



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: November 17, 2009

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Contract For Design Of The Ortega Groundwater Treatment Plant Rehabilitation Project

RECOMMENDATION: That Council:

- A. Authorize the Public Works Director to execute a professional services agreement with Carollo Engineers, Inc. (Carollo), in an amount not to exceed \$708,000, for final design of the Ortega Groundwater Treatment Plant (OGTP) Rehabilitation Project (Project); and
- B. Authorize the Public Works Director to approve extra services for Carollo that may result from necessary changes in the scope of work for a total amount not to exceed \$70,000.

DISCUSSION:

The City's groundwater supplies are an important part of the City's overall water supply. They help meet peak summer water demands and supplement depleted surface water supplies during droughts. Groundwater supplies also serve as an emergency source in the event of catastrophic interruption of the supplies from the Santa Ynez River and the State Water Project. Additionally, groundwater supplies could be used to assist the City's compliance with stricter drinking water quality regulations that will be effective by 2012.

The existing Ortega Groundwater Treatment Plant (OGTP) was constructed in the 1970's to treat high levels of naturally occurring iron and manganese in groundwater pumped from the four downtown area wells at Ortega Park, the Corporation Yard, Vera Cruz Park, and City Hall. These wells provide approximately 50% of the City's overall groundwater pumping capacity. The OGTP and four wells played an important water supply role during the drought of the late 1980's. Currently, the OGTP and four downtown wells are in need of significant rehabilitation in order for them to once again become an important part of the City's water supply.

The proposed Project is the culmination of previous investigations by Carollo to define the work required for the OGTP and wells to reliably produce and treat up to three million gallons of groundwater per day for the City's distribution system. Carollo's previous work

included a pre-design investigation and extensive pilot project that determined the best treatment scheme for the OGTP.

Carollo has submitted an acceptable proposal in the amount of \$708,000 for final design to rehabilitate the OGTP and the four wells. Their scope includes refurbishing the existing pressure vessels and storage tank and improving the related pumping and collection systems. Rehabilitation work targeted for the wells includes various amounts of well structure improvements and upgrades to existing electrical, piping, and pumping systems. Staff is recommending approval of \$70,000 to cover any additional, unforeseen costs associated with the Project.

Costs associated with final design and construction are listed below:

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|--|---------------------|
| Carollo's Design Services | \$ 708,000 |
| Change Order Authority | \$ 70,000 |
| City Engineering Support Services | \$ 40,000 |
| *Permitting/Environmental Review | \$ 37,000 |
| Sub-Total for Design Costs | \$ 855,000 |
| *Construction Contract | \$ 8,500,000 |
| *Consultant Engineering Support Services | \$ 275,000 |
| *City Engineering Support Services | \$ 80,000 |
| *Construction Management | \$ 210,000 |
| Sub-Total for Construction Costs | \$ 9,065,000 |
| Total Project Costs | \$ 9,920,000 |

* Estimated Costs

BUDGET/FINANCIAL INFORMATION:

Funds for the proposed design work are budgeted in the 2009 Water Fund Capital Program. It is anticipated that a low-interest State Revolving Fund loan will fund the rehabilitation of the OGTP and the four groundwater wells. This item was presented to the Board of Water Commissioners at their meeting on November 9, 2009, and the Board voted 4-0 in favor of the recommendation.

SUSTAINABILITY IMPACT:

Rehabilitating the OGTP will help the water system comply with upcoming State water quality regulations, and will enable staff to make better use of the City's groundwater to supplement drinking water supplies, which is especially important during droughts.

PREPARED BY: Catherine Taylor, Water System Manager/CT/mh

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office