

**DATE:** September 9, 2020**FILE:** 5340-07 / 1700-02**TO:** Chair and Members  
Comox Valley Sewerage Commission**FROM:** Russell Dyson  
Chief Administrative OfficerSupported by Russell Dyson  
Chief Administrative Officer*R. Dyson***RE: Budget Amendment for Beach Replenishment Work along Forcemain****Purpose**

To amend the Comox Valley Sewerage Service (CVSS) 2020-2024 financial plan to accommodate emergency beach replenishment for the foreshore forcemain along Willemar Bluffs.

**Recommendation from the Chief Administrative Officer:**

THAT the 2020-2024 financial plan and capital expenditure program for the Comox Valley Sewerage Service, functions 335-338, be amended by increasing minor capital expenses in 2020 by \$150,000 in function 336 for the Willemar Bluffs emergency beach replenishment to enhance coverage of the existing sewer forcemain;

AND FURTHER THAT this be funded by a reduction in the contribution to the capital works reserve in 2020 from \$2,590,491 to \$2,440,491, to supplement the \$50,000 already budgeted for this work in 2020, for a total project budget of \$200,000.

**Executive Summary**

The CVSS sewer forcemain runs along the foreshore from the Courtenay Pump Station to just below the treatment plant, including approximately two kilometres of forcemain between Goose Spit and Curtis Road below the Willemar Bluffs. Since 2002, annual inspections along this portion have been performed to monitor the depth of cover above the forcemain. Over the past few years monitoring has revealed continued reduction in the depth of cover along sections of the forcemain, and in 2020 the monitoring report noted that in two areas the depth of cover has decreased substantially and is in need of additional cover to mitigate the risk of the forcemain being exposed to wave action.

Failure of the forcemain in this area would have significant health and safety, marine and coastal environment consequences. The forcemain is at greatest risk of failure in winter months due to winter storms and wave action. To provide an interim protection to the forcemain until a new conveyance solution is constructed, Northwest Hydraulic Consultants (NHC) has recommended depositing gravel as additional cover over the two areas of greatest concern along the bluffs.

The beach replenishment project as proposed will provide an immediate and short-term mitigation measure for the forcemain, reducing concerns of damage of the pipe during winter storm events. The timing of this work is proposed to be completed ahead of the winter storms in 2020 and 2021, and the duration of construction is anticipated to be 2-3 weeks.

This project was previously included within the 2020-2024 financial plan; however, the extent of the beach replenishment and therefore budget is greater than originally anticipated. Included within the current financial plan is \$70,000; a budget amendment for an additional \$150,000 is required, bringing the total project budget to \$220,000.

Prepared by:

Concurrence:

Concurrence:

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