



STAFF REPORT

Meeting Type: Planning Committee/Board of Directors
Title: Alpine Barge Anchor and Pipe Float Replacement Project (D24010)
From: Alex Anaya, Director of Engineering
Through: Ben Horenstein, General Manager
Meeting Date: February 13, 2025

AA *BH*

TYPE OF ACTION: Action Information X Review and Refer

RECOMMENDATION: Review and refer to a future regularly scheduled Board meeting for contract award for the Alpine Barge Anchor and Pipe Float Replacement Project

SUMMARY: The Alpine Barge Anchor and Pipe Float Replacement project will install new pipe floats, barge anchoring, connections, and appurtenances at the Alpine Pump Barges located on the Alpine Reservoir within District Watershed Lands. District Staff will make a recommendation for the contract award at a future regularly scheduled Board meeting.

DISCUSSION: The District transfers raw water from Alpine Reservoir up to Bon Tempe Reservoir through 5,300 feet of 24-inch and 30- inch diameter welded steel and HDPE pipe using two 200 HP floating barge pumps. The raw water transmission barge pumps and pipeline provide a critical operational function to the District as it is the only source of raw water supply from Alpine Reservoir to Bon Tempe Reservoir which supplements water production at the Bon Tempe Treatment Plant. The Alpine Barge Pumps and HDPE pipe were installed in 2009 and require ongoing maintenance due to the challenging marine environment, which accelerates degradation on essential components.

The Project will address the deteriorating condition of the barge anchoring system by replacing the existing anchors with six new 1,000-pound mooring anchors and connections. These upgrades will prevent the barges from drifting during operations, ensuring the stability and reliability of the barge system. Additionally, existing buoys between the pumping and manifold barges will be replaced with upgraded pipe floats. These floats are engineered to elevate the HDPE piping and suspend the electrical conduits, preventing undue stress on both the pipes and the electrical conduits. This enhancement will reduce the risk of exposure to water, minimizing the potential for electrical failures.

The Project will reduce the amount of staff time required to maintain the equipment and enhance the long-term operational reliability of the water transmission system.

Estimated costs for this project are shown below.

Budget:

Engineer's Estimate:	\$50,000
Contingency (20%):	\$10,000
Materials:	\$52,000
District Labor/Inspection:	\$150,000
Total Budget:	\$262,000
Budget Category:	A1A05

Project Implementation:

Project Advertisement	February 11, 2025
Bid Opening:	February 25, 2025
Project Award:	March 18, 2025
Estimated Completion Date:	June 16, 2025
Duration:	90 days

ENVIRONMENTAL REVIEW: The Director of Engineering has found that the Project is Categorically Exempt pursuant to California Environmental Quality Act (CEQA) Guideline Section 15302 (c), Replacement of Reconstruction. The project qualifies for exemption pursuant of to Section 15302 (c) inasmuch as it is the replacement of existing barge anchors and buoys involving negligible or no expansion of capacity.

FISCAL IMPACT: The total cost to complete this Capital Improvement Program, Alpine Barge Anchor and Pipe Float Replacement Project is estimated at \$262,000, which has been identified in the CIP budget.

ATTACHMENT(S):

1. Site Map