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Commercial Environmental Lab

Matrix: **Aqueous**

Oxygen Demand assays (BOD or cBOD)

- Biochemical Oxygen Demand (BOD)
- Carbonaceous Oxygen Demand (cBOD)

Colorimetric or Nephelometric (turbidimetric)

- Ammonia as N
- Chemical Oxygen Demand
- Chromium (Hexavalent)
- Cyanide, Amenable
- Cyanide, Total
- Kjeldahl Nitrogen, Total
- Nitrate + Nitrite
- Phenolics, Total
- Phosphorus, Total

Combustion or Oxidation

- Organic Carbon, Total (TOC)

Gravimetric Assays - Residue (solids)

- Residue, Filterable (TDS)
- Residue, Nonfilterable (TSS)
- Residue, Total
- Residue, Volatile (TVS)
- Residue, Volatile, Nonfilterable (TVSS)

Ion Chromatography (IC)

- Bromide
- Chloride
- Fluoride
- Nitrate
- Nitrate + Nitrite
- Nitrite
- Sulfate

Titrimetric or Potentiometric Titration Assays

- Acidity as CaCO₃
- Alkalinity
- Sulfide
- Sulfides, Acid-Soluble and Acid-Insoluble

Cold Vapor Atomic Absorption or Hydride

Spectrometry

- Mercury

Inductively Coupled Plasma Emission Spectrometry (ICP)

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Boron
- Cadmium
- Calcium
- Chromium (Total)
- Cobalt
- Copper
- Hardness, Total as CaCO₃
- Iron
- Lead
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Potassium
- Selenium
- Silver
- Sodium

- Strontium
- Thallium
- Tin
- Titanium
- Vanadium
- Zinc

Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Cobalt
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Molybdenum
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Vanadium
- Zinc

Ultra-Low Level Metals Assays

- Mercury

Gas Chromatography (GC)

- * PCB as AROCLORS ANALYTE GROUP
- * PESTICIDES, ORGANOCHLORINE ANALYTE GROUP
- * VOC ANALYTE GROUP
- Diesel Range Organics (DRO)
- Gasoline Range Organics (GRO)
- Petroleum Volatile Organic Compounds (PVOC)

Gas Chromatography-Mass Spectrometry (GC/MS)

- * BNA ANALYTE GROUP
- * VOC ANALYTE GROUP
- Petroleum Volatile Organic Compounds (PVOC)

Matrix: **Drinking Water**

Primary Inorganic Contaminants (Non-Metals)

- Nitrate - EPA 300.0
- Nitrate + Nitrite - EPA 300.0
- Nitrite - EPA 300.0

Matrix: **Solid**

Colorimetric or Nephelometric (turbidimetric)

- Ammonia as N
- Cyanide, Amenable
- Cyanide, Total
- Kjeldahl Nitrogen, Total
- Nitrate + Nitrite
- Phenolics, Total

- Phosphorus, Total

Combustion or Oxidation

- Organic Carbon, Total (TOC)

Gravimetric Assays - Residue (solids)

- Residue, Total

Ion Chromatography (IC)

- Bromide
- Chloride
- Fluoride
- Nitrate
- Nitrate + Nitrite
- Nitrite
- Sulfate

Titrimetric or Potentiometric Titration Assays

- Sulfide
- Sulfides, Acid-Soluble and Acid-Insoluble

Cold Vapor Atomic Absorption or Hydride Spectrometry

- Mercury

Inductively Coupled Plasma Emission Spectrometry (ICP)

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Boron
- Cadmium
- Calcium
- Chromium (Total)
- Cobalt
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Strontium
- Thallium
- Tin
- Titanium
- Vanadium
- Zinc

Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Cobalt
- Copper
- Iron
- Lead
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- * BNA ANALYTE GROUP
- * VOC ANALYTE GROUP
- Petroleum Volatile Organic Compounds (PVOC)

Waste Characterization Extractions

- SPLP Extraction
- TCLP Extraction

Waste Characterization Assays

- Ignitability, Pensky-Martens Closed Cup