

**MEMORANDUM**  
**October 27, 2006**

To: PBCSD Board of Directors

From: Michael Niccum, District Engineer

Subject: **Reclamation Storage Tank Rehabilitation Project**

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**STATUS REPORT**

PBCSD has an ongoing capital improvement program to upgrade and rehabilitate the existing infrastructure within the District including the reclamation project 2.5 million gallon water storage tank located off Viscaino Road near the Poppy Hills Golf Course maintenance yard. The recycled water tank was constructed of welded steel in 1993 by Trusco Tank. The exterior paint coating had an expected useful life of 10 years and was replaced in 2002. The interior epoxy coating had an expected life of 25 years.

The maintenance department completed the annual maintenance and cleaning of the recycled water storage tank in January. Field observations indicated the interior coating of the walls and floor of the tank were in good condition but that corrosion was evident on the interior ceiling beams. A cathodic protection system protects the interior walls and floor of the tank in contact with water. An allocation of \$100,000 for a project to rehabilitate the interior of the tank was included in the District budget and the Reclamation Project operations and maintenance budget for fiscal year 2006-07. The District will be reimbursed by the Reclamation Project for the project cost.

E2 Consulting Engineers prepared specifications for inspection of roof structural members and installation of a new interior coating on the ceiling of the tank. A firm specializing in water tank inspection services, Tank Industry Consultants ("TIC"), was retained for an estimated cost of \$7,000 to inspect the structural steel members to insure the load bearing capacity has not been impaired by the corrosion. Any damaged structural members will be replaced by TIC for an additional cost. Steel inspection services will require coordination with the coating contractor responsible for installation of scaffolding inside the tank.

E2 requested informal bids from four coating contractors with experience working on similar water tank rehabilitation projects. All contractors indicated they were very busy but could meet the January to February time frame. Three contractors have submitted prices to date and all are in excess of the approved budget allocation.

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A recommendation will be made at the next Reclamation Management Committee meeting to increase the budget allocation for the tank rehabilitation project to \$150,000 and a recommendation for contract award will be scheduled for consideration at the next Board meeting. Fieldwork will be scheduled in January and February when the Forest Lake Reservoir facility has the ability supply the reduced recycled water winter demand. The project will be completed within 4 to 6 weeks.

Agenda Item No. 12