



6450 York Street • Denver, Colorado 80229-7499
(303) 286-3000 • Telefax (303) 286-3030

Analytical Services

Analytical Services

If you are a municipality or governmental agency and require analytical work on biosolids, plants, soils, and/or water and wastewater you may want to consider the Metro District's Laboratory Services.

In addition, we are one of only a few labs in the state who perform Whole Effluent Toxicity (W.E.T) testing on a regular basis. We culture our own ceriodaphnia in-house and use Fat Head Minnows for Chronic and Acute testing. Our Laboratory consists of 43 personnel who perform over 170,000 analyses per year, not only for the Metro District but other governmental agencies and municipalities. Analytical data is analyzed by approved EPA methods provided in 40 CFR Part 136 or for Solid Wastes use approved methods in SW-846.

The following is a list of analytical services we currently provide. Costs for running these analyses are based on the Laboratory Services Price List.

Analytical Services Provided by the Metro District Laboratory

Water and Wastewater

- Alkalinity
- Ammonia
- Biological - Biomonitoring
 - Acute 48-Hr Toxicity (Ceriodaphnia)
 - Acute 96 Hr Toxicity (Fathead Minnow)
 - Chronic 7-Day Toxicity (Fathead Minnow)
 - Chronic Toxicity (Ceriodaphnia)
- Biochemical Oxygen Demand (BOD)
- Chemical Oxygen Demand (Modified-No Mercury)
- Chloride & Chlorine
- Conductivity
- Cyanide (Amenable, Total, and Weak Acid Dissociable)
- Dissolved Oxygen



W.E.T. Test

Water and Wastewater (Continued)

- Flash Point
- Fluoride (Distillation)
- Freon Extractable (See Oil & Grease)
- Gas Chromatography
 - Acetate
 - Diazinon
 - Glycol (Ethylene & Propylene)
 - Pesticides (Method 608)
 - Polychlorinated Biphenyl (PCB)
- Gas Chromatography/Mass Spectrometry
 - Aromatic Organics
 - Combined Base Neutral & Acid Extracts (Method 625)
 - Hydrocarbon Petroleum (Diesel and Gasoline Range)
 - TCDD Scan
 - Total Toxic Organics
 - Volatile Organics
- Hardness
- Hydrogen Sulfide (Manual, Hach & Jerome)
- Metals
 - Soluble
 - Potentially Dissolved
 - Total
 - Total Recoverable
 - Mercury
- Microbiological
 - Escherichia coli (E-Coli)
 - Fecal Coliform (MF & MPN)
 - Fecal Streptococcus

Water and Wastewater (Continued)

- Salmonellae (Qualitative & Quantitative)
- Total Coliform (MF & MPN)
- Nitrates and Nitrites
- Oil and Grease, Hexane
- pH
- Phenol
- Phosphate (Ortho & Total, High and Low-Level)
- Solids (Dissolved and Settleable)
- Solids, Suspended (Total & Volatile)
- Sulfate
- Sulfite
- Temperature
- Total Organic Carbon
- Total Kjeldahl Nitrogen
- Turbidity
- Viscosity

Biosolids

- Alkalinity
- Ammonia
- Conductivity
- Density
- Gas Chromatography
 - Digester Gas Composition
 - Digester Gas & H₂S
 - Polychlorinated Biphenyl (PCB)
 - Pesticides & PCB (Method 608)
 - Total Petroleum Hydrocarbons
- Gas Chromatography/Mass Spectrometry
 - Aromatic Organics
 - Combined Base Neutral & Acid Extracts
 - Hydrocarbon, Petroleum (Diesel & Gasoline Range)
 - TCDD Scan
 - Total Toxic Organics
 - Volatile Organics
- Metals
 - Total
(Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Ni,Pb,Se,Tl,Zn)
- Nitrates & Nitrites
- Organic Matter
- pH
- Phosphorus (Total & Extractable)
- Sludge Volume Index
- Sludge Screening (per 503 Regs)
- Solids (Total & Volatile)
- Total Kjeldahl Nitrogen
- Total Volatile Acids

Plant Tissue

- Metals, Total
- Nitrate
- Phosphate, Total
- Total Kjeldahl Nitrogen

Soils

- Alkalinity
- Ammonia
- Conductivity
- Density
- Gas Chromatography
 - Digester Gas Composition
 - Digester Gas & H₂S
 - Polychlorinated Biphenyl (PCB)
 - Pesticides & PCB (Method 608)
 - Total Petroleum Hydrocarbons
- Gas Chromatography/Mass Spectrometry
 - Aromatic Organics
 - Combined Base Neutral & Acid Extracts
 - Hydrocarbon, Petroleum (Diesel & Gasoline Range)
 - TCDD Scan
 - Total Toxic Organics
 - Volatile Organics
- Metals
 - Total
(Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Ni,Pb,Se,Tl,Zn)
- Nitrates & Nitrites
- Organic Matter
- pH
- Phosphorus (Total & Extractable)
- Sludge Volume Index
- Sludge Screening (per 503 Regs)
- Solids (Total & Volatile)
- Total Kjeldahl Nitrogen

For more information on the above analytical services please contact the Lab Services Coordinator Gayle Webb at (303) 286-3000. Other services are provided, but are subject to quote.