

Urban Whangārei Rivers Working Group

Thursday 2 April 2026 at 10:30 am - 12:00 pm

AGENDA

Urban Whangārei Rivers Working Group Agenda

Meeting to be held in the Council Chambers
36 Water Street, Whangārei
on Thursday 2 April 2026, commencing at 10:30 am - 12:00 pm

Please note: working parties and working groups carry NO formal decision-making delegations from council. The purpose of the working party/group is to carry out preparatory work and discussions prior to taking matters to the full council for formal consideration and decision-making. Working party/group meetings are open to the public to attend (unless there are specific grounds under LGOIMA for the public to be excluded).

MEMBERSHIP OF THE URBAN WHANGĀREI RIVERS WORKING GROUP

Chairperson, NRC Councillor Jack Crow

Iwi representative, Mira Norris	WDC Acting Manager – Stormwater, Ravi Muwal	Northchamber Representative Leah McKerrow
WDC Project lead - Whangarei Urban Flood Strategy (contractor), Matt de Boer	Cook Costello - Director and Senior Engineer, Phil Cook	

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TITLE: **Record of Actions – 12 September 2025**


From: Haylee Labelle, Personal Assistant Community Resilience

Authorised by Louisa Gritt, Group Manager - Community Resilience, on 27 February 2026
Group Manager/s:

Whakarāpopototanga / Executive summary

The purpose of this report is to present the Record of Actions of the last meeting (attached) held on 12 September 2025 for review by the meeting.

Attachments/Ngā tapirihanga

Attachment 1: Minutes - 12 September 2025 [↓](#) 

Urban Whangārei Rivers Working Group
12 September 2025

Urban Whangārei Rivers Working Group Record of Actions

Meeting held in Tutukaka-Nui room
36 Water Street, Whangārei
on Friday 12 September 2025, commencing at 10:00 am - 11.30am

Tuhinga/Present:

Chairperson - NRC Councillor, Jack Craw
Iwi representative, Mira Norris (online)
Water CCO, Andrew Carvell

I Tae Mai/In Attendance:

Full Meeting

NRC River Management Engineer, Barney Brotherhood
NRC Rivers Manager, Joseph Camuso
NRC Rivers Asset Management Officer, Dale Roberts
NRC Secretariat, Haylee Labelle
WDC Alternate, Councillor Phil Halse
WDC Stormwater Manager, Ravi Muwal
WDC Representative, Matt De Boer
NRC Councillor, Joe Carr (online)

The meeting commenced at 10am with karakia from the chair.

Ngā Mahi Whakapai/Housekeeping (Item 1.0)

Ngā Whakapahā/Apologies (Item 2.0)

Moved (Halse / Carvell)

WDC Mayor Vince Cocurullo, Northchamber Representative - Leah McKerrow, Dominic Kula, Bernadette Aperahama, Cr Crawford, Sarah Guaden-Ing, Louisa Gritt, Cr Robinson, Cr Shortland, Cr Stolwerk, Simon Weston

Record of Actions – 3 April 2025 (Item 3.1)

Presented by: Cr Craw

Moved (Craw / Carvell)

Secretarial notes: Introduced Ravi Muwal who is the newly appointed stormwater manager at WDC

Agreed action points:

1. NRC Secretariat to add Ravi Muwal (WDC) to the email contact group for the meetings

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Receipt of Action Sheet (Item 3.2)

Presented by: Cr Craw

Secretarial notes: discussed the progress of the solar panel project at the dam, including the involvement of Northpower, the need for grid connection approval, and the exploration of alternative, cost-efficient solar panel systems with input from Mira and other groups.

- Dale provided an update on the solar array project at the dam, noting that the business case has been approved and the project is progressing to detailed design, with Phil, Northpower and a designer involved in site visits to finalise the reservoir connection.
- It was clarified that Northpower's primary role is to approve grid connection, not to supply the panels, and that the project team must ensure the chosen system is compatible with Northpower's grid requirements.
- Mira highlighted that there are multiple types of solar panel systems available, including more cost-efficient options used by farmers and businesses, and offered to share contacts and information about these alternatives with the project team.

Agreed action points:

1. **Email information and contacts for other groups installing cost-efficient solar panels to the NRC Rivers Manager. (Mira)**

Presentation Slides (Item 3.3)

Presented by: Joe Camuso and Dale Roberts

Secretarial notes: Led a detailed review of the dam and river scheme budgets, addressing questions from participants about increased maintenance costs, income from rental properties, debt repayment schedules, and compliance-related expenditures.

- Budget Performance and Expenditure: reviewed the previous and current year's budgets, noting that major expenditures included dam maintenance, vegetation clearance, and property management, with some costs deferred to the current year due to ongoing dam safety assurance programmes.
- Questions were raised about increased spending on tenanted properties at the dam, with explanations provided that tree felling, gutter repairs, and healthy homes compliance upgrades were necessary, while rental income remained stable.
- explained that the dam's debt is being paid off faster than originally planned due to favourable interest rates and additional income, with the projected payoff now expected 4-5 years ahead of the original 25-year schedule.
- Insurance costs were discussed, with the team noting recent favourable deals due to combined council agreements, but also highlighting concerns about future changes to these agreements due to sector reforms; compliance costs for dam safety reviews and assurance programmes were also budgeted.
- Reviewed recent flood events, dam performance, and ongoing maintenance challenges, including sediment and vegetation management, design issues with drains, and the need for more permanent solutions.

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- Compared recent flood events, noting that while the 2020 event was larger in terms of inflow, the reservoir did not exceed one-third of its total capacity, demonstrating the dam's effectiveness in managing extreme weather.
- Regular maintenance is required to clear drains and manage vegetation growth, with Dale describing the challenges of frequent blockages and the need for more efficient, less machinery-intensive solutions.
- Discussed design flaws in the drainage system, considering options such as installing a rock groyne or concrete apron to facilitate easier manual clearing and reduce reliance on heavy equipment. In terms of the future works required, we would like to complete these this year with an approximate spend of \$20k required. The drains are part of the dams everyday use and drain ground water out of the embankment.
- Mira provided historical context, explaining that persistent water flow in certain areas is due to the original Nihotetia stream, and that natural waterways continue to influence site conditions despite engineering interventions.
- Discussed inspections and maintenance of flood protection infrastructure, including floodwalls, floodgates, and riverbank vegetation, with attention to issues such as undermining, missing gates, and the need for ongoing monitoring.
 - Inspections revealed undermining of a floodwall on Woods Rd and a missing or potentially altered floodgate, prompting plans to reinstate rock armouring and investigate the presence of internal floodgate mechanisms. NRC Rivers Asset Management Officer will be investigating this further.
 - Reviewed recent riverbank inspections, noting that previous large-scale vegetation and debris removal had reduced current risks, but ongoing monitoring is necessary to prevent blockages and flooding, especially near bridges.
 - Discrepancies between modelled and observed river flows were identified at Whareora, with plans to engage the hydrology team to improve gauging and ensure more accurate flood risk assessments. NRC Rivers Asset Management Officer completed a river inspection here earlier this week and some vegetation will be removed.

Agreed action points:

1. **NRC Rivers Manager to confirm the projected date for paying off the dam debt.**
2. **NRC Rivers Manager to check the term length of the current insurance policy and confirm if it is annual or three-yearly.**
3. **NRC Rivers Asset Management Officer to meet with insurance brokers and discuss the potential impacts of two waters reform on combined insurance agreements at the upcoming national management meeting in November.**
4. **NRC Rivers Asset Management Officer to investigate the missing or internal floodgate mechanism at Woods Rd and reinstate appropriate support under the floodwall.**
5. **NRC Rivers Manager to liaise with the hydrology team (including Allen) to address discrepancies in river flow modelling and explore options for more accurate gauging at Whareora.**

WDC Projects Update (Stormwater pump station – Morningside & Attenuation Project – Tikipunga) (Item 3.4)

Presented by: Andrew Carvell

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Secretarial notes: Andrew presented updates on stormwater pump station operations, the completion of major drainage works, and the design of new attenuation structures to manage urban flooding and support future growth.

- Discussed the operational status of a new pump station at Morningside, including its performance during recent events, the completion timeline for associated pipework, and the use of hydraulic modelling to assess flood reduction benefits. The pipes are not yet completed but will be finished by the end of October. This project received \$3M of RIF funding.
- The pump station project was delivered on time and nearly on budget, with council approval to pool funding and use the project as an example of effective delivery; it was clarified that the project was not funded as a joint venture.
- Plans for a new attenuation structure in the northern growth area were discussed, including property acquisition, feasibility studies, and the use of modelling to optimise flood peak reduction and support development without increasing downstream risk. Funding is secured for property purchases and consents will view to start construction next year. Looking at the opportunity to reinstate the old wetland system.

Agreed action points:

1. **NRC Secretariat to circulate a copy of the presentation with the minutes to the working party**

Joint NRC/WDC Whangarei Urban Flood Management Strategy Update (Item 3.5)

Presented by: Matt De Boer

Secretarial notes: Discussed the progress of the urban flood strategy (cofounded project), including technical assessments, stakeholder engagement, data improvements, and the challenges of clarifying roles and responsibilities between councils.

- The technical assessment phase of the urban flood strategy is now underway, with consultants engaged to deliver recommendations by mid-next year, and a focus on robust modelling, scenario testing, and investment objectives.
- A memorandum of understanding is in place between councils, with regular steering group meetings, technical advisory groups, and public engagement activities; a joint workshop is planned for April to facilitate decision-making.
- There is a GM steering group which meets every three months but noted that there is no joint working group for Councillors – they go to each Council for updates.
- Contractors are surveying stormwater networks to address data gaps, with upgrades to hydrological models to reflect current and future climate projections, aiming to improve the accuracy of flood risk assessments.
- The discussion highlighted overlapping and unclear responsibilities between regional and district councils for flood and stormwater management, the complexity of funding mechanisms, and the need for a coordinated approach, especially in light of sector reforms.

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- Mira and others emphasised the importance of involving tangata whenua and local communities in planning and decision-making, particularly regarding culturally sensitive proposals and the need for transparent, inclusive processes.

Agreed action points:

- **Urban Flooding Strategy Technical Assessment: Share a copy of the completed strategic case for the urban flooding strategy with interested parties. Matt De Boer**
- **Confirmed the intent is to reestablish this working group for the next Council with a view to extend the TOR to have more oversight**

Any other Business (Item 3.6)

Presented by: Cr Craw

Secretarial notes: Long-Term Flood Risk Management Options and Decision-Making: participants debated long-term flood risk management options for the city, including structural interventions, land use changes, and the need for comprehensive planning, funding, and community involvement.

- Outlined that the strategy will consider a spectrum of options, from 'do nothing' to major infrastructure such as barrages or land raising, with technical, financial, and social trade-offs to be evaluated.
- Mira strongly opposed certain structural solutions on cultural grounds, advocating for early and meaningful involvement of tangata whenua in both option development and design phases.
- It was agreed that councils will ultimately decide on preferred options, but that working groups and community representatives will be consulted throughout, with short-term actions and further investigations possible as options are narrowed.
- Participants discussed the need for long-term funding mechanisms to support major interventions, the importance of aligning development contributions, and the challenges posed by changing council membership and priorities.
- Andrew Carvell has been appointed as the CCO Implementation Director for 10-months, someone will step into his current role in the interim and Ravi will support this working group in his absence.

Agreed action points:

- NIL

Whakamutunga (Conclusion)

The meeting concluded at 11.47am with karakia by Andrew.

TITLE: **Receipt of Action Sheet**

From: Haylee Labelle, Personal Assistant Community Resilience

Authorised by Louisa Gritt, Group Manager - Community Resilience, on 20 March 2026
Group Manager/s:

Whakarāpopototanga / Executive summary

The purpose of this report is to enable the meeting to receive the current action sheet.

Nga mahi tutohutia / Recommendation

That the action sheet be received.

Attachments/Ngā tapirihanga

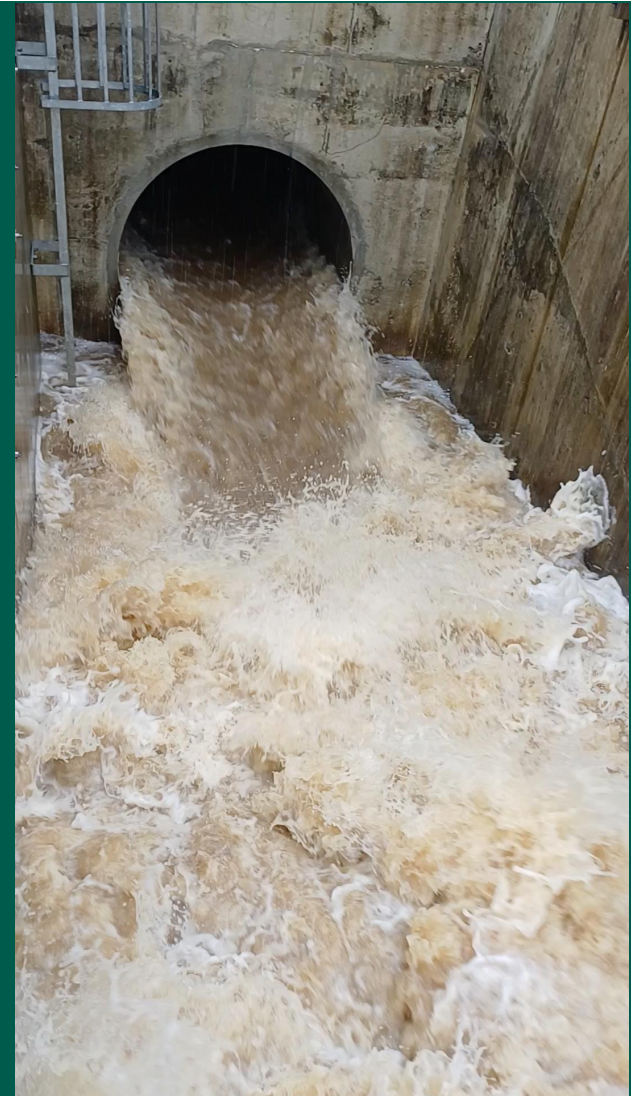
Attachment 1: Action Sheet [↓](#) 

Urban Whangārei River Working Group - Action Tracker

Meeting date	Item	UWRWG action	Responsible staff	Status	Notes
3/08/2023	Investment outcomes (Item 3.2)	Accelerate the planting at Hopua te Nihotetea Detention Dam	NRC	Closed	<p>18/9/25 Dale provided an update on the solar array project at the dam, noting that the business case has been approved and the project is progressing to detailed design, with Phil, Northpower, and a designer involved in site visits to finalise the reservoir connection. The chair is satisfied that this action can be closed</p> <p>1/9/25 Have passed on the solar farm info to the Land Management team, to ensure they are aware how it might affect tree planting. Other than a brief conversation with Land Management, have not been able to prioritise new tree planting, due to all the work on the houses on site, the dam compliance work and procurement for a new dam maintenance contract. Will ask Phil for an update regarding the solar farm, then we can get a better idea of where new planting can go ahead.</p> <p>26/8/25 Solar farm has advanced to business case</p> <p>2/4/25 Rivers Asset Management Officer, Dale Roberts, has been in contact with NRC's Property and Land Management team to ensure everyone is aware of the details of the proposed solar farm. Dale has discussed with the Land Management team to ensure this proposal won't affect their planting and to inform them that any additional planting should be avoided in the proposal area. Dale will continue to liaise with both teams to ensure coordination.</p> <p>10/3/24 Joe has tasked to Dale to follow-up</p> <p>Need to outline a Master Plan for the Dam usage- i.e., NRC Wide plan, i.e. there is a proposal for a potential Solar Farm scheduled for the dam - BMX track etc, would not want to plant and then have to remove plantings for Solar Farm or other uses.</p>
4/10/2024	Any other business (Item 3.10)	Cast the net wider for new members for the Urban Whangarei Rivers Working party, stating the benefits of belonging to the party	NRC Rivers Manager	Progressing	<p>20/3/25 Nicole reached out to Matt Johnson - NRC media specialist to arrange some comms however Matt advised he had spoken to Joe about this and its now with Joe again</p> <p>10/3/24 Joe has tasked Nicole Basher to follow-up in house with the comms team on promoting the working group in the community</p>
3/04/2025	Receipt of Action Sheet (Item 3.2)	NRC Rivers Manager to approach North Chamber about working group vacancies for Morningside and Raumanga	NRC Rivers Manager	Complete	2/3/26 NRC Rivers Manager emailed NorthChamber CEO Leah McKerrow and the office email. She is already on the invite list but sent apologies for all meetings in 2025
3/04/2025	Joint NRC/WDC Whangarei Urban Flood Management Strategy Update (3.6)	Send Matt De Boer contacts with construction experience	Phil Cook		
3/04/2025	Any other business (Item 3.7)	NRC Rivers Team to conduct a site visit to inspect the area between the Whareora Rd bridge and the Canopy Bridge for any large tree trunks that could pose a flood risk.	NRC Rivers Team	Complete	<p>12/9/25 Provided an update at the September meeting that the site visit has been completed and identified some vegetation which will be removed</p> <p>1/9/25 This has been scheduled for after 8/9/25</p>
3/04/2025	Any other business (Item 3.7)	Present the feasibility work for the stormwater attenuation system (Tikipunga/Vinegar Hill Road) to the committee by the end of July.	Andrew Carvell	Complete	<p>12/9 Update provided</p> <p>20/8/25 Andrew confirmed he will provide an update at the September meeting</p> <p>3/4/25 NRC Secretariat to reach out when preparing agenda to confirm if ready to present</p>
12/09/2025	Record of Actions (Item 3.1)	Add Ravi Muwal to the email contact group for the meetings	NRC Secretariat	Complete	16/09/2025
12/09/2025	Receipt of Action Sheet (Item 3.2)	Email information and contacts for other groups installing cost-efficient solar panels to the NRC Rivers Manager	Mira Norris	Complete	<p>3/3/26 Mira emailed NRC Rivers Manager - This group (ref attachment) was promoting cost efficient solar panels. They sell these products to farmers but source their subcontractors outside of Whangarei, therefore not impressed. Speaking with other large businesses operating in Whangarei technology has changed and better value systems are available.</p> <p>Meridians' Battery Energy Station at Marsden Point are in the process of implementing their solar farm. Northpower have installed a solar farm at Ruawai and are developing a solar Energy plant at Maungatapere- both are worth communicating with. Northpower has a power station within reasonable distance to the dam, but land accessibility, stability and visual impact will need to be addressed.</p> <p>Communications with Northpower will help to assess cost efficiency and viability.</p> <p>Meridian contact- Robert Batters (Robert.Batters@meridianenergy.co.nz)</p> <p>Northpower contact- Andrea.GREENHALGH@northpower.com</p> <p>Ngā mihi Mira Norris</p>
12/09/2025	Presentation Slides (Item 3.3)	Confirm the projected date for paying off the dam debt	NRC Rivers Manager	Complete	
12/09/2025	Presentation Slides (Item 3.3)	Check the term length of the current insurance policy and confirm if it is annual or three-yearly	NRC Rivers Manager	Complete	15/9/25 Financial modelling has the debt that the scheme is carrying paid off in 2033-2034 financial year
12/09/2025	Presentation Slides (Item 3.3)	Meet with insurance brokers and discuss the potential impacts of two waters reform on combined insurance agreements at the upcoming national management meeting in November	NRC Rivers Asset Management Officer	Complete	NRC Rivers Asset Management Officer met with the National Flood Risk Asset Management group (NaFRAM) to discuss. The consensus is, Local Waters Done Well, will cause our existing premiums to become very expensive. This is because NRC will no longer be in a combined insurance group with district councils. Our insurance broker, AON, have advised the various regional councils all need to consider parametric or self insurance to help mitigate increasing premiums. NaFRAM will next send a survey out asking what each regional councils are thinking, to help proposed a joint way forward.
12/09/2025	Presentation Slides (Item 3.3)	Investigate the missing or internal floodgate mechanism at Woods Rd and reinstate appropriate support under the floodwall.	NRC Rivers Asset Management Officer	Complete	NRC Rivers Asset Management Officer has investigated the flood gate mechanisms during a flood event. Have confirmed that the gates are working and they are an internal valve mechanism. Repairs to the rock armour supporting one of the culvert headwalls have yet to take place. Quotes have been requested from a few contractors, but this work may need to be packaged with more substantial works to attract interest. Will progress this going forwards.
12/09/2025	Presentation Slides (Item 3.3)	Liaise with the hydrology team (including Allen) to address discrepancies in river flow modelling and explore options for more accurate gauging at Whareora	NRC Rivers Manager		
12/09/2025	WDC Projects Update (Stormwater pump station – Morningside & Attenuation Project – Tikipunga) (Item 3.4)	Circulate a copy of the presentation provided by Andrew Carvell with the minutes to the working party	NRC Secretariat	Complete	23/9/25 circulated presentation in the email that contained the meeting minutes
12/09/2025	Joint NRC/WDC Whangarei Urban Flood Management Strategy Update (Item 3.5)	Urban Flooding Strategy Technical Assessment: Share a copy of the completed strategic case for the urban flooding strategy with interested parties.	Matt De Boer	Complete	9/3/26 circulated to members by email
12/09/2025	Joint NRC/WDC Whangarei Urban Flood Management Strategy Update (Item 3.5)	Confirmed the intent is to reestablish this working group for the next Council with a view to extend the TOR to have more oversight	NRC Rivers Team	Complete	Terms of Reference review is an agenda item for the April 2026 meeting as is a discussion on the membership of the working group

Whangarei Urban Update

2 April 2026



Budget FY25/26

Whangarei Urban Rivers Financial Report						
5006						
Description	2024/2025			2025/26		
	Budget	Actual	Variance	Budget YTD February 2026	Actual YTD February 2026	Variance
Operating Expenses						
Protective Clothing	0	0	0	0	0	0
Staff Celebrations	0	0	0	0	0	0
Insurance	3,418	7,356	(3,938)	3,418	5,400	(1,982)
Consultants	8,632	15,889	(7,257)	0	22,340	(22,340)
Legal Fees	0	0	0	0	0	0
Valuation Consultants	0	0	0	0	0	0
Contract Staff	0	0	0	0	0	0
Stopbank & River Schemes works	61,654	46,822	14,832	18,938	4,088	14,850
River Clearance Works	45,671	15,168	30,502	20,193	3,630	16,563
Flood damage work programme	0	0	0	0	0	0
R&M - Commercial Properties	0	0	0	0	1,295	(1,295)
Rates - owner occupied properties	6,221	0	6,221	4,899	0	4,899
Koha/donations	0	600	(600)	0	0	0
Field Equipment	0	343	(343)	0	0	0
Postage and Couriers	0	0	0	0	0	0
Vehicle running costs	0	0	0	0	0	0
Sundry Supplies	0	0	0	0	0	0
Rates - investment properties	0	854	(854)	0	0	0
Water Rates - investment properties	0	0	0	0	0	0
Tenants - Share of Costs	0	0	0	0	0	0
Expenses - Tenanted Property	14,734	23,246	(8,513)	37,718	34,571	3,147
Commission - Tenanted Property	4,973	5,576	(603)	3,315	3,105	211
Rate Collection Cost - TA's	18,342	14,864	3,478	12,619	12,653	(34)
Internal Interest Expense	0	0	0	0	0	0
Interest Paid - Sundry	201,252	280,671	(79,419)	122,779	174,124	(51,346)
Depreciation - Infrastructure Assets	0	0	0	0	0	0
Depreciation - Infrastructure Dam Assets	79,833	93,231	(13,398)	53,222	53,222	0
Labour Charged	0	1,659	(1,659)	0	990	(990)
Sub Total	444,729	506,278	(61,549)	277,101	315,419	(38,318)
Operating Income						
Rates Revenue	943,292	942,543	(749)	628,861	627,939	(922)
Tenants - Recovery of Costs	0	0	0	0	0	0
Interest - Cash	0	0	0	0	0	0
LTF Gains	0	0	0	0	0	0
Interest - Internal	0	0	0	0	0	0
Interest Long Term Fund In House Managemen	0	0	0	0	0	0
Rent received -Commercial Property	0	0	0	0	0	0
Rent received - Dam Properties	32,000	54,071	22,071	34,277	32,700	(1,577)
Rent received - Marsden Point Rail Properties	0	0	0	0	0	0
Sub Total	975,292	996,614	21,322	663,138	660,639	(2,499)
Net operating Surplus / (Deficit)	530,563	490,335	(40,228)	386,037	345,220	(40,817)
Capital expenditure	0	0	0	0	0	0
Less depreciation	79,833	93,231	(13,398)	53,222	53,222	0
Net operating and capital surplus / (Deficit)	610,396	583,566	(26,830)	439,259	398,442	(40,817)
Surplus / (Deficit) carried forward	(5,941,733)	(6,529,894)	(588,162)	(4,892,078)	(6,039,559)	(1,147,481)
Surplus / (Deficit) at balance date	(5,331,336)	(6,039,559)	(708,222)	(4,452,819)	(5,694,339)	(1,241,520)

Budget FY25/26

Whangarei River FIR Programme FIR

5018

Description	2024/2025			2025/26		
	Budget	Actual	Variance	Budget YTD February 2026	Actual YTD February 2026	Variance
Operating Expenses						
Stopbank & River Schemes works	0	0	0	0	0	0
Rate Collection Cost - TA's	728	732	(4)	500	502	(1)
Interest Paid - Sundry	5,456	0	5,456	3,637	0	3,637
Interest Paid FIR	0	0	0	0	0	0
Depreciation - Infrastructure Assets	4,547	0	4,547	3,031	3,031	0
Labour Charged	0	200	(200)	0	472	(472)
Sub Total	10,731	932	9,799	7,169	4,005	3,164
Operating Income						
Rates Revenue	46,446	46,409	(37)	30,964	30,919	(45)
Interest - Internal	0	9,470	9,470	0	2,390	2,390
Gains Other	5,754	0	(5,754)	0	0	0
Sub Total	52,200	55,879	3,679	30,964	33,309	2,345
Net operating Surplus / (Deficit)	41,469	54,947	13,478	23,795	29,304	5,509
Capital expenditure (70% of total)			0	91,000	210,000	(119,000)
Capital expenditure (30% of total)			0	39,000	90,000	(51,000)
Total Capital Expenditure	0	0	0	130,000	300,000	(170,000)
Less depreciation			0			0
Net operating and capital surplus / (Deficit)	41,469	54,947	13,478	(15,205)	(60,696)	(45,491)
Surplus / (Deficit) carried forward	202,661	214,607	11,947	228,924	269,554	40,630
Surplus / (Deficit) at balance date	244,129	269,554	25,425	213,719	208,858	(4,861)

Weather Event January 21st 2026

Hopua te Nihotetea Detention Dam
Reservoir

Second weather event at dam in
25/26

First event was July 29th 2025



Weather Event February 13th 2023 (C. Gabrielle)

Hopua te Nihotetea Detention Dam
Reservoir



Works Completed in 25/26

Hopua te Nihotetea Detention Dam

Drain clearing to be complete with
an excavator



Works Completed in 25/26

Hopua te Nihotetea Detention Dam

Drain cleared with an excavator



Works completed in 25/26

Woods Rd Floodwall

Floodgates confirmed to be
working



Works in 25/26

Vegetation building up in Kotuku
Dam spillway

Will continue to clear with a shovel



Future works

Hopua te Nihotetea Detention Dam

Investigation into permanent fix for
blocked drains

Possibly a rock groyne could reduce
the sediment

Solution will require design by Dam
engineer



Future works

Hopua te Nihotetea Detention Dam

Vegetation build can get quite bad,
as shown in December 2024.

Constant flow of water, contributes
to this issue.

Potential to direct low flow down
existing swale above.

Will need design and input from
Dam engineer.



Future works

Woods Road Floodwall

Undermined headwall

Rock armour to be sized appropriately and replaced





Any questions?

Ngā Mihi - Thank you