

6. Flood Protection & Control Works

What we do and why

Council's flood protection and control works are limited to the area and activities known as the Hikurangi Swamp Scheme. These assets and activities provide flood mitigation to some 5,600 hectares of farmland within the Hikurangi Swamp area. The Scheme's purpose is to manage floodwaters to improve the agricultural potential of land within the swamp area. The land benefiting from the Scheme has become highly productive agricultural land resulting in considerable economic benefit to the region. Council is responsible for managing, operating and maintaining this Scheme to ensure the required environmental, cultural and economic results are achieved. The Scheme is funded by targeted rates from properties within the Scheme area.

During the consultation process to finalise this Plan submitters raised concerns that the proposed targeted rates increase would not be affordable. Council agreed to a preferred alternative of a 25% increase in each of years one, two and three and 8% each year thereafter. The capital works programme has been adjusted accordingly to accommodate the revised funding structure.

Our area of focus for the LTP

The Flood Protection activity will focus over the next 10 years on three key areas: Undertaking works to fulfil consent conditions, replacement of pumps, and repayment of the Scheme debt.

Community Outcomes – Flood Protection's contributions

Growing resilient economy	The flood protection activity provides protection to pastoral farming land and provides resilience following flood events to an area of highly productive land.
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■ High Contribution ■ Medium Contribution

Four Well-Beings – Flood Protection's key contributions

Well-Being	Description of Contribution to Well-Being
Economic	The flood protection activity is solely focused on providing protection to pastoral farming land and significantly contributes to the economic wellbeing of the District.

Four Well-Beings – potential negative effects

Well-Being	Potential Significant Negative Effects	Our Mitigation Approach
Environmental	The scheme has little riparian cover, and has potential to increase sedimentation and nutrient loadings into waterways.	Council has a Riparian and Oxbow Management Plan detailing remedial works to restore habitat and riparian margins.
Cultural	The Scheme impacts on the native fish population, specifically eels, by presenting barriers to upstream and downstream migration. Eel are an important cultural value to local Iwi.	Council is preparing a Fishery Management Plan and is actively engaged with local Iwi and other stakeholders on a wider catchment basis.

Levels of Service

6.1 Council will provide a reliable and sustainable flood protection scheme which is managed to mitigate flooding within the Hikurangi Swamp Scheme area to an acceptable level.

Performance Measure	2011-12 Target	2012-13 Target	2013-14 Target	2014-15 Target	2015-22 Target
6.1.1 Floods will be managed in accordance with the Scheme design.	New measure	0 ha significant pasture damage from defined storm events *	0 ha significant pasture damage from defined storm events *	0 ha significant pasture damage from defined storm events *	0 ha significant pasture damage from defined storm events *
6.1.2 No infringement or abatement notices issued by Northland Regional Council in relation to the scheme consent.	New measure	0	0	0	0

**Significant pasture damage is when pasture needs to be re-sown. For the purposes of this measure, a storm event is limited to an event of the magnitude that has an up to 3.5 year average recurrence interval (ARI).*

Whangarei District Council Prospective Funding Impact Statement: Flood Protection & Control Works

	Annual Plan 2011-12 \$000	Year 1 2012-13 \$000	Year 2 2013-14 \$000	Year 3 2014-15 \$000	Year 4 2015-16 \$000	Year 5 2016-17 \$000
Sources of Operating Funding						
General rates, uniform annual general charges, rates penalties	526	-	-	-	-	-
Targeted rates (other than a targeted rate for water supply)	418	523	654	818	883	954
Subsidies and grants for operating purposes	-	-	-	-	-	-
Fees, charges and targeted rates for water supply	63	64	66	68	70	72
Internal charges and overheads recovered	-	-	-	-	-	-
Local authorities fuel tax, fines, infringement fees and other receipts	-	-	-	-	-	-
Total Operating Funding	1,007	588	721	886	954	1,027
Applications of Operating Funding						
Payments to staff and suppliers	417	619	645	670	698	726
Finance Costs	-	114	144	154	147	192
Internal charges and overheads applied	130	-	-	-	-	-
Other operating funding applications	-	-	-	-	-	-
Total Applications of Operating Funding	547	733	789	824	845	918
(Surplus) / Deficit of Operating Funding	(460)	145	68	(63)	(109)	(109)
Sources of Capital Funding						
Subsidies and grants for capital expenditure	-	-	-	-	-	-
Development and financial contributions	-	-	-	-	-	-
Increase / (decrease) in debt	-	586	222	(63)	839	(109)
Gross proceeds from sale of assets	-	-	-	-	-	-
Lump sum contributions	-	-	-	-	-	-
Total Sources of Capital Funding	-	586	222	(63)	839	(109)

	Year 6 2017-18 \$000	Year 7 2018-19 \$000	Year 8 2019-20 \$000	Year 9 2020-21 \$000	Year 10 2021-22 \$000	
Sources of Operating Funding						
	-	-	-	-	-	General rates, uniform annual general charges, rates penalties
	1,030	1,113	1,202	1,298	1,402	Targeted rates (other than a targeted rate for water supply)
	-	-	-	-	-	Subsidies and grants for operating purposes
	74	77	79	81	84	Fees, charges and targeted rates for water supply
	-	-	-	-	-	Internal charges and overheads recovered
	-	-	-	-	-	Local authorities fuel tax, fines, infringement fees and other receipts
	1,105	1,190	1,281	1,380	1,486	Total Operating Funding
Applications of Operating Funding						
	753	787	816	851	887	Payments to staff and suppliers
	182	169	236	219	197	Finance Costs
	-	-	-	-	-	Internal charges and overheads applied
	-	-	-	-	-	Other operating funding applications
	935	956	1,052	1,070	1,084	Total Applications of Operating Funding
	(170)	(234)	(229)	(310)	(402)	(Surplus) / Deficit of Operating Funding
Sources of Capital Funding						
	-	-	-	-	-	Subsidies and grants for capital expenditure
	-	-	-	-	-	Development and financial contributions
	(170)	1,230	(229)	(310)	(174)	Increase / (decrease) in debt
	-	-	-	-	-	Gross proceeds from sale of assets
	-	-	-	-	-	Lump sum contributions
	(170)	1,230	(229)	(310)	(174)	Total Sources of Capital Funding

Whangarei District Council Prospective Funding Impact Statement: Flood Protection & Control Works

	Annual Plan 2011-12 \$000	Year 1 2012-13 \$000	Year 2 2013-14 \$000	Year 3 2014-15 \$000	Year 4 2015-16 \$000	Year 5 2016-17 \$000
Applications of Capital Funding						
Capital expenditure						
To meet additional demand	-	-	-	-	-	-
To improve levels of service	460	-	-	-	-	-
To replace existing assets	-	441	154	-	948	-
Increase / (decrease) in reserves	-	-	-	-	-	-
Increase / (decrease) of investments	-	-	-	-	-	-
Total Applications of Capital Funding	460	441	154	-	948	-
(Surplus) / Deficit of Capital Funding	460	(145)	(68)	63	109	109
Funding Balance	-	-	-	-	-	-

Capital Expenditure: Flood Protection & Control Works

	Total for 10 years \$000	Year 1 2012-13 \$000	Year 2 2013-14 \$000	Year 3 2014-15 \$000	Year 4 2015-16 \$000	Year 5 2016-17 \$000
Hikurangi Swamp – Pump Replacements	2,793	-	153	-	948	-
Hikurangi Swamp Scheme – Programmed Works	441	441	-	-	-	-
Total Capital Expenditure Flood Protection & Control Works	3,234	441	153	-	948	-

	Year 6 2017-18 \$000	Year 7 2018-19 \$000	Year 8 2019-20 \$000	Year 9 2020-21 \$000	Year 10 2021-22 \$000	
Applications of Capital Funding						
Capital expenditure						
	-	-	-	-	-	To meet additional demand
	-	-	-	-	-	To improve levels of service
	-	1,464	-	-	228	To replace existing assets
	-	-	-	-	-	Increase / (decrease) in reserves
	-	-	-	-	-	Increase / (decrease) of investments
	-	1,464	-	-	228	Total Applications of Capital Funding
	170	234	229	310	402	(Surplus) / Deficit of Capital Funding
	-	-	-	-	-	Funding Balance

	Year 6 2017-18 \$000	Year 7 2018-19 \$000	Year 8 2019-20 \$000	Year 9 2020-21 \$000	Year 10 2021-22 \$000	
	-	1,464	-	-	228	Hikurangi Swamp – Pump Replacements
	-	-	-	-	-	Hikurangi Swamp Scheme – Programmed Works
	-	1,464	-	-	228	Total Capital Expenditure Flood Protection & Control Works