

# Water Quality Laboratory

Kansas State University

[www.k-state.edu/engagement/interdisciplinary-institutes/water-institute/wq-lab/](http://www.k-state.edu/engagement/interdisciplinary-institutes/water-institute/wq-lab/)

**KANSAS STATE**  
**UNIVERSITY**

Kansas Water Institute

## Sample Submittal Form – Water - INTERNAL 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"/> \$4 pH   | <input type="checkbox"/> \$12 Trace Elements on ICP-MS/MS* ( <input type="checkbox"/> Al, <input type="checkbox"/> As, <input type="checkbox"/> 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"/> 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"/> Zn) |
| <input type="checkbox"/> \$4 Conductivity (EC)  | <input type="checkbox"/> \$14 (1 <sup>st</sup> Anion) or \$21(All) Full Anions Suite on IC<br><input type="checkbox"/> F, <input type="checkbox"/> Cl, <input type="checkbox"/> NO <sub>2</sub> -N, <input type="checkbox"/> SO <sub>4</sub> , <input type="checkbox"/> Br, <input type="checkbox"/> NO <sub>3</sub> -N, <input type="checkbox"/> PO <sub>4</sub>   |
| <input type="checkbox"/> \$9 Alkalinity as CaCO <sub>3</sub>  | <input type="checkbox"/> \$14 (1 <sup>st</sup> element) or \$20 (all) Full Cations Suite on IC<br><input type="checkbox"/> Na, <input type="checkbox"/> NH <sub>4</sub> , <input type="checkbox"/> K, <input type="checkbox"/> Mg, <input type="checkbox"/> Ca, <input type="checkbox"/> Sr   |
| <input type="checkbox"/> \$7 Hardness (calculated from Ca and Mg)   | <input type="checkbox"/> \$8 Total P & N  |
| <input type="checkbox"/> \$8 Turbidity  | <input type="checkbox"/> \$xx Total Kjeldhal N (TKN)  |
| <input type="checkbox"/> \$4 Total Dissolved Solids (TDS)   | <input type="checkbox"/> \$2 (1 <sup>st</sup> element) and \$1.25 (each add'l) Major<br>Elements on ICP-OES ( <input type="checkbox"/> Ca, <input type="checkbox"/> Mg, <input type="checkbox"/> Na, <input type="checkbox"/> K,<br><input type="checkbox"/> Zn, <input type="checkbox"/> Fe, <input type="checkbox"/> Cu, <input type="checkbox"/> Mn, <input type="checkbox"/> S)   |
| <input type="checkbox"/> \$3.25 Total Suspended Solids (TSS)  |   |
| <input type="checkbox"/> \$xx Dissolved Organic Carbon (DOC)  |   |
| <input type="checkbox"/> \$xx Total Organic Carbon (TOC)  |   |
| <input type="checkbox"/> \$xx Biological Oxygen Demand (BOD)  |   |
| <input type="checkbox"/> \$xx Chemical Oxygen Demand (COD)  |   |
| <input type="checkbox"/> \$2 (both \$3.25) <input type="checkbox"/> Dissolved NO <sub>3</sub> -N or <input type="checkbox"/> NH <sub>4</sub> -N |   |
| <input type="checkbox"/> \$1.75 Dissolved Ortho-P (colorimetric)  |   |

- \$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:

- \$218 PFAS - EPA 1633  \$82 PFAS Direct Injection
- \$97.50 Microplastics (Clear water)
- \$xxx Agricultural Herbicides/Insecticides
- \$xxx Atrazine Metabolites
- \$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)

- \$30 Quantifying Coliforms
- \$30 Quantifying Enterococci
- \$40 Isolation of Salmonella and PCR confirmation
- \$40 Isolation of Listeria and PCR confirmation
- \$30 Quantifying *E. coli*
- \$30 Quantifying *Pseudomonas aeruginosa*
- \$40 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 <sub>3</sub> -N, SO <sub>4</sub> , 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 <sub>3</sub> -N, SO <sub>4</sub> , 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 <sub>3</sub> -N, SO <sub>4</sub> , Cl, Ca, Mg, Na, K, Fe, Mn, Pb, As, TDS, Hardness
Fish Pond	<input type="checkbox"/> \$xxx	EC, pH, NO <sub>3</sub> -N, NO <sub>2</sub> -N, F, Cl, SO <sub>4</sub> , PO <sub>4</sub> , NH <sub>4</sub> -N, Ca, Mg, Na, K, Fe, Mn, Pb, As, TDS, Alkalinity, Hardness
Brewers Water Test	<input type="checkbox"/> \$xxx	EC, pH, NO <sub>3</sub> -N, SO <sub>4</sub> , 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 <sub>4</sub> -N, NO <sub>3</sub> -N, SO <sub>4</sub> , B, Ca, Mg, Na, Cu, Fe, Mn, Mo, Zn, TN, TP, Alkalinity, Carbonate, Bicarbonate

### Additional Charges for Sample Preparation:

- \$7 Total acid digestion for ICP-OES and ICP-MS
- \$1.25 Water filtration with Coarse Filter
- \$2.75 Water filtration with 0.45  $\mu\text{m}$  Filter