



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 28, 2019

ITEM NO: 5

SUBJECT: BID NO. RPU-7695 FOR CONSTRUCTION OF FY2019-20 GROUNDWATER WELL REHABILITATION PROJECT WITH LAYNE CHRISTENSEN COMPANY IN THE AMOUNT OF \$578,678.57; WORK ORDER NO. 1921584 FOR FLUME 7 WELL IN THE AMOUNT OF \$318,000; AND WORK ORDER NO. 1921585 FOR GAGE 31-1R WELL IN THE AMOUNT OF \$449,000 – TOTAL PROJECT COST OF \$767,000

ISSUES:

Award Bid No. RPU-7695 for construction of the FY2019-20 Groundwater Well Rehabilitation Project to Layne Christensen Company, of Redlands, California, in the amount of \$578,678.57; approve the capital expenditures for Work Order No. 1921584 for the Flume 7 Well in the amount of \$318,000; and approve the capital expenditures for Work Order No. 1921585 for the Gage 31-1R Well in the amount of \$449,000 for a total project cost of \$767,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award Bid No. RPU-7695 for the construction of the FY2019-20 Groundwater Well Rehabilitation Project to Layne Christensen, of Redlands, California, in the amount of \$578,678.57;
2. Approve the capital expenditures for Work Order No. 1921584 in the amount of \$318,000, which include all design, construction, contract administration, inspection, and construction change order authority costs for rehabilitating the Flume 7 Well;
3. Approve the capital expenditures for Work Order No. 1921585 in the amount of \$449,000 which include all design, construction, contract administration, inspection, and construction change order authority costs for rehabilitating the Gage 31-1R Well; and
4. Authorize the City Manager, or designee, to execute construction agreements and any other documents necessary to effectuate the project described herein, as well as, the ability to make minor non-substantive changes including changes to each of the work order amounts not-to exceed the cumulative project total of \$767,000 and in accordance with all purchasing policies.

BACKGROUND:

The Riverside Public Utilities Department (RPU) operates and maintains 52 active groundwater wells located throughout Riverside, Colton, and San Bernardino to supply drinking water to the City of Riverside. Over time, wells lose efficiency. Most often, this drop in efficiency is due to mechanical problems such as the gravel pack and screens within the well becoming plugged or pumps losing efficiency due to wear and

tear. Other times, wells become less efficient due to large changes in groundwater levels. As a result, groundwater wells and pump assemblies require periodic maintenance and rehabilitation work.

DISCUSSION:

On June 21, 2013, the Board of Public Utilities (Board) approved a Professional Services Agreement with Geoscience Support Services, Inc. (Geoscience) to evaluate RPU's groundwater wells based on construction technique, physical inspection, and operational characteristics and to identify and rank the rehabilitation needs for each well. Staff utilized recommendations from the report prepared by Geoscience along with current operational data and needs to select groundwater wells to undergo rehabilitation work during FY 2019-20. The two (2) wells decided on are Flume 7 and Gage 31-1R.

The rehabilitation work on each well is planned to be staggered in order to minimize operational disruptions to the water system.

The general scope of work for rehabilitating each well includes removal and inspection of the pumping equipment, repair or replacement of pumping components, as needed, adjustment of the pump depth, video surveys, mechanical and chemical cleaning, and well redevelopment work and testing.

The contract documents allow the contractor to work during extended hours if needed to complete the work by the required deadline and will not affect service to RPU water customers. As such, the inspection budget for this project is enhanced to allow for extended inspection hours.

Bid No. RPU-7695 was posted on the City's Online Bid System on September 12, 2019, a pre-bid conference was held on September 17, 2019 and bids were opened on September 27, 2019. Four (4) construction contractors submitted bids. Staff evaluated the bids and deemed Layne Christensen Company as the lowest responsive and responsible bidder. The bid was within the engineer's estimated amount of \$691,000.

The bids for Bid No. RPU-7695 are summarized in the table below:

Rank	Vendors	City Location	Bid Total
1	Layne Christensen Company	Redlands, CA	\$578,678.57
2	Weber Water Resources	Corona, CA	\$683,100.68
3	Best Drilling and Pump, Inc.	Colton, CA	\$688,720.00
4	Zim Industries, Inc.	Bakersfield, CA	\$705,288.01

➤ *Engineer's Construction Cost Estimate:*

\$691,000

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown		W.O. No. 1921584 (Flume 7)	W.O. No. 1921585 (Gage 31-1R)	Total Project
Work Type:	Performed By:	Amount:	Amount:	Amount:
Planning and Design	Internal Staff	\$10,146.94	\$10,306.49	\$20,453.43
Construction	Layne Christensen Company	\$229,866.06	\$348,812.51	\$578,678.57
Construction Support	Internal Staff	\$10,000	\$10,000	\$20,000
Engineering Support, Construction Management and Inspection	Internal Staff	\$35,000	\$35,000	\$70,000
Hydrogeologist Services	Vendor to be Determined (Consultant Panel)	\$10,000	\$10,000	\$20,000
Construction Contingencies	N/A	\$22,987	\$34,881	\$57,868
Work Order Totals:		\$318,000	\$449,000	\$767,000
Reimbursements:	None			
Anticipated Start Date:	November 2019			
Anticipated Duration:	5 months			

The table above identifies the parties that have performed and are expected to perform various portions of the project. For brevity, certain contracts with vendors valued at less than \$10,000 have not been itemized in the table. Should there be a need to seek additional services using the formal procurement process, such items in excess of \$50,000 will be brought before the Board for consideration and action.

In order to more accurately track costs, staff requests that individual work orders be assigned to each well (the asset) and that the City Manager, or his designee, approve adjustments to each individual work order to reflect actual costs, so long as the cumulative total does not exceed the total project cost of \$767,000.

The Purchasing Manager concurs that the recommended actions are in compliance with Purchasing Resolution No. 23256.

FISCAL IMPACT:

Sufficient funds in the amount of \$767,000 are available in the Public Utilities' Facility Rehabilitation Account No. 6230100-470803.

Prepared by: Todd L. Jorgenson, Utilities Assistant General Manager/Water
 Approved by: Todd M. Corbin, Utilities General Manager
 Approved by: Al Zelinka, FAICP, City Manager
 Approved as to form: Gary G. Geuss, City Attorney

Certifies availability of funds: Brian Seinturier, Utilities Fiscal Manager

Attachments:

1. Site Map
2. BID Award Recommendation
3. Presentation