

Commercial Testing Laboratory Inc (CTL)

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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
- Chloride
- Cyanide, Amenable
- Cyanide, Total
- Kjeldahl Nitrogen, Total
- Nitrate
- Nitrate + Nitrite
- Nitrite
- Orthophosphate
- Phosphorus, Total
- Sulfate

Electrometric Assays (probe, ISE)

- Fluoride

Gravimetric Assays - Residue (solids)

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

Gravimetric Assays - Hexane Extractable Materials

(HEM)

- Oil&Grease, Hexane Ext. Material

Titrimetric or Potentiometric Titration Assays

- Ammonia as N
- Kjeldahl Nitrogen, Total

Cold Vapor Atomic Absorption or Hydride

Spectrometry

- Mercury

Graphite Furnace Atomic Absorption Spectrometry

- Antimony
- Arsenic
- Cadmium
- Chromium (Total)
- Copper
- Lead
- Selenium
- Silver
- Thallium

Inductively Coupled Plasma Emission Spectrometry

(ICP)

- Aluminum
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Cobalt
- Copper
- Hardness, Total as CaCO₃
- Iron
- Lead
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Potassium

- Silica
- Silver
- Sodium
- Vanadium
- Zinc

Matrix: *Drinking Water*

Primary Inorganic Contaminants (Non-Metals)

- Cyanide - Std Methods 4500-CN- C,E (18,19, or 20)
- Fluoride - Std Methods 4500F- C (18,19, or 20)
- Nitrate - EPA 353.2
- Nitrate + Nitrite - EPA 353.2
- Nitrite - EPA 353.2

Primary Inorganic Contaminants (Metals)

- Antimony - EPA 200.9
- Arsenic - EPA 200.9
- Barium - EPA 200.7
- Beryllium - EPA 200.7
- Cadmium - EPA 200.9
- Chromium - EPA 200.7
- Copper - EPA 200.7
- Lead - EPA 200.9
- Mercury - EPA 245.2
- Nickel - EPA 200.7
- Selenium - EPA 200.9
- Thallium - EPA 200.9

Secondary Contaminants (Metals)

- Sodium - EPA 200.7

Matrix: *Solid*

Gravimetric Assays - Residue (solids)

- Residue, Total

Titrimetric or Potentiometric Titration Assays

- Ammonia as N
- Kjeldahl Nitrogen, Total

Cold Vapor Atomic Absorption or Hydride

Spectrometry

- Mercury

Graphite Furnace Atomic Absorption Spectrometry

- Arsenic
- Selenium

Inductively Coupled Plasma Emission Spectrometry

(ICP)

- Cadmium
- Calcium
- Chromium (Total)
- Copper
- Lead
- Magnesium
- Molybdenum
- Nickel
- Phosphorus, Total
- Potassium
- Silver
- Sodium
- Zinc