



STAFF REPORT

To: Fraser Valley Regional District Board

Date: 2026-04-23

From: Sterling Chan, Deputy Director of Engineering

Subject: **Athey Rd Shoreline Protection – Rip Rap Supply Amendment**

Reviewed by: Beth Klein, Controller/Deputy CFO

Jennifer Kinneman, Chief Administrative Officer

RECOMMENDATION

THAT the Fraser Valley Regional District Board authorize its signatories to execute a change order to the previously signed contract with the Nicomen Island Improvement District for the amount of \$575,000 for the supply of rip rap material required to complete the Athey Rd Shoreline Protection works.

BACKGROUND

Nicomen Island is protected from flooding by the Fraser River by 35km of dikes and five pump stations owned and operated by the Nicomen Island Improvement District (NIID). The shorelines adjacent to Athey Rd, located on the eastern side of Nicomen Island have been susceptible to erosion from the Fraser River. Staff were successful in securing \$5,000,000 in grant funding under the Investing in Agriculture Foundation (IAF) Fraser Valley Flood Protection Program to complete bank stabilization works in this area on behalf of NIID.

With this funding in place, WSP Canada Inc. was further engaged to complete the detailed design and prepare the necessary regulatory applications for this project. The works were put out to tender and awarded to Jakes Construction Ltd. The Fraser Valley Regional District Board previously authorized its signatories to enter into a contract with Jakes and to execute a change order to reflect an updated schedule of quantities following the pre-construction survey. Additionally, the Fraser Valley Regional District Board has authorized its signatories to enter into a contract with NIID for the supply of the rip rap and filter material necessary to complete the works.

DISCUSSION

NIID owns and operates a quarry nearby the project site, which it uses to produce rip rap and filter material used for shoreline protection works along the Fraser River. NIID had a previously produced a stockpile of the 500kg rip rap and filter material needed and is providing this material to the project at no cost. Under the original project plan, some additional rip rap production was required above what

was on hand. Changes to the schedule of quantities following the pre-construction survey have increased the volume of rip rap required and therefore the amount of additional rip rap to be **produced at NIID's quarry**. To meet this requirement, the Fraser Valley Regional District Board had previously authorized its signatories to enter into an agreement with NIID for this material supply.

It has since been determined that the volume of previously produced 500kg rip rap is less than what was thought to be available. **That material stockpiled at NIID's quarry was previously co-mingled** and the percentage of 500kg rip rap buried within the stockpile is less than originally reported.

The cost to produce this additional material is \$575,000. To address this additional cost, a change **order to the FVRD's contract with NIID** for \$575,000 is required. While significant contingencies are still being held, it is expected that this additional cost will exceed the available budget. As a result, the scope of the project will be reduced as there is no additional funding available. It is anticipated that upstream reach of self launching rip rap will be reduced by 50-75m. This section of the works is much further setback from the river (61-109m) and is not critical at this time.

COST

This project is funded through a \$5,000,000 grant under the IAF Fraser Valley Flood Protection Program. The FVRD does not have a specific service area for Nicomen Island Flood Protection and does not have additional funds outside of the IAF grant. Despite these additional costs, the project is expected to be completed with the grant funding available.