

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David R. Dickson, General Manager

Agenda: February 14, 2017

Date: February 9, 2017

Subject: Crystal Springs Pump 3 Column Pipe and Shaft Replacement

Recommendation:

Authorize the General Manager to purchase and install 150 feet of pump shaft and column pipe for Crystal Springs Pump #3 for a total of approximately \$75,000.

Background:

Last summer we noticed a steady stream of water leaking out of our 500 HP Crystal Springs Pump 3 under the base of the pump. We estimated the leak to be about 150 gpm. Upon pulling the pump it was discovered that there was a 3" diameter hole in the steel column shaft of this unit and numerous deep pits in the shaft that got progressively worse at the lower elevations. Allowed to continue, the corrosion would have led to numerous leaks and significant reduction of pump capacity. The pump shaft was also out of alignment, which results in lowered pump efficiency and a high probability of bearing failure.

We received two quotes for replacement of the column pipe and shaft as follows:

Pump Repair Service Company	\$65,129
G3 Engineering, Inc.	\$74,798

This price does not reflect the costs to install the new equipment with a crane service or the cost of a diver to assist in the installation. The total cost for these services is estimated to be less than \$10,000.

Fiscal Impact:

Cost of \$75,000.