

STAFF REPORT

DATE: February 20, 2007

TO: Utilities Commission

FROM: Lonnie Thibodeaux, Water Utilities Director

SUBJECT: **RECOMMEND AUTHORIZATION TO AWARD A CONTRACT FOR THE CONSTRUCTION OF THE WELL SITE 9 – PHASE 2 MECHANICAL IMPROVEMENTS**

SYNOPSIS

Staff and the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract in an amount not to exceed \$228,135 to J.R. Filanc Construction, Inc. of Escondido, for construction of the Well Site 9 – Phase 2 Mechanical Improvements project, and authorize the City Manager to execute the agreement upon receipt of all supporting documents.

BACKGROUND

The Mission Basin Groundwater Purification Facility, located at 215 Fireside Drive (Exhibit A), was originally constructed and put into operation in 1994. The original facility produced 2.2 million gallons per day (MGD) of brackish groundwater by use of a reverse osmosis treatment process. A subsequent expansion project was to bring the capacity of the plant up to 6.37 MGD. This expansion project, accepted by City Council in February 2003, consisted of three additional production wells, nine monitoring wells, a high and low pump station, an additional reverse osmosis train and other infrastructure-related work. All work was satisfactorily completed except for the production wells which, when drilled, did not produce sufficient quantities of water.

In October 1998, City Council authorized a joint participation agreement between the City of Oceanside, San Diego County Water Authority (SDCWA) and the Metropolitan Water District (MWD) for participation in the Groundwater Recovery Program (GRP). As part of the GRP study, SDCWA has drilled eleven exploratory wells to map the Basin for possible future use. As part of the drilling project, Oceanside had the SDCWA analyze up to five sites with an emphasis on three to replace the poorly performing well sites 6, 7 and 8. Three of the sites are within a mile of the Mission Basin Groundwater Facility with one, Well 9, being on the plant site. Well 9 was drilled by the SDCWA and during the test pumping produced up to 2,220 gallons per minute which is sufficient for delivery to the desalting facility. In order to utilize this new well, the City contracted to have the well head facility designed.

ANALYSIS

On November 15, 2006, City Council approved the plans and specifications for the Well Site 9 - Phase 2 Mechanical Improvements project and authorized the call for bids. At the January 1, 2007 bid opening, two bids were received and opened for the Well Site 9 – Phase 2 Mechanical Improvements project (Exhibit B). The apparent low bidder is J.R. Filanc Construction, Inc., of Escondido, California with a bid in the amount of \$228,135. The other bid received from Zondiros Corporation was \$298,672. Staff has reviewed the bid submitted by J.R. Filanc Construction, Inc., and finds that its bid bond and references are in accordance with City standards. The engineer's estimate to construct the project was \$187,200.

FISCAL IMPACT

In Fiscal Year 2005-2006, the Mission Basin Groundwater Purification Facility Expansion project (712.857426 and 715.857425) had a total of \$4,720,709 left to carry forward for Fiscal Year 2006-2007. The engineer's estimate for the construction of Well No. 9 – Phase 2 – Mechanical Improvements is \$187,200. Adequate funds are available for the project.

INSURANCE REQUIREMENTS

The City's standard insurance requirements will be met.

COMMISSION OR COMMITTEE REPORT

The Water/Sewer Committee recommended approval at its regular meeting on February 13, 2007

CITY ATTORNEY'S ANALYSIS

Documents are being reviewed by the City Attorney.

RECOMMENDATIONS

Staff and the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract in an amount not to exceed \$228,135 to J.R. Filanc Construction, Inc. of Escondido, for construction of the Well Site 9 – Phase 2 Mechanical Improvements project, and authorize the City Manager to execute the agreement upon receipt of all supporting documents.

PREPARED BY:

Greg Blakely
Administration Manager

Exhibit A - Site map
Exhibit B - Bid results

STAFF REPORT

DATE: February 20, 2007

TO: Utilities Commission

FROM: Lonnie Thibodeaux, Water Utilities Director

SUBJECT: **RECOMMEND APPROVAL OF PLANS AND SPECIFICATIONS FOR THE LOMA ALTA LAGOON ULTRA-VIOLET TREATMENT FACILITY AND APPROVAL OF A PROFESSIONAL SERVICES AGREEMENT FOR OFFICE ENGINEERING SERVICES**

SYNOPSIS

Staff and the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve plans and specifications for the Loma Alta Lagoon Ultra-Violet Treatment Facility and authorize the Acting City Engineer to call for bids; and approve a professional services agreement in an amount not to exceed \$80,445 to Carollo Engineers of San Diego, for office engineering services and authorize the City Manager to execute the agreement upon receipt of all supporting documentation.

BACKGROUND

The Loma Alta Lagoon and Buccaneer Beach, located in the City of Oceanside, have a history of high bacteria levels. Since 1992, the Water Utilities Department has pumped the dry weather flows from the Loma Alta Lagoon directly into the wastewater ocean outfall. This practice allowed Buccaneer Beach to remain open and free from postings during popular summer months. Due to insufficient capacity in the outfall, an alternative to the diversion was necessary. This Ultra-Violet Facility at the Loma Alta Lagoon project (UV Facility) (Exhibit A) allows the flows to be discharged directly into the ocean after treatment and frees up outfall capacity for wastewater.

On January 16, 2006, Council adopted a resolution authorizing entering into an agreement with the State of California for a Proposition 40 Clean Beaches Initiative grant for the UV Facility. On May 17, 2006, Council approved a professional services agreement with Carollo Engineers for project design, plans and specifications and environmental permitting services for the UV Facility. During the design phase, cost estimates were developed for the project. It was determined that the project would cost approximately \$5,000,000. The City reapplied for this new grant amount and the State of California for a Proposition 40 Clean Beach Initiative task force voted to approve this increase in funds. The new \$5,000,000 grant replaces the original \$2,355,000 grant.

ANALYSIS

The intent of the Initiative was to fund projects that address postings and closures at California public beaches caused by bacterial contamination. To be funded, the beaches had to be on a Competitive Location List based on a history of poor bacterial water quality. Buccaneer Beach at Loma Alta Creek met this requirement. This \$5,000,000 grant will fund the design, permitting and building of a ultra-violet light treatment facility including filtration and discharge piping at the south end of the La Salina Wastewater Treatment Plant just north of Buccaneer Beach. The UV light, combined with sediment filters, will reduce the bacterial levels so that during dry weather months, the flow can be discharged directly into the ocean at the high tide line. The treatment facility will be housed in a building matching the design of the La Salina Wastewater Treatment Plant since it will be located inside the plant's perimeter. This project will be completed by October 2008, including a full year of water quality monitoring and report preparation.

Staff will continue to pursue grants to complete the original project of acquiring the parcels and creating additional lagoon area along with educational and pedestrian enhancements.

FISCAL IMPACT

Funding of this grant does not take place until the agreement between SWRCB and the City of Oceanside is executed. Staff will request the City Council to approve both the agreement and a budget resolution at that time. Water Utilities expenditures on this project will be reimbursed by the grant.

COMMISSION OR COMMITTEE REPORT

The Water/Sewer Committee recommended approval at its regular meeting on February 13, 2007.

CITY ATTORNEY'S ANALYSIS

The documents are being reviewed by the City Attorney.

INSURANCE REQUIREMENTS

Does not apply.

RECOMMENDATION

Staff and the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve plans and specifications for the Loma Alta Lagoon Ultra-Violet Treatment Facility and authorize the Acting City Engineer to call for bids; and approve a professional services agreement in an amount not to exceed \$80,445 to Carollo Engineers of San Diego, for office engineering services and authorize the City Manager to execute the agreement upon receipt of all supporting documentation.

PREPARED BY:

Greg Blakely
Administration Manager

Exhibit A - Site Map

STAFF REPORT

DATE: February 20, 2007

TO: Utilities Commission

FROM: Lonnie Thibodeaux, Water Utilities Director

SUBJECT: **RECOMMEND AUTHORIZATION TO AWARD A CONTRACT IN THE AMOUNT OF \$1,231,000 TO TETRA TECH, INC., OF OCEANSIDE FOR THE OCEANSIDE SEAWATER DESALINATION PILOT FACILITY AND FEASIBILITY STUDY**

SYNOPSIS

Staff and the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract in an amount not to exceed \$1,231,000 to Tetra Tech, Inc., of Oceanside for the Oceanside Seawater desalination Pilot Facility and Feasibility Study project, and authorize the City Manager to execute the agreement upon receipt of all supporting documentation.

BACKGROUND

The City of Oceanside's main sources of water are imported water from the San Diego County Water Authority that is treated at the Robert A. Weese Filtration Plant (Weese), brackish groundwater that is treated at the Mission Basin Groundwater Purification Facility (MBGPF) (Exhibit A), and recycled water. The current capacity of the Weese plant is 25 million gallon per day (MGD). The MBGPF has a treatment capacity of 6.4 MGD, with current flows at about 2 MGD. To reach the full capacity, additional wells are being drilled. Approximately 5 MGD of recycled water is produced at the San Luis Rey Water Reclamation Plant (SLRWRP).

ANALYSIS

The potable water demand in 2006 was approximately 35,000 acre-feet per year (AF/yr). The service population is currently approximately 176,000. At build out, the population is projected to increase to about 206,600 with a resulting water demand of 41,100 acre-feet per year (AF/yr). The peak month demand is projected at 48.96 MGD. The City of Oceanside Water Master Plan, currently being updated, has identified seawater desalination as one of the major alternatives for meeting future demands for potable water.

The City of Oceanside submitted a grant application titled, "Proposition 50 Water Desalination Grant Proposal for the City of Oceanside Seawater Desalination Project" to the California Department of Water Resources dated March 24, 2006. This proposal

was submitted to continue with the objective of finalizing a well drilling site in order to set up a 50 gallons per minute (GPM) Reverse Osmosis (RO) pilot facility; prepare a study to plan for the most feasible pipeline alignment from the well to the Mission Basin Groundwater Purification Facility (MBGPF), and to provide a feasibility study for the Seawater Desalination Project, for the City of Oceanside.

Based on the information developed for this grant proposal a request for proposal was sent out last September to nineteen consultants, including seven in Oceanside (Exhibit B). On October 10, 2006, proposals were received from four of the solicited consultants; three were from Oceanside. The proposals were evaluated and the proposal in an amount not to exceed \$1,231,000 from Tetra Tech, Inc. was selected.

FISCAL IMPACT

In Fiscal Year 2005-2006, the Oceanside Seawater Desalination project (715.858247) had a total of \$993,086 left to carry forward for Fiscal Year 2006-2007. Staff transferred \$275,000 from the Pacific Street Bridge Waterline project because the cost for that project is less than projected. Adequate funds are available for the project.

COMMISSION OR COMMITTEE REPORT

The Water/Sewer Committee recommended approval at its regular meeting on February 13, 2007

CITY ATTORNEY'S ANALYSIS

The referenced documents are being reviewed by the City Attorney.

INSURANCE REQUIREMENTS

Does not apply.

RECOMMENDATION

Staff and the Water/Sewer Committee recommend that the Utilities Commission recommend that the City Council approve an award of contract in an amount not to exceed \$1,231,000 to Tetra Tech, Inc., of Oceanside for the Oceanside Seawater desalination Pilot Facility and Feasibility Study project, and authorize the City Manager to execute the agreement upon receipt of all supporting documentation.

PREPARED BY:

Greg Blakely
Administration Manager

Exhibit A - Site map
Exhibit B - Request for proposal mailing list