



Report **03.667**
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Committee **Rural Services and Wairarapa**
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Flood Damage - October 2003

1. Purpose

To inform the Committee of the impact of the October 2003 flood event.

2. Background

On 3-4 October 2003 370 millimetres of rainfall was recorded at the Angle Knob rain gauge in the Tararua Ranges. There was also considerable rainfall within the Wairarapa Valley and the Eastern Hill country.

Significant return period flows were recorded on –

- Waipoua River - Mikimiki - 20 years
- Ruamahanga River - Waihenga, Martinborough – 7 years

3. Flood Damage

In all Schemes, except the Lower Wairarapa Valley Development Scheme and the Waipoua River Scheme, annual works programmes have been adjusted to undertake any necessary flood damage repairs.

3.1 Waipoua River

The total flood damage is \$108,000 (see Table 1). It is proposed to absorb \$36,000 of repair work within the annual works programme. Of the remaining \$72,000, \$42,000 (\$21,000 from Flood Contingency Fund) has been approved as flood damage under delegated authority by the Divisional Manager, Wairarapa.

The balance of \$30,000 is to be funded from the gravel royalty fund administered by the Divisional Manager. This is to protect the reinstated

stopbank at the Gold/Payton section and will provide both the Greater Wellington share and the local contribution.

This site has proven to be difficult to protect since 1998. The landholder had contributed to flood damage repairs in 1998. Bio-engineering methods have not been successful. In this instance it is proposed to place up to five rock groynes to provide longer term protection.

The Waipoua River Scheme currently has a deficit of \$29,000. With the current rating contribution (doubled three years ago) the deficit will be substantially paid off by 2004/05. In the year 2005/06, subject to no further floods, the Scheme is projected to have a credit balance of the order of \$10,000.

The Waipoua River Scheme Advisory Committee inspected the river on 31 October and endorsed the above approach.

Table 1 - Waipoua River Flood Damage

Site	Damage	Repair Work	Cost (\$)	Priority
Millar-Lahore	Bank erosion	Channel alignment/Willow cabling	3,500	Medium
Buick (top)	Bank erosion 30m	Channel alignment	6,000	Medium
Buick (lower)	Bank erosion 45m	Channel alignment/Willow cabling	6,500	Medium
Napier	Bank erosion	Concrete block groynes	3,500	Medium
Jackson	Bank erosion 60m – threat to stopbank	Channel alignment/Willow cabling	6,500	Medium
Nursery	Bank erosion	Willow cabling	2,500	Medium
Mahunga (top)	Bank erosion 40m	Willow cabling	4,000	Medium
Mahunga (lower)	Bank erosion 30m	Willow cabling	3,000	Medium
Daniell	Damage to shingle groynes	Reconstruct with Waingawa boulders	11,000	Medium
Payton	Bank erosion	Willow cabling 30m	3,000	Medium
Gold/Daniell	Bank erosion & stopbank breach	Realign river and reconstruct stopbank	18,000	High
		Rock/boulder groynes	30,000	High
Whole reach	Flood debris removal (includes trenching of live willow trees)		10,500	High
		Total	\$108,000	
		Less amount taken into the annual works programme * Heavy protection at Gold/Daniell to be funded from Gravel Royalty Fund	-36,000 -30,000	
		Net amount	\$42,000	

3.2 Lower Wairarapa Valley Development Scheme

The total flood damage repair bill is \$120,000, as outlined in Table 2. \$50,000 of repair work will be funded from within the annual works programme.

The Divisional Manager, Wairarapa under delegated authority has approved \$70,000 for flood repairs (\$35,000 from the Flood Contingency Fund, i.e. the Council's share). The balance will be funded from the scheme reserves.

The Lower Wairarapa Valley Development Scheme Advisory Committee met on 30 October 2003 and approved this expenditure.

At the same meeting, the Advisory Committee approved that staff should commence negotiation to realign the stopbank at Scadden's property. The stopbank in this vicinity comprises a concrete wall from an old cowshed on the very edge of the riverbank. Increased "piping" of flood water under this wall occurred during this recent flood event. Staff will complete temporary repairs in the interim.

The future Tauherenikau River works programme is likely to be increased on completion of the Lower Wairarapa Valley Development Scheme review.

Table 2 - Lower Wairarapa Valley Development Scheme

Site	Damage	Repair Work	Cost (\$)	Priority
Tauherenikau – Blair Stout	Bank erosion	Realignment of river channel and shifting gravel to the bank	20,000	High
Tauherenikau – Ballow	Bank erosion	Realignment of river channel and shifting gravel to the bank	25,000	High
Tauherenikau – Bob Stout	Bank erosion	Realignment of river channel and shifting gravel to the bank	20,000	High
Tauherenikau – Rail Bridge to SH2 Bridge		Removal of debris & realignment of channel at many places	50,000	Medium
Wairongamai - Matthews upstream of Western Lake Road	Bank erosion	Shifting of gravel & placing of concrete blocks	5,000	High
TOTAL			\$120,000	

4. Conclusion

Flood damage totalling \$228,000 occurred during the 3-4 October flood event in the Lower Wairarapa Valley Development Scheme and the Waipoua River Scheme. The repair works have been approved by the appropriate Scheme Advisory Committees and the Divisional Manager, Wairarapa and will be funded as follows:

- From the annual works programme \$86,000
- Using Flood Contingency Funds \$56,000
- Using the Gravel Royalty Fund \$30,000
- Scheme Reserve Funds \$56,000

5. Communications

Meetings have already been held with the Lower Wairarapa Valley Development Scheme and the Waipoua River Advisory Committee so no further general publicity is required. There will be specific communications with directly affected landowners.

6. Recommendation

That the Committee note the flood damage repair works required because of the 3-4 October flood event.

Report prepared by:

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