2,3-cd) pyrene
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
CAM SOP-00320	The Determination of Nitroaromatics and Nitramines in Water and Soil Samples by HPLC
	1,3,5-Trinitrobenzene
	1,3-Dinitrobenzene
	2,4,6-Trinitrotoluene
	2,4-Dinitrotoluene
	2,6-Dinitrotoluene
	2-Amino-4,6-dinitrotoluene
	2-Nitrotoluene
	3,5-Dinitroaniline
	3-Nitrotoluene
	4-Amino-2,6-dinitrotoluene
	4-Nitrotoluene
	Hexahydro-1,3,5-trinitro-1,3,5-triazine
	Methyl-2,4,6-trinitrophenylnitramine
	Nitrobenzene
	Nitroglycerin
	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
	Pentaerythritol tetranitrite (PETN)
CAM SOP-00322	The Determination of Propylene Glycol, Ethylene Glycol and Diethylene Glycol in Liquids, Oils and solids by GC FID
	Diethylene Glycol
	Ethylene Glycol
	Propylene Glycol
CAM SOP-00323	Total Petroleum Hydrocarbons Soxhlet Extraction Method for Soil Sample
CAM SOP-00324	Oil and Grease Soxhlet Extraction Method for Soil Sample
CAM SOP-00330	Determination of Phenoxy Acid Herbicides and related compounds in Aqueous and Solid Samples Using Selected Ion Monitoring (SIM) GC/MS
	2,4,5-T
	2,4,5-TP
	2,4-D
	2,4-DB
	2,4-DP (dichlorprop)
	3,5-dichlorobenzoic acid



	Acifluorfen
	Bentazon
	Chloramben
	DCPA Diacid
	Dicamba
	Dinoseb (DNBP)
	MCPA
	MCPP
	Pentachlorophenol
	Picloram
CAM SOP-00332	Determination of Chlorinated Phenols in Soil and Water Using Selected Ion Monitoring (SIM) GC/MS
	2,3,4,5-Tetrachlorophenol
	2,3,4,6-Tetrachlorophenol
	2,3,4-Trichlorophenol
	2,3,5,6-Tetrachlorophenol
	2,3,5-Trichlorophenol
	2,3,6-Trichlorophenol
	2,3-Dichlorophenol
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	2,4-Dichlorophenol
	2,4-Dimethylphenol
	2,4-Dinitrophenol
	2,5-Dichlorophenol
	2,6-Dichlorophenol
	2-Chlorophenol
	2-Nitrophenol
	3,4,5-Trichlorophenol
	3,4-Dichlorophenol
	3,5-Dichlorophenol
	4,6-Dinitro-2-methylphenol
	4-Chloro-3-Methylphenol
	4-Chlorophenol
	4-Nitrophenol
	m/p-Cresol
	o-Cresol
	Pentachlorophenol
	Phenol
CAM SOP-00333	Determination of Selected Pesticides in Soil by LC/MS/MS
	Atrazine
	Bromacil
	Desethyl-atrazine(De-ethylated atrazine )
	Diuron
	Linuron
	Simazine
	Tebuthiuron
CAM SOP-00408	ICP OES- Metals in Air, Waters, Foods, swabs, Solids, Paint and Sludge



	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Sulphur
	Thallium
	Tin
	Titanium
	Vanadium
	Zinc
CAM SOP-00413	Measurement of pH in Water, Soils and Food Samples
CAM SOP-00414	Electrical Conductivity in Waters and Sludge, Soil Extracts
CAM SOP-00432	Ignitability of Solids
CAM SOP-00435	Anions in Soil and Water by Ion Chromatography
	Bromide
	Chloride
	Fluoride
	Nitrate
	Nitrite (NO <sub>2</sub> )
	PO <sub>4</sub>
	Sulfate
CAM SOP-00436	Hexavalent Chromium by IC in Water and Soil
CAM SOP-00440	Nitrate, Nitrite and TON in Waters, Solids, Sludge and Food by FIA
	Nitrate
	Nitrite
CAM SOP-00441	Ammonia in Waters Biosolids and Soil Samples by Colourimetry



CAM SOP-00444	Ammonia Analysis of Phenolics in Water and Soil Colorimetric Automated 4-AAP Phenolics
CAM SOP-00445	Determination of Moisture Content Solids by Gravimetry
CAM SOP-00447	ICPMS Metals in Waters, Foods, Solids, NHP and Biota Total and Dissolved Metals Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Silver Sodium Strontium Tellurium Thallium Thorium Tin Titanium Tungsten Uranium Vanadium Zinc Zirconium
CAM SOP-00451	Determination of Perchlorate in Water and Soil by LC/MS/MS
CAM SOP-00457	Analysis of Cyanide in Liquids and Solids by Colourimetry Cyanide (SAD) Free Cyanide



CAM SOP-00461	Analysis of Ortho-Phosphate in Water and Soil by Micro-Colourimetry Phosphate
CAM SOP-00467	Particle Size Distribution Sieve Analysis in Soil
CAM SOP-00468	TOC and TC in Solids by Furnace Combustion Total Carbon Total Organic Carbon
CAM SOP-00894	Determination of Perfluorinated Compounds in Water and Soil By LC-MS-MS Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA) Perfluoroheptanoic acid (PFHpA) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorodecanoic acid (PFDA) Perfluoroundecanoic acid (PFUnA) Perfluorododecanoic acid (PFDoA) Perfluorotridecanoic acid (PFTTrDA) Perfluorotetradecanoic acid (PFTeDA) Perfluorobutanesulfonic acid (PFBS) Perfluoropentanesulfonic acid (PFPeS) Perfluorohexanesulfonic acid (PFHxS) Perfluoroheptanesulfonic acid (PFHpS) Perfluorooctanesulfonic acid (PFOS) Perfluorononanesulfonic acid (PFNS) Perfluorodecanesulfonic acid (PFDS) Perfluorooctanesulfonamide (PFOSA) N-methylperfluorooctanesulfonamide (MeFOSA) N-ethylperfluorooctanesulfonamide (EtFOSA) N-methylperfluorooctanesulfonamidoethanol (MeFOSE) N-ethylperfluorooctanesulfonamidoethanol (EtFOSE) N-methylperfluorooctanesulfonamidoacetic acid (MeFOSAA) N-ethylperfluorooctanesulfonamidoacetic acid (EtFOSAA) 4:2 Fluorotelomersulfonic acid (4:2FTS) 6:2 Fluorotelomersulfonic acid (6:2FTS) 8:2 Fluorotelomersulfonic acid (8:2FTS) Hexafluoropropylene oxide dimer acid (HFPO-DA) 4,8-dioxa-3H-perfluorononanoic acid (ADONA) 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS) 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)

**(SWABS)**

CAM SOP 00734	Allergens in Foods and Swabs, Mycotoxin in Food using ELISA
CAM SOP-00309	Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD Aroclor 1016



	Aroclor 1221
	Aroclor 1232
	Aroclor 1242
	Aroclor 1248
	Aroclor 1254
	Aroclor 1260
	Aroclor 1262
	Aroclor 1268
CAM SOP-00408	ICP OES- Metals in Air, Waters, Foods, swabs, Solids, Paint and Sludge
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Selenium
	Silver
	Sodium
	Strontium
	Sulphur
	Tin
	Titanium
	Vanadium
	Zinc

**Waste**

(Leachates)

BRL SOP-00012	Nitrosamines Analysis in Water, Soil by GC Triple Quadrupole MS N-Nitrosodimethylamine (NDMA)
BRL SOP-00400	Nitrosamines Analysis in Water and Soil by HRGC HRMS N-Nitroso-di-n-butylamine



	N-Nitroso-di-n-propylamine
	N-Nitrosodiethylamine
	N-Nitrosodimethylamine
	N-Nitrosoethylmethylamine
	N-Nitrosomorpholine
	N-Nitrosopiperidine
	N-Nitrosopyrrolidine
BRL SOP-00410	Dioxin and Furans in Water, Leachates, Soil, Food and Biota by HRGC HRMS (EPA 1613)
	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran
	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin
	1,2,3,4,6,7,8-Cl7-Dibenzofuran
	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin
	1,2,3,4,7,8,9-Cl7-Dibenzofuran
	1,2,3,4,7,8-Cl6-Dibenzofuran
	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin
	1,2,3,6,7,8-Cl6-Dibenzofuran
	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin
	1,2,3,7,8,9-Cl6-Dibenzofuran
	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin
	1,2,3,7,8-Cl5-Dibenzofuran
	1,2,3,7,8-Cl5-Dibenzo-p-dioxin
	2,3,4,6,7,8-Cl6-Dibenzofuran
	2,3,4,6,7,8-Cl6-Dibenzofuran
	2,3,4,7,8-Cl5-Dibenzofuran
	2,3,7,8-Cl4-Dibenzofuran
	2,3,7,8-Cl4-Dibenzo-p-dioxin
	H6CDD
	H6CDF
	H7CDD
	H7CDF
	O8CDD
	O8CDF
	P5CDD
	P5CDF
	PCDD
	PCDF
	T4CDD
	T4CDF
CAM SOP-00226	Volatile Organic Compounds by Purge and Trap GC/MS in Water, Leachates and Soil
	1,1,1,2-Tetrachloroethane
	1,1,1-Trichloroethane
	1,1,2,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1-dichloroethane
	1,1-Dichloroethene
	1,2-Dibromoethane
	1,2-Dichlorobenzene





1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
2-Hexanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dichlorodifluoromethane  
Dichloroethane  
Ethylbenzene  
Hexane  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl Isobutyl Ketone  
Methyl Tertbutyl Ether  
o-xylene  
Styrene  
Tetrachloroethene  
Toluene  
trans-1,2-Dichloroethene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl Chloride  
Volatile Organic Compounds by Headspace GC/MS in Water,  
Leachates and Soil  
1,1,1,2-Tetrachloroethane  
1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-dichloroethane  
1,1-Dichloroethene  
1,2-Dibromoethane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene

CAM SOP-00228



CAM SOP-00301

2-Hexanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dichlorodifluoromethane  
Dichloroethane  
Ethylbenzene  
Hexane  
m/p-xylene  
Methyl Ethyl Ketone  
Methyl Isobutyl Ketone  
Methyl Tertbutyl Ether  
o-xylene  
Styrene  
Tetrachloroethene  
Toluene  
trans-1,2-Dichloroethene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane  
Determination of Semivolatile Organics (Acid / Base Neutral Extractables) in Solid And Aqueous Samples Using GC/MS operating under both the Full Scan and Selected Ion Monitoring (SIM) Modes  
Anthracene  
1,2,4-Trichlorobenzene  
1,2-Dichlorobenzene  
1,2-Diphenylhydrazine  
1,3-Dichlorobenzene  
1,4-Dichlorobenzene  
1-Methylnaphthalene  
2,3,4,5-Tetrachlorophenol  
2,3,4,6-Tetrachlorophenol  
2,3,4-Trichlorophenol  
2,3,5,6-Tetrachlorophenol  
2,3,5-Trichlorophenol  
2,3,6-Trichlorophenol  
2,3-Dichlorophenol  
2,4,5-Trichlorophenol



2,4,6-Trichlorophenol  
2,4-Dichloro Phenol  
2,4-Dimethyl Phenol  
2,4-Dinitrophenol  
2,4-Dinitrotoluene  
2,5-Dichlorophenol  
2,6-Dichlorophenol  
2,6-Dinitrotoluene  
2-Chloronaphthalene  
2-Chlorophenol  
2-Methylnaphthalene  
2-Nitrophenol  
3,3'-Dichlorobenzidine  
3,4,5-Trichlorophenol  
3,4-Dichlorophenol  
3,5-Dichlorophenol  
3-Chlorophenol  
4,6-Dinitro-O-Cresol  
4-Bromophenyl Phenyl Ether  
4-Chloroaniline  
4-Chlorophenol  
4-Chlorophenyl Phenyl Ether  
4-Nitrophenol  
Acenaphthene  
Acenaphthylene  
Amytryne  
Atrazine  
Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo (e) pyrene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Biphenyl  
Bis (2-Chloro Ethoxy) Methane  
Bis (2-Chloro Ethyl) Ether  
Bis(2-chloro-1-methylethyl) ether/ Bis (2-Chloro Isopropyl) Ether/  
2,2'-oxybis[1-chloro-propane]  
Bis (2-ethylhexyl) Phthalate  
Butyl Benzyl Phthalate  
Chrysene  
Cyanazine  
Diazinon  
Dibenzo (a,h) anthracene  
Diethyl Phthalate  
Dimethyl Phthalate  
Di-n-Butylphthalate  
Di-n-Octylphthalate  
Fluoranthene



	Fluorene
	Pentachlorobenzene
	Hexachlorobenzene
	Hexachlorobutadiene
	Hexachlorocyclopentadiene
	Hexachloroethane
	Indeno (1,2,3 - cd) pyrene
	Isophorone
	m/p-cresol
	Malathion
	Metribuzin
	Naphthalene
	Nitrobenzene
	N-Nitrosodimethylamine
	N-Nitroso-Di-N Propyl Amine
	N-Nitroso-Diphenylamine/Diphenylamine
	o-Cresol
	Parathion Ethyl
	Parathion Methyl
	P-Chloro-M-Cresol
	Pentachloro-phenol
	Phenanthrene
	Phenol
	Prometon
	Prometryne
	Propazine
	Pyrene
	Quinoline
	Simazine
	Simetryn
	Terbutryn
CAM SOP-00305	Analysis of Glyphosate in Water, Leachates and Soil by HPLC
CAM SOP-00306	Analysis of Diuron, Guthion, and Temephos in Water by HPLC
	Diuron
	Guthion (azinphos-methyl)
	Temephos
CAM SOP-00307, CAM SOP-00309	Organochlorine Pesticides and PCBs in Solids, Water and Biological Materials by GC-ECD, Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD
	1,2,3,4-Tetrachlorobenzene
	1,2,3,5-Tetrachlorobenzene
	1,2,4,5-Tetrachlorobenzene
	1,2,4-Trichlorobenzene
	1,3,5-Trichlorobenzene
	2,4,5-Trichlorotoluene
	a-BHC
	a-Chlordane
	Aldrin



	Aroclor 1016
	Aroclor 1221
	Aroclor 1232
	Aroclor 1242
	Aroclor 1248
	Aroclor 1254
	Aroclor 1260
	Aroclor 1262
	Aroclor 1268
	b-BHC
	d-BHC
	Dieldrin
	Endosulfan I
	Endosulfan II
	Endosulfan Sulfate
	Endrin
	g-Chlordane
	Heptachlor
	Heptachlor Epoxide
	Hexachlorobenzene
	Hexachlorobutadiene
	Hexachlorocyclopentadiene
	Hexachloroethane
	Lindane
	Methoxychlor
	Mirex
	o,p' DDD
	o,p' DDE
	o,p'-DDT
	Octachlorostyrene
	Oxychlordane
	p,p'-DDD
	p,p'-DDE
	p,p'-DDT
	Pentachlorobenzene
	Total PCB
CAM SOP-00315	Determination of CCME C6-C10 Hydrocarbons (F1) and BTEX in Soil and Water by Headspace-GC/MS/FID BTEX (Benzene, Toluene, Ethylbenzene, Xylenes) F1: C6-C10
CAM SOP-00316	The Determination of CCME Extractable Petroleum Hydrocarbons (F2-4) in Water and Soil by GC-FID F2: C10-C16 F3: C16-C34 F4: C34-C50 F4G
CAM SOP-00318	Determination Of Polynuclear Aromatic Hydrocarbons (PAHs) In Solid And Water Samples Using Selected Ion Monitoring (SIM) GCMS



	1-methylnaphthalene
	2-methylnaphthalene
	Acenaphthene
	Acenaphthylene
	Anthracene
	Benzo (a) anthracene
	Benzo (a) pyrene
	Benzo (b,j) fluoranthene
	Benzo (e) pyrene
	Benzo (g,h,i) perylene
	Benzo (k) fluoranthene
	Biphenyl
	Chrysene
	Dibenzo (a,h) anthracene
	Fluoranthene
	Fluorene
	Indeno (1,2,3-cd) pyrene
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
CAM SOP-00327	Analysis of Diquat and Paraquat in Water by HPLC-UV Detector Using Aqueous Ionic Mobile Phase
	Diquat
	Paraquat
CAM SOP-00411	Nitrilotriacetic Acid (NTA) in Water by UV-Vis Spectroscopy
CAM SOP-00440	Nitrate, Nitrite and TON in Waters, Solids, Sludge and Food by FIA
	Nitrate
	Nitrite
CAM SOP-00447	ICPMS Metals in Waters, Foods, Solids, NHP and Biota
	Aluminum
	Arsenic
	Barium
	Boron
	Cadmium
	Calcium
	Chromium
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Mercury
	Nickel
	Phosphorus
	Potassium
	Selenium
	Sodium



	Tin
	Titanium
	Zinc
CAM SOP-00449	Fluoride in Waters, Soil, Air and Vegetation by ISE. Fluoride
CAM SOP-00457	Analysis of Cyanide in Liquids and Solids by Colourimetry Cyanide (SAD) Free Cyanide
<b>Water (Inorganic)</b>	
CAM SOP 00463 (OSDWA)	Determination of Chloride in Water and Soil by MicroColourimetry
CAM SOP 00464 (OSDWA)	Sulphate Determination in Water and Soils by Automated Turbidimetry
CAM SOP-00326 (OSDWA)	Determination of Total Oil and Grease, Petroleum Hydrocarbons (heavy), Mineral Oil and Grease and Animal and Vegetable Oil and Grease in Water by Gravimetry Mineral, Animal and Vegetable Oil and Grease Petroleum Hydrocarbons (Heavy - F4G) Total Oil and Grease
CAM SOP-00407	Determination of Phosphorus (all forms) in Waters by Colorimetry (FIA) Hydrolysed phosphorus Ortho-phosphate (OSDWA) Total Phosphorus (OSDWA)
CAM SOP-00408	ICP OES-Metals in Air, Waters, Foods, Swabs, Solids, Paint and Sludge Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Selenium



	Silicon
	Silver
	Sodium
	Strontium
	Sulfur
	Thallium
	Tin
	Uranium
	Vanadium
	Zinc
	Zirconium
CAM SOP-00409	Colourimetric Determination of Ferrous Iron in Water
CAM SOP-00410 <b>(OSDWA)</b>	Colorimetric Determination of Tannin and Lignin in liquid samples
CAM SOP-00411 <b>(OSDWA)</b>	Nitrilotriacetic Acid (NTA) in Water by UV-Vis Spectroscopy
CAM SOP-00412 <b>(OSDWA)</b>	Spectrophotometric Determination of Colour in Water Samples
	Color
CAM SOP-00413 <b>(OSDWA)</b>	Measurement of pH in Water, Soils and Food Samples
CAM SOP-00414 <b>(OSDWA)</b>	Electrical Conductivity in Waters and Sludge, Soil Extracts
CAM SOP-00416 <b>(OSDWA)</b>	COD in Water by Colorimetry
	COD (Chemical Oxygen Demand)
CAM SOP-00417 <b>(OSDWA)</b>	Turbidity in Water by Nephelometry
	Turbidity
CAM SOP-00425	Determination of Free or Total Chlorine in Water by HACH Colorimetry Free chlorine Total chlorine
CAM SOP-00427	Determination of Biochemical Oxygen Demand in Waters by D.O. Meter BOD (5 day) <b>(OSDWA)</b> CBOD (5 day) <b>(OSDWA)</b> Dissolved Oxygen
CAM SOP-00428 <b>(OSDWA)</b>	Determination of Solids in Water, Solid and Semisolid (biosolid, sludge) Samples by Gravimetry Fixed and Volatile Solids Total Dissolved Solids Total Suspended Solids
CAM SOP-00431 <b>(OSDWA)</b>	Organic Acids in Water by Ion Chromatography
	Acetic Acid Butyric Acid Formic Acid Propionic Acid





<b>CAM SOP-00433 (OSDWA)</b>	Determination of Inorganic Carbon in Water by IR Detection  DIC - Dissolved Inorganic Carbon TIC-Total Inorganic Carbon
<b>CAM SOP-00435 (OSDWA)</b>	Anions in Soil and Water by Ion Chromatography  Bromide Chloride Sulfate
<b>CAM SOP-00436 (OSDWA)</b>	Hexavalent Chromium by IC in Water and Soil  Hexavalent Chromium (CrVI)
<b>CAM SOP-00440 (OSDWA)</b>	Nitrite, Nitrate and TON in Waters, Solids, Sludge and Food by FIA Nitrate plus Nitrite Nitrite
<b>CAM SOP-00441 (OSDWA)</b>	Ammonia in Waters Biosolids and Soil Samples by Colourimetry  Ammonia
<b>CAM SOP-00444 (OSDWA)</b>	Analysis of Phenolics in Water and Soil-Colorimetric Automated 4-AAP Total Phenolics
<b>CAM SOP-00446 (OSDWA)</b>	Organic Carbon Analysis in Waters by Combustion and IR Detection DOC – Dissolved Organic Carbon TOC – Total Organic Carbon
<b>CAM SOP-00447 (OSDWA)</b>	ICPMS Metals in Waters, Foods, Solids, NHP and Biota  Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Phosphorus Potassium



	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Tellurium
	Thallium
	Thorium
	Tin
	Titanium
	Tungsten
	Uranium
	Vanadium
	Zinc
	Zirconium
CAM SOP-00448 <b>(OSDWA)</b>	Alkalinity in Waters by PC-Titrate.
CAM SOP-00449 <b>(OSDWA)</b>	Alkalinity (pH 4.5)
CAM SOP-00451 <b>(OSDWA)</b>	Fluoride in Waters, Soil, Air and Vegetation by ISE
CAM SOP-00453 <b>(OSDWA)</b>	Determination of Perchlorate in Water and Soil by LC/MS/MS
CAM SOP-00455 <b>(OSDWA)</b>	Mercury in Liquids, Soils, Swabs, Paint, Oil, NHP and Food by CVAA.
CAM SOP-00457 <b>(OSDWA)</b>	Sulphide Determination in Water by Ion Selective Electrode
CAM SOP-00458 <b>(OSDWA)</b>	Analysis of Cyanide in Liquids and Solids by Colourimetry
	Cyanide (SAD)
	Free Cyanide
CAM SOP-00459 <b>(OSDWA)</b>	Measurement of Total Residual Chlorine in Water by Amperometric Titration
CAM SOP-00473 <b>(OSDWA)</b>	UV Transmittance (Percent T) at 254 nm in Water and Wastewater by UV-VIS Spectroscopy
CAM SOP-00476 <b>(OSDWA)</b>	% Transmittance
CAM SOP-00938 <b>(OSDWA)</b>	Analysis of Ortho-Phosphate in Water and Soil by Micro-Coulometry
	Colourimetric Determination of Thiocyanate in Liquid Samples
	Microcystins in Waters and Drinking Waters using ELISA
	Total Kjeldahl Nitrogen in Waters (TKN) from Colorimetric TN and NO <sub>2</sub> /NO <sub>3</sub>
	Total Nitrogen (TN)
	NO <sub>2</sub> /NO <sub>3</sub>
<b>Water (Microbiology)</b>	
CAM SOP-00508 <b>(OSDWA)</b>	Enumeration of Pseudomonas Aeruginosa in Water with the Membrane Filtration Technique



CAM SOP-00511	Pseudomonas Aeruginosa Enumeration of Fecal Streptococcus and Enterococcus in Water with the Membrane Filtration Technique Enterococcus
CAM SOP-00512	Fecal Streptococcus <b>(OSDWA)</b> Heterotrophic Plate Count in Water and Wastewater using the Pour Plate and Membrane Filtrations Techniques Heterotrophic Plate Count (PP) <b>(OSDWA)</b> Heterotrophic Plate Count (MF)
CAM SOP-00514 <b>(OSDWA)</b>	Detection of Coliforms, Fecal Coliforms, E.coli, in Water with the Presence/Absence Technique Escherichia coli (E. coli) Fecal Coliforms Total Coliforms
CAM SOP-00551 <b>(OSDWA)</b>	Enumeration of Coliform and E.coli in Potable Water Using Membrane Filtration and DC Agar Background Escherichia coli (E. coli) Total Coliforms
CAM SOP-00552	Enumeration of Coliform, Fecal Coliform and E.coli in Water and Environmental Samples Using Mendo, mFC-RA and mFC-BCIG Agar and of E.coli in Biosolids using mFC-BCIG Agar Background Counts Escherichia coli (E. coli) Fecal Coliforms <b>(OSDWA)</b> Total Coliforms
CAM SOP-00581	Detection of Coliforms and E.coli in Water by Presence/Absence Technique by using LMX Broth Escherichia coli (E. coli) Total Coliforms
<b>Water (Organic)</b>	
BRL SOP-00012 <b>(OSDWA)</b>	Nitrosamines Analysis in water, soil by GC/Triple Quadrupole Mass Spectrometer N-Nitrosodimethylamine N-Nitrosoethylmethylamine N-Nitrosodiethylamine N-Nitroso-di-n-propylamine N-Nitrosomorpholine N-Nitrosopyrrolidine N-Nitrosopiperidine N-Nitroso-di-n-butylamine
BRL SOP-00013 <b>(OSDWA)</b>	Determination of Geosmin and 2-MIB in Water by GC Triple Quad Mass Spectrometry (GC/MS/MS) Geosmin
BRL SOP-00014	2-Methylisoborneol (2-MIB) Determination of Organochlorine in Water and Soil



	by Gas Chromatography/Triple Quadruple Mass Spectrometry (GC/MS/MS) Hexachlorobenzene a-BHC g-BHC b-BHC heptachlor d-BHC Aldrin Oxychlorodane Heptachlor epoxide g-Chlordane op-DDE Trans-Nonachlor a-Chlordane a-Endosulfan pp-DDE Dieldrin op-DDD Endrin op-DDT cis-Nonachlor pp-DDT b-Endosulfan pp-DDD Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone Mirex
BRL SOP-00015	Determination of Toxaphene in Water and Soil by Gas Chromatography/Triple Quadruple Mass Spectrometry (GC/MS/MS) <u>Hx-Sed</u> <u>Hp-Sed</u> <u>Parlar 26</u> <u>Parlar 41</u> <u>Parlar 40</u> <u>Parlar 44</u> <u>Parlar 50</u> Parlar 62 Total Toxaphene
BRL SOP-00217 <b>(OSDWA)</b>	1,4-Dioxane in Water and Soil Using Isotope Dilution by GCMS
BRL SOP-00406	Dioxins/Furans in Water, Soil, Food and Biota by HRGC HRMS (EPA 8290A) 1,2,3,4,6,7,8,9-C18-Dibenzofuran 1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin 1,2,3,4,6,7,8-C17-Dibenzofuran



	1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin
	1,2,3,4,7,8,9-C17-Dibenzofuran
	1,2,3,4,7,8-C16-Dibenzofuran
	1,2,3,4,7,8-C16-Dibenzo-p-dioxin
	1,2,3,6,7,8-C16-Dibenzofuran
	1,2,3,6,7,8-C16-Dibenzo-p-dioxin
	1,2,3,7,8,9-C16-Dibenzofuran
	1,2,3,7,8,9-C16-Dibenzo-p-dioxin
	1,2,3,7,8-C15-Dibenzofuran
	1,2,3,7,8-C15-Dibenzo-p-dioxin
	2,3,4,6,7,8-C16-Dibenzofuran
	2,3,4,7,8-C15-Dibenzofuran
	2,3,7,8-C14-Dibenzofuran
	2,3,7,8-C14-Dibenzo-p-dioxin
	H6CDD
	H6CDF
	H7CDD
	H7CDF
	O8CDD
	O8CDF
	P5CDD
	P5CDF
	PCDD/PCDF
	T4CDD
	T4CDF
BRL SOP-00408 <b>(OSDWA)</b>	PCB Congener (209 Analytes) by HRGC HRMS in Water, Soil and Air (Modified EPA 1668A)
	209 Congeners
BRL SOP-00410	Dioxin and Furans in Water, Leachates, Soil, Food and Biota by HRGC HRMS (EPA 1613)
	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran
	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin
	1,2,3,4,6,7,8-Cl7-Dibenzofuran <b>(OSDWA)</b>
	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin <b>(OSDWA)</b>
	1,2,3,4,7,8,9-Cl7-Dibenzofuran <b>(OSDWA)</b>
	1,2,3,4,7,8-Cl6-Dibenzofuran <b>(OSDWA)</b>
	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin <b>(OSDWA)</b>
	1,2,3,6,7,8-Cl6-Dibenzofuran <b>(OSDWA)</b>
	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin <b>(OSDWA)</b>
	1,2,3,7,8,9-Cl6-Dibenzofuran <b>(OSDWA)</b>
	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin <b>(OSDWA)</b>
	1,2,3,7,8-Cl5-Dibenzofuran <b>(OSDWA)</b>
	1,2,3,7,8-Cl5-Dibenzo-p-dioxin <b>(OSDWA)</b>
	2,3,4,6,7,8-Cl6-Dibenzofuran <b>(OSDWA)</b>
	2,3,4,7,8-Cl5-Dibenzofuran <b>(OSDWA)</b>
	2,3,7,8-Cl4-Dibenzofuran <b>(OSDWA)</b>
	2,3,7,8-Cl4-Dibenzo-p-dioxin <b>(OSDWA)</b>
	H6CDD <b>(OSDWA)</b>
	H6CDF <b>(OSDWA)</b>



- H7CDD (OSDWA)
- H7CDF (OSDWA)
- O8CDD (OSDWA)
- O8CDF (OSDWA)
- P5CDD (OSDWA)
- P5CDF (OSDWA)
- PCDD (OSDWA)
- PCDF (OSDWA)
- T4CDD (OSDWA)
- T4CDF (OSDWA)
- CAM SOP 00310 (OSDWA) The Determination of Formaldehyde in Water and Soil by HPLC
- CAM SOP-00219 Analysis of Dissolved Methane and Other Gases in Water by GC/FID Headspace
  - Acetylene
  - Carbon Dioxide
  - Ethane
  - Ethylene
  - Methane (OSDWA)
  - Propane
  - Propylene
- CAM SOP-00226 Volatile Organic Compounds by Purge and Trap GC/MS in Water and Soil
  - 1- Butanol (OSDWA)
  - 1,1,1,2-Tetrachloroethane (OSDWA)
  - 1,1,1-Trichloroethane (OSDWA)
  - 1,1,2,2-Tetrachloroethane (OSDWA)
  - 1,1,2-Trichloroethane (OSDWA)
  - 1,1,2-Trichlorotrifluoroethane (OSDWA)
  - 1,1-Dichloroethane (OSDWA)
  - 1,1-dichloroethylene (OSDWA)
  - 1,2,3 – Trichlorobenzene (OSDWA)
  - 1,2,3 – Trichloropropane (OSDWA)
  - 1,2,3 – Trimethylbenzene (OSDWA)
  - 1,2,4 – Trichlorobenzene (OSDWA)
  - 1,2,4 – Trimethylbenzene (OSDWA)
  - 1,2-dichlorobenzene (OSDWA)
  - 1,2-dichloroethane (OSDWA)
  - 1,2-Dichloropropane (OSDWA)
  - 1,3,5 – Trichlorobenzene (OSDWA)
  - 1,3,5 – Trimethylbenzene (OSDWA)
  - 1,3-Dichlorobenzene (OSDWA)
  - 1,4-dichlorobenzene (OSDWA)
  - 1-Propanol (OSDWA)
  - 2-Butanol (OSDWA)
  - 2-Chloroethyl vinyl ether (OSDWA)
  - 2-Hexanone (OSDWA)
  - Acetaldehyde (OSDWA)
  - Acetone (2-Propanone) (OSDWA)
  - Acrolein (OSDWA)



Acrylonitrile (OSDWA)  
Benzene (OSDWA)  
Bromodichloromethane (OSDWA)  
Bromoform (OSDWA)  
Bromomethane (OSDWA)  
Butyl acetate (OSDWA)  
Butyl acrylate (OSDWA)  
Carbon disulfide (OSDWA)  
Carbon Tetrachloride (OSDWA)  
Chlorobenzene (OSDWA)  
Chlorodibromomethane (OSDWA)  
Chloroethane (OSDWA)  
Chloroform (OSDWA)  
Chloromethane (OSDWA)  
cis-1,2-Dichloroethylene (OSDWA)  
cis-1,3-Dichloropropene (OSDWA)  
Cyclohexane (OSDWA)  
Dichlorodifluoromethane (OSDWA)  
Dichloromethane (OSDWA)  
Dicyclopentadiene  
Diethyl ether (OSDWA)  
Diisopropyl ether (OSDWA)  
Ethanol (OSDWA)  
Ethyl acetate (OSDWA)  
Ethyl acrylate (OSDWA)  
Ethylbenzene (OSDWA)  
Ethylene dibromide (OSDWA)  
Hexane (OSDWA)  
Isobutanol (OSDWA)  
Isopropanol (OSDWA)  
Isopropyl acetate (OSDWA)  
m/p-xylene (OSDWA)  
Methyl acetate (OSDWA)  
Methyl acrylate (OSDWA)  
Methyl Ethyl Ketone (OSDWA)  
Methyl isobutyl Ketone (OSDWA)  
Methyl methacrylate (OSDWA)  
Methyl t-butyl ether (OSDWA)  
Naphthalene (OSDWA)  
o-xylene (OSDWA)  
Propyl acetate (OSDWA)  
Styrene (OSDWA)  
Tert-Butanol (OSDWA)  
Tetrachloroethylene (OSDWA)  
Tetrahydrofuran (OSDWA)  
Toluene (OSDWA)  
trans-1,2-Dichloroethylene (OSDWA)  
trans-1,3-Dichloropropene (OSDWA)  
Trichloroethylene (OSDWA)





CAM SOP-00228

Trichlorofluoromethane (**OSDWA**)  
Vinyl acetate (**OSDWA**)  
Vinyl Chloride (**OSDWA**)  
Volatile Organic Compounds by Headspace GC/MS in Water and Soil  
(Headspace Analysis)  
1- Butanol  
1,1,1,2-Tetrachloroethane (**OSDWA**)  
1,1,1-Trichloroethane (**OSDWA**)  
1,1,2,2-Tetrachloroethane (**OSDWA**)  
1,1,2-Trichloroethane (**OSDWA**)  
1,1,2-Trichlorotrifluoroethane  
1,1-Dichloroethane (**OSDWA**)  
1,1-dichloroethylene (**OSDWA**)  
1,2,3 - Trichlorobenzene  
1,2,3 - Trichloropropane  
1,2,3 - Trimethylbenzene  
1,2,4 - Trichlorobenzene  
1,2,4 - Trimethylbenzene  
1,2-dichlorobenzene (**OSDWA**)  
1,2-dichloroethane (**OSDWA**)  
1,2-Dichloropropane (**OSDWA**)  
1,3,5 - Trichlorobenzene  
1,3,5 - Trimethylbenzene  
1,3-Dichlorobenzene (**OSDWA**)  
1,4-dichlorobenzene (**OSDWA**)  
1-Propanol  
2-Butanol  
2-Chloroethyl vinyl ether  
2-Hexanone  
Acetaldehyde  
Acetone (2-Propanone) (**OSDWA**)  
Acrolein  
Acrylonitrile  
Benzene (**OSDWA**)  
Bromodichloromethane (**OSDWA**)  
Bromoform (**OSDWA**)  
Bromomethane (**OSDWA**)  
Butyl acetate  
Butyl acrylate  
Carbon disulfide  
Carbon Tetrachloride (**OSDWA**)  
Chlorobenzene (**OSDWA**)  
Chlorodibromomethane (**OSDWA**)  
Chloroethane (**OSDWA**)  
Chloroform (**OSDWA**)  
Chloromethane (**OSDWA**)  
cis-1,2-Dichloroethylene (**OSDWA**)  
cis-1,3-Dichloropropene (**OSDWA**)





Cyclohexane  
Dichlorodifluoromethane (**OSDWA**)  
Dichloromethane (**OSDWA**)  
Dicyclopentadiene  
Diethyl ether  
Diisopropyl ether  
Ethanol  
Ethyl acetate  
Ethyl acrylate  
Ethylbenzene (**OSDWA**)  
Ethylene dibromide (**OSDWA**)  
Hexane (**OSDWA**)  
Isobutanol  
Isopropanol  
Isopropyl acetate  
Isopropylbenzene  
m/p-xylene (**OSDWA**)  
Methyl acetate  
Methyl acrylate  
Methyl Ethyl Ketone (**OSDWA**)  
Methyl isobutyl Ketone (**OSDWA**)  
Methyl methacrylate  
Methyl t-butyl ether (**OSDWA**)  
Naphthalene  
o-xylene (**OSDWA**)  
Propyl acetate  
Styrene (**OSDWA**)  
Tert-Butanol  
Tetrachloroethylene (**OSDWA**)  
Tetrahydrofuran  
Toluene (**OSDWA**)  
trans-1,2-Dichloroethylene (**OSDWA**)  
trans-1,3-Dichloropropene (**OSDWA**)  
Trichloroethylene (**OSDWA**)  
Trichlorofluoromethane (**OSDWA**)  
Vinyl acetate  
Vinyl Chloride (**OSDWA**)  
Volatile Organic Compounds (VOCs) and F1 Hydrocarbons In  
Solid and Water Samples Using Headspace GC/MS/FID  
1,1,1,2-Tetrachloroethane  
1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethylene  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3-Dichlorobenzene

CAM SOP-00230



1,4-Dichlorobenzene  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dichlorodifluoromethane  
Ethylbenzene  
Ethylene dibromide  
F1( C6-C10)  
Hexane  
Methyl ethyl ketone  
Methyl isobutyl ketone  
Methyl t-butyl ether  
Methylene chloride  
m-Xylene  
o-Xylene  
p-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethylene  
Trichlorofluoromethane  
Vinyl chloride  
Ethanol  
Isopropanol  
tert-Butanol  
1-Propanol  
2-Butanol  
Isobutanol  
1-Butanol  
Acetaldehyde  
Determination of Semivolatile Organics Acid/Base Neutral  
Extractables) in Solid and Aqueous Samples Using GC/MS  
operating under both the Full Scan and Selected Ion Monitoring  
(SIM) Modes  
1,2,4-Trichlorobenzene (**OSDWA**)  
1,2-Dichlorobenzene  
1,2-Diphenylhydrazine

CAM SOP-00301



1,3-Dichlorobenzene (OSDWA)  
1,4-Dichlorobenzene  
1-Methylnaphthalene (OSDWA)  
2,3,4,5-Tetrachlorophenol (OSDWA)  
2,3,4,6-tetrachlorophenol (OSDWA)  
2,3,4-Trichlorophenol (OSDWA)  
2,3,5,6-Tetrachlorophenol (OSDWA)  
2,3,5-Trichlorophenol (OSDWA)  
2,3,6-Trichlorophenol (OSDWA)  
2,3-Dichlorophenol (OSDWA)  
2,4,5-TP (OSDWA)  
2,4,5-Trichlorophenol (OSDWA)  
2,4,5-trichlorophenoxyacetic acid (OSDWA)  
2,4,6-trichlorophenol (OSDWA)  
2,4-dichlorophenol (OSDWA)  
2,4-dichlorophenoxyacetic acid (OSDWA)  
2,4-Dimethyl Phenol (OSDWA)  
2,4-Dinitrophenol (OSDWA)  
2,4-Dinitrotoluene (OSDWA)  
2,5-Dichlorophenol (OSDWA)  
2,6-Dichlorophenol (OSDWA)  
2,6-Dinitrotoluene (OSDWA)  
2-Chloronaphthalene (OSDWA)  
2-Chlorophenol  
2-Methylnaphthalene (OSDWA)  
2-Nitrophenol (OSDWA)  
3,3'-Dichlorobenzidine (OSDWA)  
3,4,5-Trichlorophenol (OSDWA)  
3,4-Dichlorophenol (OSDWA)  
3,5-Dichlorophenol (OSDWA)  
3-Chlorophenol  
4,6-Dinitro-o-Cresol (OSDWA)  
4-Bromophenyl Phenyl Ether (OSDWA)  
4-Chloroaniline (OSDWA)  
4-Chlorophenol  
4-Chlorophenyl Phenyl Ether (OSDWA)  
4-Nitrophenol (OSDWA)  
Acenaphthene (OSDWA)  
Acenaphthylene (OSDWA)  
Alachlor (OSDWA)  
Aldicarb (OSDWA)  
Ametryn (OSDWA)  
Anthracene (OSDWA)  
Atrazine (OSDWA)  
Bendiocarb (OSDWA)  
Benzo (a) anthracene (OSDWA)  
Benzo (a) pyrene (OSDWA)  
Benzo (b/j) fluoranthene (OSDWA)  
Benzo (e) pyrene (OSDWA)



Benzo (g,h,i) perylene **(OSDWA)**  
Benzo (k) fluoranthene **(OSDWA)**  
Biphenyl **(OSDWA)**  
Bis (2-Chloro Ethoxy)Methane **(OSDWA)**  
Bis (2-Chloro Ethyl) Ether **(OSDWA)**  
Bis(2-chloro-1methylethyl) ether/ Bis (2-Chloro Isopropyl) Ether/  
2,2'-oxybis[1-chloro-propane] **(OSDWA)**  
Bis (2-ethylhexyl) Phthalate **(OSDWA)**  
Bromoxynil **(OSDWA)**  
Butyl Benzyl Phthalate **(OSDWA)**  
Carbaryl **(OSDWA)**  
Carbofuran **(OSDWA)**  
Chlordane (a,g)  
Chlorpyrifos (ethyl) **(OSDWA)**  
Chrysene **(OSDWA)**  
Cyanazine **(OSDWA)**  
Des-ethylatrazine **(OSDWA)**  
Diazinon **(OSDWA)**  
Dibenzo (a,h) anthracene **(OSDWA)**  
Dicamba **(OSDWA)**  
Diclofop-methyl (as free acid) **(OSDWA)**  
Diethyl Phthalate **(OSDWA)**  
Dimethoate **(OSDWA)**  
Dimethyl Phthalate **(OSDWA)**  
Di-n-Butylphthalate **(OSDWA)**  
Di-n-Octylphthalate **(OSDWA)**  
Dinoseb **(OSDWA)**  
Fluoranthene **(OSDWA)**  
Fluorene **(OSDWA)**  
Hexachlorobenzene **(OSDWA)**  
Hexachlorobutadiene **(OSDWA)**  
Hexachlorocyclopentadiene  
Hexachloroethane **(OSDWA)**  
Indeno (1,2,3 - cd) pyrene **(OSDWA)**  
Isophorone **(OSDWA)**  
m,p-cresol **(OSDWA)**  
Malathion **(OSDWA)**  
MCPA**(OSDWA)**  
Methoxychlor **(OSDWA)**  
Methyl Parathion **(OSDWA)**  
Metolachlor **(OSDWA)**  
Metribuzin **(OSDWA)**  
Naphthalene **(OSDWA)**  
Nitrobenzene **(OSDWA)**  
N-Nitroso-di-n-Propyl Amine **(OSDWA)**  
N-Nitroso-Diphenylamine/Diphenylamine **(OSDWA)**  
o-Cresol **(OSDWA)**  
Oxychlordane  
p,p'-DDD



	p,p'-DDE
	Parathion (ethyl) <b>(OSDWA)</b>
	p-chloro-m-cresol <b>(OSDWA)</b>
	Pentachlorobenzene
	Pentachlorophenol <b>(OSDWA)</b>
	Phenanthrene <b>(OSDWA)</b>
	Phenol <b>(OSDWA)</b>
	Phorate <b>(OSDWA)</b>
	Picloram <b>(OSDWA)</b>
	Prometon <b>(OSDWA)</b>
	Prometryne <b>(OSDWA)</b>
	Propazine <b>(OSDWA)</b>
	Pyrene <b>(OSDWA)</b>
	Quinolone
	Simazine <b>(OSDWA)</b>
	Simetryn <b>(OSDWA)</b>
	Terbufos <b>(OSDWA)</b>
	Terbutryn <b>(OSDWA)</b>
	Triallate <b>(OSDWA)</b>
	Trifluralin <b>(OSDWA)</b>
CAM SOP-00305 <b>(OSDWA)</b>	Analysis of Glyphosate in Water and Soil by HPLC
CAM SOP-00306 <b>(OSDWA)</b>	Analysis of Diuron, Guthion, and Temephos in Water by HPLC
	Diuron
	Guthion (azinphos-methyl)
	Temephos
CAM SOP-00307, CAM SOP-00317, CAM SOP- 00309	Organochlorine Pesticides and PCBs in Solids, Water and Biological Materials by GC-ECD, Polychlorinated Biphenyls (PCBs) as Aroclors in Solid, Water, and Biological Samples by GC-ECD, and Neutral Chlorinated Hydrocarbons in Solid and Water by GC/ECD
	1,2,3,4-tetrachlorobenzene <b>(OSDWA)</b>
	1,2,3,5-Tetrachlorobenzene <b>(OSDWA)</b>
	1,2,3-Trichlorobenzene <b>(OSDWA)</b>
	1,2,4,5-Tetrachlorobenzene <b>(OSDWA)</b>
	1,2,4-Trichlorobenzene <b>(OSDWA)</b>
	1,3,5-Trichlorobenzene <b>(OSDWA)</b>
	2,4,5-Trichlorotoluene <b>(OSDWA)</b>
	A – BHC <b>(OSDWA)</b>
	a – Chlordane <b>(OSDWA)</b>
	Aldrin <b>(OSDWA)</b>
	Aroclor 1262 <b>(OSDWA)</b>
	Aroclor-1016 <b>(OSDWA)</b>
	Aroclor-1221 <b>(OSDWA)</b>
	Aroclor-1232 <b>(OSDWA)</b>
	Aroclor-1242 <b>(OSDWA)</b>
	Aroclor-1248 <b>(OSDWA)</b>
	Aroclor-1254 <b>(OSDWA)</b>



	Aroclor-1260 (OSDWA)
	Aroclor-1268 (OSDWA)
	b-BHC (OSDWA)
	d-BHC (OSDWA)
	Dieldrin (OSDWA)
	Endosulfan I (OSDWA)
	Endosulfan II (OSDWA)
	Endosulfan Sulfate (OSDWA)
	Endrin (OSDWA)
	Endrin Aldehyde (OSDWA)
	Endrin Ketone (OSDWA)
	g – Chlordane (OSDWA)
	Heptachlor (OSDWA)
	Heptachlor Epoxide (OSDWA)
	Hexachlorobenzene (OSDWA)
	Hexachlorobutadiene (OSDWA)
	Hexachlorocyclopentadiene (OSDWA)
	Hexachloroethane (OSDWA)
	Lindane (gamma-BHC) (OSDWA)
	Methoxychlor (OSDWA)
	Mirex (OSDWA)
	O,p'-DDD (OSDWA)
	O,p'-DDE (OSDWA)
	O,p'-DDT (OSDWA)
	Octachlorostyrene (OSDWA)
	Oxychlordane (OSDWA)
	p,p' – DDT (OSDWA)
	p,p' Methoxychlor (OSDWA)
	p,p'-DDD (OSDWA)
	p,p'-DDE (OSDWA)
	Pentachlorobenzene (OSDWA)
	Total PCBs(OSDWA)
	Toxaphene
CAM SOP-00313	Analysis of Nonylphenols and Nonylphenol Ethoxylates in Water by HPLC
	Total Nonylphenol
	Total Nonylphenol Ethoxylates
CAM SOP-00315 (OSDWA)	Determination of CCME C6-C10 Hydrocarbons (F1) and BTEX in Soil and Water by Headspace GC/MS/FID
	Benzene
	Ethylbenzene
	F1: C6-C10
	m/p-xylene
	o-xylene
	Toluene
CAM SOP-00316 (OSDWA)	Determination of CCME Extractable Petroleum Hydrocarbons (F2-4) in Water and Soil by GC/FID
	F2: C10-C16
	F3: C16-C34



CAM SOP-00318	F4: C34-C50 Determination Of Polynuclear Aromatic Hydrocarbons (PAHs) In Solid And Water Samples Using Selected Ion Monitoring (SIM) GCMS 1-methylnaphthalene 2-methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b,j) fluoranthene Benzo (e) pyrene Benzo (g,h,i) perylene Benzo (k) fluoranthene Biphenyl Chrysene Dibenzo (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Perylene Phenanthrene Pyrene
CAM SOP-00320 (OSDWA)	The Determination of Nitroaromatics and Nitramines in Water and Soil Samples by HPLC 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 2,4,6-Trinitrotoluene 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene 2-Nitrotoluene 3,5-Dinitroaniline 3-Nitrotoluene 4-Amino-2,6-dinitrotoluene 4-Nitrotoluene Hexahydro-1,3,5-trinitro-1,3,5-triazine Methyl-2,4,6-trinitrophenylnitramine Nitrobenzene Nitroglycerin Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine Pentaerythritol tetranitrite (PETN)
CAM SOP-00322 (OSDWA)	The Determination of Propylene Glycol, Ethylene Glycol and Diethylene Glycol in Liquids, Oils and solids by GC/FID Diethylene glycol Ethylene glycol Propylene glycol



CAM SOP-00327 (OSDWA)	Analysis of Diquat and Paraquat in Water by HPLC-UV Detector Using Aqueous Ionic Mobile Phase Diquat Paraquat
CAM SOP-00330	Determination of Phenoxy Acid Herbicides and related compounds in Aqueous and Solid Samples Using Selected Ion Monitoring (SIM) GC/MS 2,4,5-T 2,4,5-TP 2,4-D 2,4-DB 2,4-DP (dichlorprop) 3,5-dichlorobenzoic acid Acifluorfen Bentazon Chloramben DCPA Diacid Dicamba Dinoseb (DNBP) MCPA MCPP Pentachlorophenol Picloram
CAM SOP-00332	Determination of Chlorinated Phenols in Soil and Water Using Selected Ion Monitoring (SIM) GC/MS 2,3,4,5-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,4-Trichlorophenol 2,3,5,6-Tetrachlorophenol 2,3,5-Trichlorophenol 2,3,6-Trichlorophenol 2,3-Dichlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,5-Dichlorophenol 2,6-Dichlorophenol 2-Chlorophenol 2-Nitrophenol 3,4,5-Trichlorophenol 3,4-Dichlorophenol 3,5-Dichlorophenol 4,6-Dinitro-2-methylphenol 4-Chloro-3-Methylphenol 4-Chlorophenol 4-Nitrophenol m/p-Cresol





	o-Cresol
	Pentachlorophenol
	Phenol
CAM SOP-00435	Anions in Soil and Water by Ion Chromatography
	Bromide
	Chloride
	Fluoride
	Nitrate
	Nitrite (NO <sub>2</sub> )
	PO <sub>4</sub>
	Sulfate
CAM SOP-00883	Determination of Morpholine in Water Using LC/MS/MS
CAM SOP-00894 (OSDWA)	Determination of Perfluorinated Compounds in Water and Soil By LC-MS-MS
	Perfluorobutanoic acid (PFBA)
	Perfluoropentanoic acid (PFPeA)
	Perfluorohexanoic acid (PFHxA)
	Perfluoroheptanoic acid (PFHpA)
	Perfluorooctanoic acid (PFOA)
	Perfluorononanoic acid (PFNA)
	Perfluorodecanoic acid (PFDA)
	Perfluoroundecanoic acid (PFUnA)
	Perfluorododecanoic acid (PFDoA)
	Perfluorotridecanoic acid (PFTrDA)
	Perfluorotetradecanoic acid (PFTeDA)
	Perfluorobutanesulfonic acid (PFBS)
	Perfluoropentanesulfonic acid (PFPeS)
	Perfluorohexanesulfonic acid (PFHxS)
	Perfluoroheptanesulfonic acid (PFHpS)
	Perfluorooctanesulfonic acid (PFOS)
	Perfluorononanesulfonic acid (PFNS)
	Perfluorodecanesulfonic acid (PFDS)
	Perfluorooctanesulfonamide (PFOSA)
	N-methylperfluorooctanesulfonamide (MeFOSA)
	N-ethylperfluorooctanesulfonamide (EtFOSA)
	N-methylperfluorooctanesulfonamidoethanol (MeFOSE)
	N-ethylperfluorooctanesulfonamidoethanol (EtFOSE)
	N-methylperfluorooctanesulfonamidoacetic acid (MeFOSAA)
	N-ethylperfluorooctanesulfonamidoacetic acid (EtFOSAA)
	4:2 Fluorotelomersulfonic acid (4:2FTS)
	6:2 Fluorotelomersulfonic acid (6:2FTS)
	8:2 Fluorotelomersulfonic acid (8:2FTS)
	Hexafluoropropylene oxide dimer acid (HFPO-DA)
	4,8-dioxa-3H-perfluorononanoic acid (ADONA)
	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)
	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
CAM SOP-00954 (OSDWA)	Determination of Haloacetic Acids and Dalapon in Water by GC-ECD



Monochloroacetic acid (MCAA)  
Monobromoacetic Acid (MBAA)  
Dichloroacetic Acid (DCAA)  
Dalapon  
Trichloroacetic Acid (TCAA)  
Bromochloroacetic Acid (BCAA)  
Dibromoacetic Acid (DBAA)

### **Occupational Health and Safety:**

#### **Air Monitoring**

**(Compressed Breathing Air Systems - Z180.1-00, Z180.1-13, Z275.1-16, Z275.2-15)**

**(Medical Gases - CAN/CSA Z10083-08, CAN/CSA Z7396.1-06, Z7396.1-09, Z7396.1-12, Z7396.1-17)**

CAM SOP-00200	Analysis of Oxygen, Nitrogen, Carbon Dioxide, Carbon Monoxide and Methane in Compressed Breathing and Medical Gases
CAM SOP-00201	Analysis of Halogenated Hydrocarbon Compounds in Compressed Breathing Gases
CAM SOP-00202	Total Non-methane Hydrocarbons in Compressed Breathing and Medical Gases
CAM SOP-00203	Analysis of Nitrous Oxide in Compressed Breathing and Medical Gases
CAM SOP-00204	C2-C4 Hydrocarbons in Compressed Breathing and Medical Gases
CAM SOP-00205	Analysis of Water, Water Vapour and Odour in Compressed Breathing and Medical Gases
CAM SOP-00206	Determining Oil Particulates and Condensates in Compressed Breathing Gases
CAM SOP-00209	Analysis of Percent Level Carbon Dioxide in Medical Gases
CAM SOP-00210	Analysis of Oxygen by Paramagnetic Analyser in Compressed Breathing Gases
CAM SOP-00216	Analysis of Percent Level Medical Nitrous oxide
CAM SOP-00221	Analysis of Nitrogen Oxides (NOx) in Gases
CAM SOP-00223	Analysis of Percent Level Helium in Compressed Breathing Gases
CAM SOP-00225	Percent Level Gas Analyses in Gas Samples Oxygen Nitrogen Carbon dioxide Carbon monoxide methane

### **METALLIC ORES AND PRODUCTS**

#### **Concentrates, Metallic Liquors and Other Process Products:**

Refer to major sub-heading: **Mineral Analysis Testing**



**Mineral Analysis Testing**

**(Ores and Rocks: Mineral Assaying Soil/Sediment Precious Metals)**

BQL SOP-00001	NEUTRON ACTIVATION Long Lived Isotopes which may include: Antimony Arsenic Barium Cerium Cesium Chromium Cobalt Europium Gold Hafnium Iron Lanthanum Lutetium Molybdenum Neodymium Nickel Rubidium Samarium Scandium Selenium Silver Sodium Tantalum Terbium Thorium Titanium Tungsten Uranium Ytterbium Zinc Zirconium
BQL SOP-00002	NEUTRON ACTIVATION Platinum Group Elements with Nickel-Sulphide Fire Assay Pre-Concentration which may include Os Ir Pd Pt Rh Ru
BQL SOP-00004	NEUTRON ACTIVATION Short-Lived Elements which may include:



	Aluminum
	Barium
	Bromine
	Calcium
	Chlorine
	Dysprosium
	Europium
	Fluorine
	Indium
	Iodine
	Magnesium
	Manganese
	Potassium
	Samarium
	Sodium
	Strontium
	Titanium
	Vanadium
BQL SOP-00005	DELAYED NEUTRON COUNTING for Uranium and U-235
BQL SOP-00007	GAMMA SPECTROMETRY in SOLIDS Natural Decay Chain Isotopes which may include: Th-234, Th-230, Ra-414, Pb-210, U-235, Th-227, Ra-223, Ac-228, Ra-228, Pb-212, Rn-222, Pb-214, Bi-214 Synthetic Isotopes which may include Cs-137, Cs-134, I-131, Zn-65, Co-60, Mn-54

## **NON-METALLIC MINERALS AND PRODUCTS**

### **Petroleum Refinery Products: (Including asphalt materials; petrochemicals; fuels and lubricants)**

#### **Fuels and Lubricants**

ASTM D0092	Flash and Fire Points by Cleveland Open Cup Tester (SLA SOP 00010)
ASTM D0093	Flash Point by Pensky-Martens Closed Cup Tester (SLA SOP-00029)
ASTM D0130	Corrosiveness to Copper from Petroleum Products by Copper Strip Test (SLA SOP-00031)
ASTM D0445	Kinematic Viscosity of Transparent and Opaque Liquids (SLA SOP 00028)
ASTM D0482	Ash from Petroleum Products (SLA SOP-00117)
ASTM D0524	Ramsbottom Carbon Residue Of Petroleum Products (SLA SOP-00113)
ASTM D0611	Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents (SLA SOP-00023)



ASTM D0664	Acid Number of Petroleum Products by Potentiometric Titration (SLA SOP-00054)
ASTM D0721	Oil Content of Petroleum Waxes (SLA SOP-00034)
ASTM D0874	Sulfated Ash from Lubricating Oils and Additives (SLA SOP-00013)
ASTM D0892 (IP146 Alternative)	Foaming Characteristics of Lubricating Oils (SLA SOP-00012)
ASTM D0974	Acid and Base Number by Color Indicator Titration (SLA SOP-00017)
ASTM D1298	Standard Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method (SLA SOP-00056)
ASTM D1401	Water Separability of Petroleum Oils and Synthetic Fluids (SLA SOP-00018)
ASTM D1500	ASTM Color of Petroleum Products (ASTM Color Scale) (SLA SOP-00063)
ASTM D1796	Water and Sediment in Fuel Oils by the Centrifuge Method (SLA SOP 00001)
ASTM D2896	Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration (Procedure B) (SLA SOP00005)
ASTM D2983	Low-Temperature Viscosity of Lubricants Measured by Brookfield Viscometer (SLA SOP 00024)
ASTM D4052	Density and Relative Density of Liquids by Digital Density Meter (SLA SOP-00019)
ASTM D4294	Sulphur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry (SLA SOP-00026)
ASTM D4629	Trace Nitrogen in Liquid Petroleum Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection (SLA SOP-00115)
ASTM D4951	Determination of Additive Elements in Lubricating Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (SLA SOP-00111)
ASTM D5185	Determination of Additive Elements, Wear Metals, and Contaminants in used Lubricating Oils and Determination of Selected Elements in Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (SLA SOP-00114)
ASTM D5293	Apparent Viscosity of Engine Oils and Base Stocks Between -5° and -35° C by Using the Auto Cold- Cranking Simulator (SLA SOP-00057)
ASTM D5453	Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Oil, Diesel Engine Oil, and Engine Oil by Ultraviolet Fluorescence (SLA SOP-00106)
ASTM D5771	Cloud Point of Petroleum Products (Optical Detection Stepped Cooling Method) (SLA SOP-00119)
ASTM D5950	Pour Point of Petroleum Products (Automatic Tilt Method)(SLA SOP-00030)
ASTM D6304	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fisher Titration (SLA SOP-00112)



Number of Scope Listings: 337

**Notes:**

**ISO/IEC 17025:2017:** General Requirements for the Competence of Testing and Calibration Laboratories

**RG-TMD NRT:** SCC Requirements and Guidance for Accreditation of Laboratories Engaged in Test Method Development and Non-Routine Testing

**APHA:** American Public Health Association – Standard Methods for the Examination of Water and Wastewater

**"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)

**ASTM:** American Society for Testing and Materials

**SLA SOP:** Subject Laboratory In-House Test Method

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