

ISU Soil and Plant Analysis Laboratory

DO-IT-YOURSELF

These services are only available to current ISU students, staff, and faculty

Contact Information

Trainee/Analyst Name _____

PI/Advisor Name: _____

Address _____

Department: _____

City _____

Telephone: _____

State _____ Zip _____

Email: _____

Sample Information

Sample Description _____

Submission Date ___/___/___ Number of Samples _____

Quarantine samples. Arrangements must be made in advance of delivering samples. Please contact us for permission to use our USDA-APHIS permit before shipping samples from the point of origin.

Email results (\$0.50 per email)

Potentially hazardous samples. Details _____.

Payment Information

Total Amount Owed: \$ _____

Check or Account Number _____

Signatures

Signature of person performing the analyses

Signature of trainee's supervisor or major advisor

Training Fees

Cost per training session

- ICP-AES (1 week) \$350.00
- Lachat Flow Analyzer (4 hours) \$150.00
- Carbon/Nitrogen Combustion Analyzer (8 hours) \$200.00
- Microwave Digestion (4 hours) \$75.00

Individual Tests

Cost per hour*

Cost per sample/per analyte

- | | | | |
|--|------------|-------|-----------|
| <input type="checkbox"/> ICP-AES | \$75.00/hr | | \$0.70** |
| <input type="checkbox"/> Flow AutoAnalyzer..... | \$45.00/hr | | \$1.00. |
| <input type="checkbox"/> Carbon/Nitrogen Combustion Analyzer | \$30.00/hr | | \$2.00 |
| <input type="checkbox"/> Atomic absorption spectrometer | xxxxxxxx | | \$0.55 |
| <input type="checkbox"/> pH | xxxxxxxx | | \$1.00 |
| <input type="checkbox"/> pH + Buffer pH..... | xxxxxxxx | | \$1.50 |
| <input type="checkbox"/> Microwave Digestion..... | xxxxxxxx | | \$6.00*** |
| <input type="checkbox"/> Soil Grinding | \$5.00/hr | | |

* Minimum charge for 1 hour required

** ICP setup fee \$10.00 + \$0.70/sample/analyte

*** Cost per sample

NOTE:

- Reagents, standards, and other supplies are not included in per sample prices. Analyst is required to bring own reagents and standards when analyzing samples.
- Reagents deemed as potentially harmful for instruments will be restricted from being analyzed on the instruments.
- Trainings can be scheduled over more than one day to accommodate trainee's schedule.
- Trainees will be charged for any equipment repair and/or replacement parts caused by negligence or non-adherence to laboratory procedures.
- Trainees must complete ISU Environmental Health and Safety Laboratory Safety Course prior to working with us at SPAL.
- SPAL reserves the right to reschedule if sample volume increases sharply prior to scheduled training and/or equipment usage.
- Clients will be expected to clean up after themselves (including benches & labware).
- Hourly rate assumes clients are analyzing samples extracted prior to coming to the lab.

Select Tests:

<u>Phosphorus (colorimetric):</u>		<u>Mehlich-3 Extraction (read on ICP):</u>	
<input type="checkbox"/> Bray-1		<input type="checkbox"/> P	<input type="checkbox"/> Zn
<input type="checkbox"/> Olsen		<input type="checkbox"/> K	<input type="checkbox"/> Cu
<input type="checkbox"/> Mehlich 3		<input type="checkbox"/> Ca	<input type="checkbox"/> Fe
<u>Potassium only (read on AAS):</u>		<input type="checkbox"/> Mg	<input type="checkbox"/> Mn
<input type="checkbox"/> NH ₄ OAc		<input type="checkbox"/> Na	<input type="checkbox"/> Al
<input type="checkbox"/> Mehlich 3			
<u>NH₄OAc Extraction (read on ICP)</u>		<u>Combustion Analysis:</u>	
<input type="checkbox"/> K	<input type="checkbox"/> Mg	<input type="checkbox"/> TC	
<input type="checkbox"/> Ca	<input type="checkbox"/> Na	<input type="checkbox"/> TN	
		<input type="checkbox"/> OM	
<u>DTPA Micronutrients:</u>			
<input type="checkbox"/> Zn	<input type="checkbox"/> Fe		
<input type="checkbox"/> Cu	<input type="checkbox"/> Mn		
<u>Inorganic-N (colorimetric):</u>			
<input type="checkbox"/> NO ₃ ⁻ -N			
<input type="checkbox"/> NH ₄ ⁺ -N			
<input type="checkbox"/> NO ₃ ⁻ -N plus NH ₄ ⁺ -N			
<input type="checkbox"/> NO ₂ ⁻ -N			
<u>Total Elements (via nitric acid microwave digestion; digest is read on an ICP):</u>			
<input type="checkbox"/> P	<input type="checkbox"/> Mg	<input type="checkbox"/> Cu	<input type="checkbox"/> Al
<input type="checkbox"/> K	<input type="checkbox"/> Na	<input type="checkbox"/> Fe	<input type="checkbox"/> S
<input type="checkbox"/> Ca	<input type="checkbox"/> Zn	<input type="checkbox"/> Mn	other
			Please contact SPAL for additional analytes (including heavy metals).