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Cc: Michael Meehan

Subject: Taramakau On-site meeting 14 January 2013

Hi All,

A quick on-site meeting was held at 10.00am on Monday 14 January 2013 to look at remedial works on Mike Dyke's frontage.

Murray Stewart, Andrew Stewart, Steven Langridge, Damien Groot and myself attended.

Apologies were noted from John Stewart, Mike Dyke and Paul Stevenson.

The section of frontage under threat is a 100 metre section of the main section stopbank downstream of the bottom retard.

Some damage had been sustained to the lower spur of the latest recently placed low rock riprap.

The main stopbank had a small section of erosion and debris evidence showed that the stopbank had been nearly overtopped in the last flood event.

Long discussion took place on the appropriate remedial action with a general even split from those present on whether another large retard be constructed or else placing a 100 metres section of new rock riprap along the main stopbank.

W. Moen pointed out that with a 100 metre section of riprap, it was highly likely that the river would continue to erode downstream and the ratepayers could be looking at a major cost to continuing the riprap downstream eventually.

Although not conclusive, the meeting settled on the 100 metre riprap option.

The outcome was:

- a) Pull back the damaged spur and top up the existing low level river bank rock riprap.
- b) Take approximately 125 tonnes in off the top of each existing retard and use as riprap along the toe of the main stopbank.
- c) Import the balance of approximately 2,000 tonnes from Ian Whyte's gold claim, if available, to complete 100 metres of main stopbank rip rap.
- d) Raise the top of the main stopbank by 0.5 metre over 200 lineal metres to offset the nearly overtopping in recent floods.

A very rough estimate of this option was:

- a) Pull back and replace spur \$1000.00
- b) Recover 250 tonnes of rock off existing retards \$1,250.00
- c) Supply 2000 tonnes of rock ex Gold Claim area: \$32,000.00
- d) Raise main stopbank by 0,5 metre over 200 lineal metres \$ 3,250.00

Total estimate \$36,500

Please note that the alternative option of constructing a third downstream retard would cost approximately \$43,000 as a comparison.

This would involve approximately 1,680 cubic metres of fill and 2,000 tonnes of rock.

The meeting finished at approximately 12.00am

Please note that after the meeting a small section of damage on the main stopbank on Steven Langridge's property was identified.

It was estimated as requiring approximately 300 tonnes to fix. This would cost approximately \$4,800. It is strongly recommended that this is done at the same time.

Wayne Moen
River Engineer
24 January 2013

IMPORTANT ADDITIONAL NOTE TO ALL RATEPAYERS

Consequent to the above meeting, given the general uncertainty of the consensus, and given the substantial apportions paid by individual ratepayers, I have reconsidered the options for the remedial works at Mike Dyke' area and would suggest that serious consideration be given to the option of the construction of a third retard option, rather than the 100 metres of riprap along the toe of the main stopbank.

The reasons I suggest this are that:

- a) The retard option while being potentially being slightly more expensive, gives greater protection to the downstream section.
- b) There is a resource consent in place for this retard.
- c) It keeps the main flow approximately 40 metres away from the main stopbank, which gives more time to react in an emergency situation rather than contending with the river hard in against the toe of the main stopbank.

The other parts of the proposal remain.

The estimated cost of this option would be \$48,400 as opposed to the \$36,500 for the riprap option.

It is emphasised that competitive tendering may reduce this estimated costs given the contracting market at the present time.

I WOULD ASK THAT EACH OF YOU RECONSIDER THE OPTIONS AND EMAIL YOUR RESPONSE BACK TO ME BY WEDNESDAY 30 JANUARY 2013 . A FINAL DECISION WILL THEN BE MADE FOR THE CONTRACTED WORK.