

UC Davis Analytical Laboratory

Fee Schedule

EFFECTIVE July 11, 2016

**Hoagland Hall
University of California
Davis, CA 95616-5270
Tel: (530) 752-0147
Fax: (530) 752-9892
Email: anlab@ucdavis.edu
<http://anlab.ucdavis.edu>**

The **UC DAVIS ANALYTICAL LABORATORY** performs analyses on selected chemical constituents of soil, plant, feed, water and wastewater in support of statewide research. Analytical Laboratory clients are University of California faculty. The Lab also accepts samples from non-University of California institutions on a limited basis.

General Policies:

1. This fee schedule lists the analytical tests typically and most often requested. It is not comprehensive, therefore, if you have analytical needs not listed in this pamphlet, please contact the Lab. Fees listed in this schedule are subject to change. The most current fee schedule and the fee estimator tool are posted on the Lab's website (<http://anlab.ucdavis.edu> in the section titled Fee Information).

A processing fee is assessed for each work request submitted (\$30.00 for UC clients, \$45.00 for non-UC clients).

Each test has an associated per-batch set-up fee assessed to offset the cost of setting up the testing procedure.

This fee structure includes pre-defined discounted group tests. Clients are encouraged to select group tests when appropriate as a cost-savings measure.

Following log-in, an email notification is sent to the client(s). The estimate of charges included within this email is based on routine testing. Should non-routine testing be required you will be contacted to discuss any additional costs.

Invoicing is conducted on a monthly basis and includes any and all work for which analyses were completed and results reported.

2. In fairness to all submitters, samples are processed in the order received by the Lab. If your analytical results require an expedited time frame, please contact the Lab prior to sample submission to ensure that your request can be accommodated. Additional charges may be assessed as per the Rush Policy. The Rush Policy is available on the Lab's website (<http://anlab.ucdavis.edu> in the section titled Using the Lab) or by contacting the office.
3. Quality Control / Quality Assurance measures include reagent blanks, duplicates, standard reference materials, and participation in various sample exchange and certification programs. The Lab's Quality Assurance Manual is available on the Lab's website (<http://anlab.ucdavis.edu> in the section titled QA / QC).
4. Samples are retained for 30 days following results reporting. Paper copies of the raw data and reports are stored for one year.

Notes:

"Work Request Code" indicates the analysis as it appears on the Work Request Form. Submitters circle or mark the check box adjacent to the requested analyses or write in a request if no "code" appears on the Work Request Form.

Contact Information:

Receiving Area, Hoagland Annex: 530-752-0266

Administration / Billing / Director: 530-752-0147

Fax: 530-752-9892

Email: anlab@ucdavis.edu

<http://anlab.ucdavis.edu>

SOIL ANALYSES

Recommendations

Sample Amount

- Submit 300-500 g of dried and ground sample.
- Five (5) mL per element is required for samples submitted in extract form.
- Nitrogen and Carbon analysis requires one (1) gram of finely powdered soil.

Preparation

- Air or oven-dry soil at 35-55°C. (The Lab oven dries soil samples at 40°C).
- Pulverize the material to pass through a 2 mm sieve.
- Nitrogen, Carbon, TKN, and total/acid digestible metals analysis requires sample material be finely powdered.

Containers

- Submit samples in pint-size plastic containers or in bags (plastic or paper).

Notes

- For N-P-K on California soils, typical analyses are NO₃-N, Olsen-P and X-K.
- Samples submitted for NO₃ and NH₄ to be tested on undried material should be submitted on a separate work request form.
- Imported soils will be assessed an additional handling charge of \$9.00 (UC clients) or \$14.00 (non-UC clients) per sample.
- The Lab provides grinding service for \$6.00 (UC clients) or \$9.00 (non-UC clients) per sample.

SOIL FERTILITY TESTS Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Aluminum (KCl extraction)	Al (KCl)	30.00	18.00	45.00	27.00
Ammonium-Nitrogen	NH ₄ -N	30.00	11.00	45.00	17.00
Carbon (Total) <i>(requires finely ground sample)</i>	C	30.00	18.00	45.00	27.00
Copper (DTPA extract)	Cu	30.00	18.00	45.00	27.00
Exchangeable Magnesium	X-Mg	30.00	11.00	45.00	17.00
Exchangeable Calcium	X-Ca	30.00	11.00	45.00	17.00
Exchangeable Potassium	X-K	30.00	11.00	45.00	17.00
Exchangeable Sodium	X-Na	30.00	11.00	45.00	17.00
Iron (DTPA extract)	Fe	30.00	18.00	45.00	27.00
Manganese (DTPA extract)	Mn	30.00	18.00	45.00	27.00
Nitrate-Nitrogen	NO ₃ -N	30.00	11.00	45.00	17.00
Nitrogen (Total) <i>(requires finely ground sample)</i>	N	30.00	18.00	45.00	27.00
Phosphate-Bray <i>(acidic soil)</i>	Bray-P	30.00	11.00	45.00	17.00
Phosphate-Olsen <i>(neutral/alkaline soil)</i>	Olsen-P	30.00	11.00	45.00	17.00
Sulfate-Sulfur (Calcium-Phosphate extract)	SO ₄ -S	30.00	11.00	45.00	17.00
Total Kjeldahl Nitrogen <i>(requires finely ground sample)</i>	TKN	30.00	22.00	45.00	33.00
Total Organic Carbon <i>(requires finely ground sample)</i>	TOC	30.00	22.00	45.00	33.00
Zinc (DTPA extract)	Zn	30.00	18.00	45.00	27.00

SOIL SALINITY TESTS

Using Saturated Paste Extracts

Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Bicarbonate	HCO ₃	30.00	13.00	45.00	20.00
Boron	B	30.00	13.00	45.00	20.00
Calcium	Ca	30.00	13.00	45.00	20.00
Carbonate	CO ₃	30.00	13.00	45.00	20.00
Chloride	Cl	30.00	13.00	45.00	20.00
Electrical Conductivity	EC	30.00	13.00	45.00	20.00
Magnesium	Mg	30.00	13.00	45.00	20.00
Exchangeable Sodium Percent <i>(requires Ca, Mg, Na)</i>	ESP	no charge		no charge	
Nitrate-Nitrogen	NO ₃ -N	30.00	13.00	45.00	20.00
pH	pH	30.00	13.00	45.00	20.00
Potassium	K	30.00	13.00	45.00	20.00
Saturation Percent	SP	30.00	13.00	45.00	20.00
Sodium	Na	30.00	13.00	45.00	20.00
Sodium Adsorption Ratio <i>(requires Ca, Mg, Na)</i>	SAR	no charge		no charge	
Sulfate-Sulfur	SO ₄ -S	30.00	13.00	45.00	20.00

SOIL ANALYSES (continued)

SOIL PHYSIO-CHEMICAL TESTS	Work Request	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Analysis	Code				
Bulk Density	BD	30.00	11.00	45.00	17.00
Calcium Carbonate (Lime) <i>(finely ground sample req'd)</i>	CaCO ₃	30.00	18.00	45.00	27.00
Cation Exchange Capacity	CEC	30.00	22.00	45.00	33.00
Cation Exchange Capacity (estimated) <i>(requires Exchangeable Cations)</i>	CEC (estimated)	no charge		no charge	
Moisture Retention: 0.33, 1, 5, 10, 15 atm, or other	Moisture Retention	30.00	18.00 per point	45.00	27.00 per point
Organic Carbon <i>[Calculated from/requires OM-LOI]</i>	Org.C	no charge		no charge	
Organic Matter - Loss on Ignition	OM-LOI	30.00	13.00	45.00	20.00
Particle Size Analysis [Sand/Silt/Clay]	Particle Size Analysis	30.00	28.00	45.00	42.00
Very Fine Sand	Very Fine Sand	30.00	13.00	45.00	20.00

SOIL ACID DIGESTIBLE TESTS (requires finely ground sample)	Work Request	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Analysis	Code				
Arsenic	As	30.00	22.00	45.00	33.00
Copper	Cu	30.00	18.00	45.00	27.00
Iron	Fe	30.00	18.00	45.00	27.00
Manganese	Mn	30.00	18.00	45.00	27.00
Phosphorus	P	30.00	18.00	45.00	27.00
Selenium	Se	30.00	22.00	45.00	33.00
Zinc	Zn	30.00	18.00	45.00	27.00

SOIL ALTERNATE METHODS	Work Request	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Analysis	Code				
Organic Carbon <i>[Calculated from and requires OM (W-B)]</i>	Org.C (W-B)	no charge		no charge	
Organic Matter-Walkley-Black	OM (Walkley-Black)	30.00	22.00	45.00	33.00
Oxalate Extract: Al, Fe, or Si <i>(requires finely ground sample)</i>	Oxalate Extract: Al, Fe, Si	30.00	22.00 each	45.00	33.00 each
Pyrophosphate Extract: Al, Fe, or Si <i>(requires finely ground sample)</i>	Pyrophosphate Extract: Al, Fe, Si	30.00	22.00 each	45.00	33.00 each
Nitrate (on undried soil)	NO ₃ -N (undried soil)	30.00	18.00	45.00	27.00
Ammonium (on undried soil)	NH ₄ -N (undried soil)	30.00	18.00	45.00	27.00

SOIL DISCOUNTED GROUP TESTS	Analysis / Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
	Soil Salinity Group 1 [SP, pH, EC, Ca, Mg, Na, Cl, B, HCO ₃ , CO ₃]	120.00	73.00	180.00	110.00
	Soil Salinity Group 2 [SP, pH, EC, Ca, Mg, Na, Cl, B]	90.00	60.00	135.00	90.00
	Extractable Micronutrients [DTPA: Zn, Mn, Fe, Cu]	60.00	47.00	90.00	71.00
	Exchangeable Cations [X-K, X-Na, X-Ca, X-Mg]	60.00	34.00	90.00	51.00
	Nitrate & Ammonium [NO ₃ -N, NH ₄ -N]	30.00	18.00	45.00	27.00
	Soil Fertility Group 1 [NO ₃ -N, Olsen-P, X-K]	30.00	28.00	45.00	42.00
	Soil Fertility Group 2 [NO ₃ -N, Olsen-P, X-K, X-Na, X-Ca, X-Mg, CEC (estimated), OM-LOI, pH]	120.00	60.00	180.00	90.00
	Total Micronutrients [Total: Zn, Mn, Fe, Cu]	60.00	47.00	90.00	71.00
	Total Nitrogen & Carbon [N, C]	30.00	20.00	45.00	30.00
	Nitrate & Ammonium (undried soil) [NO ₃ -N, NH ₄ -N]	30.00	20.00	45.00	30.00

SOIL ANALYSES (continued)

SOIL EXTRACT TESTS

(on client-provided Soil Extracts)

Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Nitrate	NO ₃ -N	30.00	11.00	45.00	17.00
Ammonium	NH ₄ -N	30.00	11.00	45.00	17.00
Nitrate & Ammonium [NO ₃ -N, NH ₄ -N]		30.00	15.00	45.00	23.00

SOIL OTHER SERVICES

Analysis

	UC Clients		Non-UC Clients	
	Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Sample Encapsulation (for N &/or C isotope testing)	30.00	9.00	45.00	14.00

PLANT / FEED / MANURE / COMPOST ANALYSES

Recommendations

- Sample Amount**
- Submit 20 g of dried and ground plant sample.
 - Submit 50 g of dried and ground feed sample; the maximum size of unground feed sample is one large grocery bag maximum per sample.
 - For extracts/solutions, five (5) mL per element is required.
- Preparation**
- Oven-dry samples at 55-60°C. (The Lab oven dries at 55°C.). Grind material to pass through a 40 mesh screen on a Wiley Mini-Mill [60 mesh hand screen].
- Containers**
- Submit samples in coin envelopes (ground) or paper grocery bags (unground).
- Note**
- The Lab provides grinding service for \$6.00 (UC clients) or \$9.00 (non-UC clients) per sample.

PLANT ACID DIGESTIBLE TESTS	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Aluminum	Al	30.00	24.00	45.00	36.00
Arsenic	As	30.00	24.00	45.00	36.00
Barium	Ba	30.00	14.00	45.00	21.00
Boron	B	30.00	14.00	45.00	21.00
Cadmium	Cd	30.00	14.00	45.00	21.00
Calcium	Ca	30.00	14.00	45.00	21.00
Carbon	C	30.00	14.00	45.00	21.00
Chromium	Cr	30.00	14.00	45.00	21.00
Chromium (oxide)	Cr (oxide)	30.00	28.00	45.00	42.00
Cobalt	Co	30.00	14.00	45.00	21.00
Copper	Cu	30.00	14.00	45.00	21.00
Iron	Fe	30.00	14.00	45.00	21.00
Lead	Pb	30.00	14.00	45.00	21.00
Magnesium	Mg	30.00	14.00	45.00	21.00
Manganese	Mn	30.00	14.00	45.00	21.00
Molybdenum	Mo	30.00	14.00	45.00	21.00
Nickel	Ni	30.00	14.00	45.00	21.00
Nitrogen	N	30.00	14.00	45.00	21.00
Phosphorus	P	30.00	14.00	45.00	21.00
Potassium	K	30.00	14.00	45.00	21.00
Selenium	Se	30.00	24.00	45.00	36.00
Silica (as Total Si)	Si	30.00	24.00	45.00	36.00
Sodium	Na	30.00	14.00	45.00	21.00
Sulfur	S	30.00	14.00	45.00	21.00
Total Kjeldahl Nitrogen	TKN	30.00	22.00	45.00	33.00
Vanadium	V	30.00	14.00	45.00	21.00
Zinc	Zn	30.00	14.00	45.00	21.00

PLANT EXTRACTABLE TESTS	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Ammonium-Nitrogen	NH ₄ -N	30.00	12.00	45.00	18.00
Chloride	Cl	30.00	12.00	45.00	18.00
Nitrate-Nitrogen	NO ₃ -N	30.00	12.00	45.00	18.00
Phosphate-Phosphorus	PO ₄ -P	30.00	12.00	45.00	18.00
Potassium	K	30.00	14.00	45.00	18.00
Sulfate-Sulfur	SO ₄ -S	30.00	18.00	45.00	27.00

PLANT / FEED / MANURE / COMPOST ANALYSES (continued)

PLANT DISCOUNTED GROUP TESTS Analysis / Work Request Code	UC Clients		Non-UC Clients	
	Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Extractable N-P-K Group 1 [NO ₃ -N, NH ₄ -N, PO ₄ -P, K]	30.00	37.00	45.00	56.00
Extractable N-P-K Group 2 [NO ₃ -N, PO ₄ -P, K]	30.00	28.00	45.00	42.00
Nitrate and Ammonium [NO ₃ -N, NH ₄ -N]	30.00	18.00	45.00	27.00
Nutrient Panel A [N, P, K]	30.00	28.00	45.00	42.00
Nutrient Panel B [S, B, Ca, Mg]	60.00	37.00	45.00	56.00
Nutrient Panel C [Zn, Mn, Fe, Cu]	60.00	37.00	45.00	56.00
Nutrient Panel D [Panels A, B & C tests]	120.00	42.00	180.00	63.00
Nutrient Panel E [NO ₃ -N, PO ₄ -P, K, Panels B & C]	120.00	73.00	180.00	110.00
Add Sodium to a Nutrient Panel	none	3.00	none	5.00
Total Nitrogen & Carbon [N, C]	30.00	18.00	45.00	27.00

FEED TESTS Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Acid Detergent Insoluble N (<i>includes ADF</i>)	ADIN	30.00	36.00	45.00	54.00
Acid Detergent Fiber	ADF	30.00	19.00	45.00	29.00
ADF Ash Free (<i>includes ADF</i>)	ADF (ash free)	30.00	28.00	45.00	42.00
Ash Content	Ash	30.00	12.00	45.00	18.00
Cellulose (<i>includes ADF</i>)	Cellulose	30.00	36.00	45.00	54.00
Crude Protein	Protein	30.00	18.00	45.00	27.00
Dry Matter	DM	30.00	12.00	45.00	18.00
Fat	Fat	30.00	28.00	45.00	42.00
Fat with Rinse	Fat with Rinse	30.00	36.00	45.00	54.00
Hemicellulose	Hemicellulose	30.00	36.00	45.00	54.00
Lignin	Lignin	30.00	24.00	45.00	36.00
Neutral Detergent Fiber	NDF	30.00	19.00	45.00	29.00
NDF Ash Free (<i>includes NDF</i>)	NDF (ash free)	30.00	28.00	45.00	42.00
Partial DM (dried at 55°C)	Partial DM (dried at 55°C)	30.00	6.00	45.00	9.00
Total Digestible Nutrients (<i>requires ADF</i>)	TDN	no charge		no charge	
Alpha-Tocopherol	Alpha-Tocopherol	30.00	66.00	45.00	99.00
Vitamin C	Vitamin C	30.00	66.00	45.00	99.00
Beta-Carotene	Beta-Carotene	30.00	66.00	45.00	99.00
Tannins	Tannins	30.00	66.00	45.00	99.00
Total Phenols	Total Phenols	30.00	66.00	45.00	99.00

FEED DISCOUNTED GROUP TEST Analysis / Work Request Code	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Feed Group 1 [DM, Protein, ADF, TDN]		60.00	31.00	90.00	47.00
Feed Group 2 [DM, Protein, ADF, TDN, Ash, Fat]		90.00	44.00	135.00	66.00

UC Clients **Non-UC Clients**

PLANT / FEED / MANURE / COMPOST ANALYSES (continued)

CARBOHYDRATE TESTS

Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Fructose	Fructose	30.00	58.00	45.00	87.00
Glucose	Glucose	30.00	58.00	45.00	87.00
Sorbitol	Sorbitol	30.00	58.00	45.00	87.00
Total Glucose	Total Glucose	30.00	58.00	45.00	87.00
Starch <i>(includes Glucose and Total Glucose)</i>	Starch	60.00	73.00	90.00	110.00
Sucrose	Sucrose	30.00	58.00	45.00	87.00
Total Non-Structural Carbohydrates <i>(includes Fructose, Sucrose and Total Glucose)</i>	TNC	60.00	73.00	90.00	110.00

CARBOHYDRATE DISCOUNTED GROUPS

Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Soluble Carbohydrates Group 1 [Fructose, Glucose, Sucrose]		30.00	58.00	45.00	87.00
Soluble Carbohydrates Group 2 [Fructose, Glucose, Sucrose, Sorbitol]		30.00	64.00	45.00	96.00
Carbohydrate Panel [TNC, Starch, Fructose, Glucose, Sucrose, Total Glucose]		60.00	73.00	90.00	110.00

MANURE and COMPOST TESTS

Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Electrical Conductivity	EC (water 1:5)	30.00	14.00	45.00	21.00
Partial DM (dried at 55°C)	Partial DM (dried at 55°C)	30.00	6.00	45.00	9.00
pH	pH (water 1:5)	30.00	14.00	45.00	21.00

OTHER SERVICES

Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Sample Encapsulation (for N &/or C isotope testing)		30.00	9.00	45.00	14.00
Acid Digestion (for analysis by ICP-MS)		30.00	17.00	45.00	26.00

WATER & WASTE WATER ANALYSES

Recommendations

- Sample Amount**
- Submit 250 mL per sample (5 mL per element for extracts).
- Preparation**
- Typically, water samples should be stored under refrigeration.
 - If freezing samples, please follow these guidelines: Always leave at least 10% of the container unfilled to accommodate the expansion of the water when frozen. Do not use glass bottles. Do not place sample containers directly onto dry ice.
- Note**
- The Lab provides sample filtration for \$11.00 (UC clients) or \$17.00 (non-UC clients) per sample
 - Detailed water sample preservation guidelines are available on the Lab's website (<http://anlab.ucdavis.edu> in the section titled Sampling and Preparation)

BASIC WATER TESTS Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Alkalinity	Alkalinity	30.00	11.00	45.00	17.00
Ammonium-Nitrogen	NH ₄ -N	30.00	11.00	45.00	17.00
Bicarbonate	HCO ₃	30.00	11.00	45.00	17.00
Carbonate	CO ₃	30.00	11.00	45.00	17.00
Chloride	Cl	30.00	11.00	45.00	17.00
Dissolved Organic Carbon (<i>requires filtration</i>)	DOC	30.00	31.00	45.00	47.00
Electrical Conductivity	EC	30.00	11.00	45.00	17.00
Exchangeable Sodium Percent (<i>requires Ca, Mg, Na</i>)	ESP	no charge		no charge	
Hardness (<i>requires Ca, Mg</i>)	Hardness	no charge		no charge	
Nitrate-Nitrogen	NO ₃ -N	30.00	11.00	45.00	17.00
pH	pH	30.00	11.00	45.00	17.00
Phosphorus	PO ₄ -P (soluble P)	30.00	11.00	45.00	17.00
Sodium Adsorption Ratio (<i>requires Ca, Mg, Na</i>)	SAR	no charge		no charge	
Total Carbon	Total C	30.00	31.00	45.00	47.00
Total Dissolved Solids	TDS	30.00	13.00	45.00	20.00
Total Kjeldahl Nitrogen	TKN	30.00	24.00	45.00	36.00
Total Nitrogen	Total N	30.00	23.00	45.00	35.00
Total Organic Carbon	TOC	30.00	31.00	45.00	47.00
Total Solids	TS	30.00	13.00	45.00	20.00
Total Suspended Solids	TSS	30.00	13.00	45.00	20.00
Turbidity	Turbidity	30.00	11.00	45.00	17.00
Volatile Suspended Solids (<i>requires TSS</i>)	VSS	30.00	13.00	45.00	20.00

WATER SOLUBLE MINERALS Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Aluminum	Al	30.00	11.00	45.00	17.00
Boron	B	30.00	11.00	45.00	17.00
Cadmium	Cd	30.00	11.00	45.00	17.00
Calcium	Ca	30.00	11.00	45.00	17.00
Chromium	Cr	30.00	11.00	45.00	17.00
Copper	Cu	30.00	11.00	45.00	17.00
Iron	Fe	30.00	11.00	45.00	17.00
Lead	Pb	30.00	11.00	45.00	17.00
Magnesium	Mg	30.00	11.00	45.00	17.00
Manganese	Mn	30.00	11.00	45.00	17.00
Nickel	Ni	30.00	11.00	45.00	17.00
Potassium	K	30.00	11.00	45.00	17.00
Silica (as Soluble Si)	Si	30.00	11.00	45.00	17.00
Sodium	Na	30.00	11.00	45.00	17.00
Sulfate (Sulfur)	SO ₄ -S (soluble S)	30.00	11.00	45.00	17.00
Vanadium	V	30.00	14.00	45.00	21.00
Zinc	Zn	30.00	11.00	45.00	17.00

WATER & WASTE WATER ANALYSES (continued)

WATER ACID DIGESTIBLES	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Aluminum	Al	30.00	13.00	45.00	20.00
Arsenic	As	30.00	24.00	45.00	36.00
Boron	B	30.00	13.00	45.00	20.00
Cadmium	Cd	30.00	13.00	45.00	20.00
Calcium	Ca	30.00	13.00	45.00	20.00
Chromium	Cr	30.00	13.00	45.00	20.00
Copper	Cu	30.00	13.00	45.00	20.00
Iron	Fe	30.00	13.00	45.00	20.00
Lead	Pb	30.00	13.00	45.00	20.00
Magnesium	Mg	30.00	13.00	45.00	20.00
Manganese	Mn	30.00	13.00	45.00	20.00
Mercury	Hg	30.00	31.00	45.00	47.00
Molybdenum	Mo	30.00	13.00	45.00	20.00
Nickel	Ni	30.00	13.00	45.00	20.00
Phosphorus	P	30.00	13.00	45.00	20.00
Potassium	K	30.00	13.00	45.00	20.00
Selenium	Se	30.00	24.00	45.00	36.00
Sodium	Na	30.00	13.00	45.00	20.00
Sulfur	S	30.00	13.00	45.00	20.00
Zinc	Zn	30.00	13.00	45.00	20.00

WATER ALTERNATE METHODS	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Pharmaceuticals and Personal Care Products	By special request	Please Contact the Lab for Pricing			
Pesticides	By special request	Please Contact the Lab for Pricing			
Minerals (soluble, low level)	By special request (each)	30.00	31.00	45.00	47.00
Minerals (total, low level)	By special request (each)	30.00	31.00	45.00	47.00
Phosphorus	P (Soluble by ICP)	30.00	11.00	45.00	17.00
Chloride	Cl (Ion Chromatography)	30.00	31.00	45.00	47.00
Sulfate	SO ₄ (Ion Chromatography)	30.00	31.00	45.00	47.00

WATER DISCOUNTED GROUPS	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Water Suitability Group 1 [pH, EC, SAR, Ca, Mg, Na, Cl, B, HCO ₃ , CO ₃]		120.00	60.00	180.00	90.00
Water Suitability Group 2 [pH, EC, SAR, Ca, Mg, Na, Cl, B]		90.00	53.00	135.00	80.00
Acid Digestible Salts [K, Ca, Mg, Na]		60.00	23.00	90.00	35.00
Acid Digestible Micronutrients [Zn, Mn, Fe, Cu]		60.00	23.00	90.00	35.00
Acid Digestible Heavy Metals [Cd, Cr, Pb, Ni]		60.00	23.00	90.00	35.00
Bicarbonate & Carbonate [HCO ₃ , CO ₃]		30.00	15.00	45.00	23.00
Soluble Salts [K, Ca, Mg, Na]		60.00	19.00	90.00	29.00
Soluble Micronutrients [Zn, Mn, Fe, Cu]		60.00	19.00	90.00	29.00
Soluble Heavy Metals [Cd, Cr, Pb, Ni]		60.00	19.00	90.00	29.00
Nitrate & Ammonium [NO ₃ -N, NH ₄ -N]		30.00	15.00	45.00	23.00
Anion Panel [Cl, SO ₄ -S (soluble S), NO ₃ -N, HCO ₃]		60.00	19.00	90.00	29.00
Ion Chromatography Panel [Cl, SO ₄]		30.00	35.00	45.00	53.00

MISCELLANEOUS ANALYSES

OTHER SERVICES Analysis	Work Request Code	UC Clients		Non-UC Clients	
		Batch Setup	Per Sample Test Cost	Batch Setup	Per Sample Test Cost
Sample Encapsulation (for N &/or C isotope testing)		30.00	9.00	45.00	14.00
Acid Digestion (for analysis by ICP-MS)		30.00	17.00	45.00	26.00
Sample Grinding (no other testing performed on sample)		30.00	17.00	45.00	26.00

MISCELLANEOUS SAMPLES & ANALYSES

Please contact the Laboratory to have non-standard samples tested or to request tests not listed in this fee schedule. Your analytical needs will be met to the best of the Laboratory's ability.