



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: APRIL 24, 2017

ITEM NO: 7

SUBJECT: PROFESSIONAL CONSULTANT SERVICES AGREEMENT WITH KENNEDY/JENKS CONSULTANTS OF IRVINE, CALIFORNIA, FOR DEVELOPMENT OF A WATER SYSTEM HYDRAULIC MODEL FROM REQUEST FOR PROPOSAL NO. DSM0002 – IN THE AMOUNT OF \$200,810

ISSUES:

Approve the Professional Consultant Services Agreement with Kennedy/Jenks Consultants of Irvine, California, for the Development of a Water System Hydraulic Model for Riverside Public Utilities in the amount of \$200,810.

RECOMMENDATIONS:

That the Board of Public Utilities:

- 1 Approve the Professional Consultant Services Agreement with Kennedy/Jenks Consultants of Irvine, California, for the Development of a Water System Hydraulic Model for Riverside Public Utilities in the amount of \$200,810; and
- 2 Authorize the City Manager or his designee to execute the Professional Consultant Services Agreement with Kennedy/Jenks Consultants of Irvine, California.

BACKGROUND:

Riverside Public Utilities (RPU) owns and operates a complex water system that contains approximately 920 miles of pipeline, 40 booster stations, 54 potable wells, and 16 reservoirs. Key operational and infrastructure planning decisions require utilization of a robust and well-calibrated computerized hydraulic model that correctly simulates RPU's water system.

RPU's original hydraulic model was built in 2004 as part of the 2005 Water System Master Plan. In 2009, RPU staff updated the hydraulic model with new facilities and recalibrated the hydraulic model for 2009 demand conditions. The California drought and State's conservation mandates have changed the demand conditions significantly from 2009. Staff is unable to rely on the current hydraulic model for operational and infrastructure planning due to deviations between the hydraulic model results and the field data. Updating the current model will not be cost effective as the underlying Geographic Information System's data and technology have changed substantially. Building a new hydraulic model is a more prudent option. On December 18, 2016, RPU issued a request for proposal (RFP) No. DSM0002 and received six proposals before the deadline of submission on January 12, 2017.

Staff evaluated and shortlisted three consultants for interviews following the selection criteria outlined in the RFP. Kennedy/Jenks Consultants were selected as the most qualified team to perform the work based on their qualifications, experience, project approach, and ability to meet the project timeline at a fair and reasonable cost.

TABLE #1: Proposal Results After Interviews

No.	Consultant	City
1	Kennedy/Jenks Consultants	Irvine
2	WSC	San Diego
3	Carollo	Riverside
N/A	Black & Veatch	Irvine
N/A	IDModeling	Arcadia
N/A	West Yost	Irvine

The following table illustrates the timeline for the project breakdown with major milestones:

TABLE #2: Project Timeline

No.	Description	Timeframe
1	Project Start	April 2017
2	Data Collection	June 2017
3	Model Development	September 2017
4	Model Calibration	January 2018
5	Project Complete	March 2018
6	On-Going Support & Training	March 2018 – September 2018

The Purchasing Services Manager concurs that the recommended actions comply with the City of Riverside's Purchasing Resolution No. 22576.

A Professional Consultant Services Agreement has been negotiated with Kennedy/Jenks Consultants for the project in the amount of \$200,810.

FISCAL IMPACT:

The not-to-exceed contract price is \$200,810. Sufficient funds are available in the Public Utilities' Professional Services Account No. 6210000-421000.

Prepared by: Todd L. Jorgenson, Utilities Assistant General Manager/Water
 Approved by: Girish Balachandran, Utilities General Manager
 Approved by: John A. Russo, City Manager
 Approved as to form: Gary G. Geuss, City Attorney
 Certifies availability of funds: Laura Chavez-Nomura, Utilities Assistant General Manager/Finance

Attachment:

1. Professional Consultant Services Agreement with Kennedy/Jenks Consultants
2. Presentation