



Services and Pricing Guide

2019 Version 3.2



About us



Weld Laboratories has served the analytical needs of the agricultural and environmental industries for over 40 years. We have found that the key to good chemistry is having great chemists.

From alfalfa and corn silage analysis to soil, manure, water, and gas/oil spill testing, Weld Labs offers a comprehensive list of analytical services to meet your needs.

Weld Labs has continuously been certified by the National Forage Testing Association since 1986 and holds certification in both NIRS and Wet Chemistry analyses.



Feed Analyses

As our most common family of analyses, we are very well established in feed chemistry. We test all feed types (including alfalfa, haylage, corn silage, brewers grain, mixed ration (TMR), dog treats, and pet food). We are certified in both NIR and Wet chemistry techniques. We have worked closely with veterinarians and nutritionists to solve problems with livestock throughout the nation.

Feed NIR Packages

NIR (includes Moisture, Protein, ADF, NDF, Ca, P, Mg, K and RFV calculations) **\$16**

NIR RFQ (NIR package above plus lignin, fat, ash, dNDF) **\$18**

Equine NSC "Horse Hay" (includes NIR RFQ package and adds Sugars, Starch, Water Soluble Carbohydrates (WSC), and Non-structural Carbohydrates (NSC)). **\$28**

NIR TDN (includes NIR RFQ with expanded equations for corn silage with starch) **\$18**

NIR TDN Complete (NIR TDN package with volatile fatty acids (VFA's)) **\$23.75**

Common Feed Analyses

Nitrate **\$12**

(with NIR \$27, with RFQ \$28, w/ TDN \$28)

Moisture (oven dried at 105°C) **\$7.75**

Protein **\$10**

Crude Fiber **\$10**

Fibers (ADF + NDF) **\$14**

Crude Fat, or Acid Hydrolysis Fat **\$10**

Total Starch **\$12**

Wet Chem Packages

Moisture and Protein **\$15**

Wet RFV: Moisture, Protein, ADF, NDF, RFV **\$24**

Guaranteed Analysis: Moisture, Protein, Crude Fiber, Crude Fat **\$30**

TMR Basic: Moisture, Protein, ADF, NDF, Fat, Ca, P, Mg, K **\$53**

TMR Complete: Moisture, Protein, ADF, NDF, Fat, Ash, DCAD minerals, Ca, K, P, Mg, Starch **\$90**

Feed Minerals

First Mineral **\$12**

Additional Minerals **\$2**

Macromineral Package (includes Ash, DCAD, Ca, P, K, Mg, Na, Sulfur, Chloride) **\$40**

Comprehensive Minerals Package (includes Ash, DCAD, Ca, P, Mg, K, Na, Sulfur, Chloride, Fe, Mn, Cu, Zn) **\$50**

Other Feed Analyses

Ash	\$7	Total Starch	\$12
Selenium	\$40	Flaked Corn DOP (Degree of Processing) Gelatinized Starch	\$40
Sulfur	\$17	CSPS (Corn Silage Processing Score)	\$20
Lignin (in addition to ADF)	\$6	Particle Size Evaluation (8 sieves)	\$48
NPN (Non-protein nitrogen, urea)	\$12		
pH	\$8.50		
Soluble Protein (in addition to CP)	\$10	Calculations (NEL, NEM, NEG, RFV, TDN, etc)	FREE
ADFIN or NDFIN (includes either ADF or NDF)	\$18	Heavy Metals	CALL
		Hay Probe rental (per day)	\$5

Common Feed Toxins

Prussic Acid (cyanide)	\$27.50
Nitrate	\$12
Total Aflatoxins	\$29
Vomitoxin (DON)	\$34
Other toxins	CALL

NIR Feed Package Details

Our basic NIR includes Moisture, Protein, ADF, NDF, Ca, P, Mg, K, TDN, and Relative Feed Value (on alfalfa or grass hay samples).

Dairies request our NIR RFO package which upgrades the basic NIR by adding lignin, ash, fat, and fiber digestibility.

The NIR TDN package is equivalent to the RFO package (plus starch for corn silage). The NIR Complete adds titratable acidity, and titrimetric acetic acid and lactic acid. It is important to monitor the titratable acidity and pH of silages to prevent clostridial fermentation. We can also perform VFA analyses on our GC/FID.

The Equine RFV package is \$18. This package includes moisture, protein (CP), fiber (ADF, NDF), calcium (Ca), phosphorus (P), potassium (K), and magnesium (Mg), as well as sugars and water soluble carbohydrates (WSC). If your horse is suffering from laminitis, or you are feeding a high starch ration, we recommend upgrading to the Equine NSC package (NSC = non-structural carbohydrates) for \$28. This package provides a starch determination via wet chemistry.



Fertilizer, Manure/Compost, Agricultural Water

Weld Laboratories provides a full suite of fertilizer, manure, and compost analyses to assist formulators and farmers alike.

Fertilizer Packages

NPK Package - Total Nitrogen by AOAC 970.02, Phosphorus, Potassium **\$54**

(for Fertilizer minerals – see “Environmental Analyses” section)

Nitrate or Sulfate **\$12**

Karl Fisher Moisture **\$40**

Ammonia **\$11**

Manure/Compost Packages

Basic Manure package (TKN, P, K, Organic Matter, Salts, pH, Moisture & Solids, and C:N ratio) **\$50**

Complete Manure package (includes Basic Manure package and adds Nitrates, Ammonia, and Total Nitrogen) **\$70**

Basic Compost package (TKN, P, K, Organic Matter, Salts, pH, Moisture & Solids, and C:N ratio) **\$50**

Complete Compost package (includes Basic Compost package, adds Na, Ca, Mg, Cu, Zn, Fe, Mn, Chloride, Agricultural Index, and %N mineralized) **\$75**

Agricultural Water

Livestock Suitability (Ca, Mg, Na, Hardness, SAR, Nitrates, Sulfates, TDS, EC, pH) **\$50**

Livestock Complete (adds K, Fe, Cu, Zn, Mn, Fecal Coliforms, Alkalinity, Carbonate, Bicarbonate, Total Solids) **\$100**

Irrigation Suitability (Ca, Mg, Na, Hardness, SAR, Nitrates, Sulfates, TDS, EC, pH, Chlorides) **\$60**

Irrigation Complete (adds K, Mn, Iron Reducing Bacteria, Iron, Alkalinity, Carbonate, Bicarbonate, P, B, Total Solids, and Ammonia) **\$130**

Agricultural Soil Analyses

Our soil analyses follow standards set forth by the American Society of Agronomy. Every soil run must also pass a quality control check provided by the North American Proficiency Testing program. We know how important your soil is.

Main Packages

Routine Soil Fertility Package (includes pH, Salts, Organic Matter, Nitrate, Phosphorus, Potassium, Calcium, Sulfate, Zinc, and Texture estimation)	\$20
Essential Soil Package (includes Routine and adds Iron, Manganese, and Copper)	\$24
Complete Soil Package (includes Essential and adds Boron)	\$27.50
Nematode Cyst and Egg Count (designed for sugar beets)	\$30
Soil Probe Rental (per day)	\$5

Other Analyses

Subsoil nitrate	\$11
Soil Classification (%Silt, Clay, Fine Sand, and Sand)	\$30
Cation Exchange Capacity (CEC) by estimation (adds sodium, magnesium, and CEC calculations)	\$5
Base Saturation + CEC by exchange	\$45
pH and Conductivity	\$10
Liming Requirement (buffer pH)	\$15



Environmental Analyses

As our broadest range of services, we are well equipped to handle many of your water/wastewater regulatory requirements.

Common Minerals

Aluminum	\$19
Barium	\$19
Cadmium	\$11
Calcium	\$11
Chromium	\$11
Copper	\$11
Iron	\$11
Lead	\$11
Lithium	\$11
Manganese	\$11
Molybdenum	\$19
Nickel	\$11
Potassium	\$11
Silver	\$11
Sodium	\$11
Zinc	\$11

Minerals by Hydride (or Cold Vapor)

Arsenic (EPA 1632)	\$50
Selenium (EPA 7741)	\$50
Mercury (EPA 245.1)	\$50

Extractions/Digestions and Special Prep

Total Metal Digest	\$20
TCLP (Toxicity Characteristic Leaching Procedure) Extraction (includes Lead)	\$78
TCLP RCRA-8 (Includes Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, and Selenium)	\$175

Drinking Water Packages

Human Potability (Fecal Coliforms and Nitrates)	\$36
Human Starter (F. Coli, Total Coliforms, Nitrates, Nitrites, Lead (Pb), Fe, Cu, Mn, Chlorides, Sulfates, pH, EC, TDS, Hardness, SAR)	\$150



Environmental Analyses (continued)

Nonmetals and specialty analyses

Chromium VI	\$18
AIA (Acid Insoluble Ash)	\$11
Alkalinity or Acidity by titration	\$11
Chloride	\$11
Fecal Coliforms	\$24
Total Coliforms	\$24
Nitrate and Nitrite separately	\$20
Nitrate (by Cd reduction)	\$12
Total Phosphorus (includes digest)	\$16
Ortho Phosphorus	\$11
pH	\$8.50
Conductivity/EC	\$11
SAR (includes Na, K, Mg in water)	\$33
Sulfate	\$11
Sulfide (qualitative > 1ppm)	\$11
Sulfide (quantitative)	\$22

Specialty Analyses (continued)

Sulfur (Gravimetric)	\$27.50
Total Dissolved Solids (TDS)	\$12
Total Suspended Solids (TSS)	\$12
Total Kjeldahl Nitrogen (TKN)	\$12
Hardness (includes Ca, Mg)	\$22

Soil Corrosivity Packages

Ten-point Soil Corrosivity: Soil pH, EC, Sulfide, Redox potential, and Minimum Laboratory Resistivity	\$110
Soil redox potential, Sulfide, Chloride	\$31
Complete Corrosivity Package: Ten-point (above) plus Sulfate, Chloride	\$130



Other Environmental Analyses

Regulatory Oxygen Analyses

Biological Oxygen Demand (BOD) 5d **\$40**

CBOD₅ (Carbonaceous 5-day BOD) **\$50**

Chemical Oxygen Demand (COD) **\$40**

Dissolved Oxygen **\$10**

Wastewater Packages

Wastewater Basic BOD₅, Total suspended solids, TDS, EC, pH **\$64**

Wastewater Complete. Includes Wastewater basic and adds TKN, Nitrate, Phosphorus, Chloride, Fecal Coliforms (bacteria like E. Coli) **\$135**

Heavy metals and other toxins **CALL**

Gravimetric Petroleum Analyses

Soil/Water TRPH (SGT-HEM) Total Recoverable Petroleum Hydrocarbons as Silica Gel Treated Hexane Extractable Material **\$63**

Fat, Oil, and Grease (FOG) **\$36**

Chromatographic Analyses

TRPH/SAR package (SAR, pH, EC, TDS, TRPH choose EPA 1664 or FOG EPA 418.1) **\$100**

GRO (Gas Range Organics) or TVPH (Total Volatile Petroleum Hydrocarbons) by EPA 8015 via Purge and Trap (EPA 5030/5035) **\$66**

BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes) by EPA 602 via Purge and Trap (EPA 5030/5035) **\$66**

BTEX + Gas Range Organics (TVPH) combo package **\$108**

TEPH (Diesel Range Organics) by EPA 8015 via direct injection **\$89**

EPA 8260 Volatile Organics (VOC) Package (includes BTEX) EPA 624 same price **\$180**

EPA 8270 Semivolatile compounds (SVOC) or EPA 625 for the same price **\$290**

Saturated Paste soil SAR (includes Ca, Mg, Na) **\$65**

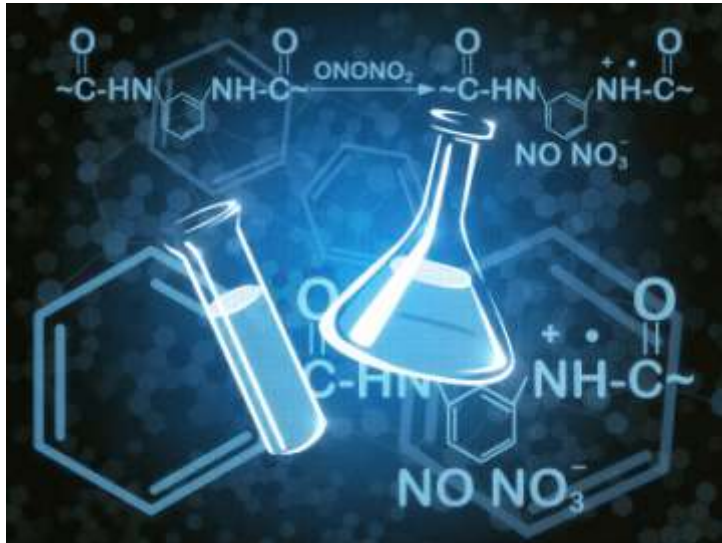
Pit Closure Complete: includes BTEX + GRO combo package, TEPH (Diesel Range Organics), TRPH (EPA 418.1 modified), and a full suite of saturated paste analyses (pH, EC, TDS, SAR) **\$300**

Other Hazardous Waste Packages **CALL**





Please inquire about services not listed. Only our most common analyses listed here.



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Content herein subject to change without notice.