

Company Name: Copcan Civil LP

Project Name: Malahat Nation Foreshore Erosion Protection

Project Value: \$500,000.00

The Malahat Nation contacted Copcan in July of 2023 to review the Foreshore Protection project. The project was considered an emergency level project for the Nation as the shore eroded heavily each year and the Nation wanted to save as much land as possible in this area before further erosion took place. The new foreshore protection measures had to be installed and completed prior to the Fish Window construction deadline of September 15, 2023. If this deadline was not met, the project could not move ahead that year and the foreshore would continue to erode over the winter season leading to the loss of first nation owned land that was sacred to the community. With such a short window of time to finalize the design, complete the tender process, and construct the works, the Nation engaged Copcan Civil to complete the work and expedite the project.

This project included excavation and installation of rip rap along 120 lineal meters of shorefront. It included installation of geotextile, filter rock, and riprap of various sizes. The toe of the riprap was located within the intertidal area which limited work to specific working hours. The entire project area was within an area of high archaeological find potential and was subject to archaeological requirements.

The project included approximately 1,040 m³ of excavation to expose the location where the toe of the rip rap structure would be installed. All 1,040 m³ of this material would have to be sifted for archaeological material by the archaeological consultant and Copcan crews. Once the excavation was complete, a 300mm thick layer of filter rock surrounded by geotextile was installed with a 1.4m thick layer of 500 class rip rap on top. All the excavated material from the toe was then installed back on top of the rip rap near the toe line and the rest was used as fill behind the top of the rip rap structure.