

 Report
 2016.409

 Date
 19 August 2016

 File
 CCAB-12-146

CommitteeTe Kāuru Upper Ruamahanga FMP subcommitteeAuthorAlistair J N Allan

Te Kāuru Upper Ruamahanga FMP Waipoua Hydrology Update

1. Purpose

To update the Subcommittee regarding progress with agreement on the recommended design flood flows for the Waipoua River.

2. Background

Greater Wellington Regional Council (GWRC) and Masterton District Council (MDC) agreed to a joint review of the hydrology of the Waipoua River to ensure the accuracy of information being used in the development of flood hazard mapping for Masterton and the communities adjacent to the Waipoua River.

The technical investigation work was completed by MWH and peer reviewed by Tonkin and Taylor (T+T). Hydrologists from MWH and T+T participated in GWRC and MDC workshops to agree on methodology to develop the recommended design flows and agree on a joint recommendation from the officers of both councils.

3. Summary

The revised design flood flow values are shown in Table 1, alongside a comparison with the 1998 flood event and the original design flood flow values.

Location	1998 Flood Event	50 ARI Design Flood	100 ARI Design Flood	Original 50 ARI Design Flood	Original 100 ARI Design Flood
Mikimiki	356	363	406	372	404
Colombo Road	445	454	508	454	533

Table 1:Design flood flows (m³/s)

4. Interpretation document

A document confirming the outcomes of the investigation, developed by MDC and GWRC officers, is included as **Attachment 1** to this report.

The full hydrology investigations are included as Attachment 2 to this report.

5. Next steps

The results of the hydrology will be used to re-map the flood hazard for the Waipoua River using both the existing computer model, and again in the flexible mesh computer model currently being developed.

6. Communication

The hydrology report and interpretation document will be presented to Masterton District Council in a council report in September 2016. An update will be provided to the Subcommittee at the next meeting.

7. The decision-making process and significance

Officers recognise that the matters referenced in this report may have a high degree of importance to affected or interested parties.

The matters requiring decision in this report have been considered by officers against the requirements of Part 6 of the Local Government Act 2002 (the Act). Part 6 sets out the obligations of local authorities in relation to the making of decisions.

7.1 Significance of the decision

Part 6 requires Greater Wellington Regional Council to consider the significance of the decision. The term 'significance' has a statutory definition set out in the Act.

Officers have considered the significance of the matter, taking the Council's significance and engagement policy and decision-making guidelines into account. Officers recommend that the matter be considered to have low significance.

Officers do not consider that a formal record outlining consideration of the decision-making process is required in this instance.

7.2 Engagement

In accordance with the significance and engagement policy, no engagement on the matters for decision is required.

8. **Recommendations**

That the Subcommittee:

- 1. Receives the report.
- 2. *Notes* the content of the report.

- 3. **Endorses** the summary of the Waipoua hydrology report included as Attachment 1 to this report.
- 4. **Endorses** the recommended design flow values developed by the Waipoua hydrology report included as Attachment 2 to this report.
- 5. **Requests** that the GWRC officers present the information to Masterton District Council.

Report prepared by:	Report approved by:	Report approved by:	Report approved by:
Alistair J N Allan Team Leader, Implementation	Mark Hooker Team Leader, Investigations, Strategy and Policy	Graeme Campbell Manager, Flood Protection	Wayne O'Donnell General Manager, Catchment Management

Attachment 1: Waipoua Hydrology Summary **Attachment 2:** Waipoua Rainfall Runoff Modelling Report