



Kaituna Catchment Control Scheme Advisory Group Meeting

Tuesday 28 September at 10am

Settlers Lounge
Te Puke War Memorial Hall
130 Jellico Street
Te Puke

Kaituna Catchment Control Scheme Advisory Group Meeting

Tuesday 28 September at 10am

Agenda

- 1 **Welcome**
- 2 **Apologies**
- 3 **Notes of previous meeting held 3 March 2021**
- 4 **Matters arising from previous meeting**
- 5 **Scheme annual report 2020-2021**
- 6 **Capital work programme**
- 7 **Maintenance work programme**
- 8 **Co-governance/freshwater community group updates**
- 9 **Members forum**
 - a. Changing strategic landscape discussion
- 10 **General business**
 - a. Asset Management general business report
 - b. River Scheme webpages demonstration
 - c. Environmental data portal demonstration
 - d. Land purchase - Waka Kotahi NZ Transport Agency, 502 Bell Road
- 11 **Public forum**
- 12 **Meeting closure**

Notes of the Kaituna Catchment Control Scheme Advisory Group meeting held at the Bay of Plenty Regional Council office 1118 Fenton Street, Rotorua, on Wednesday 3 March 2021 commencing at 10 am

Chair:	Councillor Norm Bruning
Advisory Group:	Barry Roderick, Dave Hurst, Graham Thompson, Heather Brake, Nick Chater, Richard Weld, Roger Hintz, Councillor John Scrimgeour (Western Bay of Plenty District Council), Peter Dine (Rotorua Lakes Council)
BOPRC Councillors:	Councillor Jane Nees (via Zoom)
BOPRC Staff:	Kirsty Brown (Rivers and Drainage Assets Manager), Cleo Hanlon (Coordinator, Rivers and Drainage), Kerry Smith (Area Engineer), Chris Ingle (General Manager Integrated Catchments), Mark Townsend (Engineering Manager), Paula Chapman (Project Manager), Mereana Toroa (Finance Support Team Leader)
Te Maru o Kaituna:	Dean Flavell (via Zoom)
Apologies:	Councillor Matemoana McDonald, Bruce Crabbe (Rivers and Drainage Operations Manager), Cor Verwey, Luther Siemelink

1 **Welcome**

Councillor Bruning welcomed everyone to the meeting. Kirsty Brown introduced Heather Brake (newly appointed Rotorua urban representative), Mereana Toroa (Finance Support Team Leader) and Cleo Hanlon (Rivers and Drainage Coordinator) to the group.

2 **Apologies**

Apologies received as recorded above.

3 **Notes of previous meeting held 2 September 2020**

Resolved

That the Kaituna Catchment Control Scheme Advisory Group:

- 1 Confirm the notes of the meeting held 2 September 2020 as a true and correct record.**

**Roderick/Hurst
CARRIED**

4 **Matters arising from previous meeting held 2 September 2020**

Barry Roderick requested an update on the independent review of the Bell Road options as recommended at the September 2020 meeting. Update to be provided in Engineering update agenda item.

5 **Engineering update**

Mark Townsend spoke to his report and presentation.

Key points:

- Ford Road Pump Station Upgrade Project: A number of options have been assessed using a multi-criteria analysis. Option 1 (additional pump capacity at existing Diagonal Drain site) and Option 6b (new pump station at existing Ford Road site) have been identified for more detailed design, modelling and consultation. Option 1 is the current preferred option with a cost estimate of \$9.5 million. Initial consultation has been undertaken. Further consultation with iwi is required, however initial consultations suggest iwi preference is Option 1.
- Kaituna Mole: Renewal works involve constructing a new sheet pile wall and concrete deck around the existing structure. The mole structure is a popular community space and additional budget of \$600,000 has been approved by Council in 2021/22 to construct community amenities. Crown Infrastructure Partnership (CIP) funding has been approved for this project and will contribute up to \$1.9 million. Construction is programmed to commence mid 2021.
- Rotorua Streams capacity review: Hydrological and hydraulic modelling of the minor Rotorua streams is undertaken every 15 years to determine whether flood capacity is as designed. Modelling of the Puarenga and Waiowhero Streams is programmed this year. The Waingaehe Stream will be reviewed next at the request of Rotorua Lakes Council (to be cost shared).
- Ngongotahā Stream Flood Mitigation Project (implementing recommendations of the independent review): Consultation is underway with landowners and key stakeholders directly affected by the proposed civil works. Upper catchment tree removal and detention bund works began in late 2020 and will continue for most of 2021. Central government's CIP funding is contributing 75% to the costs.
- Development within the Kaituna catchment
 - Rangiuru Business Park: Consent was granted in 2006. Discussion followed concerning Council granting this consent to Quayside Holdings, and whether this was a conflict of interest. Assurance was given that Quayside Holdings are not being afforded any special treatment, and independent Commissioners made decisions on the resource consents.
 - Te Puke West: Western Bay of Plenty District Council does not have to contribute to the scheme under current RMA rules, however options are being discussed.
 - Pukehangi, Rotorua (PC2) development: Engineering opinion has been backed by the Commissioner. Learnings from the Pukehangi Development are being applied to the Eastside Development.

- Pond H: A monitoring device is to be installed to monitor water level and flow during rain events.
- Pond G: An independent review has found that the pond size is insufficient.

Discussion:

- Beca have been engaged to carry out an independent review of Bell Road options. Members felt the review will help inform land owner farming/business decisions prior to any Council infrastructure work being planned.
- Suggestion made that the Ford Road Pump Station costs should be funded 50:50 targeted and general rates.
- Members questioned why the Ford Road Pump Station replacement had not been considered during the Kaituna Rediversion Project. Comment was made that the replacement pump station new estimated costs are now too high due to delays in construction (due to the diversion project being prioritised).

Action: That a submission to the LTP 2021-31 be made by the Advisory Group, requesting funding assistance for the Ford Road Pump Station.

6 Operations update

Kerry Smith spoke to a presentation on the scheme's maintenance works programme.

Key points:

- The left bank of the Raparapahoe Stream, approximately 1 km downstream of the drop structure, has been reshaped,
- Replenishment of rock armouring on the Ōngātoro/Maketū Estuary channel has been completed, funded from the Coastal Catchments activity budget.
- The floodgate on the main 1800 mm water supply culvert to the Kaituna wetland has been replaced to improve water supply during summer. The floodgate is a modern, fish-friendly design. Barry Roderick questioned wetland water level after installation.

Action: Kerry Smith to send Barry Roderick some graphs on the water levels, post floodgate replacement.

- Rock armouring and gum tree removal is taking place along the Ngongatahā Stream. Barry Roderick asked if the oxbow could be removed to avoid erosion issues. Mark Townsend responded that removing natural meanders can result in downstream erosion, and also removes fish habitat.

Discussion:

- Dave Hurst requested an update on the Pukepine compliance issues on behalf of Cor Verwey.

Action: Bruce Crabbe to provide a memo updating the Advisory Group on progress with compliance issues at Pukepine.

7 April 2017 Flood Repair Project update

Paula Chapman spoke to the report provided in the agenda pack and delivered a presentation showing progress with the April 2017 Flood Repair Project.

Key points:

- Expenditure to date for the Kaituna Catchment Control Scheme is \$4.4 million, with recoveries of \$1.25 million. The final insurance and central government claims are still to be completed.
- There are only four repair sites remaining in the Kaituna catchment, and these are on track for completion by 30 June 2021.
- 87% of repairs have been completed across the region and the overall programme is on track for completion by 30 June 2021.

8 Finance report

Kirsty Brown tabled an updated Finance Report, and provided an overview of the scheme's revenue and expenditure for the six months ending 31 December 2020.

Key points:

- Total revenue is \$77,000 lower than budgeted, but the reserve interest adjustment is to come.
- Total capital revenue for the first six months is lower than budget due to delays in processing CIP funding for Ngongotahā and the Kaituna Mole.
- Total capital expenditure by project was under budget.
- Total reserves funds available at 31 December 2020 was \$5.7 million.
- The loans closing balance was \$8.8 million. The current interest rate on loans is 3%, with an assumption this will decrease to 2% on 1 July 2021.
- The scheme's asset valuation as at 1 July 2020 was \$71 million.

9 River Scheme planning (Asset Management Plan and Long Term Plan)

Kirsty Brown delivered a presentation on river scheme planning.

Key points:

- Minimal changes to the numbers since what was presented at the September 2020 Advisory Group meeting.
- Submissions to the Long Term Plan (LTP) are currently open, closing 4pm on 22 March 2021.
- The finance team developed a [rates calculator](https://myrates.boprc.govt.nz) (https://myrates.boprc.govt.nz) which demonstrates to the user how different options outlined in the LTP consultation document may affect their rates.

10 Co-governance / community group updates

The report on Focus Catchments in the Kaituna Catchment Control Scheme was taken as read, and no discussion was had.

Dean Flavell (Te Maru o Kaituna Chairman) joined the meeting by zoom, to speak to members about Te Maru o Kaituna River Authority and their various projects.

Key points:

- All projects undertaken by Te Maru o Kaituna can be found on their website www.kaituna.org.nz.
- The Kaituna River Document is a statutory document launched by Te Maru o Kaituna, to promote the restoration, protection and enhancement of the well-being of the Kaituna River and its tributaries.
- The Kaituna River Action Plan outlines what will be done over the next ten years to deliver on the vision, objectives and outcomes of the Kaituna River Document.

Discussion:

- Councillor Nees has been impressed at the response to the action plan, and what is being proposed. Te Maru o Kaituna has the wellbeing of the Kaituna River at its heart.
- Te Maru o Kaituna is partly funded by Regional Council from work programmes, along with other organisations. Nick Chater sits on Te Maru o Kaituna committee, and noted most costs have been for administration and development of the River Document.

11 General business

Kirsty Brown spoke to the general business update provided in the agenda pack.

11.1 Flood Protection and Drainage Bylaws 2020

Following a review of the 2008 Bylaws, the 2020 Bylaws were formally adopted on 17 December 2020 and became operative 1 February 2021. Key changes to the bylaws include:

- Strengthening clauses relating to stock access to drains
- Extending bylaw applicable areas
- Additional clauses related to fencing, ploughing and land use intensification in areas with pumiceous soils (this includes the lower Kaituna River)
- Inclusion of additional floodways
- Additional clauses relating to written authority management plans for multiple bylaw authority applications.

Discussion:

- It was noted that there does not appear to be anything in the Bylaws to determine the location of the stopbank landward toe. This was a key topic for the hearings

panel, and a decision was made to use the original design of the stopbank. The toe of the stopbank does not include toe loading.

Action: Resend Richard Weld the formal response to his submission on the Bylaws Review.

11.2 Update on Kaituna rating review

Purpose is to provide Council information on the appropriateness of the current rating scheme and to support small scales changes. It is not a comprehensive review of the whole rating system.

Further engineering investigation has been commissioned to provide information on runoff from land parcels.

Completion date has been extended to April 2021.

11.3 Infrastructure insurance review

A review of the infrastructure insurance is being led by AON, who have engaged Tonkin and Taylor to provide a flood loss assessment, and calculate the financial consequences of a flood event.

Regional Council have secured savings for the 2020/21 premiums by initiating a successful review of the BOPLASS allocation formula and reducing the contingency sum built in for all assets.

11.4 Stopbank integrity investigation

Some adjacent landowner developments are having an impact on flood protection assets. The Rivers and Drainage Assets team will be proceeding with a project to work with landowners where there may be asset integrity concerns.

The first stage of the project is to commence in the lower Uthina Stream from 1 July 2021.

11.5 Bell Road property purchase

There are two pieces of surplus land, and Regional Council are interested in purchasing one of these parcels and are currently engaging with NZTA agents. Funding for the potential purchase has not yet been determined.

Meeting closed at 1:00 pm.

Action Sheet

Kaituna Catchment Control Scheme Advisory Group Meeting

3 March 2021

Action	Person Responsible	Completed	Comment
1. A submission to the LTP be made by Advisory Group on costings and options on the Ford Road Pump Station.	Kirsty Brown	March 2021	Submission made (refer A3792973)
2. Kerry Smith to send Barry Roderick some graphs on the water levels, post wetland floodgate replacement.	Kerry Smith	4 March 2021	Kerry emailed required information to Barry Roderick (refer A3752856)
3. Bruce Crabbe to provide a memo updating the Advisory Group on progress with compliance issues at Pukepine.	Bruce Crabbe		Update to be provided at September meeting
4. Rates tool to be shared with the Advisory Group.	Kirsty Brown	✓	https://rates.boprc.govt.nz/public
5. The response to Richard Weld's submission on the Flood Protection and Drainage Bylaws to be re-sent.	Kirsty Brown	4 May 2021	Kirsty emailed Richard the letter to submitters sent 18 December 2020 and a copy of the response to his submission (refer A3792257).

Kaituna Catchment Control Scheme

Annual Report 2020-2021

The purpose of this report is to provide an overview of the Kaituna Catchment Control Scheme operational and capital works programmes and finances for 2020-2021

Maintenance work programme

Maintenance works comprise activities that ensure the drainage and river flood protection networks are operational and providing the agreed level of service. These activities are programmed through the Rivers and Drainage Asset Management Plan, taking into account asset lifecycle, maintenance and inspection schedules.

Programme highlights

The 2020-2021 Kaituna maintenance programme was delivered generally on budget and to programme.

Raparapahoe Canal (left bank)

A big focus for 2020-2021 was on the left bank of the Raparapahoe Canal, below the drop structure.

The canal side berm of stopbank was lowered/de-silted, battered, re-fenced and stabilised for a distance of 1.7 kilometres. Approximately 23,000 m³ of accumulated material was removed from the berm and toe loaded on the landward side of the stopbank.

Works were only undertaken on the left bank, and in 200 metre sections, as to not devoid the canal of habitat. Further work will occur along the rest of the canal in 2021-2022.

Environmental DNA* testing showed the drop structure was acting as a fish barrier, and maintenance works have been completed to remedy this.

**Environmental DNA (eDNA) is organism DNA that can be found in the environment. Testing methods are used to detect DNA that is shed by organisms (e.g. fish species) into aquatic environments. The tests can determine presence of a species.*

Ngongotahā Stream 2018 flood damage repairs

The final 2018 flood damage repairs to the Ngongotahā Stream were completed. This included 60 metres of rock armouring immediately down stream of Streamdale Place, and vegetation/silt/rock maintenance on two existing spillways off Western Road. Staff were able to incorporate various instream habitat improvements within these works (i.e. wood debris, eddies, weirs and pools).

Waingaehe Floodway

The Waingaehe floodway received a lot of maintenance attention this financial year including; stopbank/channel maintenance, vegetation removal, landowner encroachment re-fencing, and floodgate/culvert replacements.

Capital work programme

The larger multi-year capital works projects are largely on track with some programme slippage provided for through carry forward funding recommendations. The reasons for programme slippage vary across the projects. Many of the projects are multiyear and multifaceted. Adjustments have been needed to allow for competing district plan changes, overseas supply issues, additional consultation and fitting in with other agencies timelines.

Project name	Revised Budget vs Actual 2020-2021
<p>Okere Control Gates Upgrade</p> <p>This work involved the staged refurbishment, servicing and recalibration of the three gates, lifting mechanisms and control systems. The work began in 2019-2020 and was carried over to 2020-2021 due to COVID-19 lockdown delays.</p> <p>Project status - complete</p>	<p>Revised Budget - \$147,000</p> <p>Actual - \$128,674</p>
<p>Kaituna Flood Damage Repairs (April 2017 Flood Repair Project)</p> <p>Year 4 of the April 2017 flood event, this project involved the repair of remaining damaged sites.</p> <p><i>A more detailed project update is provided later in this report.</i></p> <p>Project status – complete</p>	<p>Revised Budget - \$1,600,000</p> <p>Actual - \$849,958</p>
<p>Kaituna Pump Station Electronic Upgrades</p> <p>The 2020-2021 work involved the automation of the Armer and Marshall pumps.</p> <p>Project status – Armer and Marshall pumps complete (electronic upgrade work continues in 2021-2022 and 2022-2023).</p>	<p>Revised Budget - \$21,300</p> <p>Actual - \$30,288</p>
<p>Ford Road Pump Station Upgrade</p> <p>The purpose of the Ford Road pump station upgrade is to maintain levels of service for drainage and flood mitigation, improve operational issues, improve discharge water quality and allow for climate change.</p> <p>Project status - design of the Ford Road pump station upgrade project will continue in 2021-2022</p>	<p>Revised Budget - \$321,000</p> <p>Actual - \$124,782</p>
<p>Te Puke Stormwater Modelling</p> <p>This modelling work will quantify the extent that development in Te Puke is affecting the Kaituna Scheme.</p> <p>Project status – modelling work will continue in 2021-2022</p>	<p>Revised Budget - \$244,000</p> <p>Actual - \$83,576</p>
<p>Utuhina Stream Stopbanks</p> <p>The purpose of this project is to review the capacity of the existing stopbank infrastructure and design any mitigation needed to achieve, or maintain, the agreed level of service.</p> <p>Project status - modelling work will continue in 2021-2022</p>	<p>Revised Budget - \$467,000</p> <p>Actual - \$83,576</p>
<p>Kaituna Mole Upgrade</p> <p>This project involves the renewal/refurbishment of the existing Kaituna Mole control structure located at the mouth of the Kaituna River.</p> <p>Project status – construction work has commenced and will be completed in 2021-2022</p>	<p>Revised Budget - \$1,900,000</p> <p>Actual - \$532,324</p>
<p>Ngongotahā Stream Flood Mitigation – Civil Works</p> <p>This project involves implementing the recommendations of the independent Ngongotahā Stream Review. Civil works were delayed to enable additional landowner consultation on the recommended design.</p> <p>Project status – civil construction work to commence 2021-2022</p>	<p>Revised Budget - \$400,000</p> <p>Actual - \$19,669</p>

April 2017 Flood Repair Project

Kaituna Catchment Control Scheme update

All 45 Kaituna sites identified following the April 2017 flood event are now complete or have been re-inspected and assessed as no longer required. Physical works were completed for 33 sites and 12 low priority sites no longer required any repair work as the initial damage had self-healed over time.

The cost of materials (rock supply and cartage) was more expensive than was provided for in the original estimates and some repair works were larger than first identified. Where there were existing erosion control assets those costs are largely offset by insurance and central government revenue recovery.

Financials for the Kaituna Catchment Control Scheme are as follows, with expenditure complete and recoveries continuing.

Expenditure budget 2017-2018 to 2020-2021	\$4,494,600
Actual costs for infrastructure works to 30 June 2021	\$4,852,208
Estimated betterment value	\$3,250,000
Recoveries to July 2021 - Kaituna Catchment Control Scheme	\$1,388,015

Overall programme update

Central Government have contributed to essential infrastructure repairs. The total amount received from central government to date is more than \$10 million over the total programme. Insurance recoveries to date have comprised \$3.6 million in progress payments. The team are currently working with the adjustor to agree final claim figures, once settled total revenue recovery will be finalised across all schemes.

The following graphic provides a Flood Repair Project update as at 30 June 2021.

Flood Repair Project

Two extreme weather events in early April 2017 brought prolonged torrential rain to the Bay of Plenty. The resulting record high river levels and extensive flooding caused significant damage to river and drainage networks and assets across the region.



Repairing the damage



520
repair sites



Total budget
in excess of
\$45m



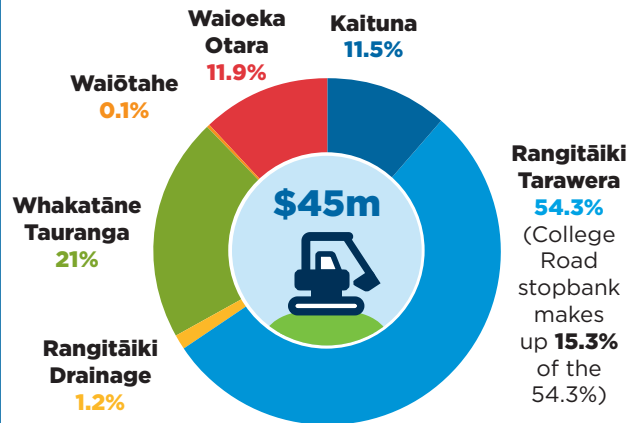
All repairs to
be completed by
30 June 2022

100% of **high priority** sites
are complete

We're repairing the
damage to protect our
**people, property
and livelihoods**

Repair costs by River Scheme

The **Rangitāiki-Tarawera Rivers Scheme**
was the worst affected, accounting for
more than half the repair budget.



Tracking our progress

Rangitāiki Tarawera 224 sites 217 complete ✓	Whakatāne Tauranga 108 sites 93 complete ✓	Waiōeka Otara 61 sites All sites complete ✓	Rangitāiki Drainage 53 sites All sites complete ✓
Kaituna 45 sites All sites complete ✓	Waiōtahe 31 sites All sites complete ✓	College Road stopbank realignment Complete ✓	Rangitāiki Drainage pump station repairs Complete ✓

500 SITES 96%
completed as at **30 June 2021**

What's happening in 2020-2021



2020-2021 budget

11.3million

To complete:

93% of all sites

100% of high priority sites

110 Repairs to further sites across the region

Financial overview 2020-2021

Attached is the Draft Statement of Revenue and Expenditure for the Kaituna River for the 12 months ended 30 June 2021.

Key points:

- **Operating revenue** was \$135,000 lower than budget, mainly due to lower than forecast interest rates (the call rate sat at 1.5% for the year)
- **Operating expenditure** was \$76,000 higher than budget
- This resulted in an **operating deficit** of \$211,000
- **Capital revenue** was \$2,253,000 lower than budget, due to capital works with insurance recoveries and CIP funding delays
- **Capital expenditure** was \$3,229,000 lower than budget, with carry forwards into 2021-2022 proposed for a number of projects
- Total **reserve fund** opening balance of \$5,567,000 and closing balance of \$5,535,000 (decreased by \$32,000)
- **Loan** opening balance of \$8,743,000 and closing balance of \$7,902,000 (decreased by \$841,000)
- **Asset valuation** as at 1 July 2020 of \$71 million – with the 2021 annual revaluation currently underway

Bay of Plenty Regional Council Toi Moana Statement of Revenue and Expense - Kaituna Catchment Control Scheme (Draft until adopted by Council)

For the 12 months ended 30 June 2021

Variance Indicators					
Low <10%	▶	Medium 10% to 30%	▶	High >30%	▶

2020/21		Variance		Variance comments	2021/22
Budget	Actual	\$	Variance indicator		Budget Total \$000
\$000					

Line	Operating revenue by class							
1	General rates	188	188	0	-	▶		221
2	Targeted rates	1,844	1,844	0	-	▶		2,102
3	External interest income	129	21	(108)	Lower	▶	Lower interest rates - call rate sat at 1.5% for the year	122
4	Other revenue	29	1	(28)	Lower	▶	DOC Kaituna Wetland (grant in lieu of rates) outstanding payment	30
5	Investment income	267	267	0	-	▶		344
6	Total revenue	2,455	2,320	(135)	Lower	▶		2,818
Operating expenditure by class								
7	Administration expenses	25	41	(16)	Higher	▶	Insurance renewals higher than budget	6
8	Other expenses	354	456	(101)	Higher	▶	Additional equipment hire and materials used	411
9	Consultancy fees	0	13	(13)	Higher	▶		0
10	Contract work	553	505	48	Lower	▶		696
11	Finance costs	509	356	153	Lower	▶	Lower due to lower capital spend. Note that from 2021/22 finance costs have been moved to be included in overhead charges and recoveries.	0
12	Depreciation and asset disposal	245	262	(17)	Higher	▶		361
13	Subtotal - expenditure	1,686	1,633	53	Lower	▶		1,473
14	Net overhead charges and recoveries	631	760	(129)	Higher	▶	Additional staff time. From 2021/22 finance costs will be included here.	1,096
15	Total operating expenditure	2,317	2,393	(76)	Higher	▶		2,570
16	Total operating surplus (deficit)	139	(72)	(211)	Unfavourable	▶		248

Bay of Plenty Regional Council Toi Moana Statement of Revenue and Expense - Kaituna Catchment Control Scheme (Draft until adopted by Council)

For the 12 months ended 30 June 2021

Variance Indicators					
Low <10%	▶	Medium 10% to 30%	▶	High >30%	▶

2020/21		Variance		Variance comments	2021/22
Budget	Actual	\$	Variance indicator		
\$000					Budget Total \$000

Capital revenue by class

17	Capital funding	4,150	1,897	(2,253)	Lower	▶	Includes insurance recoveries and CIP funding for Ngongotahā and Kaituna Mole.	(1,755)
18	Total capital revenue	4,150	1,897	(2,253)	Lower			(1,755)
19	Total surplus (deficit)	4,289	1,825	(2,464)	Unfavourable	▶		(1,507)

Capital expenditure by project

20	Pump station electronic upgrades	21	0	21	Lower	▶	Proposed carry forward	97
21	New Ford Road pump station	321	125	196	Lower	▶	Proposed carry forward	800
22	Te Puke Stormwater Project	244	110	134	Lower	▶	Proposed carry forward due to modelling delays.	2,560
23	Utuhina Stream stopbanks	467	84	383	Lower	▶	Proposed carry forward due to RLC's Plan Change 2 delays	645
24	Kaituna Stopbank Raising project	0	12	(12)	Higher	▶		0
25	Okere control gates	147	129	18	Lower	▶	Completed	0
26	Ngongotahā Stream Civil Works	400	20	380	Lower	▶	Proposed carry forward. Additional landowner consultation required.	1,638
27	Armer & Marshalls Pumps - Automation	0	30	(30)	Higher	▶	Completed	0
28	Kaituna Mole	1,920	532	1,388	Lower	▶	Proposed carry forward. Delays due to overseas supply issues/DOC project.	578
29	Flood Damage	1,600	850	750	Lower	▶	Completed	
30	Upper Kaituna stopbank modelling	0	0	0				51
31	Total capital expenditure	5,120	1,891	3,229	Lower	▶		6,370

Bay of Plenty Regional Council Toi Moana Statement of Revenue and Expense - Kaituna Catchment Control Scheme (Draft until adopted by Council)

For the 12 months ended 30 June 2021

Variance Indicators					
Low <10%		Medium 10% to 30%		High >30%	

2020/21		Variance		Variance comments	2021/22 Budget Total \$000
Budget	Actual	\$	Variance indicator		
\$000					
Opening Balance \$000	Movement \$000		Closing Balance \$000		

32 Reserves

33 Flood Damage Reserve	(1,992)	104	(1,889)	Funds available
34 Asset Replacement Reserve	(1,544)	(219)	(1,763)	Funds available
35 Works Reserve	(935)	167	(768)	Funds available
36 NZTA Reserve	(604)	(11)	(615)	Funds available
37 Re-diversion remediation	(491)	(9)	(500)	Funds available
38 Total Reserves	(5,567)	32	(5,535)	Funds available

39 Internal Loans

	8,743	(841)	7,902
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1/07/2019 \$000	Movement \$000	1/07/2020 \$000
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40 Asset Valuation

	68,002	2,688	70,690
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July 2021 revaluations are currently underway

Kaituna Catchment Control Scheme Capital Works Programme 2021-2022

The following table outlines the Kaituna Catchment Control Scheme capital work programme for 2021-2022.

Budget figures are from the Long Term Plan 2021-2031. There are proposed changes to these figures, incorporating unspent 2020-2021 budgets being carried forward as well as some works being deferred until 2022-2023. The proposed revised budget figures will be confirmed following Council's September meeting.

Kaituna Catchment Control Scheme Capital Budget for 2021-2022 is \$6,369,536 (LTP Year 1 budget)

Project name and background	LTP Year 1 Budget 2021-2022	Proposed revised budget 2021-2022	Milestones 2021-2022
<p>Kaituna Pump Station Electronic Upgrades</p> <p>This is a multi-year project involving progressively upgrading pump station electronics. In 2021-2022 the focus is on the Kopuaroa Pump station.</p> <p><i>There is also budget for this project in 2022-2023</i></p>	\$97,280		<ul style="list-style-type: none"> Complete Kopuaroa pump station electrical, switchboard and telemetry upgrade
<p>Ford Road Pump Station Upgrade</p> <p>The purpose of the Ford Road pump station upgrade is to maintain levels of service for drainage and flood mitigation, improve operational issues, improve discharge water quality and allow for climate change.</p> <p>A number of options have been assessed and Council has confirmed an increased budget to progress with Option 1 – additional pump capacity at the Diagonal Drain pump station located upstream of the Ford Road site. This option includes:</p> <ul style="list-style-type: none"> A new pump station adjacent to Diagonal Drain pump station Decommissioning of the existing gravity outlet and gates at Ford Road Widening 1600 metres of existing drains and upgrading x2 culvert crossings <p><i>There is also budget for this project in 2022-2023 and 2023-2024</i></p> <p>For information and updates visit the Project Page or www.boprc.govt.nz/our-projects/ford-road-pump-station-upgrade</p>	\$800,000	\$996,000 (includes \$196,000 carried forward from 2020-2021)	<ul style="list-style-type: none"> Ongoing consultation with iwi and stakeholders on preferred options Assessment of environmental effects of final preferred option Resource consent application Detailed design

Project name and background	LTP Year 1 Budget 2021-2022	Proposed revised budget 2021-2022	Milestones 2021-2022
<p>Te Puke Stormwater</p> <p>This modelling work will quantify the extent to which development in Te Puke is affecting the Kaituna Scheme.</p> <p>DHI have been appointed to undertake the modelling required with assistance from Blue Duck Limited. Western Bay of Plenty District Council are part of the project team.</p> <p>This project started in 2019-2020 and modelling and optioneering will be completed in 2021-2022 with resulting mitigation works now programmed for 2022-2023.</p>	<p>\$2,560,000</p>	<p>\$133,000</p> <p>(significant budgeted work to be deferred to 2022-2023)</p>	<ul style="list-style-type: none"> Finalise modelling report Undertake option modelling Detailed design
<p>Utuhina Stream Stopbanks</p> <p>The primary purpose of this project is to review the capacity of the existing stopbank infrastructure and design any mitigation needed to maintain or achieve the agreed level of service.</p> <p>The capacity review is complete, however the modelling of mitigation options has been delayed to allow for the ramifications of Rotorua Lakes Council Plan Change 2 – Pukehāngi Heights (plan change intended to facilitate residential and rural residential development).</p> <p><i>There is also budget for this project in 2022-2023</i></p>	<p>\$645,120</p>	<p>\$100,000</p> <p>(some budgeted work to be deferred to 2022-2023)</p>	<ul style="list-style-type: none"> Option assessment including modelling Consultation with iwi, Rotorua Lakes Council and stakeholders on preferred option(s)
<p>Kaituna Mole Upgrade</p> <p>The Kaituna Mole is a river mouth control structure located at the mouth of the Kaituna River. Various improvements have been made over the years to strengthen the structure and support its considerable use by the community as a popular fishing spot. The remedial work involves a design similar to the current mole but with improved corrosion resistance and concrete capping necessary to maintain the integrity of the existing structure.</p> <p>Construction commenced July 2021.</p> <p><i>Central Government Climate Resilience Funding has been approved for this project.</i></p> <p>For information and updates visit the Project Page or www.boprc.govt.nz/our-projects/kaituna-mole-upgrade</p>	<p>\$577,536</p>	<p>\$1,964,536</p> <p>(includes \$1,387,000 carried forward from 2020-2021)</p>	<ul style="list-style-type: none"> Complete upgrade and landscaping work

Project name and background	LTP Year 1 Budget 2021-2022	Proposed revised budget 2021-2022	Milestones 2021-2022
<p>Upper Kaituna Stopbank Modelling</p> <p>This modelling is part of the Capacity Review of the Rotorua Streams (Upper Kaituna) – Waiteti Stream, Ngongotahā Stream, Waiowhero Stream, Utuhina Stream, Puarenga Stream, Waingaehe Stream.</p>	\$51,200	•	<ul style="list-style-type: none"> • Complete hydrological and hydraulic modelling of the Puarenga and Waingaehe Streams
<p>Ngongotahā Stream Flood Mitigation – Civil Works</p> <p>Project involves implementing the recommendations of the independent Ngongotahā Stream Review. Following analysis of initial flood modelling outcomes a suite of options were developed and presented to the Community Reference Group.</p> <p><i>Central Government Climate Resilience Funding has been approved for this project.</i></p>	\$1,638,400	\$2,018,400 (includes \$380,000 carried forward from 2020-2021)	<ul style="list-style-type: none"> • Complete consultation and resource consent application • Detailed design • Complete high flow bypasses, Western Road raising, stopbank works and southern bypass
<p>Other projects – Bell Road modelling</p> <p>Modelling has been undertaken to determine whether the drainage level of service is being met and what mitigation options could be utilised to maintain the level of service.</p> <p>Modelling has shown that the level of service is not being met in large areas. Mitigation options do not reduce the areas significantly and climate change effects would be difficult to manage into the future.</p> <p>Recommendation is to reduce the level of service and retire farmland as it becomes uneconomical to farm.</p>	Unbudgeted		<ul style="list-style-type: none"> • Complete climate change modelling • Arrange independent review of recommendation

Maintenance Programme 2021-2022

The purpose of this report is to provide an overview of the Kaituna Catchment Control Scheme maintenance work programme for 2021-2022.

Maintenance work programme

Maintenance works comprise activities that ensure the drainage and river flood protection networks are operational and providing the agreed level of service. These activities are programmed through the Asset Management Plan taking into account asset lifecycle, and maintenance and inspection schedules. Maintenance programme budgets are set during the Long Term Plan and Annual Plan processes.

Scheme maintenance work includes:

- drain maintenance - desilting, de-weeding, weed spraying, water quality improvements
- pump stations - operation, inspections and maintenance
- culvert and floodgates - inspections and maintenance
- stopbanks - inspections, maintenance, repairs, pest control
- river maintenance - pest plant control, beach shaping, habitat enhancement works
- erosion control – rock refurbishment, edge planting, trenched willows, willow maintenance
- annual flood damage repairs

Key projects in 2021-2022:

- Collaborating closely with Land Management staff to implement water quality improvements along some selected scheme drains to improve the quality of drainage system discharges into the Kaituna River and Maketū Estuary
- Raparapahoe and Ohineangaanga Canals maintenance – approximately 2 km of canal, including silt removal from channel/berm (to replace conveyance capacity) and deposition on the landward toe of the stopbank
- Armer's gravity outlet renewal
- Maketu Foreshore stopbank rock armouring replenishment – approximately 500 metres
- Rotorua streams vegetation control - removal of obstructions, oversize trees and pest plants
- Ngongotahā Floodway channel maintenance within Elliott Park
- Waingaehe Floodway stopbank repairs, tree removal and boundary fencing realignments to remedy asset defects and property encroachment issues
- Ohau Channel control structure - maintenance and repairs to gabions and stoplog structure

Rock procurement to support community resilience

Last year Council approved a procurement plan for quarried rock material that resulted from a strategic review of Council's existing rock procurement practices. The purpose of the plan was to consider fixed term contracts for rock supply chain components to build community resilience and more certainty of supply at an agreed price. The initial stage proposed the establishment and supply of flood event safety stockpiles.

An Invitation to Negotiate (ITN) process was adopted that invited suppliers to submit best prices to supply and maintain designated Regional Council stockpiles, and also stockpiles at supplier recommended sites. The process concluded with resolutions from Council to enter into stockpile arrangements for the most cost effective options.

In the case of the Kaituna Control Catchment Scheme a permanent stockpile of 2000 tonnes will be established and maintained at the Young Road site (PGG Wrightson’s saleyards) once resource consent and occupancy arrangements are complete. The purpose of the permanent stockpile is to support community resilience by having material on hand in flood events and allowing time for staff to plan subsequent work should it be needed. The material will also be available to support renewal and capital works as required. The rock materials referred to are not additional costs, and are included within existing budgets.

All suppliers will also be invited to enter into the Rivers and Drainage Panel supplier contracts for rock supply and transportation.

Maintenance programme budget 2021-2022

A budget summary table for the Kaituna Catchment Control maintenance programme is shown below followed by a more detailed breakdown of the programme with estimated costs of proposed work. The annual budget figures include operational costs only and exclude non-operational costs (e.g. debt servicing and infrastructural asset insurance).

Kaituna Catchment Control Scheme Maintenance Works Programme 2021-2022		
Lower Kaituna		Annual Budget
	General	\$16,000
	Reach 1 (River mouth to Te Matai)	\$122,900
	Reach 2 (Te Matai to Paraiti River)	\$45,900
	Reach 3 (Canals and Drains)	\$269,900
	Pump Station Maintenance	\$234,600
	TOTAL LOWER KAITUNA	\$689,300
Upper Kaituna		
	Reach 4 (Rotorua Streams)	\$86,900
	Reach 5 (Ōhau Channel)	\$18,400
	TOTAL UPPER KAITUNA	\$105,300
Annual Flood Damage		
	Annual Flood Damage Repair Allowance	\$204,000
	KAITUNA TOTALS	\$998,600

Kaituna River Scheme: 2021-2022 Maintenance Works Programme

20/08/2021 Objective ID: A3886563

LOWER KAITUNA

Row	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
1	General	Fly tipping and rubbish collection/disposal	\$16,000		
2		Fly tipping and rubbish collection/disposal		Fly tipping	\$7,500
3				Erect signage	\$500
4		Pest Control		Pindone Rabbit holes as required	\$8,000
5					
6	Reach 1:				
7	Mouth to Te Matai (including Maketū Estuary)	Riverbank Weed spraying	\$6,200		
8		Gorse spraying			\$1,500
9		Blackberry spraying		R/b 12.0-12.6 km	\$1,000
10		Glyseria spraying various areas by boat.		Various L&R Banks.	\$2,000
11		Bamboo Spraying 3.4km		Respray	\$500
12					
13		Willow/Vegetation Maintenance	\$9,100		
14		Spray and regrowth		R/b 2.5 - 4.6 km	\$1,000
15		Vegetation maintenance, replant.		R/b 5.0- 6.0 km	\$2,000
16		Willow/Vegetation Maintenance		Both banks 12.0 - 12.5 km	\$6,000
17					
18		Planting	\$4,700		
19		Roparapahoe Drop Structure			\$2,000
20		Kaituna River			\$2,000
21		Maketū			\$1,700
22					
23		Rock replenishment	\$46,400		
24		Maketū Foreshore Bank		2000t graded rock stockpiled 20/21	\$25,000
25					
26		Fencing Maintenance	\$4,200		
27		Fencing (tbc)		various	\$2,000
28				Maketū Foreshore	\$1,500
29		Maketū Pump Station			\$500
30					
31		River & Estuary maintenance general	\$29,800		
32		McKenzie culvert outlet		Engineering reviewing options.	
33		Bell Rd Drain outlet		Engineering reviewing options.	
34		Tree maintenance			\$2,500
35		Glyseria spraying various areas by boat.		Various L&R Banks.	\$5,000
36		Provision for Asset Performance Defects		Under investigation	tbc
37		Repair Maketū Foreshore bank landward toe drain (Brain property).		Under investigation	tbc
38					
39	Stop banks	Minor floodgates Inspection	\$700		\$700
40		Stopbank mowing	\$4,900		\$2,000
41		Stop bank miscellaneous maintenance			\$2,900

Row	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
42					
43	Bell Road Floodgates	Floodgate Maintenance & inspections	\$3,700		\$3,700
44					
45	Managh's culvert	Floodgate Maintenance & inspections	\$3,400		\$3,400
46					
47	Browns Culvert	Floodgate Maintenance & inspections	\$3,400		\$3,400
48					
49	Wetland Culvert	Floodgate Maintenance & inspections	\$3,400		\$3,400
50					
51	Maketū & Other Floodgates	Floodgate Maintenance & inspections	\$3,000		
52		Gravity flood gate replace & redesign			\$3,000
53					
54					
55	Reach 2:				
56	Te Matai to Paraiti River	Riverbank Weed spraying:	\$4,100		
57		Gorse & pampas at existing rockworks		Various	\$3,000
58					
59					
60		Willow/Vegetation Maintenance	\$1,200		
61		Willow Maintenance		R/b 12.7-12.9 km	\$2,500
62		Willow Maintenance		R/b 16.5-17.0 km	\$2,500
63		Lower berm (McNaughton's)		R/b 18.8-18.9 km	\$2,500
64					
65		Planting:	\$600		
66		Provisional Sum			\$600
67					
68		Rock replenishment	\$36,900		
69		Provisional sum (where required)			\$10,000
70		Provision for Asset Performance Defects		Under investigation	tbc
71					
72		Fencing	\$500	Various	\$1,000
73					
74	Stop banks	Stop bank miscellaneous maintenance	\$2,000		\$2,000
75		Floodgate Maintenance	\$600		\$600
76					
77	Reach 3:				
78	Canals & Drains	Canal weed spraying	\$11,200		
79		Provisional sum (where required)			\$2,500
80		Raparapahoe/ Kopuaroa various properties			\$3,000
81		Channel / bank spray maintenance, pampas etc.			\$2,000
82					
83		Canal and drain repairs			
84		Provisional sum (where required)			\$2,500
85		Slaters Drain. Install culvert			\$2,500
86		Singletons Drain Culvert		Culverts and headwalls purchased 20/21	\$2,500

Row	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
87					
88		Canal desilting	\$98,800		
89		Provisional sum (where required)			\$35,000
90		Riddell's		R/b 0.0-1.0 km	\$2,500
91		Factory Drain Desilting		Verwey/in conjunction WBOPRC	\$17,500
92		Culvert installations for access			\$20,000
93					
94		Drain Desilting / Maintenance	\$66,300		
95		Provisional sum (where required)			\$2,500
96		Kaituna Road		3.4-5.0km	\$7,500
97		Provision for Asset Performance Defects		Various	\$8,000
98		Singleton's Pump Drain Batter, plant and re-fence			\$32,000
99					
100		Waiari Stream			
101		Complete minor berm cut-always		L/b 2.0-3.1km	\$1,500
102					
103		Parawhenuamea			
104		Desilt twice yearly			\$5,000
105		Parrots Feather spraying x4 yearly			\$2,500
106		Deweed		R/b 0.0-2.0 km	\$1,500
107					
108		Kopuaroa Canal			
109		Boat spraying			\$1,000
110		Tree removal off stop bank toe			\$5,000
111		Stop bank survey possible upgrade		LB 3.4-3.6	\$1,500
112					
113		Raparapahoe Canal			
114		Willow maint various properties		R/b 3.9 - 5.7 km	\$2,000
115		Reshape LB and toe load to Landward toe.		0.0-1.7km	\$50,000
116		Woolly nightshade			
117		Drop structure maintenance		Rock stockpiled on site	\$2,500
118					
119		Ohineangaanga Canal			
120		Remove spoil off berm and toe load bank		R/b 00.0-0.80km	\$7,500
121		Desilt		L/b 0.0-0.5km	\$10,000
122					
123		Aquatic Weed Spraying	\$30,100		\$15,000
124		Weed Cutter Boat	\$1,700		\$2,000
125		Drain deweeding	\$32,700		\$30,000
126					
127		Minor Clearing of obstructions in tributary streams			
128		Generally upstream highway. Provisional sum 5k per stream	\$20,000	Waiari and Above Raymond Ave, Quarry Rd	\$15,000
129		Willow Maintenance/removal		L/b 21.0-21.2 km	\$5,000
130					
131		Rock maintenance	\$5,900		

Row	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
132		Nuzum's Drain: rockworks		R/b 0.0- 0.050km	\$7,500
133		Borough Drain: rockworks		L/b 0.0 -0.05 km	\$7,500
134		Provisional sum (where required)			\$5,000
135					
136	Stop banks	Stop bank Miscellaneous Maintenance	\$2,000		
137		Minor Flood Gates	\$1,200		
138		Slaters Drain realign stop bank fence to boundary			\$5,000
139					
140	Pump Station Maintenance:				
141	Kopuaroa	Pump Maintenance	\$19,600		
142		General Maintenance			\$5,000
143		Electronics/switchboards		Capital upgrade	
144					
145	Bell Road A	Pump maintenance	\$7,000		
146		General Maintenance			\$4,500
147		Service both Pumps, Oil change, inspect components for preventative maintainance.			\$2,500
148					
149	Bell Road B	Pump maintenance	\$7,000		
150		General Maintenance			\$5,000
151		Service both Pumps, Oil change, inspect components for preventative maintainance.			\$2,000
152					
153	Bell Road C	Pump Maintenance	\$13,600		
154		General Maintenance			\$2,000
155		Mow compound			\$2,500
156		Diesel			\$5,000
157		Lift pumps for inspection			\$2,500
158		Signage and fencing			\$1,500
159					
160	Diagonal Drain	Pump Maintenance	\$22,600		
161		General Maintenance			\$10,000
162		Reshape ground for lifting pad			\$4,000
163		install pad over gravity discharge pipe			\$2,500
164		Pump riser sand blast, paint and refit.			\$5,000
165					
166	Ford Road	Pump Maintenance	\$13,900		
167		General Maintenance			\$5,000
168		Floodgate maintenance			\$2,500
169		Lift pumps for inspection			\$2,500
170		Service both Pumps, Oil change, inspect components for preventative maintainance.			\$3,500
171					
172	Maketū	Pump Maintenance	\$13,600		
173		General Maintenance			\$2,000

Row	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
174		Install false roof (Existing roof cracking)			\$2,000
175		Floodgate maintenance			\$1,000
176		Discharge headwall repair			\$12,500
177					
178	Pump Electricity		\$106,800		\$106,800
179			\$5,500	Diesel	\$5,500
180					
181	Storm water pumping		\$25,000		
182		Provisional Sum		Pump set up and running	\$15,000
183		Marshall/Armors pump; Start and stop probes		Outlet stabilisation	\$10,000
184					
185		Total Annual Maintenance Costs	\$689,300		\$663,700
186					
187	UPPER KAITUNA				
188	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
189		Rotorua Scheme Area			
190	General		\$16,000		
191				Fly tipping	\$8,000
192				Pest Control	\$8,000
193					
194	Reach 4:				
195		Waiteti Stream	\$7,500		
196		Provisional sum: vegetation removal from channel.			\$2,500
197		Replenish Rock 0.3-0.4km RB			\$1,500
198		Replenish Rock 0.7-0.8km RB			\$3,500
199					
200		Ngongotahā Stream	\$25,400		
201		Provisional sum: vegetation removal from channel.			\$7,500
202		Vegetation Maintenance		Spilway mowing @ berm mulching	\$10,000
203		Planting/planting maintenance		3.7-3.8km and 5.2km	\$5,000
204		Pest plant spraying		2 spray rounds annually	\$2,500
205		Fencing		As required	
206					
207		Waiowhiro Stream	\$5,000		
208		Provisional sum: vegetation removal from channel.			\$5,000
209					
210		Utuhina Stream	\$10,000		
211		Provisional sum: vegetation removal from channel.			\$2,500
212		Obstruction removals			\$2,500
213					

Row	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate
214		Mangakakahi Stream	\$12,500		
215		Provisional sum: vegetation removal from channel.			\$2,500
216		Vegetation Management: cost share with RLC to increase berm flow/reduce localised flooding.			\$2,500
217					
218		Otamatea Stream	\$5,000		
219		Provisional sum: vegetation removal from channel.			\$5,000
220					
221		Puarenga Stream	\$15,000		
222		Provisional sum: vegetation removal from channel.			\$2,500
223		Replace two culverts at 1.0km		Asset investigation	\$12,500
224					
225		Waingaehe Floodway	\$6,500		
226		Realignment of boundary fence			\$5,500
227		Stopbank repairs Right Bank			\$5,000
228		Desilt/mow			\$2,000
229		Flap maintenance/install			\$2,000
230					
231		Provision for Asset Performance Defects		Various	\$5,000
232					
233	Reach 5:				
234	Rotorua Scheme Area	Ōhau Channel	\$18,400		
235		Remove large fallen gum tree			\$2,500
236		Stop log structure repairs			\$12,500
237					
238		Rock armouring below SH33 bridge			\$2,500
239					
240		Total Annual Maintenance Costs (UK)	\$105,300		\$104,500
241					
242	ANNUAL FLOOD DAMAGE ALLOWANCE UPPER AND LOWER KAITUNA				
243		Provisional sum (where required)			\$85,000
244		Raparapahoe Canal Batter bank and hydroseed			\$15,000
245		Ohineangaanga Rock work: Flood damage Marshalls, 800 tonne.		L/b 2.4-2.5 km	\$20,000
246		Kaituna River Erosion 8.0km LB (Armors)			\$15,000
247		Batter bank and plant Rock toe and rotten rock batter.		L/b18.2-18.9 km	\$2,500
248		Mangakakahi Erosion: battering and vegetation stabilisation			\$15,000
249		Mangakakahi Erosion: rock armouring.		Rock stockpiled already	\$15,000
250		Ngongotahā Rock replenishment to existing spillways. Rock stockpiled already		Spillways 2 and 3	\$25,000
251		Ōhau Channel Erosion repairs - repair / replenish gabion protection at stop log structure.			\$10,000
252					
253		Annual Flood Damage Repair Allowance	\$204,000		\$192,500

MEMORANDUM



To: Kaituna Catchment Control Scheme
Advisory Group

From: Kirsty Brown
Rivers and Drainage Assets Manager

Date: 18 August 2021

File Ref:

Subject: General business update

Kaituna rating review

Simon Harris from Land Water People Limited has been engaged to do a review on the Kaituna Catchment Control Scheme rating system. The purpose of this work is to provide Council information on the appropriateness of the current rating scheme and to support small scales changes.

A meeting was held on Tuesday, 10 August 2021 to share Simon's methodology and findings, and to give members an opportunity to provide feedback directly to Simon and staff.

Following the meeting additional work is now underway on the report including an alternative mechanism for estimating changes in impermeable surfaces in Te Puke for the period 2001 to 2021.

Group members will be kept informed of progress.

Infrastructure insurance review

As previously advised, a review of our infrastructure insurance is currently underway. The purpose of this review is to look at ways of reducing the annual premium costs which has been steadily increasing over the years due to market conditions, flood events and increased asset value.

As part of the review, Aon Ltd (our insurance brokers) are leading a flood risk assessment with expertise input from Tonkin & Taylor.

The main objectives of the assessment is to:

- Quantify the frequency and financial consequences of flood damage to infrastructure assets.
- Identify assets most at risk of damage from flood to inform asset management, resilience strategies and risk financing.
- Ensure cost-effective and sustainable flood risk financing by reviewing risk tolerance, flood risk retention and disaster reserving strategies.

The assessment is in two stages. Stage 1 which involved the data assessment has been completed and Stage 2 which involves the risk identification, analysis and evaluation is underway.

Group members will be kept informed of progress.

Safeguarding Our Stopbanks project

One of the key factors that affects the performance of flood protection assets like stopbanks or floodwalls, is landowner encroachments of unauthorised structures and plantings. This is particularly concerning on the Whakatāne River where unauthorised structures like pools, sheds, fences and large trees may have reduced the intrinsic strength of the critical asset (stopbank or floodwall).

A project titled “Safeguarding our Stopbanks” kicked off 1 July 2021 and is being led by Paula Chapman. The purpose of this project is to resolve situations where adjacent land use may have affected the integrity of the asset. The project has an urban focus. Work has been going on in the background prior to the project commencing, in particular understanding the:

- Legal and policy basis for Regional Council to undertake the project.
- Rights of property owners (building legislation, existing use rights, boundary and fencing regulations, structural vs non-structural improvements).
- Ability for Regional Council to potentially undertake works on private property (should there be high-risk situations that owners will not/cannot resolve).
- Liaison with local authorities to align communications and community engagement.

For the Kaituna Catchment Control Scheme there are fewer concerns around structure or land use encroachments with only the Utuhina Stream and the Waingaehe Floodway included for assessment.

Member feedback survey

The river scheme advisory groups enable effective communication and liaison between scheme ratepayers and Regional Council Councillors and staff.

Although the group has no statutory basis or authority to make decisions, members input is highly valued and recommendations are taken into account on all scheme matters.

It has now been four years since the current advisory group format was implemented. In the next few months a survey will be circulated seeking feedback on how members feel the groups are going and whether any improvements can be made.



Kirsty Brown

Rivers and Drainage Assets Manager