



Agenda Report

Fullerton City Council

MEETING DATE: SEPTEMBER 18, 2018

TO: CITY COUNCIL / SUCCESSOR AGENCY

SUBMITTED BY: KENNETH A. DOMER, CITY MANAGER

PREPARED BY: DONALD K. HOPPE, DIRECTOR OF PUBLIC WORKS
HYE JIN LEE, WATER SYSTEM MANAGER / ASSISTANT CITY ENGINEER
TIFFANY FOO, ASSOCIATE ENGINEER

SUBJECT: NEW WELL 7A CONSTRUCTION, WELL 7 DESTRUCTION, AND PIPELINE ASSESSMENT: ENGINEERING / HYDROGEOLOGIST CONSULTANT SERVICES AWARD

SUMMARY

Award a consultant contract to provide professional hydrogeological / engineering design services related to the construction of Well 7A, destruction of the existing Well 7 and pipeline assessment project at the Main Plant.

RECOMMENDATION

Authorize the Director of Public Works to execute an agreement, in a form approved by the City Attorney, with Hazen and Sawyer in the amount of \$224,015 for professional hydrogeological / engineering services for the installation of new Main Plant Well 7A, destruction of Well 7 and on-site pipeline replacement and upgrades.

PRIORITY POLICY STATEMENT

This item matches the following Priority Policy Statement:

- Infrastructure and City Assets.

FISCAL IMPACT

The consultant's fee for this work is \$224,015 to be funded by Project 53005, Water Well Replacement Program (Water Fund).

DISCUSSION

The City of Fullerton owns and operates the “Main Plant” water production site located in Anaheim. The Main Plant is five acres that consist of six water wells, five active and one offline. Well 7 has been offline / inactive status since April 2014 due to water quality and production challenges.

The project scope includes destruction of the existing shallow Well 7 and construction of a new, deep water well. This will augment the utility’s ability to maximize the production of the less expensive groundwater supply. In addition, one of the water distribution pipelines delivering water to the City has experienced seven main breaks in the last decade while another has not been rehabilitated since its original installation, around 1910. Both of these pipelines will be assessed to determine the scope of necessary replacements.

Engineering staff solicited professional hydrogeological and engineering consulting services for Well 7A construction, Well 7 destruction and pipeline assessment. The requested services listed in the Request for Proposals were split into three phases:

- Phase 1: Well Drilling and Abandonment

Phase 1 includes the following tasks: a) review of existing Main Plant conditions, b) preparation of documents for regulatory compliance, c) identification of hydrogeological impacts, d) projected water quality properties and e) pumping capacity of the new Well 7A. The consultant will prepare the documents required to issue a bid for well drilling and well destruction. The consultant will provide construction support services during these activities.

- Phase 2: Well Equipping and Distribution Pipeline Assessment

Phase 2 includes a hydraulic analysis of the new well capacity and its effect on the distribution network, system integration and existing pipeline condition.

- Phase 3: New Well Equipment and Distribution Pipeline Design

The final Phase 3 scope will be finalized at the completion of Phase 2. The fee for this work will be negotiated with the consultant at that time. In general, the final design will include final plans, specifications and estimates for the new well pump equipment and distribution pipeline rehabilitation, along with construction support services.

In July, engineering staff issued a Request for Professional Engineering Services Proposal to seven firms based on previous contacts of interest:

- Albert A. Webb Associates
- CDM Smith, Inc.
- Hazen and Sawyer
- LEE & RO, Inc.,
- Michael Baker International, Inc.,

- Stantec Inc.,
- Tetra Tech, Inc.

Of these seven firms, four firms submitted proposals, as listed below:

<u>Consultants Proposals</u>	<u>Fees</u>
1. Albert A. Webb Associates	\$273,775
2. Hazen and Sawyer	\$223,245
3. Stantec Inc.	\$271,384
4. Tetra Tech, Inc.	\$260,000

Based on initial review, staff invited the top two scoring firms (Hazen and Sawyer and Albert A. Webb Associates) to participate in a supplemental interview process. After the interview, engineering staff unanimously agreed that the Hazen and Sawyer team presented the most comprehensive approach to the scope of services and possessed more experience with local agencies.

After negotiations and changes in scope, the fee for Hazen and Sawyer's services is \$224,015.

Engineering design is expected to be completed in February 2019 with Phase 1 well construction and Phase 2 investigation expected to occur between March 2019 and August 2019.

Attachments:

- Attachment 1 – Vicinity Map
- Attachment 2 – Agreement (Draft)