

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: October 8, 2014

Board Item: II-A-5

Replacement Laboratory Equipment: ICP-MS

Action by Consent

Action

Information

The Water Quality Laboratory (WQL) is seeking approval to purchase an inductively coupled plasma mass spectrometer (ICP-MS) instrument. This instrument is used to analyze water for trace metal content as part of Denver Water's source water and drinking water monitoring programs, such as, compliance monitoring for the EPA Lead and Copper Rule. The instrument is used weekly, performing approximately 28,000 analyses each year.

The WQL's current ICP-MS is two years past its expected service life. The ICP-MS has hardware and software components that the manufacture is no longer producing or supporting. The WQL staff evaluated four manufacturers of ICP-MS instruments and selected the Agilent 7900 model based on specifications. The Agilent 7900 model best suits the WQL's requirements to effectively analyze different types of water samples for trace metal content.

The purchase of a new ICP-MS was planned for in the 2014 budget. The amount budgeted for the instrument is \$180,000.00. The quote from Agilent is at \$163,354.38.

Recommendation:

The WQL requests that the Board approve the expenditure of \$163,354.38 for an Agilent 7900 model ICP-MS.

Approvals:



Tom J. Roode
Director of Operations and Maintenance

Respectfully submitted,



James S. Lochhead
CEO/Manager



Terri Bryant
Controller