



**BUSINESS OF THE CITY COUNCIL
YAKIMA, WASHINGTON
AGENDA STATEMENT**

Item No. 7.F.
For Meeting of: June 4, 2024

ITEM TITLE: Resolution authorizing the Sole Source purchase of an Ion Chromatograph from Metrohm USA, Inc. for the City of Yakima Wastewater Treatment Plant Laboratory

SUBMITTED BY: Susan Knotts, Buyer II, Purchasing
*Mike Price, Wastewater Manager

SUMMARY EXPLANATION:

The WWTP Lab conducted a web search for equipment capable of providing full resolution of fluoride, chloride, nitrite, nitrate, ortho-phosphate in EPA Method 300.0 for required nutrient analysis. A search on Lab Compare for "Ion Chromatography Instrument" yielded 12 possible products, from three companies, 1) Metrohm USA, 2) Thermo Fisher Scientific, and 3) Shimadzu Instruments.

Upon reviewing the specifications for each of the instruments, it was determined that the Metrohm Ion Chromatograph is the only instrument that provides the unique combination of in-line ultra-filtration and an anion chemical suppressor, which uses four times less eluent and requires no replacement of costly consumable cartridges. The competitors require hand-filtration of samples through 0.45 um syringe filters and replacement of consumable column traps. The Metrohm instrument's chemical anion suppressor is significantly more cost effective to use because it lasts 3-5 years with free replacement under the 10-warranty, whereas the competitors' electrolytic anion suppressor only last 6 months to a year. In addition, the Metrohm instrument also comes with a sequential suppression which further lowers detection limits and provides a 30% increase in sensitivity. The Metrohm instrument also comes with intuitive software that is familiar, which eliminates further training cost, and as it replaces an instrument from the same manufacturer, some parts from the previous ion chromatograph's autosampler would be available as a back-up, if necessary.

ITEM BUDGETED: Yes

STRATEGIC PRIORITY: Public Safety

RECOMMENDATION: Adopt Resolution.

ATTACHMENTS:

[Resolution_IonChromatographSoleSource_WWTP.docx](#)
[SoleSourceForm_IonChromatograph](#)
[SoleSource_IonChromatograph_SupportDoc's.pdf](#)