

Kaituna Catchment Control Scheme Advisory Group Meeting

Wednesday 4 March at 10am

Bay of Plenty Regional Council 1125 Arawa Street Rotorua



Kaituna Catchment Control Scheme **Advisory Group Meeting**

Wednesday 4 March 2020 at 10am

Agenda

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- 2 Apologies
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- Performance assessment of critical assets 5
- **River scheme planning (Asset Management Plan, Long Term Plan)** 6
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 - Review of the Floodway and Drainage Bylaw 2008 a.
 - b. River Scheme rating classification review
 - Infrastructure insurance C.
 - Advisory group membership September 2020 to September 2023 d.

Notes of the Kaituna Catchment Control Scheme Advisory Group meeting held at Comvita NZ Ltd, Paengaroa, on Wednesday, 4 September 2019, commencing at 10am

Chair:	Councillor Bill Clark		
Advisory Group:	Graham Thompson, Richard Weld, Barry Roderick, Dave Hurst, Nick Chater, Roger Hintz, Peter Dine (Rotorua Lakes Council), Warren Vebber		
BOPRC Councillors:	Councillor Norm Bruning, Councillor Jane Nees		
BOPRC Staff:	Bruce Crabbe (Rivers and Drainage Operations Manager), Cleo Hanlon (Rivers and Drainage Coordinator), Kerry Smith (Area Engineer), Pim De Monchy (Eastern Catchments Manager), Mark Townsend (Engineering Manager), Chris Ingle (General Manager Integrated Catchments), Paula Chapman (Flood Repair Project Manager)		
Public:	Noel McLeod		
Apologies:	Kirsty Brown (Rivers and Drainage Asset Manager), Jo Heath (Rivers and Drainage Asset Management Coordinator)		

Tabled Item 1: Kaituna River Scheme: 2019-2020 Maintenance Works Programme Tabled Item 2: Bell Road and Te Puke Area Flooding Issues

1 Welcome

Councillor Clark welcomed everyone to the meeting.

Bruce Crabbe updated the group on the recent staff changes within the organisation:

- Kirsty Brown appointed as Rivers and Drainage Assets Manager
- Daniel Batten promoted to Works Foreman for Upper Kaituna works.
- Matt Eru appointed as Machine Operator for Kaituna.
- Cleo Hanlon appointed as Rivers and Drainage Coordinator.

2 Apologies

Apologies were received for Kirsty Brown and Jo Heath.

3 Notes of previous meeting held 13 March 2019

The minutes of the 13 March 2019 meeting were accepted as a true and correct record with the following amendment:

Item 9.2 – The Ford Road and Maketū pump stations discharge into the Coastal Marine Area is not a permitted activity.

Resolved

That the Kaituna Catchment Control Scheme Advisory Group:

1 Confirm the notes of the meeting held 13 March 2019, with the amendment noted above, as a true and correct record.

Chater/Hintz CARRIED

4 Matters arising from previous meeting

Bruce Crabbe provided an update on the five actions from the previous meeting as follows:

- Co-governance and Community Group update has been included in this agenda (Item 10) as a standing item.
- The Bell Road landowners meeting actions document (Bell Road and Te Puke Area Flooding Issues) was tabled, and circulated amongst members.
- Cruickshank's Drain floodgate: Cruickshank's culvert was replaced with a larger diameter culvert in 2014. Consultation with affected landowners and the Liaison Group at the time agreed to not replace the floodgate. Bruce Crabbe advised the cost to install a new wooden gate would be approximately \$5,000, however it would be ineffective as there is a path for water to backflow around from Pah Road. It has been left to the Advisory Group to make a decision on whether the floodgate should be replaced.
- Floodgates not opening: Kerry Smith to present an option for sluicing flood-gated outlets during his Operations report.
- Geotechnical investigation: Mark Townsend will present the geotechnical assessment of stopbank seepage in the Engineering update.

Discussion:

• Councillor Bruning enquired about progress with the Pukepine resource consent hearing. Bruce Crabbe responded that a hearing was held last week, and Roger Waugh presented on behalf of the scheme. Barry Roderick advised that he attended the hearing, and noted that Roger made a good submission on behalf of the scheme. A decision from the Commissioner is awaited.

5 **Review of the Floodway and Drainage Bylaw 2008**

Bruce Crabbe spoke to the report provided in the agenda pack.

Information on the review and the upcoming workshops will be circulated to the Advisory Group in October 2019, and the revised Bylaw will be adopted mid-2020.

Discussion:

- It was asked if ploughing or fencing next to stopbanks will be restricted. Bruce responded that these activities are an issue and control mechanisms are being investigated mainly for areas with underlying pumice soils. Modelling is currently underway to inform these decisions.
- There was discussion about public access along stopbanks, and if this would be included in the bylaw. Bruce advised that in most situations stopbanks are on private property and public access is decided by the landowner. In lease areas pedestrian access is permitted on public land, and there are no restrictions during calving times.

6 **Operations report**

Tabled Item 1: Kaituna River Scheme: 2019-2020 Maintenance Works Programme

6.1 Kaituna Scheme Works update

Kerry Smith spoke to the report provided in the agenda pack and delivered a presentation.

Key points included:

- Photos and videos of current works at the Bell Road pump station A were presented. Designed to enable three additional pumps to operate during periods of flooding.
- Additional new culvert installed at McLeod's discharging into Kopuaroa Canal.
- Desilting works completed at Bell Road No.2 drain.
- The new Kaituna depot is now located at Bill Webb Contracting on Wilson Road. Two bays have been rented and a building has been transported from the Whakatāne office.
- Erosion works have been carried out in Ngongotahā Stream and other Rotorua streams. There have been some rock integrity failures. Another supply of rock that stacks well has been used.
- Native grass species are predominantly used in the Ngongotahā area to get dense vegetation cover without compromising access.
- There have been some rock integrity failures. Another supply of rock that stacks well has been used.
- Rivers and Drainage Operations team visited Waikato Regional Council, Hauraki depot. It was a beneficial visit with a lot of learnings and takeaways, particularly with safety and security measures around pump stations.
- A photo of the Hauraki outlet desilting vessel (African Queen) was shown, and the Operations team are considering whether it may be beneficial for clearing some Kaituna floodgates.

6.2 Works Programme

Kerry Smith presented the Tabled Item 1, Kaituna River Scheme: 2019-2020 Maintenance Works Programme.

Key points included:

- Flax that is being removed will be replaced with smaller native grass species or hydroseeding.
- The spray boat is due for replacement and research has found that an air boat is likely to be a suitable replacement that is also versatile for other tasks.
- Pest willows (e.g crack willows) are being removed. The new willows selected for planting are hybrid species that don't seed.

ACTION:

Kaituna Catchment Control Scheme 2019-2020 Maintenance Works Programme to be circulated to Advisory Group members.

7 April 2017 Flood Repair Project update

Paula Chapman provided a verbal update on the April 2017 Flood Repair Project to date.

Key points included:

- Two years through the four year project and 50% of sites have been completed.
- 60% of the cost of repair has been recovered through claims.
- 11 of the 45 sites associated with the Kaituna River have been completed.
- In the coming financial year it is expected that 19 sites in the Kaituna Catchment Control Scheme area will be completed.
- \$1.5m has been spent on Kaituna flood repairs to date.
- Due to constrained rock supply, some major rivers repairs have fallen behind schedule.

8 Engineering update

Mark Townsend spoke to the agenda report and delivered a presentation.

Key points included:

- The Ford Road pump station upgrade at location 6a does not make the shortlist due to cost.
- Resource Consent is required before Engineering can move to the detailed design phase.
- Outlet desilting of Bell Road Drain, Waiari Canal, Kopuaroa Canal and Raparapahoe Canal planned. Silt will be remobilised and sent back down the river. A separate investigation involves testing the sediment for potential use as fill material for housing developments.
- A section of stopbank in the Lower Kaituna needs upgrading to meet the scheme's level of service. Recommendation to Council to undertake this work in conjunction with the Rediversion Project contract and to complete this construction season.
- Plans for the new boat ramp design were presented. Most of this has been paid for through general rates. There is an area currently being used as a construction depot, which will be used as overflow car parking.
- Geotechnical investigations into seepage issues have identified a course sand layer at Vercoe's near the Waiari/Kaituna confluence. Further investigations are to be undertaken at the Pamment property.
- Bell Road catchment modelling is now complete. Shows that the Bell Road catchment is not currently meeting its level of service (removal of water within three days in a 5 year return period event). A number of options are being investigated to meet the existing level of service or to increase the level of service (remove water within 36 hours, in summer months, during a 5 year return period event). It can't be demonstrated that the mowing culvert is causing the issue as flow in the main drain is reduced when the floodgate is closed (i.e. when the river is elevated). Mark reassured the group that this is high priority, however it will take some time to investigate remedial options.

ACTION:

Mark to present Bell Road catchment design options and costs at March 2020 meeting.

9 **Finance report**

Bruce Crabbe presented the finance report.

Key points included:

- Reminded members that it is a draft annual report, which is still to be audited and adopted by Council.
- Revenue has been lower than expected, due to lower interest rates and lower insurance recoveries due to delays with flood repair works. However there have been contributions from Rotorua Lakes Council for erosion repairs after the April 2018 event.
- Infrastructure insurance costs have increased, as have asset values, as a result of completed flood repair works.
- Contract work on routine maintenance has been lower than expected, mainly as works have been performed in conjunction with flood repairs.

ACTION:

Finance team to investigate, and report back on, the NZTA and Re-diversion remediation reserve balances, which have not shown any interest revenue since the 31 January 2019 report.

10 **Co-governance/community group updates**

Nick Chater reported that the Te Maru o Kaituna River Authority action plan is currently out for consultation, with the eight key areas identified.

Barry Roderick reported that the Freshwater Futures group is frustrated with the amount of time the Maketū estuary is taking. Pim de Monchy provided an update on the estuary and explained that the net effect of the diversion will be positive for the estuary.

Key points included:

- Bay of Plenty Regional Council has identified that contaminant loads into the Maketū Estuary will need to reduce by between 35% and 65% to return the estuary to a healthy state. Further investigations and modelling required.
- Ministry for the Environment is to release the Essential Freshwater discussion document on 5 September for consultation. This is likely to include proposals to strengthen the National Policy Statement on Freshwater Management and a new set of National Environmental Standards for freshwater management.
- The pump stations and gravity outlets discharging into the Coastal Marine Area will need resource consents to operate under Rule CD-8 in the Regional Coastal Environment Plan.
- Ford Road and Waitepuia catchments have been chosen as priority catchments for Council grants and advice to improve water quality. Chris McKay is the Land Management Officer responsible for these catchments.

11 General business

11.1 Ngongotahā flood event review update

Mark Townsend provided an update on the Ngongotahā Flood Review.

There was a suggestion that there should be a scheme for the entire length of the Ngongotahā and this will be considered.

Key points included:

- The Project Steering Group and representation has been decided.
- Stream repairs and maintenance are a focus.
- 12 options were initially proposed and these have been reduced to six:
 - 1. Raise Western Road
 - 2. Construct an overflow channel to the south
 - 3. Upper catchment detention
 - 4. Create ecological corridors
 - 5. Land use change
 - 6. Stream straightening/high flow overland flow paths.

11.2 Stopbank damage from grazing

Bruce Crabbe and Kerry Smith presented some photos of stopbank damage caused by over-grazing and vehicle access over the different scheme areas.

Key points included:

- Damage is difficult to repair during the winter, and there is risk that more damage can be caused.
- Farmers are required to pay for any repairs. Damage to stopbanks is covered by the Floodway and Drainage Bylaw 2008.
- The example of damaged caused by public/vehicle access provides justification for restricting vehicular access to stopbanks.

Meeting closed at 12:15 pm

Action Sheet

Kaituna Catchment Control Scheme Advisory Group Meeting

4 September 2019

Action		Person Responsible	Completed	Comment
1.	Kaituna Catchment Control Scheme 2019-2020 Maintenance Works Programme to be circulated to Advisory Group members.	Jo Heath	~	Circulated following the meeting
2.	Mark to present Bell Road catchment design options and costs at March 2020 meeting.	Mark Townsend	In progress	Update to be provided at March 2020 meeting
3.	Finance team to investigate, and report back on, the NZTA and Re-diversion remediation reserve balances, which have not shown any interest revenue since the 31 January 2019 report.	Jo Heath	~	Response sent to members 28/1/20 (BOPRC ID: A3471334) Interest accrual had not been put through for investments held. This has been fixed and when the appropriate investments mature the interest will be compounded on to the reserve balance and re- invested.





To: River Scheme Advisory Groups

From: Hemi Barsdell
Asset Management Specialist

Date: 11 February 2020

File Ref: A3474745

Subject: Long Term Plan 2021-2031, Infrastructure Strategy 2021-2051, and Rivers and Drainage Asset Management Plan 2021-2071

Purpose

To inform Advisory Group members of the coming planning processes and to seek feedback.

Feedback Sought

Advisory Group members to inform Council staff around how they would like to contribute to the planning processes.

PLANNING PROCESSES

Long Term Plan (LTP) 2021-2031

The Long Term Plan (LTP) is Council's key strategic document. It sets out Council's priorities for the next ten years, including what will be done, how much it will cost and how it will be funded. It is reviewed every three years to make sure it is still relevant and accurate.

Planning will be undertaken throughout the current calendar year to determine the draft LTP 2021-2031. The process, including timelines is yet to be confirmed, but it is anticipated that the draft vision, outcome statements, objectives and budget figures will be confirmed by November 2020.

Public consultation will occur leading up to November 2020, with formal notification of the draft LTP 2021-2031 expected in February 2021. Council will ratify the LTP 2021-2031 in their June 2021 meeting.

The LTP 2021-2031 is important for rivers and drainage schemes because:

- It approves annual budgets for the coming ten years.
- It is a key planning document that provides mandate and direction for Council work programmes.

Council is aiming to have draft LTP 2021-2031 budget figures by August 2020.

Infrastructure Strategy

The Infrastructure Strategy is a requirement of the Local Government Act 2002 under section 101B. It is developed and adopted as part of the LTP and must cover a period of at least 30 consecutive financial years.

The purpose of the Infrastructure Strategy is to;

- Identify significant infrastructure issues.
- Identify the principal options for managing those issues and the implications of those issues.

Council's Engineering team leads the development of the Infrastructure Strategy.

Rivers and Drainage Asset Management Plan (AMP) 2021-2071

The AMP is a 50-year plan that expands on the Infrastructure Strategy, providing more information about the assets and the management thereof. The AMP is reviewed and updated every three years alongside the LTP process. Review and updating of the AMP is led by Council's Rivers and Drainage Assets team.

NEXT STEPS

- Presentation and discussion at the March 2020 advisory group meetings.
 - o Council staff receive feedback from advisory group members.
- March August 2020: Workshop(s) and dialogue as appropriate between Council staff and advisory group members.
- September 2020: Advisory group meetings opportunity for planning discussion follow-up.
- February 2021: LTP 2021-2031 (including Infrastructure Strategy and AMP) publicly notified.
- June 2021: LTP (including Infrastructure Strategy and AMP) adopted by Council.

Hemi Barsdell Asset Management Specialist

upuated 13/02/2020	Any endiges in Neu		Source Do	Coment - BOPKC ID: I	13330310
		LOWER KAITUN	A		
Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate	Status
General					
	Fly tipping and rubbish collection/disposal	\$8,000		\$6,500	
			Rubbish cleared from Bell Rd C and A. Shopping trollies in Rotorua Streams.	\$1,500	Ongoing
	Pest Control	\$8,000	Pindone Rabbit holes on Kaituna LB Stop-bank 8.9-9.9km. First poisoning completed in Dec, Second underway in Feb.	\$1,000	Under Acti
Reach 1:					
Mouth to Te Matai (including	Riverbank Weed spraving	\$7.000			
Maketū Estuary)		\$7,000	P/b 11 7 12 0 km	¢1.000	Complete
			R/D 11.7-12.0 km	\$1,000	Complete
	Blackberry spraying		R/b 12.0-12.6 km	\$1,000	
	Glyseria spraying various areas by boat, estimated 15- 20,000m ²		Various L&R Banks. Waiting on boat to complete survey to undertake work.	\$15,000	
	Mulch Gorse and spray Maketū Estuary		McKenzie's	\$2,000	Complete
		A			
	Willow/Vegetation Maintenance	\$10,000			
	Removing fallen and pest trees and vegetation		R/b 2.5 - 4.6 km	\$2,500	Complete
	Remove flax and replant		R/b 2.5 - 4.6 km	\$2,500	Partially comp
	Removing fallen and pest trees and vegetation		R/b 5 .0- 6. km	\$3,000	
	Mulching		L/b 12.0-12.6 km	\$1,800	
	Willow/Vegetation Maintenance- WBDC reserve		R/b 12.3 - 12.5 km	\$2,500	
	Willow/Vegetation Maintenance		L/b 12.4-12.6 km	\$2,500	
	Planting	\$5,000		\$2,500	
	Rock replenishment	\$46,000			
	Titchmarsh (ex) - BOPRC lease (KT149)	\$40,000	1.45-1.70 km (Completed under Flood Repair Project)	\$0	Complete
	Familia Maintenana	¢4.000			
		\$4,000		4	
	Fencing (tbc)		various	\$4,000	
	River & Estuary maintenance general (desilting)	\$30,000			
	McKenzie culvert outlet		Engineering reviewing options.	\$2.000	
	Bell Rd Drain outlet		Completed in part by Engineering	\$3.000	Under Acti
			success in parces, engineering	÷0,000	ender neth
Stopbanks	Minor floodgates Inspection	\$1,000		\$1,000	
	Stopbank miscellaneous maintenance	\$5,000	Planned for Vercoes (rabbit holes) Poisoning underway	\$5,000	
Bell Road Floodgates	Floodgate Maintenance & inspections	\$4,000		\$4,000	
Managh's culvert	Floodgate Maintenance & inspections	\$3,000		\$3,000	
Browns Culvert	Floodgate Maintenance & inspections	\$3,000		\$3,000	
National Colorate		63.565		¢2.000	
wetiand culvert	Floougate Maintenance & Inspections	\$3,500		\$2,000	
	Due for replacement. Lift Inspect replace or repair as required			\$5,000	
Maketū & Other Floodgates	Floodgate Maintenance & inspections	\$3,000			
	Crowity fland anto vaniana 8 vadasian	1		\$6,000	
	Gravity hood gate replace & redesign			<i>\$0,000</i>	

ow	Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate	Status
7	Reach 2:					
8	Te Matai to Mangorewa	Riverbank Weed spraying:	\$4,000	Various sites		
19		Gorse & pampas at existing rockworks		Various	\$3,000	Partially completed
50		Pampas (Ex Harts) @existing rockwork		lb	\$2,000	
51		Willow/Vegetation Maintenance	\$1,500			
33		Willow Maintenance		R/b 12.7-12.9 km	\$2,000	
54		Willow Maintenance		L/b 13.3-13.6 km	\$2,000	Completed
55		AFFCO mulch and remove willow		R/b 13.75 - 14 km	\$3,500	Completed
56		Welds remove overhanging willow		L/b14.5 - 14.7 km	\$2,000	
57		Trust Block - McMeeking Road		R/b 16.8-16.9km	\$3,000	Completed
58		remove fallen Gum tree		RB 16.9	\$2,000	Completed
9		Willow Maintenance/removal		L/b 17.45-17.9 km	\$2,000	Completed
50		Willow Maintenance/removal		R/b 18.2 - 18.9 km	\$2,500	To be completed with Flood
51		Willow Maintenance/removal		L/b 18.4 - 18.9 km	\$2,500	repair works
52		Willow Maintenance/removal		L/b 19.1 - 19.8 km	\$2,500	
3		Willow Maintenance/removal		R/b 20.4 - 21.2 km	\$2,500	
54		Willow Maintenance/removal		L/b 21.0-21.2 km	\$4,000	
55		Mulch Stopbank Welds drain to KT 13.1 km			\$2,500	
66		Lower berm (Mc Naughtons)		R/b 18.8-18.9 km	\$4,700	
57						
68		Planting:	\$1,000	0/1 47 47 41	<u> </u>	
59 70		Maori Trust - Battering and Willow/native planting.		R/b 1/-1/.1km	\$8,000	
1		Rock replenishment (where required)	\$40,000			
2		Weld's seems to be settling, monitor		L/b 15.1-15.2km	\$1.000	
		- .	41.000		+-/	
3		rencing	\$1,000	various	\$500	
75	Stopbanks	Stopbank miscellaneous maintenance	\$2,000	Tomo in stopbank Affco	\$4,000	Completed
6		Floodgate Maintenance	\$1,000		\$1,000	
7	Poach 2:					
'8	Capals & Drains	Canal wood spraving	\$10,000			
'9		Ranaranahoe/Konuaroa various properties	\$10,000	R/h-l/h	\$3,000	Ongoing
0		Channel / hank spray maintenance, pampas etc.		1,5 2,5	\$2,000	
31					\$2,000	
33		Canal and drain repairs	\$5,000			
34		Slaters Drain. Replace 900mm headwall			\$5,000	
85		Replace 900 culvert (Armer's)			\$3,500	
86		Conal desilting	¢100.000			
37		Canar desitting	\$100,000	P/b 0 0 1 0 km	¢2.000	Undorway
38		Diagonal Drain and rechane berm		R/h 2 0.5 3 km	\$2,000 \$7,500	Completed
39		Internal Drain		R/b 1 1-2 2 km (de weed only)	\$7,500	Completed
90		Eactory Drain Desilting		Contractor portion \$16k	\$20,000	Completed
91 92					φ <u>2</u> 0,000	Completeu
93		Drain Desilting / Maintenance	\$65,000			
94		Bell Rd No1 install 6 culverts for excavator access			\$15,000	Completed
95		Managh's Drain (defer to 20/21)		R/b 0.0-0.9 km (de weed only)		Completed
96		Waiazi Stream				
97		Complete minor herm cut always		1/h 2 0 2 1km	¢1 500	
98		Desilt and complete minor erosion ropping defer to		L/ U 2.U-3.1KIII	\$1,500	
99		20-21. Estimated at \$32,000.		0.0 to 3.1km		
00						

Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate	Status
	Parawhenuamea				
	Desilt twice yearly		Completed once	\$5,000	Partially
	Parrots Feather spraying x4 yearly			\$2,000	Completed
	Deweed		R/b 0.0-2.0 km	\$1,500	
	Kopuaroa Canal				
	Desilt and reshape canal edge		R/b-L/b 2.2- 4.2km	\$20,000	Underway
	Mulch gorse & blackberry - Dovaston's		L/B 1.6-2.2 km	\$1,500	Underway
	Rock work Washer Ave. (250 tonne)		L/b 2.8-2.85 km	\$8,000	
	Ranaranahoe Canal				
	Willow main various properties		R/h 3 9 - 5 7 km	\$4 200	Partially completed
	Complete minor bern cut always		P/b-1/b00.24 km	\$2,000	
	Weeley right shade			\$2,000	
			L/D 2.0.2.9 km	\$1,000	
	Japanese Walnut main various properties		R/b 3.9 - 5.7 km	\$4,200	Partially completed
	Ohineangaanga Canal				
	Remove spoil off berm on right bank		R/b 00.0-0.80km	\$8.500	
	Remove spoil off berm on left bank		L/b 00 0-0 80km	\$9,500	Completed
			2, 0 00.0 0.00km	<i>\$3,300</i>	completed
	Aquatic Weed Spraying	\$15,000		\$15,000	
	Weed Cutter Boat	\$2,000	One round completed another	\$2,000	Partially completed
	Drain deweeding	\$30,000	underway in March	\$30,000	Partially completed
		<i>,,,,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,	underway in March	\$30,000	
	Minor clearing of obstructions in tributary streams	\$20,000	Raparapahoe Blockage removed	\$20,000	Completed
	(generally upstream highway)(5k per stream)				
	Rock maintenance	\$6,000			
	Nuzum's Drain: rockworks		R/b 0.0- 0.050km	\$7,000	
	Borough Drain: rockworks		L/b 0.0 -0.05 km	\$7,000	
	Diagonal drain		R/B 3.8	\$2,500	Completed
	Extra ordinary works following Bell Road ratepayer				
	Bell Road culvert (WBOPDC) floodgate installation			¢10.000	On hold
	(Monitor success of new McLeod's culvert)			\$10,000	Complete d
	Finish installation of Bell Rd A surge chamber			\$15,000	Completed
topbanks	Stopbank Miscellaneous Maintenance	\$2,000		\$2,000	
	Minor Flood Gates	\$1,000		\$1,000	
Pump Station Maintenance:				<u> </u>	
Kopuaroa (No. 3)	Pump Maintenance	\$20,000		\$2,000	
	No 2 pump; Lift, service, replace chain and replace seals.			\$5,000	
	Lift No 1 pump riser sand blast and paint			\$3,000	
	Lift pumps for inspection			\$1,500	
Bell Road A (No.1)	Pump maintenance	\$7,000	Remove submersible pump service	\$7,000	Completed
	Shed requires main		and reinstall.	\$1,000	
Bell Road B (No.2)	Lift for Inspection	\$7,000	Remove submersible pump service and reinstall.	\$7,000	Completed
Bell Road C (No.5)	Compound maintenance	\$14,000		\$2,000	
	Mow compound			\$2,000	
	Diesel	\$6,000		\$6,000	
	Lift pumps for inspection			\$2.500	
				- 2,000	

Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate	Status
Diagonal Drain	Pump Maintenance	\$22,000		\$11,000	
	Reshape ground for lifting pad			\$1,500	
	install pad over gravity discharge pipe			\$2,000	
	Lift No 1 pump riser sand blast, paint and refit			\$4,500	
	Lift pumps for inspection			\$3,000	
Ford Road (No.6)	Pump Maintenance	\$14,000		\$2,000	
	Floodgate maintenance			\$2,000	
	Paint and replace Barge Boards			\$2,000	Partially completed
	Lift No 1 pump riser sand blast, paint and refit			\$4,000	
	Lift pumps for inspection			\$1,500	
Maketū (No.7)	Pump Maintenance	\$15,000		\$2,000	
	Install false roof (Existing roof cracking)				
	Floodgate maintenance			\$1,000	
	Discharge headwall repair		Included in below quote.		
	Replace flood light and install security light		Quotation approved from Control	\$62,900	Under Action
	Lift No 1 pump riser sand blast, paint and fit		Tech for the rebuild of pump station automation, telemetry and electrical.		
	Replace Multismart electronics		Work to be completed in March 2020.		
	Lift pumps for inspection			\$1,500	
	Miscellaneous Electrical inspections			\$4,000	
Pump Electricity		\$110,000		\$107,000	
Stormwater pumping	(e.g. Marshall/Armer/Bell Rd A as required)	\$25,000		¢20.000	
	Marshall Pump; building and power supply.		Quote U/A	\$20,000	
	Armer pump; building and power supply		Quote U/A	\$20,000	
	Total Annual Maintenance Costs	\$687.000		\$717.300	
				<i>••••••••••</i>	
	Rock work 2017 (KT149 - Flood damage Marshalls ,800 tonne) Ohineangaanga		L/b 2.4-2.5 km	\$20,500	
	Wootten (KT154 Vegetation/tree removal)		Being partially funded by flood	\$0	
	Wootten (KT121 River bank erosion. Rock toe and rotten rock batter)		Being partially funded by flood damage insurance	\$0	
	Batter bank and plant (KT122 Tanners: River bank erosion. Rock toe and rotten rock batter)		L/b18.2-18.9 km	\$2,500	
	Annual Flood Damage Repair Allowance	\$170,000		\$23,000	
	Overall Maintenance Total Expenditure	\$857,000		\$740,300	

		JPPER KAITUN	Α		
Reach	Work Type & Site	Annual Budget	Location	Proposed Estimate	Status
each 4:					
otorua Scheme Area	Waitetī Stream	\$10,000		\$7,500	
	Vegetation removal and planting		Pre Christmas fall tree removal	\$2,500	Completed
	Ngongotahā Stream	\$25,000			
	Vegetation Maintenance		\$13,000 Spent on mature Poplar removal through Agrodome	\$15,000	Completed
	Planting/planting maintenance			\$4,000	
	Pest plant spraying		U/A Stu	\$4,000	Completed
	Fencing		U/A Stu	\$2,000	Completed
	Waiowhiro Stream	\$7,500			
	Vegetation removal, shrub willow erosion planting,		Vegetation removal, batter banks,	\$4,000	Completed
	bank battering for native planting		reinstate.		
			Large gum tree	\$2,500	Completed
	Utuhina Stream	\$15,000			
	Vegetation removal		Various fallen tree removals	\$3,000	Completed
	Obstruction removals			\$2,500	1
	Removing prone trees/improving access			\$8,000	Completed
		-			
	Mangakakahi Stream	\$7,500		¢1 500	
	Stabilisation planting		Work priority and scale increase after	\$1,500	Underway works st
	· · · · · · · · · · · · · · · · · · ·		a relatively minor flood event in December.	+-)	
	Otamatea Stream	\$5,000		ŚE 000	
				\$5,000	
	Puarenga Stream	\$20,000			
	Removing prone trees/improving access			\$15,000	
	Waingaehe Floodway	\$10,000			
	Vegetation maintenance		Vegetation/willow removal, desilt and de-weed.	\$10,000	Completed
	Remove trees from Charles Rd Bdy			\$7,500	
	Total Annual Maintenance Costs (Upper Kaituna)	\$100,000		\$100,000	
	Waitati Straam: Slumping and procion sites		Pack armouring unstream of boliday		
	vegetation removal		park.	\$50,000	
	Ngongotahā Stream; Spillway maintenance, right bank			\$100,000	
	Utuhina Stream: Small erosion sites, vegetation			\$50.000	1
	removal			430,000	
	Puarenga Stream: 2 culvert replacements, 2 erosion sites various vegetation, Cost Share job RLC Water Treatment Plant		Cost Share job RLC Water Treatment Plant completed. Investigating materials to cope with corrosive geothermal location.	\$55,000	Partially complet
	Mangakakahi Stream: Small erosion sites, vegetation removal		Work priority and scale increase after a relatively minor flood event in December.	\$15,000	Underway works st
	Otamatea Stream: Small erosion sites, vegetation			\$15,000	
	Capital Works: April 2018 Flood Renairs (Unner	\$285,000		\$285.000	
		¢205,000		+======	

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





All repairs to be completed by 30 June 2021

67% of high priority sites are complete are complete

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

Tracking our progress

Repair costs by River Scheme



What's happening in 2019-2020





For more information phone 0800 884 880 or visit www.boprc.govt.nz/floodrepairs

MEMORANDUM



BAY OF PLENTY REGIONAL COUNCIL TOI MOANA

То:	Kaituna Catchment Control Scheme Advisory Group	
	For period 1 August to 31 January 2020	
From:	Paula Chapman Project Manager - Flood Recovery	Date: 12 February 2020
File Ref:	A3478424	
Subject:	Status Report - April 2017 Flood Repair Project	

April 2017 flood event - background

In early April 2017, the Eastern Bay of Plenty was hit by ex-Tropical Cyclone Debbie. The cyclone brought with it prolonged torrential rain, resulting in rising river levels across all the rivers and waterways in the region. The cyclone dropped considerable rainfall over the entire Bay of Plenty area which produced record high river levels and flows. In the Rangitāiki, flows reaching the Matahina Dam were 20% higher than ever recorded. Flows in the Whakatāne River were captured as 34% higher than previously recorded.

The event resulted in significant damage to river and drainage networks and assets across the region, from the Kaituna in the west through to the Waioeka-Otara catchment in the east.

1 **Programme update**

1.1 **Programme update summary**

- The flood recovery project is two and a half years into the estimated four year programme. Physical repair works have been steady across the programme as conditions and material availability have allowed.
- As at 31 January 2020, 303 site repair works are complete (or have been assessed as no longer required) from the total programme of 520 sites. This work includes many of the highest priority works. In the case of the Kaituna Catchment Control Scheme, 12 sites from a total programme of 45 sites have been completed.
- The most visible repair associated with the total project is the College Road stopbank rebuild which is was completed in December 2018.
- The availability of suitable rock material remains a concern and may impact the programme period particularly in the Eastern Bay of Plenty.
- The process for claiming eligible costs from central government has been established. Current claims are for essential infrastructure repairs. Claim 10 was received in December and Claim 11 is currently being drafted. The total amount received from central government to date is close to \$7 million.

- Communication and stakeholder engagement has been a feature of the project as there is a high level of public and stakeholder interest in the recovery from the April 2017 floods and this will continue.
- Two progress payments for Infrastructure Insurance have been received totaling \$3,000,000.

1.2 Quality

- Sections of river are re-inspected prior to developing the detailed work scope for each site. Job specifications and design are included as part of a standard approval and procurement process. Due to the passage of time more often than not high priority sites are showing increased levels of damage compared to initial assessments and estimates.
- Job completion includes the capture of new or repaired assets into Council's Asset Management System.
- Dedicated administration resource has supported the planning, procurement and funding recovery process.
- The team is working with Coastal Catchments (Land Management) to identify opportunities to work together to increase inanga and tuna habitat, particularly in the Kaituna Catchment.

1.3 Communications, community and stakeholder engagement

An increase in Regional Council communications staff resource has supported the delivery
of the project. Council continues to input into the regular established newsletters, such as
the Edgecumbe Collective Newsletter and the Regional Council website to keep the
community informed on work plans and progress. The project page is now included on
Council's website and interested people can follow the page to ensure they receive regular
updates. <u>https://www.boprc.govt.nz/floodrepairs</u>

1.4 Procurement

- Work to date has centred mostly on high priority repair projects. The total programme is
 made up of multiple smaller projects and these have been delivered utilising established
 Rivers and Drainage Panel Supplier contract agreements. The panel approval process
 ensures contractors are capable of the work and hold the necessary accreditations and
 insurance cover. Existing contracts were renewed for a further three year in February 2019
 and where resource gaps were evident new suppliers joined the panel.
- The lack of suitable graded rock supply has constrained the programme of works in the Eastern Bay of Plenty, specifically work on the Whakatāne, Rangitāiki and Tarawera Rivers.
- Rakauroa Quarry (Matawai) has supplied all Ōpōtiki and Tauranga River sites, and Alan Rust Quarry (Te Mahoe) the upper Rangitāiki work.
- Kaituna rock work is supported by Poplar Lane (Papamoa) and Kaitemako Quarry (Welcome Bay).

1.5 **Programme delivery**

•	A total of 520 sites have been identified in the repair programme across the region, 45 are associated with the Kaituna Catchment Control Scheme
•	Across the programme 303 sites have been completed (or have been assessed as work no longer required), 12 of these are in the Kaituna Catchment Control Scheme
•	The programme of desilting and drainage bank repairs is 98% complete across the Rangitāiki Drainage network
٠	148 sites are programmed for completion in 2019/20 year, 19 of those are in the Kaituna Catchment Control Scheme
٠	Will the total programme completion date currently remains at 30 June 2021 this will be review after the 2019/20 summer construction period

Key sites completed to date in 2019/20 include:

- KT106 Hurst, river distance 5.9 km LB this work involved strengthening existing rock erosion protection.
- KT149 ex Titshmarsh, river distance 1.45 km RB this work involved reestablishment of an estimated 200 lineal metres of rock erosion protection damage and slumping along with an extension of protection along the exposed river edge of a further 50 lineal metres.
- KT130 Reese, river distance 20.5 km RB the damaged was assessed at 300 lineal metres however after starting the works it was identified that an additional 100 lineal metres of erosion repair work is required.

Key sites underway include:

- KT151 various sites, river distance 3.2-4.5 km RB this site is a total of 1.3 km and is located 700 m upstream of the Diagonal Pump Station outlet. The actual erosion at the site appears to be in the range of 500 m. There is also a lot of dead trees, debris and pest plants through this reach.
- KT121 Wootten's, river distance 17.3 km RB the work involves 300 lineal metres of repair/replacement of an existing rock lining asset and extension of the erosion protection. Fifty per cent of the rock required is being stockpiled at PGG Wrightson sale yards.

Key sites planned:

- KT129 Scown, close to KT130 this site was started prior to winter and will be completed once maize has been harvested
- AFFCO Sites KT115, KT116 and KT144
- KT124, KT126, KT128 and KT154 on Tanner/Lanes properties.

1.6 Financials

Forecast costs Kaituna flood repair programme at January 2020

Estimated Total Programme cost Kaituna	\$4,670,000
Estimated Betterment Value	\$2,619,435

The total cost of repairs in the Kaituna Control Scheme will exceed that originally estimated. The remaining work has been re-estimated based on actual costs to date and recent inspections. The revised total cost is estimated at \$4,670,000 compared to the original programme estimate of \$2,956,200.

The cost of materials (rock supply and cartage) has been more expensive than was provided for in the original estimates and some repair works are more extensive than first identified. Where there are existing erosion control assets the costs will be mostly offset by insurance and central government recoveries.

2017/18 - Actual Costs

Total expenditure (30 June 2018) – for infrastructure works	\$135,335

2018/19 – Actual Costs

Expenditure budget	\$1,249,600
Total expenditure (30 June 2019) – for infrastructure works	\$1,245,475

2019/20 - Actual Costs

Expenditure budget	\$1,645,000
YTD at 31 January 2020 – for infrastructure works	\$665,531

2 **Programme risks and issues**

Risk/Issue	Description	Action/management	Owner
Ground	Wet conditions restrict work	Undertake soft engineering works and rock	BOPRC
conditions	programme	stockpile work during winter months	
Weather	Future weather events will	Complete site works in priority order as this	BOPRC
	exacerbate damaged sites	factors in risk and consequence	MCDEM
			Insurer
Weather	Severe weather event may	Review works programme against new works	BOPRC
	cause new damage	(annual flood damage)	MCDEM
			Insurer
Rock material availability	Suitably graded rock supply is restricted and the operating environment is variable	Working with rock sources to supply suitable material for works in Ōpōtiki (Rakauroa Quarry in Matawai) and Rangitāiki (Ywari Quarry in Manawahe), and Kaituna (Kaitemako) Encourage new rock sources to enter Council's prequalified panel supplier schedule Investigate opportunities to support new quarry's in the Eastern Bay of Plenty	BOPRC
Resource	Staff resource is limited for oversight of on-site works	Using in-house resources (Area Engineers) to supervise site works. Additional contract resource for rock grading/audits and new asset capture	BOPRC

Programme length	Property owners want works associated with their property	Implement communications and engagement plan	BOPRC
	undertaken first	Direct communication with property owners	
Insurance	Claim limits for individual works	Aon insurance specialist supporting claim	BOPRC
	are not known	process	Aon
Cost	Cost exceeds budget	Work closely with MCDEM and Insurers,	BOPRC
		maximise contributions from other	Aon
		stakeholders	MCDEM
			Insurer

3 Recoveries

- Loss adjustors have been assigned for the infrastructure claim and the material damage claim. Staff are working with insurance specialists Aon to progress the insurance claims process to date which has been slow.
- The project team are working with the central government (MCDEM) representative and are comfortable with the process and speed of recoveries to date.

4 Expected progress within the next six month period

- Complete 50% of Kaituna works
- Lodge and receive MCDEM Claim 11
- Complete flood pump station repairs (Te Rahu) and finalise material damage claim

Paula Chapman Project Manager – Flood Recovery

MEMORANDUM



BAY OF PLENTY REGIONAL COUNCIL TOI MOANA

To:Kaituna Catchment Control Scheme
Advisory GroupFrom:Mark Townsend
Engineering ManagerDate: 13 February 2020File Ref:A3478476

1.0 Utuhina Stream Upgrade

Subject:

Budget 2019/20: Modelling \$141,000

Engineering update report

This project is to extend and update the existing flood model upstream. The model will be used to prepare flood hazard maps and undertake a flood risk assessment in accordance with the Regional Policy Statement. This will provide a stocktake of the current flood situation and the flood situation once climate change is applied.



Fig 1: Survey extent on Utuhina/Mangakakahi/Otamatea Streams

Both, the hydrological and hydraulic models have now been built and are currently undergoing calibration. Once this component is compete both present day and future climate change prediction design scenarios will be run to determine the flood risk.

Following the flood risk assessment, staff will be working with Rotorua Lakes Council (RLC) on possible solutions to achieve the 1% AEP level of service. NIWA has been engaged by RLC to undertake the flood hazard mapping.

2.0 Ford Road Pump Station Upgrade Project

Budget 2019/20: Consenting and detail design \$471,000

As previously reported a preferred option, Option 1, has been determined using a multicriteria analysis.



Fig 2: Possible New Pump Station Locations

That option, as shown above, is to move the Ford Road discharge to alongside the Diagonal Drain pump station.

Community engagement is currently underway with Iwi and key stakeholders to discuss the pump station option assessment and land management options plan.

3.0 Kaituna River Desilting

Budget 2019/20: Consenting and dredging \$312,000

Following site inspection the following priorities were determined for sediment removal:

- 1. Bell Road outlet into river
- 2. Waiari, including Parawhenuamea drain outlet
- 3. Kopuaroa
- 4. Raparapahoe

Dredging works are currently under way over a six-week contract period. It is expected that all work will be complete early March.

Bell Road

Weed has been dredged and removed from site. The sediment build-up has been removed, re-establishing the natural bed.



Fig 3: Sandbar prior to dredging works – Bell Road



Fig 4: Depth contours (approx.) of Bell Road site prior to dredging works



Fig 5: Depth contours (approx.) of Bell Road site after dredging works

<u>Waiari</u>

The canal mouth has been dredged to the existing bed level. It is noted that material is constantly shifting into the dredged area from the upstream build-up, filling in the dredged area but lowering the upstream sediment build-up.

Kopuaroa

Work here will commence mid-February.

Raparapahoe

Work here will be reassessed based on remaining operational days within the contract period.

Parawhenuamea

The dredging of the channel at this outlet has proven to be impractical and the construction of a groyne to allow excavator access for maintenance is not financially feasible. A contractor has been engaged with specialised equipment (amphibious excavator) that can operate in the floating weed to clear a channel. This work is scheduled for late February 2020.

4.0 Lower Kaituna River Stopbank Upgrade

Budget 2019/20: Construction \$1,500,000



Fig 6: Location of stopbank upgrade

A section of stopbank near the Kaituna River Rediversion Project needed upgrading to meet the scheme's required level of service.

Rather than undertake the procurement via an open market tender, the work was included as a variation to the Kaituna Rediversion Project. This approach reduced timeframes to procure a contractor, reduced time for staff involved and was more cost effective. The stopbank upgrade work is now complete.

5.0 Te Puke Stormwater

Budget 2019/20: Modelling \$156,000

Robbin Britton from Britton Consultants was commissioned to act as Project Manager for this study. DHI have been appointed to undertake the modelling required. Western Bay of Plenty District Council (WBOPDC) have been briefed on the project and are part of the project team.

Initial work has been about gathering data, assessing whether existing models can be utilised for this project, undertaking site visits and confirming project deliverables with WBOPDC.

Once this has been worked through the assessment can begin. The programme for this year may include:

- Undertake a comparison between development in 1990 (start of the Kaituna Scheme) and 2019.
- Generate design storm data inputs and hydrological inputs
- Update Te Puke Stormwater model and run design storm scenarios



Fig 7: Te Puke township and the drainage network

6.0 Kaituna Mole Renewal

Budget 2019/20: Construction \$180,000

An independent review was undertaken of the proposed remedial design (similar to the current mole design but with improved corrosion resistance and concrete capping) and as a result there were no changes.

However the tender price has come back well in excess of the existing budget and therefore other options are currently being explored.

Reconstruction has been deferred until next financial year accordingly.

7.0 Geotech Investigations into Stopbank Seepage

Budget 2019/20: Undertaken within BAU (business as usual) budget

Three sites have been investigated using intrusive (hand-tools) and non-intrusive (Ground Penetrating Radar) testing. Site observations focussed on areas where sands have surfaced, particularly near to stopbanks, however analysis and treatment is yet to be undertaken. The sites involved are Vercoe's near Kaituna, Waiari confluence (right bank), Pamment's, north of relic oxbow, end of Pah Road (right bank) and Pamment's, downstream of the TEL (right bank).

The analysis is scheduled for the 2020/21 financial year.

Budget 2019/20: None

At the last advisory group meeting in September 2019 we reported on modelling work planned to inform:

- Options to return the Bell Road sub-catchment to its agreed level of service, or
- Options to increase the level of service to remove water within 36 hours, in summer months, during a five-year return period storm.

This work is being finalised and a report is to be tabled, along with a presentation, at the advisory group meeting.

9.0 Ngongotahā Stream Flood Mitigation

Budget 2019/20: None

Following the independent review of the flooding, various workstreams were set up to undertake the recommendations. Below is a table showing the workstreams, progress and work planned over the coming months:

Workstream Topic area	Work completed over the last 2 months	Work planned for the coming months
Streambank Maintenance and Repairs	Preparations / planning completed for summer season of maintenance works. 30 large streamside trees removed (upper catchment area) Stream maintenance plan in development.	Streambank maintenance prioritised near A&P showgrounds. This includes large tree removal, vegetation management, fencing, tree planting and fish habitat restoration. Also enhancement of existing spillways. This includes vegetation management, contouring as well as rock armouring at inlets and outlets. More streamside planting to occur next winter Completion of stream maintenance plan
Engineering, Modelling and Options	Landowner engagement carried out regarding shortlisted flood mitigation options. Flood model calibrated which means that it can recreate the impacts of the April 2018 flood. Preliminary modelling of three individual flood mitigation options completed.	 Modelling of combined options – results to CRG members in March 2020. Goal of selecting and refining the preferred solution between March and June 2020. Landowner engagement will be ongoing.
RMA Planning and Consents	BOPRC / RLC Planners meeting held in early May regarding plan review. Ongoing engagement with consultant community about Council's revised Engineering Code of Practice.	RLC and BOPRC are working together to develop and review current urban flood hazard catchment models with a view to using this to develop flood risk assessments for these catchments to, in turn, inform the plan review.

Workstroom	Work completed over the last	Work planned for the coming menthe
Topic area	2 months	work planned for the coming months
	In terms of District Plan review, scoping still underway. Additional risk assessment required by BOPRC to satisfy Regional Policy Statement requirements.	
Civil Defence and Readiness	Completion of Emergency Evacuation Plan.	Workshop to be held regarding Ngongotahā Community Response Plan.
	Working group established for Paradise Valley Community Response Plan.	Goal is to complete the Community Response Plans for the Ngongotahā and Paradise Valley communities in 2020.
	Potential members identified for working group to develop the Ngongotahā Community Response Plan.	
Upper Catchment Workstream	Tree removal complete (30 large trees) followed by community planting day. Initial feasibility for detainment bunds in the upper Umurua stream (Mamaku Plateau) completed. 19 sites identified (5 of which are on one property). Sites of varying size, depending on the lie of the land. Mainly ephemeral flowpaths.	More tree removal to come. Assessment needed to identify priority sites/areas. Engagement with landowners of the 19 potential detainment bund sites.

Table 1 : Ngongotahā Stream Mitigation Workstreams Update Feb 2020

Mark Townsend Engineering Manager

Bay of Plenty Regional Council Toi Moana Statement of revenue and expense - Kaituna Catchment Control Scheme

For the 6 months ending 31 December 2019

	Run: 28-Jan-2020	Variance Indicators						
		Low <10%		Medium 10% to 30%		High >30%		
		2019/20		Variance			2020/21	
		Budget	Actual	\$	Variance indi	cator	Variance comments	Draft Annual
Line			\$000					Plan \$000
	Operating revenue by class							
1	General rates	96	96	(0)	Lower			217
2	Targeted rates	962	962	(0)	-			2.099
3	External interest income	57	74	17	Higher		Additional interest earnt on reserves	129
4	Other revenue	27	3	(24)	Lower			29
5	Investment income	145	145	0	-			307
6	Total revenue	1,288	1,281	(7)	Lower	•		2,781
	Operating expenditure by class							
7	Administration expenses	0	9	(9)	Higher			25
8	Other expenses	83	106	(23)	Higher			356
9	Consultancy fees	0	52	(52)	Higher	▶	Modelling of Bell Road catchment and assessment of the effect of the Kaituna rediversion project	0
10	Contract work						Additional works undertaken earlier in the year and there is an	
10		110	287	(177)	Higher		expectation of an overspend of \$120k at year end.	553
11	Finance costs	160	117	43	Lower		Lower capital spend year to date than applied to budget borrowing costs	438
12	Depreciation and asset disposal	231	174	57	Lower			473
	Subtotal - expenditure	585	746	(161)	Higher			1,845
13	Net overhead charges and recoveries	297	370	(73)	Higher			637
14	Total operating expenditure	882	1,116	(234)	Higher	▶		2,482
15	Total operating surplus (deficit)	407	165	(242)	Unfavourable			299

Bay of Plenty Regional Council Toi Moana Statement of revenue and expense - Kaituna Catchment Control Scheme

For the 6 months ending 31 December 2019

	Run: 28-Jan-2020	Variance I			cators				
		Low <10%		Medium 10% to 30%		High >30%			
		2019/20		Variance	Variance			2020/21	
		Budget	Actual	\$	Variance indi	cator		Variance comments	Draft Annua
ine			\$000						Plan \$000
	Capital revenue by class								
16	Capital funding	156	202	45	Higher			Central Government contributions for works completed	320
	Total capital revenue	156	202	45	- Higher				320
17	Total surplus (deficit)	563	367	(196)	Unfavourable				619
	Capital expenditure by project				-				
18	Kaituna River Capital New	1,564	871	693	Lower			Work has commenced on the stopbank raising project and also the Kaituna mole	250
19	Kaituna Flood Damage Repairs	494	618	(125)	Higher			Works are ahead of programmed but still expected to be on budget at year end	3,195
20	Total capital expenditure	2,057	1,489	568	Lower				3,445
	Reserves	Opening Balance \$000	Net Movement \$000	Closing Balance \$000					
21	Flood Damage Reserve	(1,790)	597	(1,193)	Funds available				
22	Asset Replacement Reserve	(1,214)	607	(606)	Funds available				
23	Works Reserve	(1,084)	(85)	(1,169)	Funds available				
24	Kaituna NZTA	(569)	(29)	(598)	Funds available				
25	Kaituna Remediation	(463)	(23)	(486)	Funds available				
26	Total Reserves Balance	(5,119)	1,066	(4,053)	Funds available				
27	Internal Loans	5,644	835	6,479					
		1/07/2018 \$000	Movement \$000	1/07/2019 \$000]				
28	Asset Valuation	64,367	3,635	68,002	00				





BAY OF PLENTY REGIONAL COUNCIL TOI MOANA

To: River Scheme Advisory Group members

From: Kirsty Brown

Rivers and Drainage Assets Manager

Date: 5 February 2020

File Ref:

Subject: River Scheme Advisory Group Membership

Under the advisory groups' Terms of Reference, members are appointed for a period of three years with a maximum term of six years. The first triennium is due to end in September 2020.

Staff are very pleased with how the advisory groups are working and are keen for members to continue in their positions for a further three year term.

We are recommending that:

- Members advise whether they wish to continue for the additional three year term (to September 2023).
- We advertise for nominations to fill current vacancies (Rotorua urban representative) and any vacancies created by current members not wanting to continue for a further three years.

Kirsty Brown Rivers and Drainage Assets Manager