

Water Quality Laboratory

Kansas State University

www.k-state.edu/engagement/interdisciplinary-institutes/water-institute/wq-lab/

KANSAS STATE
UNIVERSITY

Kansas Water Institute

Sample Submittal Form – Water - EXTERNAL Research

Ship or delivery sample(s) to:

Water Quality Lab – Kansas State University
1712 Claflin Road
2404 Throckmorton Hall
Manhattan, KS 66506
Phone: 785-532-5519 Email: wql@ksu.edu

(For laboratory use)

Lab Number:

General Information: Contact Name: _____ Date: _____

Organization/Department _____ Funding Source: _____

Street Address: _____ City: _____ State: _____ Zip Code: _____

Email: _____ Phone: _____

Sample Name _____ Number of samples: _____

Matrix Type: Water Wastewater Extracts

Return Sample: YES NO Date Results Needed: _____

Payment Method: By check (Check Number: _____) By card By invoice

Tests with price \$xx will be offered in the future because the lab is currently under development.

Physical & Chemical Parameters:

- | | |
|---|---|
| <input type="checkbox"/> \$5 pH | <input type="checkbox"/> \$16 Trace Elements on ICP-MS/MS* (<input type="checkbox"/> Al, <input type="checkbox"/> As, <input type="checkbox"/> |
| <input type="checkbox"/> \$5 Conductivity (EC) | Ag <input type="checkbox"/> B, <input type="checkbox"/> Ba, <input type="checkbox"/> Be, <input type="checkbox"/> Cd, <input type="checkbox"/> Co, <input type="checkbox"/> Cr, <input type="checkbox"/> Cu, <input type="checkbox"/> Fe, |
| <input type="checkbox"/> \$12 Alkalinity as CaCO ₃ | <input type="checkbox"/> Hg <input type="checkbox"/> Mn, <input type="checkbox"/> Mo, <input type="checkbox"/> Ni, <input type="checkbox"/> Pb, <input type="checkbox"/> Se, <input type="checkbox"/> V, <input type="checkbox"/> U, |
| <input type="checkbox"/> \$9 Hardness (calculated from Ca and Mg) | <input type="checkbox"/> Zn) |
| <input type="checkbox"/> \$10 Turbidity | <input type="checkbox"/> \$19 (1 st Anion) or \$28(All) Full Anions Suite on IC |
| <input type="checkbox"/> \$5 Total Dissolved Solids (TDS) | <input type="checkbox"/> F, <input type="checkbox"/> Cl, <input type="checkbox"/> NO ₂ -N, <input type="checkbox"/> SO ₄ , <input type="checkbox"/> Br, <input type="checkbox"/> NO ₃ -N, <input type="checkbox"/> PO ₄ |
| <input type="checkbox"/> \$4.50 Total Suspended Solids (TSS) | <input type="checkbox"/> \$19 (1 st element) or \$28 (all) Full Cations Suite on IC |
| <input type="checkbox"/> \$xx Dissolved Organic Carbon (DOC) | <input type="checkbox"/> Na, <input type="checkbox"/> NH ₄ , <input type="checkbox"/> K, <input type="checkbox"/> Mg, <input type="checkbox"/> Ca, <input type="checkbox"/> Sr |
| <input type="checkbox"/> \$xx Total Organic Carbon (TOC) | <input type="checkbox"/> \$11 Total P & N |
| <input type="checkbox"/> \$xx Biological Oxygen Demand (BOD) | <input type="checkbox"/> \$xx Total Kjeldhal N (TKN) |
| <input type="checkbox"/> \$xx Chemical Oxygen Demand (COD) | <input type="checkbox"/> \$2.50 (1 st element) and \$1.75 (each add'l) Major |
| <input type="checkbox"/> \$3 (both \$3.25) <input type="checkbox"/> Dissolved NO ₃ -N or <input type="checkbox"/> NH ₄ -N | Elements on ICP-OES (<input type="checkbox"/> Ca, <input type="checkbox"/> Mg, <input type="checkbox"/> Na, <input type="checkbox"/> K, |
| <input type="checkbox"/> \$2.50 Dissolved Ortho-P (colorimetric) | <input type="checkbox"/> Zn, <input type="checkbox"/> Fe, <input type="checkbox"/> Cu, <input type="checkbox"/> Mn, <input type="checkbox"/> S) |

- \$xx Full ICP-OES Suite* (Al, As, B, Ba, Ca Cd, Co, Cr, Cu, Fe, K, Mg, S, Mo, Na, Ni, Pb, Se, Ti, V, Zn, Mn)

* Contact WQL for additional elements

Emerging & Organic Contaminants:

- \$297 PFAS - EPA 1633
 \$146.25 Microplastics (Clear water)
 \$xxx Agricultural Herbicides/Insecticides
 \$xxx Atrazine Metabolites
- \$xxx As Speciation using HPLC-ICP MS
 \$xxx Se Speciation using HPLC-ICP MS
 \$xxx Glyphosate/AMPA
 \$xxx Acidic Herbicides
 \$xxx Volatile Organic Compounds
 \$xxx Septic Trace Analysis

Biological Parameters: (Contact laboratory for sterile containers and use next-day shipping)

- \$40 Quantifying Coliforms
 \$40 Quantifying Enterococci
 \$50 Isolation of Salmonella and PCR confirmation
 \$50 Isolation of Listeria and PCR confirmation
- \$40 Quantifying *E. coli*
 \$40 Quantifying *Pseudomonas aeruginosa*
 \$50 Isolation of *E. coli* and PCR confirmation

Stable Isotopes:

- \$10 $\delta^2\text{H}$ and $\delta^{18}\text{O}$ \$xx $\delta^{17}\text{O}$

Analytical Packages: All analytical packages require 0.5 L (16.9 oz.) of sample volume.

Analytical Package	Price	Parameters Included
Irrigation	<input type="checkbox"/> \$xxx	EC, pH, NO ₃ -N, SO ₄ , Cl, Ca, Mg, Na, K, Fe, Mn, B, TDS, Alkalinity, Hardness, Sodium Adsorption Ratio (SAR), Aggressive Index
Domestic	<input type="checkbox"/> \$xxx	EC, pH, NO ₃ -N, SO ₄ , F, Ca, Mg, Na, Fe, Mn, Pb, As, U, TDS, Hardness, Total Coliforms, <i>E. coli</i>
Livestock & Poultry	<input type="checkbox"/> \$xxx	EC, pH, NO ₃ -N, SO ₄ , Cl, Ca, Mg, Na, K, Fe, Mn, Pb, As, TDS, Hardness
Fish Pond	<input type="checkbox"/> \$xxx	EC, pH, NO ₃ -N, NO ₂ -N, F, Cl, SO ₄ , PO ₄ , NH ₄ -N, Ca, Mg, Na, K, Fe, Mn, Pb, As, TDS, Alkalinity, Hardness
Brewers Water Test	<input type="checkbox"/> \$xxx	EC, pH, NO ₃ -N, SO ₄ , Ca, Mg, K, Na, Cl, Fe, TDS, Hardness, Alkalinity, Carbonate, Bicarbonate
Wine Water Test	<input type="checkbox"/> \$xxx	Turbidity, pH, Ca, Fe, Mn, Al, Si, Alkalinity, Carbonate, Hardness
Hydroponic Test	<input type="checkbox"/> \$xxx	EC, pH, NH ₄ -N, NO ₃ -N, SO ₄ , B, Ca, Mg, Na, Cu, Fe, Mn, Mo, Zn, TN, TP, Alkalinity, Carbonate, Bicarbonate

Additional Charges for Sample Preparation:

- \$9 Total acid digestion for ICP-OES and ICP-MS \$4 Water filtration with 0.45 μm Filter
 \$1.75 Water filtration with Coarse Filter