

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

*La présente portée d'accréditation existe également en français et est publiée séparément.*

**Legal Name of Accredited Laboratory:** AGAT Laboratories Ltd.

Location Name or Operating as (if applicable): AGAT Environmental, Calgary

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<b>SCC File Number:</b>	151336
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Environmental Testing (ET)
<b>Initial Accreditation:</b>	2024-12-03
<b>Most Recent Accreditation:</b>	2025-04-10
<b>Accreditation Valid to:</b>	2028-12-03

**ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

**Environmental:**

**Air**

TO-4006	<p>Volatile Organic Compounds (VOC) - Air [Soil Vapour] by GC/MS Thermal Desorption            Modified BC MOE LABORATORY MANUAL SECTION H            Modified EPA TO-17</p> <p>1,1,1,2-Tetrachloroethane            1,1,1-Trichloroethane            1,1,2,2-Tetrachloroethane            1,1,2-Trichloroethane            1,1-Dichloroethane            1,1-Dichloroethene (1,1-Dichloroethylene)            1,1-Dichloropropene            1,2,3-Trichlorobenzene            1,2,3-Trichloropropane            1,2,4-Trichlorobenzene            1,2,4-Trimethylbenzene            1,2:3,4-Diepoxybutane            1,2-Dibromo-3-chloropropane (DBCP)            1,2-Dibromoethane (Ethylene dibromide)            1,2-Dichlorobenzene            1,2-Dichloroethane            1,2-Dichloroethene            1,2-Dichloropropane            1,3,5-Trimethylbenzene            1,3-Butadiene            1,3-Dichlorobenzene            1,3-Dichloropropane            1,4-Dichlorobenzene            1-Chlorobutane            1-Chlorohexane            2,2-Dichloropropane            2-Butanone (Methyl ethyl ketone, MEK)            2-Chlorotoluene            2-Nitropropane            4-Chlorotoluene (p-Chlorotoluene)            4-Isopropyltoluene (p-Cymene)            4-Methyl-2-pentanone (MIBK)            Acetone (2-Propanone)            Acetonitrile            Acrylonitrile            Allyl chloride (3-chloropropene)            Benzene            Benzyl chloride (o-Chlorotoluene)            Bromobenzene            Bromochloromethane            Bromoform</p>
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	<p>           Bromomethane            Butylbenzene (n-Butylbenzene)            Carbon disulfide            Carbon tetrachloride            Chlorobenzene            Chlorodibromomethane            Chloroethane (Ethyl chloride)            Chloroform            Chloromethane (Methyl chloride)            cis-1,3-Dichloropropene            cis-1,4-Dichloro-2-butene            Decane (n-Decane)            Dibromofluoromethane            Dibromomethane            Dichlorodifluoromethane (CFC-12, Freon 12)            Dichloromethane            Dodecane (n-Dodecane)            Epichlorohydrin            Ethyl acetate            Ethyl ether            Ethyl methacrylate (Ethyl-2-Methyl-2-Propenoate)            Ethylbenzene            Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)            Hexachloroethane            Hexane (n-Hexane)            Isobutanol (2-Methyl-1-propanol)            Isopropylbenzene (Cumene)            m,p-Xylene            Methacrylonitrile            Methyl acrylate            Methyl methacrylate            Methyl tert-butyl ether (MTBE)            Methylcyclohexane            Naphthalene            Nitrobenzene            n-Propylbenzene            n-Tridecane            o-Xylene            p-Dioxane            Pentachloroethane            Pentafluorobenzene            Propionitrile            Pyridine            sec-Butylbenzene ((1-Methylpropyl)benzene)            Styrene            tert-Butylbenzene            Tetrachloroethene            Toluene            trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)            trans-1,3-Dichloropropene            trans-1,4-Dichloro-2-butene            Trichloroethene         </p>
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	Trichlorofluoromethane Vinyl chloride Volatile Hydrocarbons (VH): C6-C13
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**Leachate/Waste**

TO-0050	BTEX in Solids by GC/MS PURGE AND TRAP – Leachate (EPA 1311, 8260D) Modified EPA 5030B Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene
TO-0050	BTEX in Solids by GC/MS HEADSPACE – Leachate (EPA 1311, 8260D) Modified EPA 5021A Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene
INST-0140, SOIL-0420, INST-0142	Metals in Waste by ICP/OES – Leachate in-house / Modified SM 3120B Antimony Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Uranium Vanadium Zinc Zirconium
INST-0140, SOIL-0650, INST-0142	Metals in Waste by ICP/OES – Modified SWEP Extraction Modified SCHED 4, BC HAZARDOUS WASTE REGULATIONS Modified SM 3120 B Arsenic Barium Boron Cadmium Chromium Copper Lead

	<p>Mercury Selenium Silver Uranium Zinc</p>
INST-0150, SOIL-0650	<p>Anions in Waste by Ion Chromatography (IC) – Modified SWEP Extraction Modified SCHED 4, BC HAZARDOUS WASTE REGULATIONS Modified SM 4110B Fluoride Nitrate (NO3) Nitrite (NO2)</p>
INST-0310, SOIL-0650	<p>Cyanide in Waste by Colourimetry – Modified SWEP Extraction Modified SCHED 4, BC HAZARDOUS WASTE REGULATIONS Cyanide</p>
SOIL-0580	<p>Free Liquid - Waste – Visual (Paint Filter) Modified EPA 9095 Free Liquids</p>
TO-3500	<p>Oil and Grease – Special Waste Oil and Grease (SWOG) by Gravimetric (in-house) Total Oil and Grease</p>
TO-4008	<p>Solvent Scan – Leachate by GC/FID EPA 5021 EPA 8015C 2-Butanone (Methyl ethyl ketone, MEK) 2-Nitropropane Acetone (2-Propanone) Benzene Carbon disulfide Cyclohexanone Ethyl acetate Ethyl ether Ethylbenzene m,p-Xylene Methyl isobutyl ketone (MIBK) Nitrobenzene o-Xylene Toluene Xylenes</p>

### Oil

TO-0420	<p>Polychlorinated Biphenyls (PCB) – Oil by GC/ECD Modified AEC M106.0 Modified ASTM D4059-00 Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262</p>
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	Aroclor 1268 Total PCB
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**Sediments, Soils (Inorganic)**

<p>INST-0140, SOIL-390, INST-0142</p>	<p>Metals in Solids by ICP/OES Modified BC MOE LABORATORY MANUAL SECTION C Modified EPA 3050B Modified SM 3120</p> <ul style="list-style-type: none"> <li>Aluminum</li> <li>Antimony</li> <li>Arsenic</li> <li>Barium</li> <li>Beryllium</li> <li>Bismuth</li> <li>Boron</li> <li>Cadmium</li> <li>Calcium</li> <li>Chromium</li> <li>Cobalt</li> <li>Copper</li> <li>Iron</li> <li>Lead</li> <li>Lithium</li> <li>Magnesium</li> <li>Manganese</li> <li>Mercury</li> <li>Molybdenum</li> <li>Nickel</li> <li>Phosphorus</li> <li>Potassium</li> <li>Selenium</li> <li>Silicon</li> <li>Silver</li> <li>Sodium</li> <li>Strontium</li> <li>Sulphur (Sulfur)</li> <li>Thallium</li> <li>Tin</li> <li>Titanium</li> <li>Tungsten</li> <li>Uranium</li> <li>Vanadium</li> <li>Zinc</li> <li>Zirconium</li> </ul>
<p>INST-0141, SOIL-390, INST-0143</p>	<p>Metals in Solids by ICP/MS Modified BC MOE LABORATORY MANUAL SECTION C Modified EPA 3050B Modified SM 3125</p>

	<p>Aluminum          Antimony          Arsenic          Barium          Beryllium          Bismuth          Boron          Cadmium          Calcium          Cesium          Chromium          Cobalt          Copper          Gallium          Iron          Lanthanum          Lead          Lithium          Magnesium          Manganese          Mercury          Molybdenum          Nickel          Phosphorus          Potassium          Rubidium          Selenium          Silicon          Silver          Sodium          Strontium          Sulphur (Sulfur)          Tellurium          Thallium          Thorium          Tin          Titanium          Tungsten          Uranium          Vanadium          Zinc          Zirconium</p>
<p>INST-0140,          SOIL-0140,          INST-0142</p>	<p>Soluble Cations in Solids by ICP/OES          Modified SM 3120 B          Modified SOIL SAMPLING &amp; METHODS OF ANALYSIS CHAPTER 15          Boron          Calcium          Magnesium</p>

	Potassium Sodium Sulphur (Sulfur)
INST-0140, SOIL-0610, INST-0142	Extractable Barium in Solids by ICP/OES Modified ALBERTA ENVIRONMENT SOIL QUALITY GUIDELINES Modified BC MOE LABORATORY MANUAL METHOD 9 Modified SM 3120 B Extractable Barium (0.1M CaCl <sub>2</sub> ) Extractable Barium (1.0M CaCl <sub>2</sub> )
INST-0140, SOIL-0620, INST-0142	Total Barium in Solids by ICP/OES (Fusion) Modified ASTM D4503 Modified SM 3120 B Total Barium
INST-0140, SOIL-0131, SOIL-0132, INST-0142	Available Nutrients in Solids by ICP/OES (SM 3120 B) (Modified Recommend Methods for Soil Analysis, Alberta Agriculture (RMSA) Potassium Sulphur (Sulfur)
SOIL-0130, INST-0530	Available Nutrients in Solids by Automated Colourimetry (Modified EPA 600/R-93/100) RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA AGRICULTURE (RMSA) Phosphate
TO-3502	Sulphur in Solids by HPLC (in-house) Elemental Sulphur (Elemental Sulfur)
SOIL-0500, INST-0520	Total Kjeldahl Nitrogen (TKN) in Solids (Modified EPA 351.2) Kjeldahl Nitrogen
INST-0150, SOIL-140	Anions in Solids by Ion Chromatography (IC) – Saturated Paste Modified SM 4110 B Chloride Nitrate-N Nitrite (NO <sub>2</sub> ) Sulphate
INST-0500	Chloride in Solids by Automated Colourimetry Modified SM 4500-CL- E Chloride
INST-0150, SOIL-0630	Available Nitrate and Nitrite in Solids by Ion Chromatography (IC) Modified SM 4110 B SOIL SAMPLING & METHOD OF ANALYSIS, CHAPTER 15, SECTION 15.2.1 Available Nitrate
INOR-401-0120, INST-0104, SOIL-0110, SOIL-0140	pH in Solids by pH Meter – Saturated Paste Modified METHODS OF SOIL ANALYSIS 15.2 Modified SM 4500-H+ pH (saturated paste)
INOR-401-0120, INST-0104, SOIL-0110, SOIL-0260	pH in Solids by pH Meter Modified METHODS OF SOIL ANALYSIS 15.2 Modified SM 4500-H+ pH (1:1) soil:water pH (1:2) soil:CaCl <sub>2</sub> pH (1:2) soil:water
SOIL-0260, INOR-401-0120,	pH in Solids by pH Meter by Auto Titration SM 4500-H+ SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2ND EDITION



SOIL-0110, INST-0101	pH (1:1) soil:water pH (1:2) soil:CaCl <sub>2</sub> pH (1:2) soil:water
INOR-401-0120, SOIL-0480, SOIL-110	Organic Carbon in Solids by Spectrophotometer Modified METHODS OF SOIL ANALYSIS (2ND ED., 1982) Modified MSA PART 3 CH. 34 Organic Carbon Organic Matter
SOIL-0470	Organic Matter in Solids by Gravimetric Modified SSSA LOSS ON IGNITION METHOD, 1996 Organic Matter
INOR-401-0120, INST-0340, SOIL-0110, SOIL-0630	Ammonia in Solids by Colourimetry Modified SM 4500-NH <sub>3</sub> G SOIL SAMPLING & METHODS OF ANALYSIS, CARTER Ammonia-N
SOIL-0520	Particle Size Analysis (PSA) in Solids by 2 Point Hydrometer Modified JONES J. 2001 LAB GUIDE FOR CONDUCTING SOIL TEST & PLANT ANALYSIS Percent Clay Percent Sand Percent Silt
SOIL-0540	Particle Size Analysis (PSA) in Solids by Gravimetric Modified SHELDRIK, B.H. & WANG, C, CARTER MO ED. 2007 Particle Size
INST-0140, SOIL-0270, INST-0142	Hot Water Extractable Boron in Solids by ICP-OES Modified SM 3120 B Modified SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008 Boron
INST-0120, SOIL-0140, SOIL-0260	Conductivity in Solids by Conductivity Meter - Manual Modified METHODS OF SOIL ANALYSIS 15.2 Modified SM 2510 B Conductivity (1:2 soil:water) Conductivity (saturated paste)
INST-0101, SOIL-0140	Conductivity in Solids by Conductivity Meter – Auto Modified METHODS OF SOIL ANALYSIS 15.2 Modified SM 2510 Conductivity (1:2 soil:water) Conductivity (saturated paste)
SOIL-0600	Hexavalent Chromium in Solids by Spectrophotometer Modified SSSA PART 3 CH 25 Hexavalent Chromium
SOIL-0140	Percent Saturation in Solids by Gravimetric Modified CURTIN, MILLER, SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2007 Percent Saturation
SOIL-0220	Bulk Density in Solids by Gravimetric Modified BLAKE, G.R., MSA BULK DENSITY, 1986 Bulk Density
SOIL-0230	Specific Gravity in Solids Procedure for Using the Baroid Mud Balance Specific Gravity

SOIL-0310	Moisture in Solids by Gravimetric Modified SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008 Percent Moisture
SOIL-0655	Atterberg Plasticity Index in Solids – Liquid Limit Device Modified ASTM D4318-10E1 Liquid Limit Plastic Limit Plasticity Index
SOIL-0660	Hydraulic Conductivity in Solids - Falling Head Modified SOIL SCIENCE SOCIETY OF AMERICA Hydraulic Conductivity
INST-0300	Phenols in Solids by Automated Colourimetry Modified EPA 420.2 Modified EPA 600/4-79/20 Total Phenolics

### Sediments, Soils (Organic)

TO-1200	Phenols in Solids by HPLC/UV Modified EPA 8321B 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 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,6-Dichlorophenol 2-Chlorophenol 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC) 2-Nitrophenol 3,4,5-Trichlorophenol 3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol) 4-Chloro-3-methylphenol Dinoseb Pentachlorophenol Phenol
TO-0210	Polycyclic Aromatic Hydrocarbons (PAH) in Solids by GC/MS Modified EPA 3540C, EPA 3570, EPA 8270E 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acridine Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene

	<p>Benzo(e)pyrene          Benzo(g,h,i)perylene          Benzo(k)fluoranthene          Chrysene          Dibenzo(a,h)anthracene          Fluoranthene          Fluorene          Indeno(1,2,3 - cd)pyrene          Naphthalene          Perylene          Phenanthrene          Pyrene          Quinoline</p>
TO-0570	<p>Total Purgeable Hydrocarbons (TPH) in Solids by GC/FID          Modified BC MOE LABORATORY MANUAL          Modified CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD          Total Purgable Hydrocarbons (TPgH): (C5-C10)          VH: C6-C10</p>
TO-0510	<p>Total Extractable Hydrocarbons (TEH) in Solids by GC/FID          Modified AEC V92-M2          Modified BC MOE CONTAMINATED SITES REGULATION (CSR)          Modified EPA 8015D          Extractable Petroleum Hydrocarbons (EPH): C10-C19          Extractable Petroleum Hydrocarbons (EPH): C19-C32          SASK (C11-C22)          SASK (C23-C60)          Total Extractable Hydrocarbons (TEH): C10-C32</p>
TO-0410	<p>Polychlorinated Biphenyls (PCB) in Solids by GC/ECD          Modified AEC G106.0          Modified EPA 8082          Aroclor 1016          Aroclor 1221          Aroclor 1232          Aroclor 1242          Aroclor 1248          Aroclor 1254          Aroclor 1260          Aroclor 1262          Aroclor 1268 Total PCB</p>
TO-0330	<p>Volatile Organic Compounds (VOC) in Solids by GC/MS-PURGE AND TRAP          Modified EPA 5030C          Modified EPA 8260D          1,1,1,2-Tetrachloroethane          1,1,1-Trichloroethane          1,1,2,2-Tetrachloroethane          1,1,2-Trichloroethane          1,1-Dichloroethane          1,1-Dichloroethylene          1,2,4-Trichlorobenzene          1,2,4-Trimethylbenzene          1,2-Dichlorobenzene</p>

	<p> 1,2-Dichloroethane  1,2-Dichloropropane  1,3,5-Trimethylbenzene  1,3-Butadiene  1,3-Dichlorobenzene  1,4-Dichlorobenzene  2-Hexanone (Methyl butyl ketone, MBK)  Acetone (2-Propanone)  Benzene  Bromodichloromethane  Bromoform  Bromomethane  Butylbenzene (n-Butylbenzene)  Carbon tetrachloride  Chlorobenzene  Chlorodibromomethane  Chloroethane (Ethyl chloride)  Chloroethene (Vinyl chloride)  Chloroform  Chloromethane (Methyl chloride)  cis-1,2-Dichloroethylene  cis-1,3-Dichloropropene  Cyclohexene  Decane  Dichloromethane  Dicyclopentadiene  Ethylbenzene  Ethylene Dibromide  Hexane (n-Hexane)  Isopropylbenzene (Cumene)  m,p-Xylene  Methyl ethyl ketone  Methyl isobutyl ketone (MIBK)  Methyl t-butyl ether  Naphthalene  Nonane  n-Propylbenzene  o-Xylene  sec-Butylbenzene (1-Methylpropyl)benzene)  Styrene  tert-Butylbenzene  Tetrachloroethylene  Toluene  trans-1,2-Dichloroethylene  trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)  trans-1,3-Dichloropropene  Trichloroethylene  Trichlorofluoromethane </p>
TO-0570	Petroleum Hydrocarbons (PHC) in Solids by GC/MS-PURGE AND TRAP CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD F1: C6-C10
TO-0560	Petroleum Hydrocarbons (PHC) in Solids by GC/FID Cold Shake Extraction

	CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD F2: C10-C16 F3: C16-C34 F4: C34-C50
TO-0560	Petroleum Hydrocarbons (PHC) in Solids by Gravimetric CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD F4: Gravimetric
TO-0543	Petroleum Hydrocarbons (PHC) in Solids by GC/MS-HEADSPACE CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD F1: C6-C10
TO-0543	Total Purgeable Hydrocarbons (TPH) in Solids by GC/FID-HEADSPACE CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD Modified BC MOE LABORATORY MANUAL Total Purgable Hydrocarbons (TPgH): (C5-C10) VH: C6-C10
TO-0332	Volatile Organic Compounds (VOC) in Solids by GC/MS-HEADSPACE Modified EPA 5021A Modified EPA 8260D 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Hexanone (Methyl butyl ketone, MBK) Acetone (2-Propanone) Benzene Bromodichloromethane Bromoform Bromomethane Butylbenzene (n-Butylbenzene) Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane (Ethyl chloride) Chloroethene (Vinyl chloride) Chloroform Chloromethane (Methyl chloride) cis-1,2-Dichloroethylene cis-1,3-Dichloropropene Cyclohexene Decane Dichloromethane Dicyclopentadiene

	<p>Ethylbenzene  Ethylene Dibromide  Hexane (n-Hexane)  Isopropylbenzene (Cumene)  m,p-Xylene  Methyl ethyl ketone  Methyl isobutyl ketone (MIBK)  Methyl t-butyl ether  Naphthalene  Nonane  n-Propylbenzene  o-Xylene  sec-Butylbenzene ((1-Methylpropyl)benzene)  Styrene  tert-Butylbenzene  Tetrachloroethylene  Toluene  trans-1,2-Dichloroethylene  trans-1,3-Dichloropropene  Trichloroethylene  Trichlorofluoromethane</p>
TO-1410	<p>Glycols in Solids by GC/FID (EPA 8015D)  Diethylene glycol  Ethylene glycol  Propylene glycol  Tetraethylene glycol  Triethylene glycol</p>
TO-1420	<p>Alcohols in Solids by GC/FID  Modified EPA 5021, EPA 8015C  1-Butanol (n-Butanol)  1-Propanol (Propanol)  2-Butanol (sec-Butanol)  2-Methyl-1-propanol (Isobutanol)  Allyl alcohol  Ethanol  Methanol  Pentanol  tert-Butanol (2-Methyl-2-propanol)</p>
TO-1320	<p>Glyphosate in Solids by HPLC (in-house)  Glyphosate</p>
TO-2200	<p>Oil and Grease in Solids by FTIR  Modified SM 5220 C  Total Oil and Grease</p>
TO-2210	<p>Flashpoint in Solids by Pensky-Martens Closed Cup  Modified ASTM D93-02A  Flashpoint</p>
TO-1315	<p>Sterilant Herbicides in Solids by HPLC (in-house)  Atrazine  Bromacil  Diuron (DCPMU)  Linuron</p>

	Simazine Tebuthiuron
TO-2240	Ethanolamines in Solids by HPLC (in-house) Diethanolamine (DEA) Diisopropanolamine (DIPA) Monoethanolamine (MEA) Monoisopropanolamine (MIPA)
TO-3501	Sulfolane in Solids by GC/MS (in-house) Sulfolane
TO-4008	Solvent Scan – Solids (Soil) by GC/FID EPA 5021 EPA 8015C 2-Butanone (Methyl ethyl ketone, MEK) 2-Nitropropane Acetone (2-Propanone) Benzene Carbon disulfide Cyclohexanone Ethyl acetate Ethyl ether Ethylbenzene m,p-Xylene Methyl isobutyl ketone (MIBK) Nitrobenzene o-Xylene Toluene Xylenes

### Water Quality (Inorganics)

INST-0100	Alkalinity in Water by Manual Titration Modified SM 2320 B Alkalinity (pH 4.5)
INST-0101	Alkalinity in Water by Auto Titration Modified SM 2320 B Alkalinity (pH 4.5)
INST-0104	pH – Water by pH Meter – Manual Modified SM 4500-H+ B pH
INST-0101	pH – Water by pH Meter by Auto Titration Modified SM 4500-H+ pH
INST-0150, WATR-0200	Anions in Water by Ion Chromatography (IC) Modified SM 4110 B Bromate (BrO <sub>3</sub> ) Bromide Chlorate Chloride Chlorite Fluoride Iodide

	Nitrate Nitrite Sulfate
INST-0120	Conductivity in Water by Conductivity Meter – Manual Modified SM 2510 B Conductivity (25°C)
INST-0101	Conductivity in Water by Conductivity Meter – Auto Modified SM 2510 Conductivity (25°C)
INST-0140, WATR-0200, INST-0142	Dissolved Metals in Water by ICP/OES in-house / modified SM 3120 B 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 (Sulfur) Thallium Tin Titanium Tungsten Uranium Vanadium Zinc Zirconium
INST-0141, WATR-0200, INST-0143	Dissolved Metals in Water by ICP/MS Modified SM 3125 Aluminum Antimony Arsenic Barium Beryllium



	<p>Bismuth                  Boron                  Cadmium                  Calcium                  Cesium                  Chromium                  Cobalt                  Copper                  Gallium                  Iron                  Lanthanum                  Lead                  Lithium                  Magnesium                  Manganese                  Mercury                  Molybdenum                  Nickel                  Phosphorus                  Potassium                  Rhenium                  Rubidium                  Selenium                  Silicon                  Silver                  Sodium                  Strontium                  Sulphur (Sulfur)                  Tellurium                  Thorium                  Tin                  Titanium                  Uranium                  Vanadium                  Zinc                  Zirconium</p>
<p>INST-0140,                  WATR-0200,                  INST-0142</p>	<p>Total Metals in Water by ICP/OES                  Modified SM 3120                  Antimony                  Arsenic                  Barium                  Beryllium                  Bismuth                  Boron                  Cadmium                  Calcium                  Chromium                  Cobalt                  Copper                  Iron                  Lead                  Lithium</p>

	<p>Magnesium  Manganese  Molybdenum  Nickel  Phosphorus  Potassium  Selenium  Silicon  Silver  Sodium  Strontium  Sulphur (Sulfur)  Thallium  Tin  Titanium  Tungsten  Uranium  Vanadium  Zinc  Zirconium</p>
<p>INST-0141,  WATR-0200,  INST-0143</p>	<p>Total Metals in Water by ICP/MS  Modified SM 3125  Aluminum  Antimony  Arsenic  Barium  Beryllium  Bismuth  Boron  Cadmium  Calcium  Cesium  Chromium  Cobalt  Copper  Gallium  Iron  Lanthanium  Lead  Lithium  Magnesium  Manganese  Mercury  Molybdenum  Nickel  Phosphorus  Potassium  Rhenium  Rubidium  Selenium  Silicon  Silver</p>

	<p>Sodium Strontium Sulphur (Sulfur) Tellurium Thallium Thorium Tin Titanium Tungsten Uranium Vanadium Zinc Zirconium</p>
INST-0163	<p>Total and Dissolved Mercury in Water by Cold Vapour Atomic Fluorescence Spectroscopy (CVAFS) EPA 1631 Dissolved Mercury Total Mercury</p>
INST-0520	<p>Total Kjeldahl Nitrogen (TKN) and Dissolved Kjeldahl Nitrogen (DKN) in Water by Automated Colourimetry Modified EPA 351.2 Dissolved Kjeldahl Nitrogen Total Kjeldahl Nitrogen</p>
INST-0170	<p>Total and Dissolved Nitrogen in Water by Combustion/Chemiluminescence SM 4500-N E Dissolved Nitrogen Total Nitrogen</p>
MIC-1500	<p>Biochemical Oxygen Demand (BOD) in Water by Dissolved Oxygen Meter (DO) Modified SM 4500-O C Modified SM 5210 B BOD (5 day) CBOD (5 day)</p>
WATR-0600, WATR-0610	<p>Solids in Water by Gravimetric Modified SM 2540 C SM 2540 D Total Dissolved Solids Total Suspended Solids</p>
TOX-0100	<p>Microtox in Water by Bioluminescence Modified EPS 1/RM/24 Microtox IC50 (15 min)</p>
INST-0280	<p>Chemical Oxygen Demand (COD) in Water by Spectrophotometry Modified EPA 410.4 COD</p>
INST-0170	<p>Carbon in Water by Infrared Spectroscopy (IR) Combustion Modified SM 5310 B Inorganic Carbon Organic Carbon</p>
INST-0340	<p>Ammonia in Water by Automated Colourimetry Modified SM 4500-P F Ammonia</p>
INST-0530	<p>Phosphate in Water by Automated Colourimetry</p>

	SM 4500-P F Phosphate
INST-0530	Phosphorus in Water by Automated Colourimetry SM 4500-P F Total Dissolved Phosphorus Total Phosphorus
WATR-0100	Sulphide in Water by Automated Colourimetry Modified SM 4500-S2- D Sulphide
WATR-0500	Turbidity in Water – Nephelometric Modified SM 2130 B Turbidity
INST-0300	Phenols in Water by Automated Colourimetry Modified EPA 420.2 Total Phenolics
WATR-0300	Total Hexavalent Chromium in Water by Colourimetry Modified SM 3500-CR Hexavalent Chromium
WATR-0700	Residual Chlorine in Water by Iodometric Titration SM 4500-CL Total Residual Chlorine
WATR-0710	Colour in Water by Colorimetric-UV/Visible SM 2120 C Apparent Colour True Colour

### Water Quality (Organics)

TO-0200	Polycyclic Aromatic Hydrocarbons (PAH) in Water by GC/MS Modified EPA 3510B, EPA 3511, EPA 8270E 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acridine Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(e)pyrene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenzo(a,h) anthracene Fluoranthene Fluorene Indeno(1,2,3 – cd) pyrene Naphthalene Perylene Phenanthrene Pyrene
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	Quinoline
TO-0540	Total Purgeable Hydrocarbons (TPH) in Water by GC/FID-Purge And Trap Modified BC MOE Laboratory Manual Modified EPA 5030C Modified EPA EPA 8260D F1: C6-C10 Total Purgable Hydrocarbons (TPgH): (C5-C10) VH: C6-C10
TO-0542	Total Purgeable Hydrocarbons (TPH) in Water by GC/FID-Headspace Modified BC MOE Laboratory Manual Modified EPA 5021A Modified EPA 8260D F1: C6-C10 Total Purgable Hydrocarbons (TPgH): (C5-C10) VH: C6-C10
TO-0511	Total Extractable Hydrocarbons (TEH) in Water by GC/FID Modified AEC V92-M2 Modified BC MOE Contaminated Sites Regulation (CSR) Modified EPA 3510 Extractable Petroleum Hydrocarbons (EPH): C10-C19 Extractable Petroleum Hydrocarbons (EPH): C19-C32 F2: C10-C16 F3: C16-C34 F4: C34-C50 Hydrocarbons: C10-C32 SASK (C11-C22) SASK (C23-C60)
TO-0330	Volatile Organic Compounds (VOC) in Water by GC/MS-Purge And Trap Modified EPA 5030C Modified EPA 8260D 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Hexanone (Methyl butyl ketone, MBK) Acetone (2-Propanone) Benzene Bromodichloromethane Bromoform Bromomethane

	<p>Butylbenzene (n-Butylbenzene)  Carbon tetrachloride  Chlorobenzene  Chlorodibromomethane  Chloroethane (Ethyl chloride)  Chloroform  Chloromethane (Methyl chloride)  cis-1,2-Dichloroethylene  cis-1,3-Dichloropropene  Cyclohexene  Decane  Dibromochloromethane  Dichloromethane  Dicyclopentadiene  Ethylbenzene  Ethylene Dibromide  Hexane (n-Hexane)  Isopropylbenzene (Cumene)  m,p-Xylene  Methyl ethyl ketone  Methyl isobutyl ketone (MIBK)  Methyl tert-butyl ether (MTBE)  Naphthalene  Nonane  n-Propylbenzene  o-Xylene  sec-Butylbenzene ((1-Methylpropyl)benzene)  Styrene  tert-Butylbenzene  Tetrachloroethylene  Toluene  trans-1,2-Dichloroethylene  trans-1,3-Dichloropropene  Trichloroethene  Trichloroethylene  Trichlorofluoromethane  Vinyl chloride</p>
TO-0332	<p>Volatile Organic Compounds (VOC) in Water by GC/MS-Headspace  Modified EPA 5021A  Modified EPA 8260D  1,1,1-Trichloroethane  1,1,2-Trichloroethane  1,1-Dichloroethane  1,1-Dichloroethylene  1,2,4-Trichlorobenzene  1,2-Dichlorobenzene  1,2-Dichloroethane  1,2-Dichloropropane  1,3,5-Trimethylbenzene  1,3-Butadiene  1,3-Dichlorobenzene  1,4-Dichlorobenzene</p>

	<p>2-Hexanone (Methyl butyl ketone, MBK)          Acetone (2-Propanone)          Benzene          Bromodichloromethane          Bromoform          Bromomethane          Butylbenzene (n-Butylbenzene)          Carbon tetrachloride          Chlorobenzene          Chlorodibromomethane          Chloroethane (Ethyl chloride)          Chloroform          Chloromethane (Methyl chloride)          cis-1,2-Dichloroethylene          cis-1,3-Dichloropropene          Cyclohexene          Decane          Dichloromethane          Dicyclopentadiene          Ethylbenzene          Ethylene Dibromide          Hexane (n-Hexane)          Isopropylbenzene (Cumene)          m,p-Xylene          Methyl ethyl ketone          Methyl isobutyl ketone (MIBK)          Methyl tert-butyl ether (MTBE)          Naphthalene          Nonane          n-Propylbenzene          o-Xylene          sec-Butylbenzene ((1-Methylpropyl)benzene)          Styrene          tert-Butylbenzene          Tetrachloroethylene          Toluene          trans-1,2-Dichloroethylene          trans-1,3-Dichloropropene          Trichloroethylene          Trichlorofluoromethane          Vinyl chloride</p>
TO-0400	<p>Polychlorinated Biphenyls (PCB) in Water by GC/ECD          Modified EPA 8082          Aroclor 1016          Aroclor 1221          Aroclor 1232          Aroclor 1242          Aroclor 1248          Aroclor 1254          Aroclor 1260          Aroclor 1262          Aroclor 1268</p>

	Total PCB
TO-1410	Glycols in Water by GC/FID Modified EPA 8015D Diethylene glycol Ethylene glycol Propylene glycol Tetraethylene glycol Triethylene glycol
TO-1420	Alcohols in Water by GC/FID Modified EPA 5021 EPA 8015C 1-Butanol (n-Butanol) 1-Propanol (Propanol) 2-Butanol (sec-Butanol) 2-Methyl-1-propanol (Isobutanol) 2-Propanol (Isopropyl alcohol) Allyl alcohol Ethanol Methanol Pentanol tert-Butanol (2-Methyl-2-propanol)
TO-1320	Glyphosate in Water by HPLC (in-house) Glyphosate
TO-1315	Sterilant Herbicides in Water by HPLC (in-house) Atrazine Bromacil Diuron Linuron Simazine Tebuthiuron
TO-1200	Phenols in Water by HPLC/UV (in-house) 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 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,6-Dichlorophenol 2-Chlorophenol 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC) 2-Methylphenol (o-Cresol) 2-Nitrophenol 3,4,5-Trichlorophenol 3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol) 4-Chloro-3-methylphenol 4-Nitrophenol Dinoseb



	Pentachlorophenol Phenol
TO-2240	Ethanolamines in Water by HPLC (in-house) Diethanolamine (DEA) Diisopropanolamine (DIPA) Monoethanolamine (MEA) Monoisopropanolamine (MIPA)
TO-2230	Volatile Organic Acids in Water by Ion Chromatography (IC) (In-house) Acetic acid Butyric acid Caproic Acid (Hexanoic Acid) Formic acid Isobutyric acid Isovaleric acid Propionic acid Valeric acid
TO-2220	Naphthenic Acids in Water by FTIR (in-house) Naphthenic Acids
TO-2200	Oil and Grease in Water by FTIR Modified SM 5220 C Total Oil and Grease
TO-3501	Sulfolane in Water by GC/MS (in-house) Sulfolane
TO-4008	Solvent Scan – Water by GC/FID EPA 5021 EPA 8015C 2-Butanone (Methyl ethyl ketone, MEK) 2-Nitropropane Acetone (2-Propanone) Benzene Carbon disulfide Cyclohexanone Ethyl acetate Ethyl ether Ethylbenzene m,p-Xylene Methyl isobutyl ketone (MIBK) Nitrobenzene o-Xylene Toluene Xylenes

### Water (Microbiology)

MIC-0205	Coliforms in Water by QUANTI-TRAY (COLILERT) (SM 9223) Escherichia coli Fecal (Thermotolerant) Coliforms Total Coliforms
MIC-0300	Heterotrophic Plate Count (HPC) in Water - SPREAD PLATE (Modified SM 9215 C) Heterotrophic Plate Count (HPC)

Number of Scope Listings: 114

**Notes:**

**ASTM:** ASTM International, formerly called American Society for Testing and Materials.

**EPA:** Environmental Protection Agency.

**SM:** Standard Methods for Examination of Water and Wastewater, American Public Health Association (APHA).

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Publication on: 2025-04-10