



Texas Research Institute for Environmental Studies (TRIES)
 Analytical Laboratory
 Sam Houston State University
 2424 Sam Houston Ave B8/ Box 2506
 Huntsville, Texas 77340
 Phone: (936)294-3979



Laboratory Services Price List

Soil/ Solids Tests

Test parameter	Price
Ag Soil Basic (<i>pH, conductance, nitrate-N, plant available phosphorus, potassium, calcium, magnesium, sodium, sulfur, Lime, Buffer pH, Recommendations</i>)	\$15.00
Ag Soil Comprehensive (<i>pH, conductance, nitrate-N, plant available phosphorus, potassium, calcium, magnesium, sodium, sulfur, copper, iron, manganese, zinc, boron, Lime, Buffer pH, Recommendations</i>)	\$20.00
Water saturated metals (<i>calcium, magnesium, sodium, SAR</i>)	\$34.00
Ammonia-Nitrogen	\$25.00
Anion Scan (<i>fluoride, chloride, nitrite-N, bromide, nitrate-N, o-phosphate-P, sulfate</i>)	\$150.00
Anion individual (<i>fluoride, chloride, nitrite-N, bromide, nitrate-N, o-phosphate-P, sulfate</i>)	\$21.50
Anions-individual (<i>Bromate, Chlorate, Chlorite, Iodide</i>)	\$35.00
Ash (<i>Loss on Ignition</i>)	\$30.00
Atterberg Limits (<i>plastic limit and 1-point liquid limit</i>)	\$40.00
Atterberg Limits (<i>plastic limit and 3-point liquid limit</i>)	\$85.00
Bulk Density	\$10.00
Calcium Carbonate Equivalency (CCE)	\$30.00
Cation Exchange Capacity (CEC)	\$25.00
Chemical Oxygen Demand (COD)	\$25.00
Chloride, Titrimetric	\$45.00
Cyanide, Total and Amenable	\$40.00
Deleterious Matter	\$10.00
Elemental analysis scan (<i>Total Nitrogen, Carbon, Hydrogen, Sulfur</i>)	\$90.00
Elemental analysis individual (<i>Total Nitrogen, Carbon, Hydrogen, Sulfur, Oxygen</i>)	\$45.00
Gypsum percentage	\$35.00
Hexane Extractable Material (HEM)-Oil & Grease	\$50.00
Hexavalent Chromium	\$20.00
ICP metals scan (<i>all available metals</i>)	\$250.00
ICP metals (ea)	\$15.00
Mercury	\$25.00
Organic Matter	\$20.00
Oxidation-Reduction Potential (ORP)	\$15.00



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Particle Size Distribution (sieve)	\$65.00
pH	\$5.00
Plasticity Index	\$30.00
Priority Pollutant List (PPL) metals (<i>antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, zinc, mercury</i>)	\$140.00
Proctor Compaction	\$100.00
RCRA metals (<i>arsenic, barium, cadmium, chromium, lead, selenium, silver, mercury</i>)	\$95.00
Salinity	\$20.00
Specific Conductance	\$15.00
Sulfide	\$25.00
Sulfite	\$35.00
Target Analyte List (TAL) metals (<i>aluminum, antimony, arsenic, barium, beryllium, calcium, cadmium, cobalt, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, silver, sodium, thallium, vanadium, zinc, mercury</i>)	\$200.00
TCEQ Appendix B Soil Testing (set of 2)	\$250.00
Texture (%Sand, Silt, Clay)	\$30.00
Total Solids (TS)/ moisture	\$15.00

Water Tests

Test parameter	Price
Ag Water Basic (<i>conductance, pH, boron, sodium, calcium, magnesium, potassium, carbonate, bicarbonate, sulfate, chloride, nitrate-N, Hardness, SAR</i>)	\$25.00
Ag Water Comprehensive (<i>conductance, pH, boron, sodium, calcium, magnesium, potassium, carbonate, bicarbonate, sulfate, chloride, nitrate-N, Hardness, SAR, zinc, iron, copper, manganese, phosphorus, arsenic, barium, nickel, cadmium, lead, chromium, fluoride</i>)	\$75.00
Animal Wastewater (Total Nitrogen, phosphorus, potassium, calcium, magnesium, sodium, zinc, manganese, iron, copper)	\$20.00
Lagoon/Wastewater (<i>total nitrogen, phosphorus, potassium, calcium, magnesium, sodium, sulfur, iron, manganese, zinc, copper, pH, specific conductance, carbonate, bicarbonate, chloride, nitrate-N, sulfate</i>)	\$45.00



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Home Water Quality (<i>Bacteria-coliform, e. coli-, Nitrate-N, Chloride, Sulfate, Alkalinity, Conductivity, Hardness, pH, Turbidity, TDS, TSS, Calcium, Magnesium, Sodium, Potassium, Phosphorus, Iron, Manganese, Sulfur, Lead, Copper, Corrosivity Index</i>)	\$75.00
VA/FHA Water Quality (<i>Bacteria-coliform, e. coli, calcium, copper. Iron, magnesium, manganese, potassium, sodium, alkalinity, chloride, color, conductivity, Hardness, nitrate-N, odor, pH, Total Suspended Solids, Total Dissolved Solids, Sulfate, Turbidity, lead, arsenic, ammonia-N, nitrite-N</i>)	\$150.00
Pond Water Quality Basic (<i>pH, TDS, nitrate-N, sulfate, alkalinity, aluminum, iron, manganese, phosphorus, hardness</i>)	\$45.00
Pond Water Quality Intermediate (<i>pH, TDS, nitrate-N, sulfate, alkalinity, aluminum, iron, manganese, phosphorus, hardness, e.coli</i>)	\$70.00
Pond Water Quality Comprehensive (<i>Bacteria-coliform, e.coli, fecal, nitrate-N, chloride, sulfate, nitrite-N, o-phosphate-P, alkalinity, carbonate, bicarbonate, conductivity, Hardness (total and calcium), pH, turbidity, TDS, calcium, copper, iron, magnesium, manganese, potassium, sodium, phosphorus, silica, zinc, ammonia-N, odor, pH, dissolved oxygen, HEM-oil & grease</i>)	\$150.00
Water well panel (<i>Bacteria-Total, iron, manganese, arsenic, total hardness, TDS, turbidity, pH, alkalinity, tannins, sulfate</i>)	\$100.00
Acidity	\$15.00
Alkalinity	\$15.00
Ammonia-Nitrogen	\$25.00
Anion-Cation Balance (<i>calcium, iron, potassium, magnesium, sodium, alkalinity, chloride, fluoride, nitrate, sulfate</i>)	\$125.00
Anion Scan (<i>fluoride, chloride, nitrite-N, bromide, nitrate-N, o-phosphate-P, sulfate</i>)	\$150.00
Anions-individual or additional (<i>bromate, chlorate, chlorite, iodide, thiocyanate, thiosulfate, perchlorate</i>)	\$35.00
Biochemical Oxygen Demand (BOD)	\$15.00
Carbonaceous Biochemical Oxygen Demand (CBOD)	\$15.00
Carbon Dioxide	\$20.00
Chemical Oxygen Demand (COD)	\$25.00
Chloride, Titrimetric	\$45.00
Color	\$15.00
Conductance	\$15.00



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Corrosivity Index (<i>calcium, magnesium, sodium, potassium, chloride, alkalinity, sulfate, pH, Temperature</i>)	\$100.00
Cyanide, Total and Amenable	\$40.00
Density	\$15.00
Dissolved Oxygen (DO)	\$15.00
Elemental analysis scan (<i>Total Nitrogen, Carbon, Hydrogen, Sulfur</i>)	\$90.00
Elemental analysis individual (<i>Total Nitrogen, Carbon, Hydrogen, Sulfur, Oxygen</i>)	\$45.00
Hardness (total, calcium)	\$15.00
Hexane Extractable Material (HEM)-Oil & Grease	\$50.00
Hexavalent Chromium	\$20.00
ICP metals scan (all available metals)	\$250.00
ICP metals-individual	\$15.00
Mercury	\$25.00
Mixed Liquor Suspended Solids (MLSS)	\$15.00
Mixed Liquor Volatile Suspended Solids (MLVSS)	\$15.00
Odor	\$15.00
Organic Acids (<i>acetate, butyrate, formate, lactate, oxalate, propionate, valerate</i>)	\$96.25
Organic Acids-individual or additional (<i>citrate, tartrate, glycolate</i>)	\$35.00
Oxidation-Reduction Potential (ORP)	\$15.00
Priority Pollutant List (PPL) metals (<i>antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, zinc, mercury</i>)	\$140.00
pH	\$5.00
RCRA metals (<i>arsenic, barium, cadmium, chromium, lead, selenium, silver, mercury</i>)	\$95.00
Salinity	\$20.00
Settleable Solids	\$15.00
Specific Gravity	\$15.00
Sulfide	\$25.00
Sulfite	\$35.00
Surfactants (<i>anionic, cationic, non-ionic</i>)	\$75.00
Target Analyte List (TAL) metals (<i>aluminum, antimony, arsenic, barium, beryllium, calcium, cadmium, cobalt, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, silver, sodium, thallium, vanadium, zinc, mercury</i>)	\$200.00
Tannin and Lignin	\$25.00



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Total Dissolved Solids (TDS)	\$15.00
Total Residual Chlorine	\$20.00
Total Solids (TS)	\$40.00
Total Suspended Solids (TSS)	\$15.00
Total Volatile Solids (TVS)	\$15.00
Turbidity	\$15.00
Viscosity	\$15.00
Volatile Dissolved Solids	\$15.00
Volatile Suspended Solids (VSS)	\$20.00

Forage Tests

Test parameter	Price
Forage Basic (<i>Moisture, Crude Protein, Acid Detergent Fiber, Neutral Detergent Fiber, Total Digestible Nutrients</i>)	\$15.00
Forage Comprehensive (<i>Moisture, Crude Protein, Acid Detergent Fiber, Neutral Detergent Fiber, Total Digestible Nutrients, phosphorus, potassium, calcium, magnesium, sodium, zinc, iron, copper, manganese, boron, sulfur</i>)	\$25.00
Crude Fat	\$10.00
Plant Leaf Tissue-Basic (<i>total nitrogen, phosphorus, potassium, calcium, magnesium, manganese, iron, copper, boron, aluminum, zinc, sodium, sulfur</i>)	\$20.00
Plant Leaf Tissue-Comprehensive (<i>nitrate-N, total nitrogen, phosphorus, potassium, calcium, magnesium, manganese, iron, copper, boron, aluminum, zinc, sodium, sulfur</i>)	\$35.00
Crude Protein	\$10.00
Nitrate-N	\$10.00

Manure/Litter Tests

Test parameter	Price
Litter-Basic (<i>moisture, total nitrogen, phosphorus, potassium, calcium, magnesium, manganese, sodium, zinc, sulfur, iron, copper</i>)	\$25.00
Litter-Comprehensive (<i>Ammonium-N, moisture, total nitrogen, nitrate-N, phosphorus, potassium, calcium, magnesium, manganese, sodium, zinc, sulfur, iron, copper, aluminum, boron</i>)	\$50.00
Manure-Basic (<i>% solids, total nitrogen, phosphorus, potassium, ammonium-N</i>)	\$40.00



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Manure-Comprehensive (<i>% solids, total nitrogen, phosphorus, potassium, ammonium-N, calcium, magnesium, sulfur, sodium, copper, zinc, manganese, iron, aluminum</i>)	\$50.00
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Compost Tests

Test parameter	Price
CTA (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio</i>)	\$45.00
CTB (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium</i>)	\$60.00
CTC (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, zinc</i>)	\$80.00
CTD (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc</i>)	\$285.00
CTE (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, PCBs</i>)	\$360.00
CTF (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, particle size, fecal coliform</i>)	\$300.00
CTG (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, particle size</i>)	\$225.00
CTH (<i>Total solids, organic matter, pH, soluble salts, total nitrogen, carbon, C:N ratio, ammonium-N, phosphorus, potassium, calcium, magnesium, aluminum, copper, iron, manganese, sodium, sulfur, particle size</i>)	\$175.00
Water Extractable Phosphorus	\$30.00

Wood Pellet (Biomass) Tests



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Test Parameter	Price
Diameter and Length	\$50.00
Durability and Fines	\$20.00
Sizing	\$85.00
Bulk Density	\$15.00
Total Moisture	\$15.00
Volatile Matter	\$15.00
Ash	\$25.00
Oxidizing Ash Fusion	\$150.00
Reducing Ash Fusion	\$150.00
Gross Calorific Value	\$75.00
Net Calorific Value	\$15.00
Chlorine and Sulfur	\$45.00
Elemental Analysis (<i>carbon, nitrogen, hydrogen, oxygen</i>)	\$120.00
Total Metals (<i>arsenic, cadmium, chromium, copper, lead, mercury, potassium, nickel, sodium, zinc</i>)	\$160.00
Metal Oxides (<i>silicon dioxide, aluminum oxide, iron oxide, calcium oxide, magnesium oxide, sodium oxide, potassium oxide, titanium dioxide, phosphorus pentoxide, manganese dioxide, barium oxide, zinc oxide, vanadium pentoxide, strontium oxide</i>)	\$60.00

Microbiological Tests

Test parameter	Price
Fecal Coliform	\$25.00
Total Coliform	\$25.00
E. coli Bacteria	\$25.00
Enterococci Bacteria	\$25.00
Heterotrophic Plate count (total bacteria count)	\$25.00

Services



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Test parameter	Price
Field sampling (per hour) + \$0.65 per mile	\$20.00
Consulting (per hour)	\$65.00

Organic Compounds Tests

Test parameter	Price
Benzene, Toluene, Ethyl Benzene, Xylene (BTEX)	\$85.00
Carbamate Pesticides-HPLC	\$285.00
Chlorinated Herbicides	\$150.00
Explosives	\$225.00
Explosives (ea)	\$65.00
GC-FID scan	\$85.00
GCMS scan	\$100.00
Fatty Acid Methyl Esters	\$220.00
FTIR scan	\$45.00
Glyphosate Herbicide-HPLC	\$240.00
Methyl- <i>tert</i> -butyl ether (MTBE)	\$85.00
Organochlorine Pesticides-GC/MS	\$150.00
Pesticides-GCMS	\$275.00
Phenols-GC/MS	\$200.00
Polychlorinated Biphenyls (PCBs)-GC/MS	\$125.00
Polynuclear Aromatic Hydrocarbons (PAH)-GCMS	\$210.00
Polynuclear Aromatic Hydrocarbons (PAH)-HPLC	\$210.00
Semi-volatile Organic Compounds-GC/MS	\$370.00
Silica Gel Treated Hexane Extractable Material-TPH	\$75.00
Total Petroleum Hydrocarbons (TPH)-GC	\$80.00
Total Phenolics	\$100.00
Volatile Organic Compounds-GC/MS	\$265.00

Waste Characterization Tests

Test parameter	Price
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Paint Filter Liquid	\$15.00
TCLP Chlorinated Pesticides	\$200.00
TCLP Herbicides	\$200.00
TCLP Metals (<i>arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver</i>)	\$160.00
TCLP Metals individual	\$15.00
TCLP Semivolatiles	\$370.00
TCLP extraction	\$50.00

Normal Turnaround time (TAT) = 10 business days

Rush fee (24 hours) on available tests = 100 % total fee cost additional

Expedite fee (3 days) = 75 % total fee cost additional

Expedite fee (5 days) = 50 % total fee cost additional

Expedite fee (7 days) = 25 % total fee cost additional