



STAFF REPORT

TO: Board of Commissioners
FROM: Chris Munson, Facilities Manager
DATE: May 30, 2023
SUBJECT: **Dredge Pump Surplus Purchase and Budget Adjustment**

Recommendation / Proposed Motion

Recommendations:

1. Review and consider purchase of surplus dredge pump and equipment from Santa Cruz Harbor
2. Allocate an additional \$15,000 to Dredge Pump Maintenance, Major Maintenance line item and decrease the Operating Revenue in an equal amount for the purchase to the dredge pump.

Motion: Move Staff recommendation

District Major Objective/Goal Objective #2

Maintain and enhance a boater friendly atmosphere at Port San Luis for both commercial and recreational boaters.

Policy Implications

- Harbor Commission approves expenditures over \$5,000, that have not been included in the approved budget.

Fiscal Implications / Budget Status

The current 2022-2023 FY budget includes \$26,500 for Dredge Pump Maintenance, funded by \$20,500 from the Dredge Specified Reserves and \$6,000 from Operating Revenues. The purchase, tax and transportation are not expected to exceed \$15,000. The budget adjustment will bring the total budget line item to \$41,500. The Dredge Specified Reserves balance is currently \$14,920, of which a total of \$14,000 is proposed for use in the original budget.

Alternatives Considered

- Not purchasing

Background

The Harbor District currently has two Toyo DP-50 submersible dredge pumps. One pump is used each year and the other is sent for repairs. The District maintains both pumps for redundancy since there are not readily available options for dredge pump rentals on the west coast.

Commissioner Brandy notified staff that Santa Cruz Harbor had listed their dredge equipment for surplus. The equipment includes a Toyo DP-75B pump, a jet ring, Variable Frequency Drive (VFD), Control Panel, drainage pump, and slurry hoses. The auction closes on June 6th and does not currently have any bids. The reserve is set at \$10,000.

The DP-75B is 75 horsepower compared to the 50 horsepower pumps the District currently has. The capacity is listed at 6.0 m³/min versus 3.2 m³/min. The pump was purchased in 2015 but only has 150 hours. In a typical season, the District's pumps log about 500 hours. The Staff estimates that if this equipment was purchased new it would be approximately \$150,000 or more.

Discussion

At \$10,000, this equipment is a very good value. The voltage and frequency are the same as the District's pump. The amps are higher, but they will likely be able to be controlled with the included VFD to work with the District's current setup.

In the best case scenario, the District will acquire a higher powered pump which could potentially nearly double the capacity of dredging, which would shorten the dredge season and free up staff for other projects. It may also be possible to push the outfall further up Fisherman's beach, decreasing the chance of the sediment backfilling into the basin. The jet ring could add efficiency by breaking down compacted sediment.

However, the true condition of the equipment and operation requirements are not fully understood. Repairs are costly, the recent repair of the District's pump was \$26,500. Although the surplus pump has seen little use, it hasn't been used in years. The dredge may require upsizing the discharge pipe from 8-10" which will be costly. While the 75B's discharge diameter is 8", the District's 50 HP pumps already clog the pipe at times.

If the District is unable to get the pump system to work or it will be too expensive to upgrade, it has the option of similarly reselling the pump as surplus. Even if the pump is not usable for the District, some of the other equipment likely is and worth the surplus purchase price alone.

Conclusion

The Board should consider the option of purchasing the surplus Toyo DP-75B and motion accordingly.

Attachment(s): Toyo DP-75B Surplus Listing