

Report 14.579
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Committee Hutt Valley Flood Management Subcommittee
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Hutt and Wainuiomata Rivers Asset Management Report for 2013/14

1. Purpose

- To advise the Hutt Valley Flood Management Subcommittee (the Subcommittee) of the progress made with the Flood Protection Department's asset management system and the overall condition of the department's infrastructural assets on the Hutt and Wainuiomata Rivers.
- To seek confirmation from the Subcommittee that the infrastructural assets on the Hutt and Wainuiomata Rivers have been satisfactorily maintained.

2. Background

Greater Wellington Regional Council (GWRC) 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 and provide flood protection to the property and people located on the floodplains of these rivers. Assets on the Hutt and Wainuiomata Rivers have a value of \$66.2 million and \$1.9 million respectively¹.

The Flood Protection Department's asset management system identifies the services and strategies required to meet a defined level of service on a sustainable and cost-effective basis, and the expenditure and funding needed to achieve this. Monitoring of these assets over the past financial year is an important component of this system and seeks to re-assure GWRC that the various assets are being maintained to the required level of service, will perform as designed and, where required, are being enhanced.

3. Comment

It is common practice for the Flood Protection department to report annually to GWRC on our asset management system, particularly on asset condition. Report 14.533 on Asset Management within Flood Protection was presented and approved by the Strategy and Policy Committee on 28 October 2014.

¹ As at 30 June 2012

Usually this Report would be brought to this Subcommittee before being presented to the Strategy and Policy Committee. Unfortunately, due to meeting timetables this has not been possible. A site visit for members of the Subcommittee to inspect flood protection assets had also been programmed for October 2014. However this visit was deferred.

4. Asset Management System

The organisational focus on asset management within GWRC has continued and good progress has been made in a number of improvement plan areas including:

- Reviewing and updating our Asset Management Plan (AMP) for a 30 year period. A particular focus has been on ensuring consistency of information in the AMP, the Long Term Plan and the Infrastructure Strategy.
- Developing and documenting our business processes around our asset information tool SAP Plant Maintenance.
- Involvement in a number of initiatives to improve consistency across GWRC.

This financial year will focus on further refining the AMP and improving business process. We will continue to implement our asset management improvement plan subject to resource availability.

4.1 Asset Condition

The annual asset condition assessment process involves grading each individual asset from 1 to 5. An asset graded 1 is in very good condition, while an asset graded 5 is in poor condition and requires upgrade, replacement or should be written off.

The annual process of systematically visiting and assessing asset condition is a fundamental part of our overall asset management system and is continually being improved. Management inspections also provide robustness to this process. When asset criticality is overlaid, this allows maintenance to be prioritised and ensures that GWRC is maintaining its critical assets: stopbanks and floodgates.

4.1.1 Hutt River

On the Hutt River, 85% of the assets are in a good or moderate condition (rated 1 to 3). In this context, good or moderate condition means that there is only general wear or tear with only minor or moderate maintenance required. 15% of assets have been rated as being in either poor or very poor condition (rated 4 and 5). However, these assets are mainly low level erosion protection or vegetative structures and are not critical.

A summary of the asset condition for the Hutt River is shown in **Figure 1**.

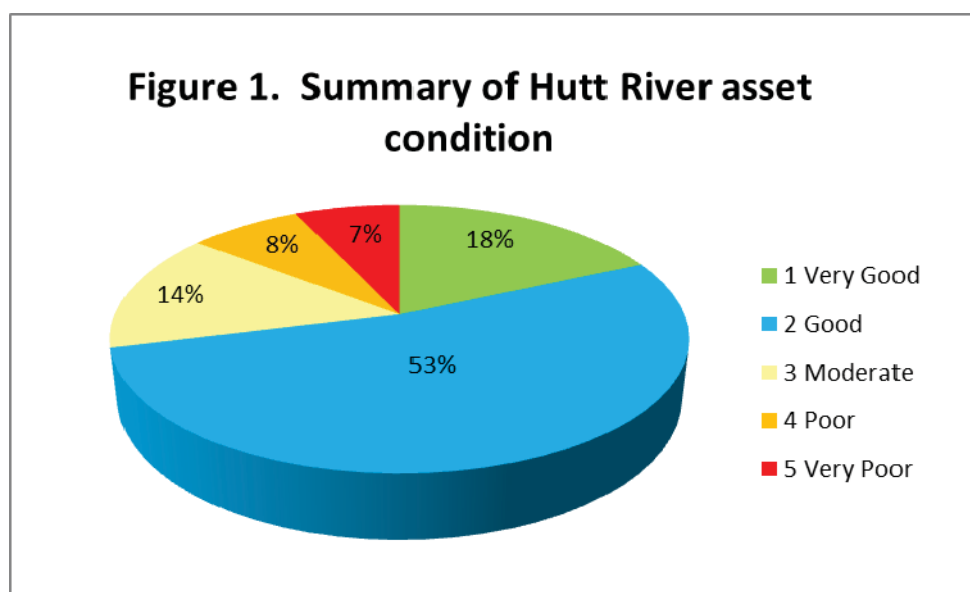


Table 1 below provides details of asset condition rating

	Condition Rating 2013/14					Grand Total
	1	2	3	4	5	
Hutt River						
Blockline		3	6			9
Bridge	1	1				2
Culvert	8	18	1			27
Debris Arrestor		1				1
Debris Fence		103	53	38	28	222
Demolition Line			9	7	3	19
Fence Rail Iron Net		12	5	3		20
Floodgate	4	10				14
Floodwall	9					9
Groyne	3	76	11	3	7	100
Riprap	24	135	2	1		162
Stopbank	93	133	11			237
Track	139	283	24	1		447
Training Bank		12				12
Willow		29	102	63	71	265
Wingwall	2	2				4
	283	818	224	116	109	1550

4.1.2 Wainuiomata River

On the Wainuiomata River 76% of the assets are in a good or moderate condition. One critical asset, a floodgate, has been rated as being in poor condition and has been incorporated into our maintenance programme. The 24% of assets that are in either poor or very poor condition are not critical and are mainly low level erosion protection or vegetative structures.

A summary of the asset condition for the Wainuiomata River is shown in **Figure 2**.

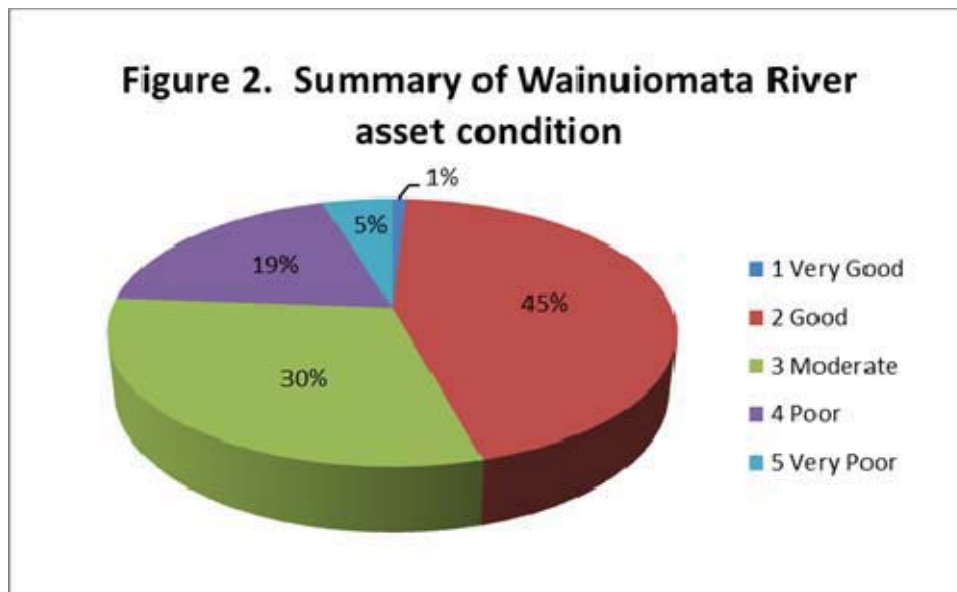


Table 2 below provides details of asset condition rating

	Condition Rating 2013/14					Grand Total
	1	2	3	4	5	
Wainuiomata River						
Culvert		4				4
Debris Fence			1			1
Fence Rail Iron Net					1	1
Floodgate		4		1		5
Groyne			4			4
Riprap				1	1	2
Stopbank	1	12	5			18
Weir			1			1
Willow		27	21	18	3	69
	1	47	32	20	5	105

5. Flood Damage Reserves

GWRC manages 15 river schemes across the region. Scheme reserves have been established to enable flood damage repairs to be made following flood events. These reserves are available for floods from a 5 to 25 year return period. For floods greater than a 25 year return period the Major Flood Investment Reserve can be called upon. The total flood damage reserves for the region to 30 June 2014 are \$12.1 million.

Maintenance budgets, together with the scheme reserves, are sufficient to ensure that assets can continue to be maintained to the required service level across the region in 2014/15.

A summary of river scheme reserves is detailed in **Table 1** below.

Scheme	Scheme Reserve (\$m)	Major Flood Investment Reserves (\$)	Total Reserves (\$m)
Total Eastern River Schemes	3.065	1.179	4.244
Western Rivers Schemes	2.527	1.179	3.706
Sub Total of River Schemes Reserves	5.592	2.358	7.950
GW Flood Contingency Reserve	1.388		1.388
GW Major Flood Investment		2.358	2.358
Total Reserves of River Schemes	6.980	4.716	11.696
Drainage Schemes	0.375		0.375
Total of All Schemes Reserves	7.356	4.716	12.072

Table 1: River Scheme reserves as at 30 June 2014

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 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. Recommendations

That the Subcommittee:

1. **Receives** the report.
2. **Notes** the content of the report.
3. **Confirms** that the assets on the Hutt and Wainuiomata Rivers have been maintained to the satisfaction of the Subcommittee.

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