

Jackett Island Erosion Study

Progress Report May 2012

1. Summary

This report sets out the project progress for the studies to investigate the long term resolution of the erosion issues at Jackett Island, since the interim works were completed on 5 September 2011.

This document identifies work progressed during April and May 2012 and provides an assessment of progress to the original programme.

2. Monitoring of shoreline along Jackett Island

Photographic monitoring was completed under the management of Council on 19 April 2012. These photographs were taken after interim works were carried out at the beginning of April. The photographs display that there is sand accretion at the northern end of the wall as well as that end of the island (refer Photos 4-9). There is also evidence that there are high levels of erosion beyond the southern return of the wall and to the southern tip of Jackett Island.

3. Removal of existing geotextile groyne

The resource consent for the removal of the groyne was granted on 12 March 2012. The conditions of the consent state that the full groyne needs to be removed between May and August 2012.

Taylor's Contracting has been awarded a short form contract to remove the groyne. Work on the removal of the groyne is expected to begin from 21 May 2012. This was chosen as the preferred contract type as it was difficult to ascertain the definite approved methods of removal until the contractors were on site. Philip Drummond is being used as engineer to the contract. The Harbour Master has been informed of our intentions and the Department of Conservation have been consulted with on the selection of a work site on the spit.

4. Tasks of development of long term option

4.1 Data Acquisition – COMPLETED

4.1.1 Sand sampling and analysis COMPLETED February 2102.

4.1.2 Review and Analysis – COMPLETED

4.2 Consultation

In progress. Email exchanges having been taking place between the experts discussing the modelling that is in progress. A teleconference was also held to discuss how the modelling should be refined. Once the modelling has been completed and a preferred physical works option has been identified, consultation with the community will occur. Council staff also met with the Jackett Island residents on 17 April 2012.

4.3 Numerical Modelling

4.3.1 Modelling of existing situation

In progress. MetOcean Solutions Ltd was awarded this contract.

Calibration is currently taking place prior to the modelling of two agreed options. Some tweaking of the model was required. This is expected to be completed by the end of May 2012.

4.3.2 Development of options

In progress. Two locations were selected for numerical modelling with the possibility that a third may be selected at a later date.

4.3.3 Modelling of options

In progress.

4.4 Development of preferred options

No progress. Subsequent project stage.

4.5 Consent process

No progress. Subsequent project stage.

4.6 Detailed design and implementation

No progress. Subsequent project stage.

5. Reporting

5.1 Practicable options report (final)

Completed. Discussed at 14 March 2012 meeting between experts.

6. Programme

A timeline was discussed with the Van Dyke Family Trust plus the other experts. Calibration is presently a week behind schedule and modelling should be completed by the end of June 2012. This will allow the work on developing options for the long term solution to progress at an agreed rate. A timeline has been put on the Council website.

7. Applicability

This report has been prepared for the benefit of Tasman District Council and reviewed by Richard Reinen- Hamill for Tonkin & Taylor Ltd.

Report prepared by Sarah Downs, Tasman District Council