



Tauranga Moana Advisory Group Agenda

NOTICE IS GIVEN that the next meeting of the Tauranga Moana Advisory Group will be held at the Cruise Deck, Club Mount Maunganui, 45 Kawaka Street, Mount Maunganui on:

Friday, 17 May 2019 commencing at 9.30 am.



Ngāi Te Rangi Iwi



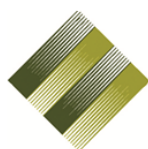
Te Tāwharau o
Ngāti Pūkenga



Ngāti Ranginui Iwi



Tauranga City



Western Bay of Plenty
District Council



BAY OF PLENTY
REGIONAL COUNCIL
TOI MOANA

Fiona McTavish
Chief Executive, Bay of Plenty Regional Council
Toi Moana
8 May 2019



Tauranga Moana Advisory Group

Statement of Purpose

He aha ai? - *purpose*

Whanaungatanga and kaitiakitanga are the basis on which we want to move forward together. The purpose of Tauranga Moana Advisory Group is to continue building strong working relationships to support and enhance the health of our harbour and catchments.

Ahuatanga o te noho - *background*

The Tauranga Moana Iwi Collective Deed of Settlement, once passed into law, will require a Tauranga Moana Governance Group to be established. To prepare for the Governance Group, this Tauranga Moana Advisory Group has been established. The first Advisory Group meeting was held 17 November 2014 and it will continue to meet, share information and provide direction to staff of partner agencies until replaced by the Governance Group.

Whai wāhitanga - *participation*

Participants in Tauranga Moana Advisory Group will be representatives of the partners to Tauranga Moana Programme. At this stage, partners include Tauranga Moana iwi and hapū as represented by Ngāti Ranginui, Ngāi Te Rangī and Ngāti Pūkenga (Tauranga Moana Iwi Collective) as well as Western Bay of Plenty District Council, Tauranga City Council and Bay of Plenty Regional Council.

Ngā turanga - *roles*

The role of participants in the Advisory Group is to:

- **Whakataurite - *coordinate***: oversee and contribute to the work that partners do in the harbour and catchments
- **Whakarongo - *listen***: ensure the views of the hapū, iwi and wider community are represented in the work we do
- **Whakawhanaungatanga - *involve***: promote and support hapū, iwi and the wider community participating in our work
- **Whakatohatoa - *share***: provide regular updates to, and share information with partners
- **Whakakotahi - *integrate***: promote the integration of our work so we can achieve our purpose together



Chairperson:	Councillor N Bruning (Bay of Plenty Regional Council)
Deputy Chairperson:	C Tawhiao (Ngāi Te Rangi)
Members:	Councillor P Thompson (Bay of Plenty Regional Council) Councillor A von Dadelszen (Bay of Plenty Regional Council) Councillor M McDonald (Bay of Plenty Regional Council) Councillor C Stewart (Tauranga City Council) Councillor K Clout (Tauranga City Council) Councillor P Mackay (Western Bay of Plenty District Council) Councillor M Dean (Western Bay of Plenty District Council) T Kawe (Ngāti Ranginui) R Nelson (Ngāti Ranginui) R Smallman (Ngāti Pūkenga) K Tapsell (Ngāti Pūkenga) P Bennett (Ngāi Te Rangi)
Observer:	J Milham (Department of Conservation)
Committee Advisor:	M Pansegrouw

Agenda

- 1 **Karakia/Mihi – Welcome**
- 2 **Apologies**
- 3 **Declarations of Conflicts of Interest**
- 4 **Previous Minutes**
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- 5 **Update from Partners**
 - 5.1 Ngai Te Rangi
 - 5.2 Ngati Ranginui
Long term plan timeframes and priorities – Te Pio Kawe
 - 5.3 Ngati Pukenga
 - 5.4 Western Bay of Plenty District Council
 - 5.5 Tauranga City Council
 - 5.6 Bay of Plenty Regional Council

6	Conservation Update	
6.1	Department of Conservation <i>Presented by Jeff Milham (DoC)</i>	
7	Reports	
7.1	Strategic Context: Freshwater Futures Update <i>James Low, Bay of Plenty Regional Council</i>	17
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8.1	WBOPDC Environment Strategy <i>Presented by Jodie Rickard (WBOPDC)</i>	
8.2	Proposed Coastal Pathway <i>Presented by Cheryl Steiner (TCC)</i>	
8.3	Swan Control <i>Presented by Matt McDougall (Fish and Game)</i>	
8.4	National Policy Statement for Freshwater Management – Te Mana o Te Wai <i>Presented by Santiago Bermeo (BOPRC)</i>	
8.5	Tauranga Moana Wai Maori Strategy Update <i>Presented by Pia Bennett (Ngai Te Rangi)</i>	
9	General Business	
10	Next Meeting – 16 August 2019	
11	Karakia / Close of Meeting	

Minutes of the Tauranga Moana Advisory Group meeting held at the Cruise Deck, Club Mount Maunganui, 45 Kawaka Street, Mount Maunganui, on Friday, 15 February 2019 commencing at 9.30am

Present:

Chairperson: Cr Norm Bruning - Bay of Plenty Regional Council

Members: Piatarihi Bennett - Ngāi Te Rangi
Te Pio Kawe - Ngāti Ranginui
Cr Catherine Stewart - Tauranga City Council
Cr Kelvin Clout - Tauranga City Council
Cr Mark Dean - Western Bay of Plenty District Council
Cr Peter Mackay - Western Bay of Plenty District Council
Cr Andrew von Dadelszen - Bay of Plenty Regional Council
Cr Matemoana McDonald - Bay of Plenty Regional Council

In Attendance:

Bay of Plenty Regional Council (BOPRC):

Cr Jane Nees - Deputy Chair; Sarah Omundsen - General Manager Regulatory Services; Toby Barach - Principal Advisor, Coastal Catchments; Hamish Dean - Team Leader Western Catchments; Santiago Bermeo - Senior Planner; Samantha Titze - Land Management Officer (Tauranga); Harry Singh - Marketing and Communications Advisor; Clarke Koopu - Senior Advisor (Treaty) and Merinda Pansegrouw - Committee Advisor

Tauranga City Council (TCC):

Joel Peters - Principal Strategic Advisor; Robyn Skelton - Executive Officer; Dianne Paton - Parks Co-ordinator Environmental; Warren Aitken - Team Leader Parks and Environment

Western Bay of Plenty District Council (WBOPDC):

Chris Nepia - Māori Relationships & Engagement Advisor

Other:

Wendy Rapana - Kaimai Mamaku Ranges Forests Forum Coordinator and Darryl Jensen - Provincial President, Bay of Plenty Federated Farmers

Apologies:

Deputy Chairperson Charlie Tawhiao - Ngāi Te Rangi; Kahurangi Tapsell - Ngāti Pūkenga; Cr Paula Thompson - Bay of Plenty Regional Council, Jeff Milham - Department of Conservation

1

Opening Karakia

Councillor Kelvin Clout opened the meeting with a karakia.

2 Apologies

Resolved

That the Tauranga Moana Advisory Group:

- 1 Accepts the apologies tendered by Deputy Chairperson Charlie Tawhiao, Kahurangi Tapsell, Cr Paula Thompson and Jeff Milham.

Bruning/Stewart
CARRIED

3 Declarations of Conflicts of Interest

3.1 Item 7.3 - Tauranga Moana Programme update

Bay of Plenty Regional Council Councillors: Andrew von Dadelszen and Matemoana McDonald declared that they had served on the Hearing Panel for Air Quality Plan Change (Proposed Plan Change 13) and did not participate in this part of the discussion.

3.2 Item 8.4 - Kopurererua Valley Redevelopment Project

Cr Andrew von Dadelszen - Bay of Plenty Regional Council and Cr Mark Dean - Western Bay of Plenty District Council declared a conflicted interest and did not participate in the discussion.

4 Previous Minutes

4.1 Tauranga Moana Advisory Group Minutes – 16 November 2018

Resolved

That the Tauranga Moana Advisory Group:

- 1 Confirms the Tauranga Moana Advisory Group Meeting Minutes of 16 November 2018, as a true and correct record.

Dean/Mackay
CARRIED

5 Update from Partners

5.1 Ngāi Te Rangi

Addressed under item 7.3.

5.2 Ngāti Ranginui

Te Pio Kawe updated members on Ngāti Ranginui matters:

Key Point

- Following an urgent hearing application by Ngāti Ranginui regarding the recent Hauraki settlement, a hearing with the Waitangi Tribunal had been granted for the week of 8 April 2019.

5.3 Ngāti Pukenga

Nil

5.4 Western Bay of Plenty District Council

Western Bay of Plenty District Council Councillor Mark Dean provided a verbal update highlighting the following:

Key Points

- Ongare Point Wastewater Scheme was operational – only one property still needed to be included / 60 tanks had been installed
- Katikati Wastewater Scheme – Resource Consent had been approved
- Te Puna West Wastewater – Project completed
- Planting hazelnut trees in Te Puke along Waiari River in an effort to absorb nitrogen
- Omokoroa to Tauranga Cycleway Project was on track, with a "clip-on" structure to be fitted to the Wairoa River state highway bridge. A presentation providing a detailed update on the Cycleway Project would be presented at the next meeting scheduled for May 2019
- Tuapiro Point – wetland restoration underway
- Ōmokoroa – successfully completed the installation of pipe drains.

Item for Staff Follow-up

- Western Bay of Plenty District Council staff to provide feedback on the status of Te Rereatukahia Marae Wastewater Connection at the next meeting scheduled for May 2019.

5.5 Tauranga City Council

Cr Kelvin Clout provided a verbal update, highlighting Tauranga City Council's (TCC) key work streams as follows:

Key Points

- Water provision and related systems in Tauranga were currently under pressure due to the severe heat and lack of rain, hence the current water restrictions
- Construction of the new sludge thickening and dewatering plant at the Te Maunga Waste Water Treatment Plant was progressing well – due for completion in April 2019
- As part of City Water's drive to reduce wastewater blockages in the network, the wet wipe campaign "Save our pipes from wipes" was progressing well and would continue. 30% of blockages within the TCC network were caused by wipes. TCC was involved in reviewing the national flush ability standards for wet wipes
- Kulim Park Redevelopment Project – installation of the new timber seawall had been completed. Sand nourishment at Kilim Park was commencing in April with 4500m³ of sand to be placed on the foreshore
- Continuous development and restoration of the Kopurereroa Valley Reserve, with the support of Ngai Tamarawaho and BOPRC
- Rapid cycle path in Kopurereroa Valley to be upgraded to make it easier and safer for people on all types of bikes

- Summer Industrial Stormwater Audit Programme to commence shortly.

Points Raised by Members

- Suggested that soft engineering options supplementing the existing structures at the Kulim Park Redevelopment Project be considered (such as planting spinifex as a native sand-binding grass)

Item for Staff Follow-up

- Councillor Kelvin Clout to discuss introducing soft engineering options at Kulim Park as part of the Redevelopment Project with TCC staff
- Bay of Plenty Regional Council Principal Advisor, Coastal Catchments Toby Barach to raise the matter of wet wipes with the Regional Wastewater Management Group.
- A joint communique (draft to be prepared by the Regional Wastewater Management Group), supported by all territorial authorities in the Bay of Plenty Region, to be sent to the Minister for the Environment, highlighting the seriousness of wastewater blockages caused by wet wipes marketed as 'flushable' and 'biodegradable'.

5.6 Bay of Plenty Regional Council

Cr Norm Bruning outlined BOPRC priorities:

Key Points

- Recommendations from the Hearing Panel for Proposed Plan Change 13 (air quality) had been received and would be considered by Regional Council in February. If the recommendations were accepted, decisions would be publically notified and the Regional Plan amended. New rules associated with fumigation, as well as handling of bulk solid materials (e.g. palm kernel) were expected
- Since the new monitors had been in place in the Mount Maunganui Industrial Area, there had been six PM10 exceedances and three SO₂ exceedances of the national standards across the whole area. These had been published in the Bay of Plenty Times as exceedances needed to be publically notified under the national standards
- 14 appeals had been received on Proposed Plan Change 9 (water quantity) with a further 26 parties joining the appeals. Key issues related to Māori rights and interests, renewable electricity, dairy sheds and municipal supply. Council had received direction from the Environment Court and would begin resolution of appeals
- A discussion document had been prepared for managing marine pests across the upper north island regions. It was called "Better ways to stop marine pests" and if agreed by all Councils would be consulted on March to May.

6 Conservation Update

6.1 Department of Conservation

Nil

7 Reports

7.1 Strategic Context: Freshwater Futures update

Bay of Plenty Regional Council Senior Planner Santiago Bermeo provided a verbal update on ongoing work under the National Policy Statement for Freshwater Management.

Key Point

- The Programme for the staged implementation of the National Policy Statement for Freshwater Management had been updated with an extension of the timeline to complete implementation by 31 December 2030.

Points Raised by Members

- Levels of nutrients from fertilisers flowing into waterways were concerning and needed to be monitored/regulated
- Lack of control of gorse in the catchment area was concerning and required a strategy to be put in place
- Noted that the key documents on the Three Waters Review / Essential Freshwater, which were published by Central Government in November 2018, would form an integral part of the water discussion
- Bay of Plenty Regional Council Pou Ngaio (Technical/Cultural) Nathan Capper had been seconded to the Fresh Water Task Force at MfE.

Resolved

That the Tauranga Moana Advisory Group:

1. **Receives the report, National Policy Statement for Freshwater Management Implementation Programme which served before the Regional Direction and Delivery Committee of the Bay of Plenty Regional Council on 11 December 2018.**

**Bruning/Nees
CARRIED**

7.2 Jurisdictional Boundaries in Tauranga Harbour

Resolved

That the Tauranga Moana Advisory Group:

- 1 **Receives the report “Jurisdictional Boundaries in Tauranga Harbour” dated 15 February 2019.**

**Mackay/Von Dadelszen
CARRIED**

7.3 Tauranga Moana Programme update

Bay of Plenty Regional Council Councillors: Andrew von Dadelszen and Matemoana McDonald declared that they had served on the Hearing Panel for Air Quality Plan Change (Proposed Plan Change 13) and did not participate in this part of the discussion.

Refer PowerPoint Presentation Objective ID A3134944

Bay of Plenty Regional Council Team Leader, Western Catchments Hamish Dean presented the Tauranga Moana Programme Update report, supported by a PowerPoint Presentation:

Key Points of the Presentation

- The State of the Environment Report was currently in a final design phase and would be available in due course
- The final draft Tauranga Harbour Inundation and Coastal Erosion report was being reviewed. A joint public release was expected March 2019
- Overview of Programme Updates
- Key up-coming Activities
- Update on methyl bromide monitoring: boundary monitoring for Methyl Bromide at the Port of Tauranga occurred via both Council and consent holder (Genera) monitoring
- Low levels of sea lettuce growth had been reported for this season with no clean-ups required. An ongoing project was being undertaken by the University of Waikato (with support from BOPRC) with the view of determining whether sea lettuce could possibly provide any economically viable options.

Points Raised by Members

- Ngāi Te Rangī iwi had never intended / understood that the Tauranga Moana Iwi Management Plan 2016 – 2026 would replace the 2008 Te Awanui Tauranga Harbour Iwi Management Plan. According to Ngāi Te Rangī iwi, the 2008 Te Awanui Tauranga Harbour Iwi Management Plan was still deemed alive and relevant
- Concern was expressed that the State of the Environment Report was within its final design phase; particularly since it was pointed out at the meeting in November 2018 that the final executive summary should only be published once the Tauranga Moana Advisory Group had familiarised itself with the contents of the full report and were comfortable with the outcomes/conclusions.

Items for Staff Follow-up

- Staff to verify whether mangroves were impacting on seagrass growth
- Further information to be provided on the increase of seaweed observed off Tauranga coast beaches over summer
- The Tauranga Moana Programme Update spreadsheet to be expanded to include an additional column displaying iwi/hapū programmes/priorities that had been undertaken to date. A map reflecting the input/work undertaken by various iwi/hapū/community groups and local authorities would be very useful
- Review of the State of the Environment Report as requested by the Tauranga Moana Advisory Group in November 2018 - namely that the final executive summary should only be published once the Tauranga Moana Advisory Group had familiarised itself with the contents of the full report and were comfortable with the outcomes/conclusions.

Resolved

That the Tauranga Moana Advisory Group:

- 1 Receives the report “Tauranga Moana Programme Update” containing the Tauranga Moana Programme Dashboard dated February 2019.**

Bruning/Von Dadelszen

CARRIED

8 Presentations

8.1 National Policy Statement for Freshwater Management – Te Mana o Te Wai

Addressed under item 7.1.

8.2 Tauranga City Council Environment Strategy

Refer PowerPoint Presentation Objective ID A3137381

Tauranga City Council (TCC) Principal Strategic Advisor Joel Peters provided an outline on progress made with the development of the Environment Strategy:

Key Points of the Presentation

- Submitted a first draft for review
- Working on some minor amendments
- Steering Group meetings had been cancelled due to TCC restructuring and a change in reporting lines
- Spending time testing quantifiable objectives
- Strategic Focus / Strategy Challenges
- Driven by legal requirements, community vision and risk
- Alignment of large outcomes with growth
- Next Steps
 - To work with a new steering group
 - To seek approval of objectives to minimise the reliance on action planning.

Points Raised by Members

- As point of departure in developing an Environment Strategy, thorough benchmarking/stocktake and establishing a comprehensive database was critical
- Since human impact on the environment was one of the biggest challenges, a joint approach to the Environment Strategy was vital: a joint task force/hui/forum cross councils was necessary to enable all players to provide input in the targets to be identified and to coordinate, integrate and understand the collective response required
- A report by AECOM New Zealand Limited “Community Carbon Footprint Tauranga City 2015/16” was available:
https://www.tauranga.govt.nz/Portals/0/data/future/strategic_planning/strategic_focus/files/carbon_footprint_report15-16.pdf
- It was imperative that the Environment Strategy take into consideration the significance of Kai Moana; the mapping of the harbour health was therefore critical
- Suggested that input from Consent Teams, to enhance the understanding of the potential impact/effects of consented activities on the environment, would be beneficial.

10:55 am The meeting **adjourned**.

11:20 am The meeting **reconvened**.

8.3 Kaimai Catchment Forum Update

Refer PowerPoint Presentation Objective ID A3134963

Kaimai Mamaku Ranges Forests Forum Coordinator Wendy Rapana provided members with an update on the Kaimai Catchment Forum:

Key Points of the Presentation

- Overview of the Kaimai Mamaku Ranges: was a taonga, a treasured place, and a connector of two regions, multiple iwi, hapū, industry, conservation groups and recreation groups
- The Kaimai Mamaku Ranges Forests Forum (KMRFF) represented the collective voice for the Kaimai Mamaku Ranges, Forests and its catchments
- KMRFF brought together multiple kaitiaki, agencies, stakeholders and interest groups connected by the Kaimai Mamaku Ranges; offered a wealth of knowledge, skills and experience; brought together people who care for and value our forests, farms and water flowing into the Waihou River and Te Awanui/Tauranga Harbour
- Vision was the improvement of the Kaimai and Mamaku Ranges and Forests and its catchments to provide for this and coming generations
- Established to represent a collective voice
- Long term Operational & Strategic Goals
- KMRFF Steering Group focussed on relationships with iwi/hapū
- KMRFF Joint Agency Committee focussed on relationships with Government Agencies: Department of Conservation (DOC), Bay of Plenty Regional Council, Waikato Regional Council
- Strategic Plan Outcomes / Opportunities (No single agency or community could achieve long term improvements in the health of the Kaimai Mamaku Ranges; instead a collective and coordinated approach was needed)
- Relationship building (“We can achieve more together than apart”)
- Focus for 2017 – 2022.
- Steering Group had agreed on Charitable Trust status and engaged assistance to draft a Trust Deed - completed document to be tabled at the next Forum event on 29 March 2019 for ratification
- Establishment of education and training opportunities for Māori, and others - training to be aligned with NQF Levels 3, 4 and 5 to lead to a qualification or parts of a qualification
- Invitation extended to all members to the next meeting of the Kaimai Mamaku Ranges Forests Forum scheduled for 29 March 2019, 10: 00 am, at the new Community Hub in Katikati.

Points Raised by Members

- A map depicting the areas where the approximately 200 kaitiaki, agencies, stakeholders interest groups were actively involved in the Kaimai Mamaku Ranges would be helpful as this would indicate where the gaps were. Noted that there was a map showing where the 1% of pest control was taking place in the Kaimai Mamaku Ranges
- Raising the Kaimai Mamaku Ranges’ current status as Conservation Park to National Park would ultimately elevate the resources to be allocated to the area.

Item for Staff Follow-up

- To keep members updated on details relating to up-coming pest control workshops.

8.4 **Kopurererua Valley Redevelopment Project**

Cr Andrew von Dadelszen - Bay of Plenty Regional Council and Cr Mark Dean - Western Bay of Plenty District Council declared a conflicted interest and did not participate in the discussion.

Refer PowerPoint Presentation Objective ID A3134637

Tauranga City Council Parks Co-ordinator Dianne Paton and Team Leader Parks and Environment Warren Aitken provided an update on the Kopurererua Valley Redevelopment Project, highlighting the following:

Key Points of Presentation

- Projects for the current financial year
 - 2019 Tonkin & Taylor Preliminary Research Report
 - Retiring two large grazing areas
 - Rotary Planting Day
 - Barn Fire asbestos clean-up
 - Vegetation removal on Puketoromiro
 - Sealing of the rapid cycleway
- 2020 – 2024 Projects
- Issues
 - Motorcycles / flooding / impact of climate change effects
- Awards & Partnerships
 - 2017 NZRA Runner-up Most Outstanding Park Award
 - 2018 Winner NZRA Most Outstanding Project
- Key Partnerships contributing to the success
 - Ngai Tamarawaho Hapu
 - K Valley Rotary Centennial Trust
 - Comvita
 - Trees for Survival.

12:16 pm Cr Kelvin Clout **withdrew** from the meeting.

8.5 Kaiate Falls Update

Refer PowerPoint Presentation Objective ID A3124148

Bay of Plenty Regional Council Senior Planner Santiago Bermeo and Land Management Officer (Tauranga) Samantha Titze provided an update on land management work in the catchment area as well as the outcome of a recent survey regarding the public preferences relating to possible water quality interventions for the Kaiate Falls:

Key Points of Presentation

- Kaiate Falls was a popular site with more than 19,000 visits since April 2018 and more than 2,000 in the last week of 2018 alone
- Current state was unsuitable for swimming with a number of exceedance of thresholds, median concentration, 95th percentile concentration. E. coli was an indicator of other bacteria that might make people sick
- Kaiate Falls catchment land use included very low intensity farming with mainly lifestyle blocks. Which were very steep, lots of intermittent waterways and seeps and not all fully fenced. E. coli was mainly caused from ruminants (deer, goats, cows) and some from birds
- A range of possible solutions included:
 - No additional intervention
 - Full fencing only
 - Full fencing and planting
 - No grazing in the catchment upstream of the Falls
 - Upstream catchment retired to public use
- Study undertaken to obtain view of public – 710 respondents

- Take home points from the results
 - Public wanted action for Kaiate Falls
 - Allocation of costs (ratepayers vs. catchment landowners) did not affect preferences, particularly for non-ratepayers
 - Preferences for retirement and no grazing correlated and were more common amongst respondents who have visited the Falls
- Challenges:
 - Largest property was unfenced. Cost to fully protect and allow farming was \$220k due to steep terrain and farm layout
 - Large cost to ratepayer and community
 - Outside funding sources secured
 - Resistance due to grazing loss
 - Non-compliant with rule 7 – have tried to negotiate agreements without compliance
- Action plan
 - Extensive summer water quality survey took place during the period November to February, flow gauging was included and analysis was currently underway
 - Investigating pest animal influences
 - Working with Ngā Whenua Rāhui to stop grazing in Kawenata area
 - Proposal sent to smaller landowners to work with Care Group to fence and plant
 - Environmental Programme drafted for largest property with farm consultant
 - Working hard to get successful results during the current financial year.

9 Consideration of General Business

Nil

10 Next Meeting – 17 May 2019

The next meeting had been scheduled for 17 May 2019.

11 Closing Karakia

Cr Matemoana McDonald closed the meeting with a karakia.

The meeting concluded at 12:47 pm.

Confirmed

Chair, Tauranga Moana Advisory Group

Date

Receives Only – No Decisions

Report To: Regional Direction and Delivery Committee

Meeting Date: 10 April 2019

Report From: James Low, Team Leader Policy (Freshwater)

Freshwater Futures Update

Executive Summary

This report provides an update on policy work being undertaken to implement the National Policy Statement for Freshwater Management (NPSFM), relevant national policy direction and other Freshwater Future programme work.

Key updates since the last Committee meeting include:

- Government's Essential Freshwater and Three Waters policy programmes are likely to be released in July/August 2019 as proposed discussion documents.
- Pre-mediation meetings have been held with all appellants of Proposed Plan Change 9 – Region-wide Water Quantity. An appeals sub-committee has been formed and had its first meeting. Multi-party mediation meetings are underway.
- Rangitāiki, and Kaituna-Pongakawa-Waitahanui Freshwater Futures Community Group workshops were held on 20 and 26 March respectively. The Rangitāiki Community Group considered groundwater management issues and options. The Kaituna-Pongakawa-Waitahanui Community Groups considered surface water quality and identifying management options to reduce nutrient loads to Waihī and Maketū estuaries.
- The Plan Change 10 hearing is currently adjourned and an interim decision on Stage 1 will be made by the Environment Court in due course. No date for the stage 2 Hearing has been set.
- Baseline work is largely complete for the Tauranga and Rotorua Water Management Areas.
- The Rangitāiki River Forum has had one freshwater workshop and will hold another in May focussed specifically on freshwater management and Plan Change 12.

Recommendations

That the Regional Direction and Delivery Committee:

- 1 Receives the report, Freshwater Futures Update.**

1 Purpose

This report provides an update on work underway to improve management of freshwater resources in the Bay of Plenty region. It also provides an update on freshwater policy matters at a national level.

2 National Updates

2.1 Essential Fresh Water

Central government has a large freshwater policy review programme called *Essential Freshwater*, focussed on:

- Stopping degradation and loss of freshwater resources, waterways and ecosystems;
- Reversing past damage to freshwater resources waterways and ecosystems; and
- Addressing allocation issues.

The work is being delivered by a task force, including seconded staff from Regional Councils, with advice and direction from a Freshwater Leaders Group, Science and Technical Advisory Group, Regional Council CE's sub-group, and Kahui Wai Māori. Staff continue to provide input where the opportunity arises. Draft policies will be released for public feedback in approximately July/August 2019.

2.2 Three Waters Review

Government's Three Waters review is running in parallel with *Essential Freshwater*, with a view to changing regulations for drinking water, wastewater and, later, changes to service delivery and economic regulation.

Central government has sent two surveys to regional councils recently. The first sought wastewater consents and compliance information. The current request seeks stormwater discharge consents, compliance and policy information.

Staff attended a workshop in Rotorua on 28 March 2019 about emerging regulatory reform proposals for 3 Waters. Meeting briefing notes have not been provided at the time of writing this agenda report. A summary can be provided at the Regional Direction and Development Committee (RDD) meeting.

3 Plans and Plan Changes

Council is actively working on several freshwater plan changes to the operative Regional Natural Resources Plan. Updates are provided below.

3.1 Region-wide Water Quantity - Proposed Plan Change 9

At the February RDD meeting an appeals sub-committee, consisting of Councillors Nees, Thompson, von Dadelszen and McDonald was elected. A preliminary workshop with the sub-committee was held, with Councillor Nees being elected chairperson and Councillor Thompson as the deputy.

Staff provided the sub-committee with a brief summary of appeals and progress to date. The sub-committee indicated a desire to actively participate in the appeals process and asked that staff bring proposed changes to them for discussion.

Staff have met with all appellants.

The first multi-party pre-mediation meeting (Group 1 – Iwi matters) was held on 18 March. Matters discussed included how best to provide for partnership, Te Mana o Te Wai and giving effect to the NPSFM.

Staff agreed to support developing draft amendments to Plan Change 9 to give effect to reliefs requested. A number of principles have been agreed and will be used to assess the suitability of the proposed amendments. These will be passed by the appeals sub-committee for consideration

Staff are required to file a comprehensive memorandum with the Environment Court by 10 May 2019. At this stage that memorandum is likely to note progress towards resolving some matters, pending agreement of proposed amendments by the sub-committee prior to formal (court assisted) mediation.

As noted in the February RDD meeting, staff will keep the RDD committee informed of progress via these Freshwater Futures updates.

3.2 Lake Rotorua Nutrient Management - Proposed Plan Change 10

The Environment Court Hearing on Proposed Plan Change 10 started on 4 March 2019. The Hearing has been divided into two stages:

1. The substantive matter of allocation
2. More minor implementation issues.

The first stage of the Hearing (Allocation) ran for one week. A number of appellants had sought a different allocation framework and evidence was provided on the likely impacts of the two alternative allocations (a sector ranges allocation versus a Land Use Capability allocation) and the comparative costs and benefits.

It was expected that more time would be required for the Stage 1 hearing; however the cross examination and Court questions were very focussed on allocation. Limited questions were asked about the underpinning science with questioning instead focussed on economic and planning matters. Cross examination was also limited by the fact that the relevant issues were quickly in front of the Court and these did not need to be traversed at length.

The submission dates for legal closing arguments were Natural Capital Group as appellants 13th March 2019 and Regional Council as respondent 22nd March 2019. The Hearing is currently adjourned and an interim decision on Stage 1 will be made by the Environment Court in due course. No date for the stage 2 Hearing has been set.

3.3 Plan Change 12: Kaituna/Pongakawa/Waitahanui and Rangitāiki Water Management Areas

The purpose of this work is to deliver freshwater objectives based on freshwater values, and to set appropriate water quality and quantity limits and methods. This will ultimately be achieved by way of a change to the Regional Natural Resources Plan (RNRP Plan Change 12).

Science and information gathering is largely complete, and solution building is underway, in discussion with community groups, co-governance fora, iwi and hapū.



Figure 1: Current timeline for Plan Change 12 planning process.

Pending changes to national freshwater policy and regulations will have implications for this work. Staff will maintain a watching brief on central government’s *Essential Freshwater Programme*, and will not advance formal plan change processes until national changes are announced and can be appropriately accommodated.

The current work plan anticipates having a draft plan change prepared at the end of 2019 - though this is subject to several assumptions, including that changes to the NPSFM are relatively minor.

Rangitāiki Water Management Area

Rangitāiki groundwater management options were discussed with the Rangitāiki Community Group on 20 March. The meeting had not been held at the time of writing this agenda report. The meeting briefing note is attached (Appendix 1). Rangitāiki River Forum members were invited to attend this workshop.

This workshop will be followed by a water quality management workshop (in April/May) and then a surface water quantity management workshop (May/June).

Kaituna-Pongakawa-Waitahanui Water Management Area

RDD received agenda reports at their 19 February 2019 on two key technical reports:

- Reducing contaminant loads to Waihi and Maketū estuaries; and
- Lowland Drainage Scheme water quality and ecology.

As noted at that meeting, contaminant loads need to be greatly reduced to support moderate ecological health in the estuaries and to increase the amount of time shellfish are safe to harvest. This will require significant changes in the catchment.

The technical reports were discussed on 26 March by the Kaituna, Pongakawa and Waitahanui WMA community groups, along with initial discussions about potential policy options. The meeting had not been held at the time of writing this agenda report.

The meeting briefing note is attached (Appendix 2). Policy options being considered to “hold the line” include:

1. **Good management practice requirements** such as Farm/Orchard Environmental Plans and standards.
2. **Preventing change of land use to more intensive uses, and preventing intensification** of existing land uses (e.g., prevent increases in stocking rates, or conversion of forest to pastoral or orchard uses) if it will cause more nitrogen and phosphorus losses, unless this can be remedied or mitigated.
3. **Stronger water quality requirements for discharges**, including industrial, commercial, wastewater, land drainage and other point source discharges.

Staff will release some public communication material about the issues and potential policy options being considered, to raise awareness in the first instance, and also to assure local land owners that they will get an opportunity to comment before any plan change is notified.

Staff are now progressing modelling to estimate the water quality improvements that might be achieved if all land users applied good practice.

Engagement with iwi

Staff have held meetings with representatives of many of the iwi with rohe in Rangitāiki and Kaituna-Pongakawa-Waitahanui Water Management Areas. However, staff still need to meet for the first time with some iwi, and need to hold further discussions with each. Staff are summarising what we have heard to date, and will need to check it with the iwi we have spoken to before circulating this to Community Group members.

3.4 Rotorua (Plan Change 15) and Tauranga (Plan Change 16)

Rotorua

The baseline stocktake for PC15 has been completed to a draft stage. Preliminary meetings to consider information gaps and requirements (if any) for further modelling have occurred. Our preliminary assessment is that the main gap is our limited understanding of non-Rotorua streams, which we anticipate requiring further work to round out the otherwise good state of knowledge. A small contract has been let for consultants to investigate and report back on the key stormwater contaminant loads

Tauranga

The baseline stocktake for Tauranga Moana is near-complete. A positive working relationship with Tauranga Moana Iwi has been established and a work plan to document their values and interests and cultural flow requirements is in development. Initial discussions with Waikato University have highlighted the possibility of using their harbour model to support our freshwater policy work. Further consideration is required before any decision can be made.

4 Co-Governance Forum Updates

In addition to the plan change work noted above Council is working with Te Maru o Kaituna River Authority (TMoK) and the Rangitāiki River Forum. Both forums receive regular updates on Council’s Freshwater policy work programme. Council will continue

to seek co-governance advice/feedback as to whether and how our work aligns with the objectives of their river documents.

4.1 Te Maru o Kaituna River Authority

Te Maru o Kaituna River Authority (TMoK) is progressing development of their Kaituna River Action Plan which is expected to be completed by July 2019. The action plan will be comprised of priority projects that contribute to meeting the objectives of the river document.

4.2 Rangitāiki River Forum

The Rangitāiki River Forum held a freshwater workshop on 21 February. The Forum welcomed new representatives for Ngāti Tūwharetoa (BOP) Settlement Trust – Paora Hunia and Clifford Te Riini (Alternate), and later Whakatāne District Council – Councillor Alison Silcock (Alternate).

In the Freshwater workshop, members:

- explained what *Te Mana o te Wai* means to them.
- received staff presentations on Rangitāiki Freshwater Community Group discussions to date (focussed on freshwater values, science monitoring and modelling information).
- provided ideas about incorporating mātauranga (knowledge) in freshwater management.

Te Mana o te Wai was extremely important to members who found strong parallels with the purpose and vision of the Forum. Members urged that the resource management framework should enshrine *Te Mana o te Wai*. Members advised that incorporating Mātauranga Māori in freshwater management would help better provide for *Te Mana o te Wai*.

The next Forum freshwater workshop will be held on 21 May 2019, and the Forum will discuss:

- the upcoming project timeline for *Plan Change 12*
- matters in discussion with the Rangitāiki Freshwater Futures Community Group.

The Forum meeting is scheduled for 7 June 2019.

5 Advice

Council convenes the Regional Water Advisory Panel and Territorial Local Authority Freshwater Collaboration Group to advice on Council's Freshwater Futures Programme. March meetings were postponed. The next Regional Water Advisory Panel meeting will be held in May.

6 Implications for Māori

Freshwater management is a key interest for Māori. Part D of the NPSFM requires council to involve tangata whenua in the management of freshwater resources. Additionally, Council must recognise and provide for the relationship of Maori and their culture and traditions with their ancestral lands, water, sites, waahi tapu, and other taonga (section 6(e), Resource Management Act 1991).

Engagement and analysis for Plan Change 12, appeals on Plan Change 9, and feedback from co-governance fora confirm the high value placed on freshwater by tangata whenua, and their substantial concerns about water quality. The importance of freshwater to tangata whenua is a key consideration in our ongoing work.

7 Budget Implications

7.1 Current Budget Implications

Council's Freshwater Futures work is being delivered within the current budget for the activities in Year 1 of the Long Term Plan 2018-2028.

7.2 Future Budget Implications

Future work is provided for in Council's Long Term Plan 2018-2028.

Any additional work for Bay of Plenty Regional Council resulting from national direction will need to be considered as to future budget implications.

8 Community Outcomes

This item/project directly contributes to the following community outcomes in the Council's Long Term Plan 2018-2028: A Healthy Environment, Freshwater for Life, Safe and Resilient Communities, particularly Freshwater for Life.

Nicola Green
Senior Planner (Water Policy)

for Team Leader Policy (Freshwater)

1 April 2019



Report To: Tauranga Moana Advisory Group
Meeting date: 17 May 2019
Report From: Pim de Monchy, Coastal Catchments Manager

Tauranga Moana Programme update

1 Purpose

To provide the Tauranga Moana Advisory Group with an update on programme progress during.

It is recommended that the Advisory Group:

- 1. Receive the report “Tauranga Moana Programme update”.**

2 Background

The Tauranga Moana Programme was established in 2013 to deliver on the community’s expectations for the health of the Tauranga Harbour. The programme coordinates, prioritises and delivers on all the work related to the harbour and catchment that is undertaken by Tauranga City Council, Western Bay of Plenty District Council and the Regional Council. It allows an adaptive and collaborative management approach.

Originally called Te Awanui Tauranga Harbour Programme, the name was changed to Tauranga Moana in the 2016/17 year. This change better reflects the management area which includes the inland catchment as well as Te Awanui / Tauranga Harbour. It also aligns with the Tauranga Moana Iwi Management Plan 2016 – 2026 and the area of interest defined in that Plan.

This Tauranga Moana Advisory Group oversees the Programme. Staff provide regular programme updates and reports to the Group including:

- Annual work plans
- Annual report
- Regular dashboard reports summarising project progress

3 Matters arising from the previous meeting

Staff to verify whether mangroves were impacting on seagrass growth:

Mangrove expansion and sea grass decline are both related in a large part to sediment deposition in the harbour, but mangroves do not colonise areas of seagrass due to the different elevations which the two species occupy (seagrass tends to grow slightly below the elevation range preferred by mangroves).

Further information to be provided on the increase of seaweed observed off Tauranga coast beaches over summer:

Response from Dr Rebecca Lawton at the University of Waikato:

There are a number of different seaweed species which can become abundant over the summer months, so without having a sample of the seaweed to look at it's not possible to say what it is.

There are several causes of large volumes of seaweeds being washed into beaches. Rough weather and waves can rip attached plants off sub-tidal rocky reefs and wash them into shore. In other cases, the seaweed floating in the water may be a free floating reproductive stage (most seaweed species have complex life cycles with both attached and a free floating stages). These smaller plants are released from larger attached plants at certain times of the year (this is species specific) and are dispersed by waves and currents. Under certain conditions large volumes of these seaweeds can accumulate in patches and get washed into the shore. Unfortunately, without knowing what the seaweed species is, it is not possible to attribute a likely cause.

Bay of Plenty Regional Council Principal Advisor, Coastal Catchments Toby Barach to raise the matter of wet wipes with the Regional Wastewater Management Group:

A joint communique (draft to be prepared by the Regional Wastewater Management Group), supported by all territorial authorities in the Bay of Plenty Region, to be sent to the Minister for the Environment, highlighting the seriousness of wastewater blockages caused by wet wipes marketed as 'flushable' and/or 'biodegradable':

TCC has been lobbying at a national level for better regulation of the marketing of wet wipes.

TCC have met with and received support from all the City's sitting MP's, and have written to the Ministers for the Environment, Tourism and Commerce and Consumer Affairs regarding this. Also have written to the following organisations:

- Commerce Commission
- Retailers Association
- Water New Zealand
- Food and Grocery Council
- Packaging Forum
- Keep New Zealand Beautiful
- Sustainable Business Network
- CEOs of Progressive and Foodstuff supermarkets

TCC are involved in Water NZ's working group on creating a 'flushability standard' (which a number of other countries have).

A joint communique will be drafted by the Regional Wastewater Management Group and sent to the Ministry for the Environment.

4 Programme dashboard for May 2019

The programme dashboard for May 2019 is provided in Appendix 1.

The dashboard shows progress against key projects listed in the 2018/19 Annual Work Plan, progress and upcoming activities. Overall, the programme and projects are on track in terms of scope, budget and schedule.

Key programme updates include:

- He Korowai Mātauranga, our regional mātauranga Māori internal staff framework has been prepared. The document will assist Toi Moana working together with tangata whenua, and vice versa. The draft implementation plan is due 30 June, 2019 and will give effect to three Muka or strands: developing cultural responsiveness tools to support staff; preparing a relationship strategy that will enhance staff capability to respond to tangata whenua; and the interfacing of mātauranga with science, and development of a repository of mātauranga that is centralised and managed in collaboration with Māori.
- Continuing to progress Stage Two, creation of a Tauranga City Council Environment Strategy. Workshops have been held to collectively develop the strategy vision and outcomes.
- The new thickening and dewatering plant at Te Maunga is currently being commissioned. De-sludging of Pond one is complete with a total of 2,970 tonnes of sludge removed. Once the plant is operational, the pond will be decommissioned as a sludge pond.
- This summer has seen significantly lower volumes of sea lettuce washing up around the inner harbour beaches. There have been almost no complaints in relation to sea lettuce and no clean-ups have been required.

In comparison to the 2017/18 summer this year's volumes have been extremely low. Last summer saw very large accumulations over the December period although very little was seen after Christmas time. The few years prior to 2017/18 saw varying volumes washing up, generally over a longer summer period extending from December through to around March. Sea lettuce grows well in water temperatures between about 16-20 degrees celsius, and outside of this range growth slows. It seems likely that the year leading up to the 2018/19 summer there was a shorter period of time when water temperatures were optimal for growth, thus leading to low growth rates and less volumes of beachcast sea lettuce.

The causes of sea lettuce growth and subsequent wash up on the beaches are however the result of a complex number of factors including nutrient availability, water temperatures, tides, currents and weather patterns. A joint BOPRC and University of Waikato student research project has been conducted over the summer period looking at assessing volumes of beach cast sea lettuce and the condition it's in. The aim of this project is to provide more information about where and when beach cast sea lettuce may occur and to also to help understand implications for potential future use of sea lettuce as a resource.

Trials for a sea lettuce collection barge were postponed due to the lack of free-floating sea lettuce in the harbour. The barge will be trialled once there are large enough volumes of free floating sea lettuce to collect. A new three year contract for service has been awarded to the current contractor (DMI Contracting).

- A seagrass ecosystem health trial being undertaken in Tauranga Harbour will measure a range of seagrass health metrics at nine sites across the harbour. The trial is linked with the BOPRC funded PhD “hidden garden”, which is investigating the role of marine algae (seagrass and microphytobenthos) on nutrient cycling ecosystem services across a sediment nutrient enrichment gradient.

A PhD student is currently investigating how swan grazing on seagrass beds impacts the hydrodynamics and sediment transport in the seagrass beds, which may lead to a loss of seagrass beds where heavy swan grazing is occurring.

- Predator Free BOP continues to grow in popularity and expand in urban back yards through Tauranga and Western Bay of Plenty. Workshops were held to teach people how to get a Predator Free Group started in their suburbs. To date, 1,089 traps have been registered and 796 kill recorded through the online portal.
- The Coastal Erosion Assessment for Tauranga Harbour is now complete and is planned for public release on 29 April 2019. WBOPDC and TCC are planning public drop in sessions in May to support the community understand the information. The Coastal Inundation Assessment for Tauranga Harbour is in the final review stage and is expected to be complete by June 2019.

Appendix One

Tauranga Moana Programme Programme Dashboard May 2019

Tauranga Moana Programme Dashboard May 2019

Programme Manager		Pim de Monchy	As of meeting	May-19	Green
Project Sponsor		Sarah Omundsen	Previous RAG status	Feb-19	Green
Category	Previous RAG Status	RAG Status Current	Comment on any RAG where status is not Green.		
Overall	Green	Green			
Schedule	Green	Green			
Scope	Green	Green			
Resources	Green	Green			
Budget	Green	Green			
No. Annual Work Plan Projects 2018/19					
SHARED			Scope	Budget	Schedule
1	Katikati Hills to the Ocean – H2O Improvement Project		Green	Green	Green
2	Watercraft and General Harbour Survey and Demand Analysis		Green	Green	Green
3	Tauranga Harbour Inundation and Coastal Erosion		Green	Green	Green
4	Predator Free BOP		Green	Green	Green
5	Sea Lettuce Management		Green	Green	Green
6	Litter Clean-ups		Green	Green	Green
7	IP3 HAIL Audits		Green	Green	Green
BAY OF PLENTY REGIONAL COUNCIL			Scope	Budget	Schedule
1	Matauranga Māori for Tauranga Harbour capacity building		Green	Green	Green
2	Manaaki Taha Moana MTM 2 sub tidal survey of Tauranga Harbour		Complete	Complete	Complete
3	Manaaki Taha Moana MTM 2 Coastal Cultural Health Index		Green	Green	Green
4	State of the Environment Report		Green	Green	Red
5	Kaiate Task Force		Green	Green	Amber
6	Kaimai Mamaku Catchments Forum		Green	Green	Green
7	Seedling mangrove management		Green	Green	Amber
8	Tauranga Harbour Tsunami Inundation Assessment		Green	Green	Green
9	Audit of mangrove distribution/associated issues for tangata whenua		Green	Green	Amber
10	Vessel Acquisition (Sealegs)		Complete	Complete	Complete
11	Flood modelling Uretara Stream, Katikati		Green	Green	Amber
TAURANGA CITY COUNCIL			Scope	Budget	Schedule
1	Integrated Stormwater Project		Green	Green	Green
2	Environmental Strategy		Green	Green	Amber
3	Wastewater Management		Green	Green	Green
4	Stormwater Management		Green	Green	Green
5	Kopurererua Valley Re-Development		Green	Green	Green
WESTERN BAY OF PLENTY DISTRICT COUNCIL			Scope	Budget	Schedule
1	Ongare Wastewater Scheme		Complete	Complete	Complete
2	Tahataharoa Land Purchase and Restoration Project		Green	Green	Green
3	Cycleway		Green	Green	Green

Programme Updates

- Coast Care has awarded all its contracts for the next three years which cover programme delivery and plant supply.
- Very light sea lettuce season with no clean-ups required.
- New cycleway along the Kopurererua stream channel has been sealed. Stream realignment is planned for two sections between the Nanako Stream confluence and Wylie Street reserve.
- Timber seawalls have replaced the rock walls in Kulim Park, Forrester Drive and Tye Park.
- Uretara Stream model has been built and is currently being calibrated. Due to challenges with the calibration proofing, model delivery isn't expected until later in 2019.
- Iwi engagement has commenced for Plan Change 16 (Tauranga WMA).
- Staff successfully responded to a minor oil and kerosene spill into the Tautau stream caused by a truck crash. The Tautau stream is a pristine stream which is a major water supply source and flows into the Kopurererua.
- A funding application to the Tourism Infrastructure Fund has been lodged for Tahataharoa. Drafting a "brief of works" for hydraulic investigation for groundwater and inlet control for wetland creation.
- A Project Control Group has been established to progress the water craft and general harbour access survey and demand analysis project.
- Predator Free BOP continues to expand in urban back yards. 1059 traps have been registered through the online portal and 796 kills have been reported.
- Draft action plans have been prepared for the Kaiate and Uretara catchments and will be finalised over the coming months.
- An investigation into the water quality in the upper Wairoa catchment was undertaken over the summer months. The results are currently being analysed.
- The audit of mangrove distribution and associated issues for tangata whenua report is required as part of an update to be provided to Council in relation to mangrove management. This update has been deferred to later in the year. The report is nearing completion.
- The Coastal Erosion Assessment for Tauranga Harbour is now complete. The Coastal Inundation Assessment is in the final review stage and is expected to be complete by June 2019.
- The Kaimai Mamaku Catchments Forum Biodiversity Group is working through a process to develop a pest animal management plan for the Kaimai Mamaku with help from pest control experts.
- Assessments of mangrove seedling growth has been undertaken and seedling heights are generally below 400mm. Seedlings are not likely to exceed permitted activity rule height of 600mm before the end of winter which allows sufficient time for management options to be implemented.
- The hovercraft is currently being repaired. Trials of the vessel can take place once the repairs are complete. Given the design changes the vessel is still considered to be in a development phase.

Upcoming Activities

- Coast Care planting season has commenced with 10 working bees scheduled during May.
- Litter clean-up events are being held at Waikareao Estuary and Wairakei Reserve. A litter clean up will be held in a location yet to be decided in the Western Bay of Plenty.
- Community engagement is underway for the Memorial Park to the city centre proposed coastal pathway. Community engagement runs from March-May 2019.
- Development of a best practice guide for wastewater overflow management is planned to be complete by the end of 2019.
- Commissioning of the new thickening and dewatering plant at Te Maunga.
- IP3 Audits being undertaken at businesses in the Maleme Street industrial area.
- Draft implementation plan for He Korowai Matauranga is due 30 June 2019.
- Meeting to be held with Manaaki Te Awanui regarding the Coastal Cultural Health Index project and progress to date.
- Processing seagrass samples to investigate a range of health metrics.
- Community opening events are being planned for sections of the cycleway.
- Progress literature review relating to the water craft and general harbour access survey and demand analysis project.
- State of the Environment Report is sitting with an external design team. Anticipated to be back later in May. Reviewed by the Kotahitanga Strategic Engagement and Science teams.
- Tauranga Harbour Inundation and Coastal Erosion public drop in sessions being held to help the community understand the information.
- Investigations are continuing to identify avian bacteria sources in the Uretara.
- Additional water quality monitoring will take place in the Kaiate catchment to determine the load of E coli coming from the beginning of the Otawera stream, tributaries and from the bush.
- Planning for the 2020 Happy Harbour Fun Day.

Appendix Two

Tangata Whenua and Agency Projects Map

