



Services and Pricing Guide

2022 Version 3.4

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

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| <u>NIR</u> (includes Moisture, Protein, ADF, NDF, Ca, P, Mg, K and RFV calculations) | \$17 |
| <u>NIR RFQ</u> (NIR package above plus Lignin, Fat, Ash, dNDF ₄₈) | \$18 |
| <u>Equine NSC</u> (includes <u>NIR RFQ</u> package and adds Sugars, Starch by wet chemistry, Water Soluble Carbohydrates (WSC), and Non-structural Carbohydrates (NSC). | \$30 |
| <u>Equine RFV</u> (includes Moisture, Protein, ADF, NDF, Ca, P, Mg, K, RFV, Sugars, WSC - Water Soluble Carbohydrates) | \$20 |
| <u>NIR TDN</u> (includes NIR RFQ with expanded equations for Corn Silage with Starch) | \$18 |
| <u>NIR TDN Complete</u> (NIR TDN package with volatile fatty acids (VFA's)) | \$24 |

Common Feed Analyses

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|---|-------------|
| Nitrate | \$13 |
| (with NIR \$29, with RFQ \$30, w/ TDN \$30) | |
| Moisture (oven dried at 105°C) | \$8 |
| Protein | \$11 |
| Crude Fiber | \$12 |
| Fibers (ADF with NDF) | \$15 |
| Acid Detergent Fiber (ADF) or Neutral Detergent Fiber (NDF) | \$12 |
| Crude Fat | \$12 |
| Total Starch | \$12 |

Wet Chem Packages

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| Moisture and Protein | \$16 |
| <u>Wet RFV</u> : Moisture, Protein, ADF, NDF, RFV | \$26 |
| <u>Guaranteed Analysis</u> : Moisture, Protein, Crude Fiber, Crude Fat | \$40 |
| <u>TMR Basic</u> : Moisture, Protein, ADF, NDF, Fat, Ca, P, Mg, K, Starch | \$65 |
| <u>TMR Complete</u> : Moisture, Protein, ADF, NDF, Fat, Ash, DCAD minerals, Ca, K, P, Mg, Fe, Mn, Cu, Zn, Sulfur, Chloride, Starch | \$95 |

Feed Minerals

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| First Mineral \$14, \$2 for each additional | \$14+2 |
| <u>Nine-Mineral Package</u> (Ca, P, Mg, K, Na, Fe, Mn, Cu, Zn) | \$26 |
| <u>Macromineral Package</u> (includes Ash, DCAD, Ca, P, K, Mg, Na, Sulfur, Chloride) | \$45 |
| <u>Comprehensive Minerals Package</u> (includes Ash, DCAD, Ca, P, Mg, K, Na, Sulfur, Chloride, Fe, Mn, Cu, Zn) | \$55 |

Other Feed Analyses

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| Chloride | \$12 | Neutral Detergent Residue (NDR) | \$15 |
| Selenium | \$45 | NDF _{om} (ash free) | \$15 |
| Sulfur | \$18 | CSPS (Corn Silage Processing Score) | \$20 |
| Lignin (in addition to ADF) | \$6 | Particle Size Evaluation (8 sieves) | \$48 |
| NPN (Non-protein nitrogen, urea) | \$14 | Flaked Corn DOP (Degree of Processing) - Gelatinized Starch | \$42 |
| pH | \$8.50 | Calculations (NEL, NEM, NEG, RFV, TDN, etc) | FREE |
| Soluble Protein (in addition to CP) | \$11 | Heavy Metals | CALL |
| ADFIN (ADIN) or NDFN (includes ADF or NDF) | \$20 | Hay Probe rental (per day) | \$5 |
| ADF _{CP} or NDF _{CP} (includes ADF or NDF) required for Adjusted Crude Protein | \$20 | | |

Common Feed Toxins

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|------------------------|------|
| Prussic Acid (cyanide) | \$30 |
| Nitrate | \$13 |
| Total Aflatoxins | \$31 |
| Vomitoxin (DON) | \$36 |
| 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). This package works great for Millet, Sorghum (Milo), Sudex, Oat Hay, Wheat, Rye, Triticale, Grass, and Alfalfa.

Dairies request our NIR RFQ package which upgrades the basic NIR by adding lignin, ash, fat, and fiber digestibility. This package is designed for grass and alfalfa.

The NIR TDN package is equivalent to the RFQ 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 \$20. 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, EMS, or other metabolic disorders we recommend upgrading to the Equine NSC package (NSC = non-structural carbohydrates) for \$30. 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 – Designed for liquids, our basic fertilizer package provides TKN, Nitrate, total nitrogen (TN), Phosphorus, Potassium, pH, and Salts **\$65**

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

Nitrate, Sulfate, or Ammonia alone **\$15**

Karl Fisher Moisture **\$50**

Hydroponics Package – N, P, K, pH, Salts, B, Ca, Cl, Cu, Fe, Mg, Mn, Mo, Na, Zn **\$100**

Manure/Compost Packages

Basic Manure package (TKN, P, K, Organic Matter, Salts, pH, Moisture & Solids, and C:N ratio) **\$52**

Complete Manure package (includes Basic Manure package and adds Nitrates, Ammonia, and Total Nitrogen) **\$75**

Basic Compost package (TKN, P, K, Organic Matter, Salts, pH, Moisture & Solids, and C:N ratio) **\$52**

Complete Compost package (includes Basic Compost package, adds Na, Ca, Mg, Cu, Zn, Fe, Mn, Chloride, Agricultural Index, and %N mineralized) **\$77**

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

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| <u>Routine Soil</u> Fertility Package (includes pH, Salts, Organic Matter, Nitrate, Phosphorus, Potassium, Calcium, Sulfate, and Texture estimation) | \$20 |
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| <u>Essential Soil</u> Package (includes Routine and adds Zinc, Iron, Manganese, and Copper) | \$26 |
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| <u>Complete Soil</u> Package (includes Essential and adds Boron, Sodium, Magnesium, CEC by summation, and Base Saturation) | \$35 |
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| <u>Nematode</u> Cyst and Egg Count (designed for sugar beets) | \$30 |
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| Soil Probe Rental (per day) | \$5 |
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Other Analyses

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| Add Boron to any soil package | \$5 |
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| Soil Classification (%Silt, Clay, Fine Sand, and Sand) | \$33 |
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| Subsoil nitrate | \$13 |
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| CEC by exchange | \$40 |
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| pH and Conductivity only | \$10 |
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| Liming Requirement (buffer pH) | \$15 |
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Environmental Analyses

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

Common Minerals

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|--|------|
| Aluminum | \$20 |
| Barium | \$20 |
| Cadmium | \$12 |
| Calcium | \$12 |
| Chromium | \$12 |
| Copper | \$12 |
| Iron | \$12 |
| Lead | \$12 |
| Lithium | \$12 |
| Manganese | \$12 |
| Molybdenum | \$20 |
| Nickel | \$12 |
| Potassium | \$12 |
| Silver | \$12 |
| Sodium | \$12 |
| Zinc | \$12 |
| Minerals by Hydride (or Cold Vapor) | |
| Arsenic (EPA 1632) | \$55 |
| Selenium (EPA 7741) | \$55 |
| Mercury (EPA 245.1) | \$55 |

Extractions/Digestions and Special Prep

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| Total Metal Digest | \$20 |
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| TCLP (Toxicity Characteristic Leaching Procedure) Extraction (includes Lead), combine with RCRA8 metals for \$185. | \$78 |
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| RCRA-8 (Includes Digest, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, and Selenium) | \$180 |
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Drinking Water Packages

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| Human Potability (Fecal Coliforms and Nitrates) | \$40 |
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| Human Starter (F. Coli, E. Coli, Total Coliforms, Nitrates, Nitrites, Lead (Pb), Fe, Cu, Mn, Chlorides, Sulfates, Alkalinity, pH, EC, TDS, Hardness, SAR) | \$160 |
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| Well Quality Package (Total Coliforms, E. Coli, Nitrates, Fe, K, Chlorides, Sulfates, Alkalinity, pH, EC, TDS, Hardness, SAR) | \$126 |
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Environmental Analyses (continued)

Nonmetals and specialty analyses

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| Chromium VI | \$35 |
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| AIA (Acid Insoluble Ash) | \$13 |
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| Alkalinity or Acidity by titration | \$12 |
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| Chloride | \$12 |
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| Fecal Coliforms | \$27 |
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| Total Coliforms + E. Coli | \$33 |
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| E. Coli | \$27 |
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| Nitrate and Nitrite separately | \$22 |
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| Nitrate (by Cd reduction) | \$13 |
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| Total Phosphorus (includes digest) | \$18 |
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| Ortho Phosphorus | \$13 |
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| pH | \$8.50 |
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| Conductivity/EC | \$11 |
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| SAR (for water) includes Na, Ca , Mg | \$35 |
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| Sulfate | \$12 |
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| Sulfide | \$24 |
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Specialty Analyses (continued)

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| Sulfur (Gravimetric) | \$30 |
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| Total Dissolved Solids (TDS) | \$13 |
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| Total Suspended Solids (TSS) | \$13 |
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| Total Kjeldahl Nitrogen (TKN) | \$13 |
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| Hardness (includes Ca, Mg) | \$23 |
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Soil Corrosivity Packages

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| Ten-point Soil Corrosivity: Soil pH, EC, Sulfide, Redox potential, and Minimum Laboratory Resistivity | \$125 |
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| Soil redox potential, Sulfide, Chloride | \$55 |
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| Complete Corrosivity Package: Ten-point (above) plus Sulfate, Chloride | \$150 |
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Other Environmental Analyses

Regulatory Oxygen Analyses

Biological Oxygen Demand (BOD₅) Five Day \$42

CBOD₅ (Carbonaceous 5-day BOD) \$52

Chemical Oxygen Demand (COD) \$42

Dissolved Oxygen \$11

Wastewater Packages

Wastewater Basic BOD₅, Total suspended solids, TDS, EC, pH \$70

Wastewater Complete: Includes Wastewater basic and adds TKN, Nitrate, Phosphorus, Chloride, Fecal Coliforms (bacteria like E. Coli) \$150

COD + ffCOD (floc and filter) \$90

Gravimetric Petroleum Analyses

Soil/Water TRPH (SGT-HEM) Total Recoverable Petroleum Hydrocarbons as Silica Gel Treated Hexane Extractable Material) \$65

Fat, Oil, and Grease (FOG) \$38

Chromatographic Analyses

TRPH/SAR package (SAR, pH, EC, TDS, TRPH choose EPA 1664 or FOG EPA 418.1) \$105

GRO (Gas Range Organics) or TVPH (Total Volatile Petroleum Hydrocarbons) by EPA 8015 via Purge and Trap (EPA 5030/5035) \$80

BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes) by EPA 602 via Purge and Trap (EPA 5030/5035) \$75

BTEX + Gas Range Organics (TVPH) combo package \$130

TEPH (Diesel Range Organics) by EPA 8015 via direct injection \$95

EPA 8260 Volatile Organics (VOC) Package (includes BTEX) \$210

EPA 8270 Semivolatile compounds (SVOC) \$335

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

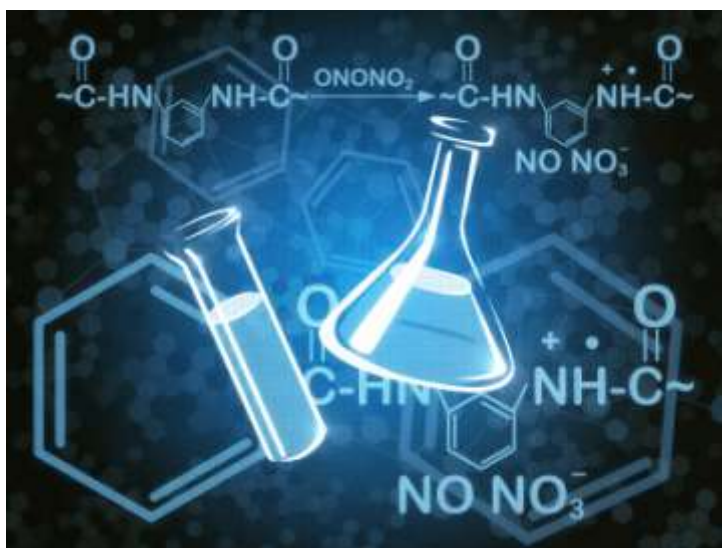
Pit Closure Complete: includes BTEX + GRO combo package, TEPH (Diesel Range Organics), TRPH, and a full suite of saturated paste analyses (pH, EC, TDS, SAR) \$350

Other Hazardous Waste Packages CALL





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



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