

Flood Protection and River Control

Flood Protection and River Control: Rationale, Activities and Negative Effects

Activities included in Flood Protection and River Control

- Flood protection and river control

Flood Protection and River Control contributes to these community outcomes

- Water quality in rivers, streams, lakes and wetlands is improved
- Stream and river flows are maintained
- Existing ecosystems and indigenous biodiversity are protected
- A range of indigenous habitats and species is enhanced
- Injuries and risks to public health are minimised
- Risks from flooding are minimised

Flood Protection and River Control has these negative effects:

Effect	Council's Mitigation Measure
Raised expectations within the community	Consultation with the community
False sense of security	Key messages to the community about flood risk – through campaigning and education and making hazard maps readily available to the public
Landscape changes	Liaise with affected residents
Environmental degradation	Working within the conditions of resource consents, Limiting damage through sensitive maintenance and operations. Monitoring the health of water environments and discharges to waterways
Not all properties will be protected	Protect new future properties by setting floor levels above the 1:50 year flood level. Excellent communication with affected property owners.

Flood Protection and Control Works Statement of Service Provision

Activity	Services provided	Performance Measures	Performance Targets				
			Current	2015-16	2016-17	2017-18	2018-2025
Flood protection and control works	Maintaining the natural waterways and associated structures and systems	Stopbank crest surveys are carried out	New measure [1]	Annually	Annually	Annually	Annually
		Cross sectional surveys of selective waterways are carried out	New measure [2]	2-5 yearly or as required	2-5 yearly or as required	2-5 yearly or as required	2-5 yearly or as required
	Ensure dwellings are safe from flooding during extreme rain events	Reported number of dwellings flooded in a 1 in 50 year event	≤ 4 dwellings per 1,000 are flooded [3]	30% reduction on 2014 "Above Floor" number	Additional 30% reduction on 2014 "Above Floor" number	Additional 20% reduction on 2014 "Above Floor" number	10% reduction
		Percentage of minimum specified floor levels for new dwelling consent applications which meet Building Act & District Plan requirements	New measure [4]	100%	100%	100%	100%

Proposed Changes for flood protection and control works	Rationale
[1] Stopbank crest surveys to be carried out annually	Mandatory performance measure pursuant to the Local Government Act 2002
[2] Cross-sectional surveys of selected waterways to be carried out as required	Mandatory performance measure pursuant to the Local Government Act 2002
[3] It is intended there be a steady reduction in the number of dwellings at risk from flooding	Minimise risks from flooding, especially minimise new risks following the earthquakes
[4] Ensure new dwellings meet Building Act and District Plan requirements regarding minimum floor levels	Avoid having new dwellings at risk from flooding to the extent envisaged in the Act and the Plan

Flood protection and control works

Plan 2014/15		Plan 2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
		\$000									
	Cost of proposed services										
365	Natural Waterways, Structures and Systems	366	375	384	401	420	436	458	484	507	533
365		366	375	384	401	420	436	458	484	507	533
	Operating revenue from proposed services										
-	Natural Waterways, Structures and Systems	-	-	-	-	-	-	-	-	-	-
-	Capital revenues	7,594	5,466	5,695	6,011	5,446	5,004	5,333	5,509	5,279	5,186
-	Vested assets	-	-	-	-	-	-	-	-	-	-
365	Net cost of services	(7,228)	(5,091)	(5,311)	(5,610)	(5,026)	(4,568)	(4,875)	(5,025)	(4,772)	(4,653)

Flood protection and control works funding impact

Plan 2014/15	Plan 2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
	\$000									
Sources of operating funding										
208	-	-	-	-	-	-	-	-	-	-
365	1,143	1,184	1,228	1,280	1,337	1,406	1,482	1,564	1,649	1,753
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
573	1,143	1,184	1,228	1,280	1,337	1,406	1,482	1,564	1,649	1,753
Applications of operating funding										
347	344	345	348	357	367	376	387	399	411	421
-	-	-	-	-	-	-	-	-	-	-
18	13	14	14	14	16	15	16	18	17	18
-	-	-	-	-	-	-	-	-	-	-
365	357	359	362	371	383	391	403	417	428	439
208	786	825	866	909	954	1,015	1,079	1,147	1,221	1,314
Sources of capital funding										
-	-	-	-	-	-	-	-	-	-	-
-	7,594	5,466	5,695	6,011	5,446	5,004	5,333	5,509	5,279	5,186
31,320	42,014	46,184	36,520	30,605	33,247	35,288	37,150	36,966	37,872	37,449
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
31,320	49,608	51,650	42,215	36,616	38,693	40,292	42,483	42,475	43,151	42,635
Applications of capital funding										
22,141	40,803	41,675	29,621	22,837	24,577	25,241	27,273	28,092	28,990	31,374
-	-	532	545	782	803	824	1,212	1,248	2,576	2,664
9,387	9,591	10,268	12,915	13,906	14,267	15,242	15,077	14,282	12,806	9,911
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
31,528	50,394	52,475	43,081	37,525	39,647	41,307	43,562	43,622	44,372	43,949
(208)	(786)	(825)	(866)	(909)	(954)	(1,015)	(1,079)	(1,147)	(1,221)	(1,314)
Funding balance										
-	-	-	-	-	-	-	-	-	-	-
Reconciliation to net cost of services										
208	786	825	866	909	954	1,015	1,079	1,147	1,221	1,314
(573)	(1,143)	(1,184)	(1,228)	(1,280)	(1,337)	(1,406)	(1,482)	(1,564)	(1,649)	(1,753)
-	(9)	(16)	(22)	(30)	(37)	(45)	(55)	(67)	(79)	(94)
-	7,594	5,466	5,695	6,011	5,446	5,004	5,333	5,509	5,279	5,186
-	-	-	-	-	-	-	-	-	-	-
(365)	7,228	5,091	5,311	5,610	5,026	4,568	4,875	5,025	4,772	4,653
Footnotes										
-	-	-	-	-	-	-	-	-	-	-
21,932	40,000	40,920	28,312	21,496	22,054	22,650	23,306	24,006	24,774	25,616