

Report No:	RESC12-04-09
File No:	C351
Date:	16 April 2012
<b>Information Only – no decision required</b>	

## REPORT SUMMARY

**Report to:** Engineering Services Committee  
**Meeting Date:** 26 April 2012  
**Report Author:** Sarah Downs, Transportation Planning Officer  
**Subject:** Port Motueka Groyne – Jakkett Island Erosion Project

### EXECUTIVE SUMMARY

The purpose of this report is to provide information on the assessment and refinement of practicable options to manage the erosion experienced along the seaward edge of Jakkett Island. An update on the interim works on the Van Dyke property and the Port Motueka Groyne removal is also provided. Information will also be provided on the expenditure on the Jakkett Island Erosion Project to date.

### RECOMMENDATION/S

Staff recommend that the Engineering Services Committee receives this report.

### DRAFT RESOLUTION

**THAT the Engineering Services Committee receives the Port Motueka Groyne – Jakkett Island Erosion Project report, RESC12-04-09.**

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## 1. Purpose

- 1.1 The purposes of this report are to provide information on:
- The assessment of practicable options to manage the erosion experienced along the seaward edge of Jakkett island, progressing options previously identified in the Preliminary Practicable Options Report;
  - Ongoing consultation with stakeholders;
  - Progress with the removal of the Port Motueka Groyne;
  - Maintenance of the geotextile sand bag wall on the Van Dyke property; and
  - An update on project expenditure to date.

## 2. Background and Assessment of Practicable Options

- 2.1 The issues arising from this project stem from the Environment Court Interim Decision (ENV-2010-WLG-00080 &81) in the matter between the Van Dyke Family Trust and the Tasman District Council issued in March 2011. The Court found that the placement of the Port Motueka geotextile groyne on the Motueka sand spit by the Council in 1996 has led to the formation of the spit in its present form which in turn, has brought about the erosion on Jakkett Island.
- 2.2 At its meeting on 15 September 2011 the Committee received a report on the Port Motueka Groyne and Jakkett Island Erosion Project and approved the definition of the project problems and objectives.
- 2.3 At its meeting on 8 December 2011 the committee accepted the nine preliminary practicable options for the project as a basis for stakeholder consultation.
- 2.4 At its meeting on 15 March 2012 the committee accepted the Draft Practicable Options Report which included ongoing assessment work by Richard Reinen-Hamill of Tonkin & Taylor Ltd.

- 2.5 The report set out the practical physical works options associated either with a new accessible navigation channel or modifications to the distal end of the spit and transfer of sand to rebuild the Jackett Island shoreline. The aim of the option development is to refine potential physical works options to model and identify opportunities and constraints of the options.
- 2.6 Richard Reinen-Hamill discussed the assessment approach and modelling of options with the following technical experts: Professor Bob Kirk (retained by the Van Dyke Family Trust); Gary Tear, Ocel Consultants (retained by the Port Motueka Users Group); and Ron Heath an independent interested party.
- 2.7 After the experts meeting on 114 March 2012 it was agreed that the modelling process would be calibrated. This was expected to be completed by the end of April 2012. The Practicable Options Report was finalised.
- 2.8 Modelling options on a new accessible navigation channel were defined and agreed upon by the technical experts. This process is expected to commence after the calibration of the model and be completed by the end of May 2012.
- 2.9 Other non-physical works options such as those identified in the Preliminary Practicable Options Report are not included in this modelling assessment, but need to remain as reviewable options to evaluate against any developed physical works options.

### **3. Stakeholder Consultations**

- 3.1 At its meeting on 15 March 2012, the Committee heard from a representation of Jackett Island residents of their desire to be included more in the consultation process.
- 3.2 A meeting was held on Tuesday 17 April 2012 between staff and Jackett Island residents in Motueka. The aim of the meeting was for residents to discuss the long term solutions to the erosion problem on Jackett Island; develop a communications programme; and for them to elect someone to represent residents at stakeholder meetings and technical expert meetings.
- 3.3 A presentation of information will be made to the Tiakina te Taiao Board at their May meeting.
- 3.4 Other stakeholders will be kept informed of the process and its status through regular newsletters.

- 3.5 A page has been established on Council's website to provide a direct information link to all relevant reports and documentation.

#### **4. Groyne Removal**

- 4.1 A resource consent for the full removal of the groyne was granted on 12 March 2012. Full removal is to be constrained between the months of May and August.
- 4.2 Work on locating the full length of the groyne has been completed as well as an estimation of the cost of removal. This estimation has meant that the contract will require being put out to tender.
- 4.3 It is hoped that this work can commence in June and the harbourmaster has been informed.

#### **5. Maintenance of the geotextile sand bag wall**

- 5.1 On the weekend of 24 and 25 March 2012, high winds (30kmh) accompanied by high tides saw a partial collapse at the southern end of the geotextile sand bag wall on the Van Dyke property at Jackett Island.
- 5.2 Previous damage had occurred at some point in February. Photographic evidence is shown in the status report (Appendix A).
- 5.3 Staff undertook some surveying of the sand bag wall and the beach profile. It was found that considerable erosion of the beach was taking place at the southern end of the wall close to the macrocarpa tree.
- 5.4 Maintenance work was carried out on the wall between 3 and 5 April 2012. A further 70 geotextile sand bags (which had been stored on the Van Dyke property) were utilised. This resulted in a further three rows being added at the toe of the wall close to the macrocarpa tree at the southern end of the Van Dyke property.



- 5.5 A further 40 geotextile bags are being ordered and will be stored (with sand) on the Van Dyke property for ongoing maintenance work. Another 40 geotextile bags are also being ordered. These will be stored at Council and not filled with sand.

## **6. Project Costs**

- 6.1 Costs for this project from 1 July 2011 to date currently total \$649,782.
- 6.2 Further costs are still to come this financial year including the completion of practicable option investigations and reporting; stakeholder consultations; the removal of the existing groyne; ongoing maintenance of the interim works and monitoring, and Court resolution of the further additional costs claimed by the Van Dyke Family Trust totalling \$252,197.

## **7. Timeline/Next Steps**

- 7.1 Staff will continue to progress work towards reporting back to Council and intend to report on a preferred option to the July Engineering Services Committee meeting.
- 7.2 Staff will investigate the need for a cost:benefit analysis on a preferred option.
- 7.3 Staff will continue to consult with stakeholder groups as the practicable option assessment works becomes more developed.
- 7.4 Staff will report back to the Environment Court on progress against the programme previously submitted.

## **6. Draft Resolution**

**THAT the Engineering Services Committee receives the Port Motueka Groyne – Jakkett Island Erosion Project report, RESC12-04-09.**

### **Appendices:**

Appendix A – Jakkett Island Erosion Study – Progress Report March 2012