

Staff Report

for the Engineering Committee Meeting of June 9, 2020

TO: Engineering Committee
FROM: Doug Roderick, PE, Engineering Manager
DATE: June 2, 2020
SUBJECT: District-Wide Reservoir Study

ENGINEERING

RECOMMENDATION:

Discuss a District-wide Reservoir Study to be developed by Staff.

BACKGROUND:

The District currently owns and operates 27 reservoirs as part of its water delivery system. Staff is proposing to perform a District-wide reservoir study of the current condition of all District reservoirs. This work will include bathymetry to get an understanding of the diminished storage capacity due to sedimentation. The study will include the following:

- Amount of storage lost due to sediment
- Cost estimates/timelines to remove sediment
- Prioritization of reservoirs needing sediment removal
- Develop a list of reservoirs that are no longer beneficial to District operations
- Alternatives to remove/remediate reservoirs that are non-beneficial
- Discussion of potential alternatives to minimize future sedimentation

This study will be developed by Staff, but some consulting work will be necessary for the bathymetry in the larger reservoirs. Staff proposes utilizing funds in the Sediment Removal Program (10151-52914).

BUDGETARY IMPACT:

Currently \$1,189,782 in 10151-52914. Other projects currently scheduled for this year will total \$400,000. This leaves \$789,782 remaining in 10151-52914.

DR