ORIGINATING SECTION: Integrated Planning
CONTACT: Wes Mercado/Amparo Flores
AGENDA DATE: March 18, 2020

SUBJECT: Award of Contract for Conjunctive Use Study and Water Supply Evaluation Update

SUMMARY:

As part of Zone 7’s mission to provide a reliable supply of high-quality water, Zone 7 is pursuing future water supply and storage alternatives. The purpose of the Conjunctive Use Study is to understand the operational impacts of future water supply and storage alternatives, including how they may shift Zone 7’s use of the groundwater basin. In this case, the term conjunctive use broadly means the coordinated use of all available water supplies, including local and imported surface water, groundwater, and alternative sources, such as desalinated water, potable reuse, etc. The study will support the Water Supply Evaluation Update by providing a more complete estimate of costs for any given water supply portfolio.

The Conjunctive Use Study will begin with a review of Zone 7’s existing and future potential water supply sources, including the associated water rights, water yield, water quality, timing of when they are available, permit restrictions, point of entry into Zone 7’s water system, and other factors. The operational impacts of these various sources on the water transmission system, groundwater recharge activities, percentage use of surface water versus groundwater supplies, surface water storage (both locally and remotely), use of surface water treatment plants versus wells, salt management in the groundwater basin, delivered water quality, and other areas will then be evaluated. The study will provide more information on the benefits and challenges of the alternatives and identify any associated infrastructure and operational improvements they may require.

The findings from the study will be incorporated into the 2021 Water Supply Evaluation Update, which will present the state of Zone 7’s water supply, its supply-related risks, and options to ensure reliability for the future. The 2021 Water Supply Evaluation Update, along with the regional demand study in progress, will be used to develop the 2020 Urban Water Management Plan that Zone 7 is required to submit to the Department of Water Resources by July 1, 2021. The last update was completed in the spring of 2019; updated or new information on water reliability projects (e.g., Delta Conveyance, Sites Reservoir, Los Vaqueros Reservoir Expansion), local supply, State Water Project delivery capability, conservation regulations, and regional demands will also need to be incorporated. Therefore, developing an accurate understanding of water supply and storage alternatives is critical because of the risks to water supply and potential large investments required. The above efforts will help inform future Board decisions on these alternatives, and also inform the public about the Tri-Valley’s water supply.
In February 2020, a request for letter proposals was issued for the Conjunctive Use Study and 2021 Water Supply Evaluation Update. The request was sent to four firms with experience in conjunctive use analysis and water supply planning determined through a formal Request for Qualifications (RFQ) process initiated in June 2019; the four firms are on the list of eligible consultants approved by the Board as part of the RFQ process. Three of the firms submitted proposals: EKI Environment and Water, Inc. (EKI); HDR Engineering, Inc.; and Woodard & Curran, Inc. While every firm submitted a proposal that meets the project’s requirements, the staff review panel is recommending selection of EKI for the following reasons: comprehensive scope of work that clearly outlines Zone 7’s needs and how they will be addressed, and the technical expertise and project experience of the project team.

The project’s scope of work includes: a) project management, b) information collection and review, c) analysis of operational impacts of different water supply portfolios, d) review of Zone 7’s water supply risk model, e) assessment of Zone 7’s water supply options, and f) recommendations, reports, and presentations. The work is expected to be completed by late 2020/early 2021 to support development of the 2020 Urban Water Management Plan and other efforts. An optional task has been included in the budget to cover the development of a new modeling tool, depending on the results of the review of Zone 7’s existing model. The new model is intended to integrate long-term planning with near-term operations planning at a monthly level to better capture monthly variations of water supply availability.

EKI’s proposed total budget is approximately $330,000, including $130,000 for the optional model development. As shown in the table below, adding ten percent contingency results in a maximum amount of $363,000. Given that these studies address the current and future state of the water system, funding is recommended to be split in proportion to current and future demand, or 80% Fund 100 and 20% Fund 130.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conjunctive Use Study &amp; 2021 Water Supply Evaluation Update</td>
<td>$200,000</td>
</tr>
<tr>
<td>OPTIONAL: Development of New Model</td>
<td>$130,000</td>
</tr>
<tr>
<td>TOTAL PROPOSED BUDGET</td>
<td>$330,000</td>
</tr>
<tr>
<td>10% Contingency</td>
<td>$33,000</td>
</tr>
<tr>
<td>TOTAL NOT-TO-EXCEED</td>
<td>$363,000</td>
</tr>
</tbody>
</table>
Staff recommends authorizing the General Manager to negotiate and execute a contract with EKI to complete the Conjunctive Use Study and 2021 Water Supply Evaluation Update in an amount not to exceed $363,000.

**FUNDING**

Funding will be 80% Fund 100 (Water Enterprise Fund) and 20% Fund 130 (Water Expansion Fund). Funding is available in the FY 19-20 amended budget for the study and the optional task of developing a new model will be included in the FY 20-21 budget to be presented to the Board in May 2020.

**RECOMMENDED ACTION:**

Adopt attached Resolution

**ATTACHMENT:**

Resolution
ZONE 7
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
BOARD OF DIRECTORS

RESOLUTION NO.

INTRODUCED BY
SECONDED BY

Award of Contract for Conjunctive Use Study and Water Supply Evaluation Update

WHEREAS, as part of Zone 7’s mission to provide a reliable supply of high-quality water, Zone 7 is pursuing future water supply and storage alternatives; and

WHEREAS the Conjunctive Use Study and 2021 Water Supply Evaluation Update will support water supply planning efforts and inform future Board decisions on these alternatives; and

WHEREAS, Zone 7 has used the Board-approved list of qualified firms in the procurement of professional services based on qualifications and experience; and

WHEREAS, EKI has been found to be well-qualified to complete the Conjunctive Use Study and 2021 Water Supply Evaluation Update.

NOW, THEREFORE, BE IT RESOLVED that the Zone 7 Board of Directors hereby authorizes the General Manager to negotiate and execute a contract with EKI to complete the Conjunctive Use Study and 2021 Water Supply Evaluation Update in an amount not to exceed $363,000, which includes a ten percent contingency.

BE IT FURTHER RESOLVED that the Zone 7 Board of Directors hereby authorizes funding of this contract 80% from Fund 100 (Water Enterprise Fund) and 20% from Fund 130 (Water Expansion Fund).

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSENT:

ABSTAIN:

I certify that the foregoing is a correct copy of a Resolution adopted by the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District on March 18, 2020.

By____________________________________
President, Board of Directors