



DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-G
Meeting Date: February 26, 2019
Chairperson's Signature Yes No

AGENDA ITEM FORM

SUBJECT: 2019 Well Rehabilitation – Maffitt Reservoir

SUMMARY:

- In January 2019, the Board of Water Works Trustees authorized staff to solicit bids for the 2019 Well Rehabilitation – Maffitt Reservoir project. The Public Hearing was established as the date of the February 2019 Board meeting.
- The scope of work for the Base Bid portion of this project consists of cleaning the well screens in radial collector Well 3.
- Well screens require periodic maintenance to remove materials that plug the well screens and the aquifer surrounding the well screens. These materials are generally incrustations that form from the precipitation of calcium and magnesium carbonates and iron and manganese compounds that are naturally present in the groundwater. It is also suspected that slime produced by naturally-occurring iron-related bacteria has formed around the well screens.
- It is intended this cleaning will restore much of Well 3's ability to produce raw water for the McMullen Water Treatment Plant.
- In addition to the Base Bid, an alternate bid, Alternate 1, was solicited for cleaning the well screens in radial collector Well 4.
- Plans, specifications, and contract documents were taken out by two prospective bidders. Both prospective bidders submitted bids which were opened on February 19, 2019. Following is the summary of the bids received:

<u>Bidder</u>	<u>Total Base Bid</u>	<u>Alternate 1</u>	<u>Base Bid + Alternate 1</u>
Layne Christensen Company	\$224,236	\$214,986	\$439,222
Building Crafts, Inc.	\$294,896	\$261,358	\$556,254

- The engineer's estimate for the Base Bid portion of the contract for rehabilitation of one radial collector well is \$205,000. The engineer's estimate for rehabilitation of both radial collector wells (Base Bid plus Alternate 1) is \$390,000.
- The low bids were submitted by Layne Christensen Company.
- Layne Christensen Company specializes in construction of new radial collector wells and rehabilitation and maintenance of existing radial collector wells. In the last five years, Layne has completed over thirty well rehabilitation projects with a scope of work like that of the 2019 Well Rehabilitation – Maffitt Reservoir project.
- Staff recommends the Board award a contract to Layne Christensen Company for the Base Bid – Well 3 Rehabilitation in the amount of \$224,236.

FISCAL IMPACT:

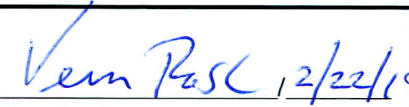
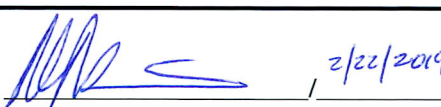
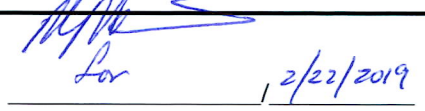
Funds for this project will come from the Maffitt Reservoir Well Rehabilitation Work Plan which has a budget of \$400,000.

RECOMMENDED ACTION:

Award the 2019 Well Rehabilitation – Maffitt Reservoir contract to Layne Christensen Company for the Base Bid – Well 3 Rehabilitation in the amount of \$224,236.

BOARD REQUIRED ACTION:

- Public Hearing – Opened by Chairperson for comments from the public regarding the form of contract, plans and specifications, and estimated cost. Chairperson closes hearing.
- Motion for adoption of form of contract, plans and specifications, and estimated cost.
- Analysis of bids received.
- Award the 2019 Well Rehabilitation – Maffitt Reservoir contract to Layne Christensen Company for the Base Bid – Well 3 Rehabilitation in the amount of \$224,236 and authorize the Chairperson and the CEO and General Manager to execute the contract.

 Vern Rash, P.E., L.S. (date) 2/22/19 Project Manager	 Michael J. McCurnin, P.E. (date) 2/22/2019 Engineering Services Manager	 William G. Stowe (date) 2/22/2019 CEO and General Manager
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Attachments: none