



**REPORT TO REGIONAL WATER SUPPLY COMMISSION
MEETING OF WEDNESDAY, JULY 19, 2023**

SUBJECT **Regional Water Supply Service Mid-Year Update**

ISSUE SUMMARY

To provide the Regional Water Supply Commission with a mid-year update on the Regional Water Supply System (the System) capital program and operations updates.

BACKGROUND

Capital Program Update

The Regional Water Supply (RWS) capital program reflects the planned capital spending for the next five years and forms part of the annual service budget that is approved in March each year by the Capital Regional District (CRD) Board. In 2023, there were 94 capital projects identified with an expenditure estimated at \$41,256,000. The status of the major projects progressing in 2023 is detailed in Appendix A. Additional smaller projects, such as the annual provisional items, will also progress based on criticality and resourcing.

Operations Update

Water Operations maintains and operates the RWS System which includes planned and unplanned maintenance. Examples of unplanned maintenance include a valve failure or a water main break. The annual 2023 operating budget totals \$6.68 million. Operating accounts are on track, year to date, with no major variances anticipated for the remainder of the year. Below are highlights, to date in 2023, of capitalized activities undertaken by Water Operations.

Emergency response:

The System is remotely monitored 24 hours a day, 7 days a week by the Goldstream Water Treatment Plant, this monitoring includes: RWS Transmission System, Goldstream and Sooke River Road Treatment Plants, Sooke Lake Dam and the Goldstream Lakes Dams. A Water Operator is on call continuously outside of regular work hours and responds to emergency callouts in the RWS and the Juan de Fuca Water Distribution Systems.

Sooke River Road Treatment Plant:

Upgrades completed in 2023 included new hypochlorite dosing pumps and programming improvements to automatically bring a second Ultraviolet reactor online as flows increase. These upgrades are now complete which have doubled the flow capacity of the treatment plant, and improved redundancy.

Post Disaster Program:

One resilient (blue) hydrant was installed at Victoria General Hospital and one at Rocky Point Pump Station in Metchosin, one more is planned for 2023. A second water distribution module was procured and is now in service. Three sizes of both steel and ductile iron water main pipe were procured for emergency repairs consisting of 1,200-millimeter (mm), 900mm, and 600mm diameters. One hundred (100) meters (m) of 150 mm diameter High Density Polyethylene (HDPE)

emergency watermain was also procured that would be used for a temporary repair, jumper between two mains, or overland from a reservoir to a main. Three portable laboratories were procured for post disaster water quality testing, these labs will be stored at three locations throughout the region.

Pressure Control Station (PCS) Upgrades:

Water Operations completed upgrades to Humpback PCS (Main No. 1 and 3), and upgrades to Alderley PCS (Main No. 4) are underway.

Dam Infrastructure Maintenance:

Regular dam inspections are completed on a weekly basis. Lubbe, Butchart and Goldstream Dams resurfacing of dam crests and downstream faces to improve visual monitoring capabilities. Sooke and Deception Dams; spillway cleaning and underdrain remote camera inspections.

CONCLUSION

This report provides the Regional Water Supply Commission with operational and capital program updates for the Regional Water Supply Service.

RECOMMENDATION

There is no recommendation, the report is for information.

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ATTACHMENT(S)

Appendix A: Regional Water Supply Capital Program – Current Status of Active Projects.