

Stormwater Drainage

Stormwater Drainage: Activities, Rationale and Negative Effects

Activities included in Stormwater Drainage

- Stormwater drainage

Stormwater Drainage contributes to these community outcomes

- Water quality in rivers, streams, lakes and wetlands is improved
- Streams 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
- Sites and places of significance to tangata whenua are protected.

Stormwater Drainage has these negative effects:

Effect	Council's Mitigation Measure
Environmental Degradation	Working within the conditions of resource consents, Limiting damage through sensitive maintenance and operations. Monitoring the health of water environments. Work with the dischargers to improve site containment and work practices.
Reduction in water quality	Working within the conditions of resource consents. Maintenance and operational practices to safeguard water quality. Regular monitoring of water quality. One of the main contamination sources to the main rivers on a day to day basis is birdlife and dogs rather than sewer overflows. Whilst of concern sewer overflow affects are transitory in nature.

Stormwater Drainage Statement of Service Provision

Activity	Services provided	Performance Measures	Performance Targets				
			Current	2015-16	2016-17	2017-18	2018-2025
Stormwater drainage	Stormwater system is adequate to deal with flood events up to a 1 in 5 year event.	Total number of flooding events per annum, measured as a 10 year rolling average	New measure	< 2 [1]	< 2	< 2	< 2
		Flooding event, the number of habitable floors affected, expressed as an average per 100,000 properties connected to the territorial authority's stormwater system	New measure	< 1 [2]	< 0.5	0	0
	Water quality is maintained and/or improved	Resource consent compliance for consents held by Land Drainage Operations for discharge from stormwater system	100%	100%	100%	100%	100%
	Response times to attend a flooding event	Median response time to attend a flooding event, from time notification received	New measure	30 Minutes [3]	30 Minutes	30 Minutes	30 Minutes
	A well maintained stormwater drainage system is provided	Number of complaints about the performance of the stormwater systems, per 1000 connected properties	New measure	9 [4]	8.5	8	5
		Customer satisfaction with Stormwater Drainage Management	66%	≥ 65%	≥ 70%	≥ 75%	≥ 90%

Proposed changes for stormwater drainage	Rationale
[1] Maximum number of flooding events to be experienced	Mandatory measure pursuant to the Local Government Act 2002
[2] Ratio of number of habitable floors affected by flooding	Mandatory measure pursuant to the Local Government Act 2002
[3] Time for responding to an event	Mandatory measure pursuant to the Local Government Act 2002
[4] Complaints about performance of the stormwater system	Mandatory measure pursuant to the Local Government Act 2002

Stormwater drainage

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										
25,207	Stormwater Drainage	22,894	29,331	26,677	27,436	28,326	29,096	30,006	31,070	32,093	33,192
25,207		22,894	29,331	26,677	27,436	28,326	29,096	30,006	31,070	32,093	33,192
	Operating revenue from proposed services										
4,340	Stormwater Drainage	1,570	813	21	21	17	17	12	12	12	13
4,340		1,570	813	21	21	17	17	12	12	12	13
40,759	Capital revenues	93	123	-	-	-	-	-	-	-	-
420	Vested assets	420	430	440	451	463	476	489	504	520	538
(20,312)	Net cost of services	20,811	27,965	26,216	26,964	27,846	28,603	29,505	30,554	31,561	32,641

Stormwater drainage funding impact statement

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										
(2,593)	General rates, uniform annual general charges, rates penalties	-	-	-	-	-	-	-	-	-	-
17,851	Targeted rates	16,150	17,056	20,661	21,276	22,069	22,741	23,539	24,423	25,277	26,080
-	Subsidies and grants for operating purposes	-	-	-	-	-	-	-	-	-	-
20	Fees and charges	20	21	21	21	17	17	12	12	12	13
-	Internal charges and overheads recovered	-	-	-	-	-	-	-	-	-	-
4,320	Local authorities fuel tax, fines, infringement fees, and other receipts (a)	1,550	793	-	-	-	-	-	-	-	-
19,598	Total operating funding	17,720	17,870	20,682	21,297	22,086	22,758	23,551	24,435	25,289	26,093
	Applications of operating funding										
18,713	Payments to staff and suppliers	17,508	18,011	15,116	15,523	16,002	16,503	17,026	17,539	18,111	18,631
905	Finance costs	-	-	-	-	-	-	-	-	-	-
858	Internal charges and overheads applied	607	894	855	861	957	902	927	1,038	988	1,016
-	Other operating funding applications	-	-	-	-	-	-	-	-	-	-
20,476	Total applications of operating funding	18,115	18,905	15,971	16,384	16,959	17,405	17,953	18,577	19,099	19,647
(878)	Surplus (deficit) of operating funding	(395)	(1,035)	4,711	4,913	5,127	5,353	5,598	5,858	6,190	6,446
	Sources of capital funding										
-	Subsidies and grants for capital expenditure	-	-	-	-	-	-	-	-	-	-
2,057	Development and financial contributions	-	-	-	-	-	-	-	-	-	-
11,482	Increase (decrease) in debt	66,689	35,470	20,790	848	(464)	(564)	848	159	19	1,306
-	Gross proceeds from sale of assets	-	-	-	-	-	-	-	-	-	-
-	Lump sum contributions	-	-	-	-	-	-	-	-	-	-
38,702	Other dedicated capital funding	93	123	-	-	-	-	-	-	-	-
52,241	Total sources of capital funding	66,782	35,593	20,790	848	(464)	(564)	848	159	19	1,306
	Applications of capital funding										
	Capital expenditure										
49,916	- to replace existing assets (b)	65,490	33,641	24,561	4,797	3,674	3,773	5,401	4,940	5,098	6,603
42	- to improve the level of service	-	-	-	-	-	-	-	-	-	-
1,405	- to meet additional demand	897	917	940	964	989	1,016	1,045	1,077	1,111	1,149
-	Increase (decrease) in reserves	-	-	-	-	-	-	-	-	-	-
-	Increase (decrease) of investments	-	-	-	-	-	-	-	-	-	-
51,363	Total applications of capital funding	66,387	34,558	25,501	5,761	4,663	4,789	6,446	6,017	6,209	7,752
878	Surplus (deficit) of capital funding	395	1,035	(4,711)	(4,913)	(5,127)	(5,353)	(5,598)	(5,858)	(6,190)	(6,446)
-	Funding balance	-	-	-	-	-	-	-	-	-	-
	Reconciliation to net cost of services										
(878)	Surplus (deficit) of operating funding from funding impact statement	(395)	(1,035)	4,711	4,913	5,127	5,353	5,598	5,858	6,190	6,446
(15,258)	Remove rates funding	(16,150)	(17,056)	(20,661)	(21,276)	(22,069)	(22,741)	(23,539)	(24,423)	(25,277)	(26,080)
(4,731)	Deduct depreciation expense	(4,779)	(10,427)	(10,706)	(11,052)	(11,367)	(11,691)	(12,053)	(12,493)	(12,994)	(13,545)
40,759	Add capital revenues	93	123	-	-	-	-	-	-	-	-
420	Add vested assets / non cash revenue	420	430	440	451	463	476	489	504	520	538
20,312	Net cost of services per activity statement surplus/(deficit)	(20,811)	(27,965)	(26,216)	(26,964)	(27,846)	(28,603)	(29,505)	(30,554)	(31,561)	(32,641)
	Footnotes										
4,320	(a) Earthquake related operating recoveries	1,550	793	-	-	-	-	-	-	-	-
47,778	(b) Earthquake rebuild application of capital funding	61,824	29,994	20,972	-	-	-	-	-	-	-