

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: October 8, 2014

Board Item: II-B-3

Tabulation of Bids for the North System
Renewal Water Treatment Plant Pilot Test Equipment
Contract 15625A

Action by Consent Action Information

Denver Water (DW) plans to purchase water treatment plant pilot test equipment to be used as part of the North System Renewal Water Treatment Plant (NSRWTP) Program. The equipment will be used to conduct pilot testing of different water treatment processes to establish design criteria for the full-scale implementation of the NSRWTP, and as part of this project, to collect operational and water quality data to support regulatory approval of a higher filter loading rate, above the Colorado Department of Health and Environment (CDPHE) established design criteria. Obtaining a waiver from the CDPHE for use of a higher filter loading rate, than which is conservatively regulated, could reduce ultimate facility capital cost by approximately \$30 million. The selected pilot test equipment will be installed by DW's Shops and plant staff.

The pilot equipment will also be used in various future projects to optimize treatment processes at DW's four treatment plants. For example, the pilot system will allow testing to evaluate how different pre-oxidants impact coagulation and filtration performance, which is important in the event of future deteriorating water quality. The pilot equipment will also be used for research collaborations with other utilities and colleges.

A Request for Interest (RFI) letter with bid requirements and schedule for the fabrication and provision of pilot equipment, was sent to five reputable firms known to have manufactured water treatment process pilot equipment. Of the five firms, only three firms responded that they were capable of meeting bid requirements and schedule, and were interested in bidding. Invitations to Bid were sent to these three approved firms. DW received one bid from Intuitech, Inc., which was evaluated based on a number of criteria including purchase price, ability to meet submittal, shop drawing and equipment delivery milestones, and bidder's experience manufacturing pilot plant equipment.

The 2014-2015 Capital Improvements Plan (MPC 1CE0065) includes sufficient funds for this project.

A Minority and Women Business Enterprise (MWBE) goal was not established for this portion of this project because of the specialty nature of the equipment. MWBE rapid mix, flocculation, inclined plate clarification, and deep-bed dual granular media filtration goals will be established for the engineering and construction contracts.

Recommendation

It is recommended that the Board approve Contract 15625A to Intuitech, Inc. for the North System Renewal Water Treatment Plant Pilot Test Equipment, for the term October 8, 2014 to August 30, 2015, in the amount of \$368,280.00.

Budget Considerations

Master Plan Code(s): 1CE0065

Budgeted Item Unbudgeted Item Funds transferred from another project:

Budget Information

Table with 2 columns: Budget Item, Amount. Rows include 2014-2015 Budget, Amount Requested This Item, YTD Expenditures, Additional Expenditures Anticipated, Revised 2014-2015 Estimate, and Variance Required.

Approvals:

for Robert J. Mahoney, Director of Engineering; Thomas J. Ropde, Director of Operations and Maintenance

Respectfully submitted, James S. Lochhead, CEO/Manager; Terri Bryant, Controller