

Report 2016.430
Date 22 September 2016
File CCAB-14-204

Subcommittee Hutt Valley Flood Management Subcommittee
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Annual Asset Condition Report - Hutt and Wainuiomata Catchments

1. Purpose

To advise the Hutt Valley Flood Management Subcommittee (the Subcommittee) of the overall condition of the flood protection infrastructural assets on the Te Awa Kairangi / Hutt River, Waiwhetu and Wainuiomata Rivers and to seek confirmation that these assets have been satisfactorily maintained.

2. Background

Council is responsible for a variety of infrastructural flood protection assets located on 15 schemes across the region. These assets have a total value of \$262.8 million as at June 2012 and provide flood protection to the property and people located on the floodplains of these rivers. The assets will be revalued in June 2017.

The Flood Protection Department's asset management system allows for effective monitoring of assets to reassure Council that the various assets are being maintained to the required level of service, will perform as designed and, where required, are being enhanced.

3. Asset Management Highlights

A number of asset management improvements were made during the year. These included;

- **Mobile technology in the field:** A new app has been developed for field staff to capture asset condition and other information.
- **Improved business systems:** Streamlined data manipulation with enhanced use of Microsoft Power Pivot and Power Business Intelligence software platforms.
- **Database cleanse:** Ongoing cleaning and rationalisation of the SAP Plant Maintenance and GIS asset databases.

- **Detailed investigations into major assets.** Detailed investigations into the condition and performance of floodwalls and the Porirua detention dams.

4. Asset Assessments

There has been a reduction in the overall asset ratings this year due to improvements in the asset assessment process.

Hutt, Wainuiomata, Waiwhetu River	2015	2016
Moderate –Very Good (1-3)	90%	83%
Poor to Very Poor (4-5)	10%	17%
Total Asset Count	1651	2115

Table 1: Rating comparison

Reasons for this shift include;

- A new mobile app based rating process was introduced this year which reduced subjectivity in assessment from the paper based system and increased the scrutiny of the asset assessment.
- An increase of 464 assets (28%) into the database. Existing and new assets were included for the first time (channels, amenity, native plantings).
- There are 190 additional assets in poor/very poor condition (4&5s) than last year. Most of these assets are groynes, willows and debris fences which degrade over time.

4.1 Te Awa Kairangi / Hutt River in detail

On the Te Awa Kairangi / Hutt River, 83% of assets are in a moderate to very good condition. This is a decrease from the 91% last year.

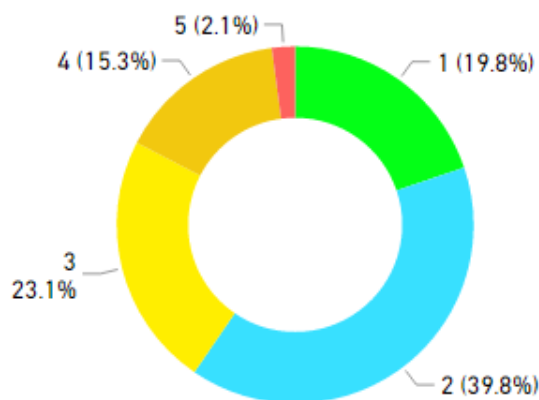


Fig 1: 2016 Hutt asset rating distribution

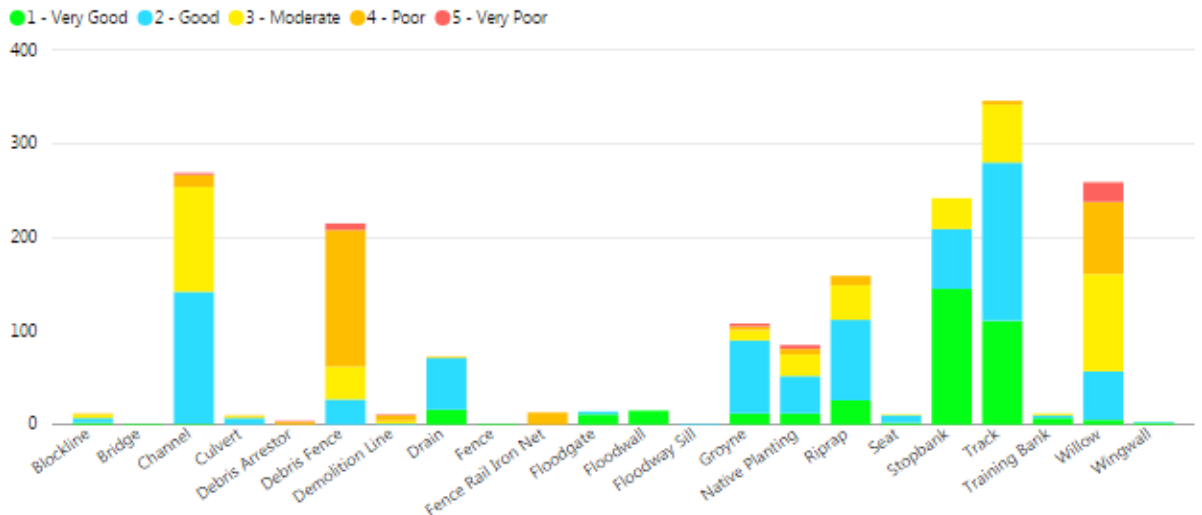


Fig 2: 2016 Hutt asset rating by type

Analysis of the asset types shows a lower rating for debris fences, rock rip rap, tracks and willows. Stopbanks have improved in condition. This data is somewhat distorted by the inclusion of channels and additional tracks this year.

A watching brief is currently underway on all willow assets, given the issues arising from the giant willow aphid.

4.2 Wainuiomata River in detail

For the Wainuiomata River, 83% of assets are in a moderate to very good condition. This is a slight decrease from the 85% last year.

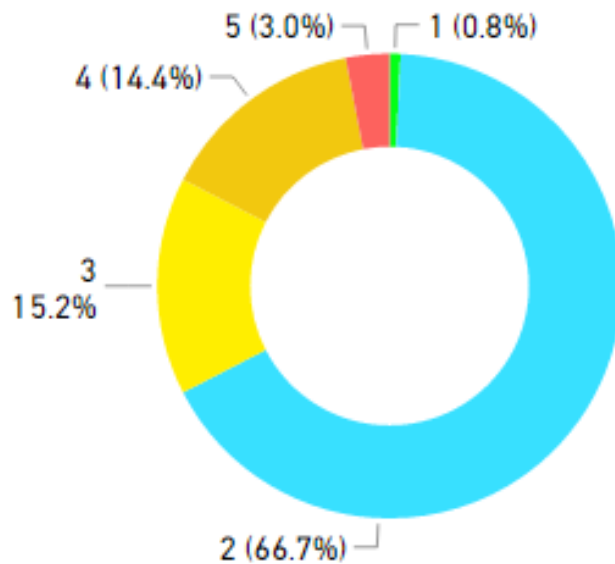


Fig 3: 2016 Wainuiomata asset rating distribution

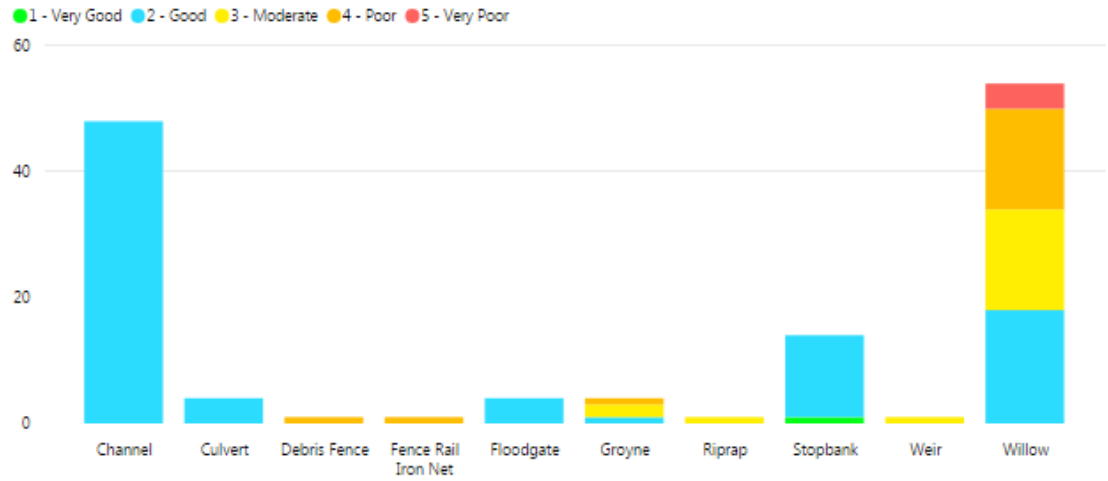


Fig 4: 2016 Wainuiomata asset rating by type

Analysis of the asset types shows lower ratings for willows and groynes which is offset by all the channels being rated as good.

4.3 Waiwhetu Stream in detail

97.5% of the Waiwhetu Stream assets are in a moderate to very good condition. This is a slight decrease from the 100% last year.

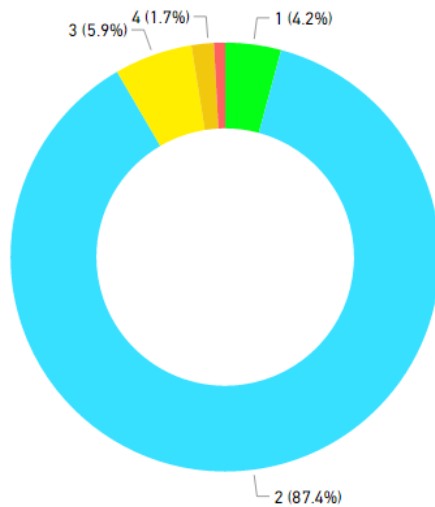


Fig 5: 2016 Waiwhetu asset rating distribution

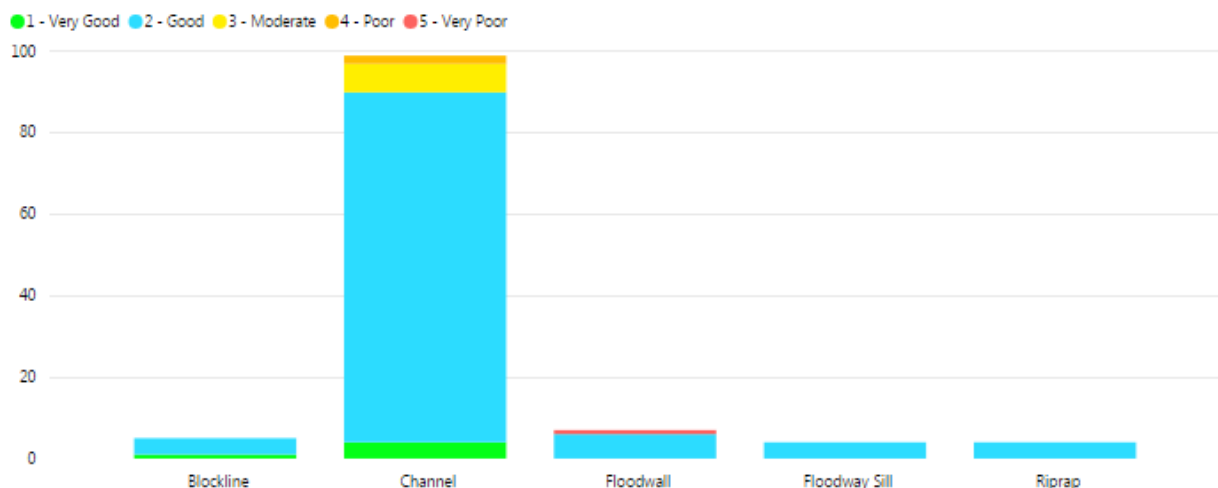


Fig 6: 2016 Waiwhetu asset rating by type

The decrease is primarily due to the channels being included in the data set for the first time and their rating having some moderate and poor ratings. One floodwall asset rated as very poor was incorrectly categorised and will be removed.

This year attention will be paid to the channel assets to ensure those classed as moderate or poor do not impact on the stream capacity.

5. Flood Damage Reserves

Maintenance budgets, together with the scheme flood damage reserves, are sufficient to ensure that assets can continue to be maintained to the required service level across the region in 2015/16.

A summary of river flood damage scheme reserves is detailed in Table 2 below.

Scheme	2015/16		
	Scheme Reserve	Major Flood Investment Reserves	Total Reserves
Eastern Rivers Total	3,400,977	1,385,721	4,786,699
Western Rivers Total	2,685,257	1,385,721	4,070,978
Sub Total of River Schemes Reserves	6,086,235	2,771,442	8,857,677
GW Flood Contingency Reserve	1,974,718		1,974,718
GW Major Flood Investment		2,771,443	2,771,443
Total Reserves of River Schemes (\$)	8,060,953	5,542,885	13,603,838

Table 2: Flood damage reserves

6. 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.

6.1 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.

6.2 Engagement

Engagement on the matters contained in this report aligns with the level of significance assessed. In accordance with the significance and engagement policy, no engagement on the matters for decision is required.

7. Recommendations

That the Subcommittee

1. *Receives the report.*
2. *Notes the content of the report.*
3. *Confirms that the assets on the Te Awa Kairangi / Hutt River, Waiwhetu and Wainuiomata Rivers have been maintained to the satisfaction of the Subcommittee.*

Report prepared by:	Report approved by:	Report approved by:	Report approved by:
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