

WEST BASIN MUNICIPAL WATER DISTRICT

NOVEMBER 16, 2006 - Water Resources
Little, Kwan
NOVEMBER 27, 2006 - Board Meeting
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INFORMATION CALENDAR

CHEVRON NITRIFICATION TANK RECOATING PROJECTSUMMARY:

In 1995, West Basin Municipal Water District (District) constructed a 640,000 gallon welded steel tank in the City of El Segundo as part of the Chevron Nitrification Plant project. The tank stores nitrified Title 22 water that is used in Chevron's refinery cooling towers. Chevron places a high importance on the reliability of this water source as it directly affects their ability to effectively operate their refining processes. The District has had tremendous success in maintaining reliable service to Chevron since the commissioning of the tank in 1995, thus, enhancing the District's collaborative partnership with Chevron.

In an effort to ensure the integrity of the District's assets and continued ability to provide reliable service, the District competitively solicited the services of Harper and Associates to assess the condition of and provide necessary professional engineering services for the Chevron Nitrification Tank. These services consist of performing a detailed maintenance inspection of the tank; perform necessary design work to bring the tank up to current standards, and to assist with review of submittals during the construction process.

The first phase of work consisted of performing a maintenance evaluation to determine whether any repairs and/or modifications to the tank were necessary. The tank was structurally and seismically evaluated as well as the interior and exterior coating conditions. Findings from this evaluation included a recommendation to perform minor structural modifications to bring the tank into compliance with current AWWA seismic standards along with a recommendation to perform an entire recoating of the interior surfaces and spot coating repair of the tank's exterior surfaces. Subsequent to these recommendations, staff has initiated the second phase of work to incorporate the suggested design recommendations into a construction bid package.

Construction Contract

A construction bid package is currently being finalized and will be released for advertisement in early November with bids being due at the end of November. The construction "Scope of Work" includes structural modifications that involve lowering the tank's overflow weir to bring the tank into seismic compliance, construction of an additional roof vent/access shaft, addition of a new ladder for worker safety, complete interior recoating, and spot coating repair to the exterior surfaces. Construction is anticipated to start in March 2007 and will last approximately six to eight weeks. The engineer's estimated cost of construction is approximately \$100,000. Staff will bring all bids back to the Board for consideration and award of a construction contract at a future Board meeting.

Bypass System

Due to the critical nature of Chevron's operational characteristics, the storage tank can only be taken off-line during winter months, which traditionally occurs during Chevron's turn-around period. Chevron has identified a window of time from March to early May in which a reduced flow of water is traditionally needed, thereby allowing the District to service Chevron through a

adjacent to the Chevron nitrification tank. Staff has requested United Water Service to be responsible for the procurement, installation, and operation of the temporary bypass system. It is expected that the implementation of this temporary bypass system will cost between \$120,000 and \$150,000. Staff will provide the Board with a specific cost for this service at a future Board meeting for purposes of authorizing United Water to hire a contractor to implement a temporary bypass system.

Construction Management Services

In an effort to effectively manage the construction activities and ensure that all work is being implemented in compliance with the project specifications, staff has prepared a "Request for Proposals" to competitively solicit professional construction management and inspection services. These services will provide a full-time construction manager/inspector on-site to oversee, monitor, and report on the daily progress of the contractor's work, coordinate and respond to unforeseen field conditions, provide inspection of the contractors work, enforce the contract specifications, and negotiate potential change orders. Proposals are due November 16, 2006 and interviews will be conducted in late November for the top firms that demonstrate sufficient experience. A recommendation will be brought to the Board for consideration at a subsequent Board meeting requesting award of a contract for the above referenced services.

FISCAL IMPACTS:

Funds for this project are available from the Fiscal Year 2006-07 Capital Improvement Fund.

ENVIRONMENTAL COMPLIANCE:

Environmental requirements for this project are exempt due to the maintenance function of this work.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee on November 16, 2006 and agendized to the November 27, 2006 Board meeting as information for discussion.

RECOMMENDED MOTIONS:

This item is for information only.

EXHIBITS:

None.