Kei te pūtake o te whaitua o te Whanganui-a-Tara tōna mauri mana motuhake... hei oranga mō te katoa.

The mauri of Whaitua te Whanganui-a-Tara and the communities who live within it is nurtured, strengthened and able to flourish.

Our kawa are an immutable injunction to provide for te wai mouri – the essence of life that is water, te wai ora – the water that nourishes life.

Our kaupapa is Te Mana o te Wai - to restore the dignity and esteem of water as a life giver and to have respect and regard for water bodies as living entities. We put the wellbeing of water and waterbodies first. Te Mana o te Wai will be achieved through the integrated management of water including its physical and spiritual properties which are fundamental to providing for its wellbeing and the wellbeing of all who rely upon it for existence

Our tikanga implement Te Mana o te Wai - Ki uta ki tai; He taonga te wai; Mana whakahaere; Mana tangata; Mana kaunihera

Whakapapa of Kaiwharawhara

Eg, Statutory acknowledgement from Settlement

The Kaiwharawhara stream has had a close association with Taranaki Whānui ki Te Upoko o Te Ika from its origins in Otari to its outlet to Wellington Harbour as one of the key source streams flowing to the harbour. Kaiwharawhara Pā, which was the early stronghold of Taringa Kuri (Te Kaeaea) and formed a gateway into Wellington Town, was located on the side of the Kaiwharawhara stream at its mouth. A trail wound through the forest from Thorndon, crossed the Kaiwharawhara Stream in Otari Reserve, headed up the spur and continued on to Makara. This section of the Kaiwharawhara Stream was then known as Te Mahanga. The track linked Taranaki Whānui ki Te Upoko o Te Ika settlements at Makara and Kaiwharawhara. Settlers recorded gardens situated near the stream and Taranaki Whānui ki Te Upoko o Te Ika caught kaka in a clearing by the stream. Otari can mean "the place of snares". This stream like the others around the harbour held a stock of tuna (eel) that fed as they grew to maturity prior to migrating to spawn. Piharau, inanga and kokopu came into the stream to spawn along with other freshwater species.

Desired outcomes

Insert after 27 Nov hui

Hei tauira:

Mahinga kai outcome: Biodiversity is strong in that the full suite of mahinga kai species can be found in our catchments. Mahinga kai is abundant. Diverse mahinga kai can be sourced efficiently in all seasons and harvest methods should not allow for exploitation.

Wāhi Tapu outcome: Wāhi tapu, tikanga and korero tuku iho are respected and protected by all.

Kaitiakitanga: Our people feel a sense of pride and fulfilment about the capability of our iwi as kaitiaki of water. Supporting the role of kaitiaki in sustaining mauri.

Current conditions		Ecolog	ical toxici	ty		Mahinga	Kai	Sediment		Wāhi Tapu & Kōrero tuku iho			Nutrients f	or growth			Intergenerational	Ecology	Man		Human health		
		Copper	Zinc	Nitrate	Ammonia	Taonga species	Access	Kai safe to harvest	Clarity	Deposited	Protection	Access	Mātauranga	Phosphorus	Periphyton	Kaitiakitanga	Dissolved oxygen	knowledge exchange	Macro- invertebrates	Fish decisi makir	n- E. c	oli Prin	,
	Current state	С	В	В	В	С	D	D	Α	Α	D	D	D	D	С	С	Α	С	С	Α	E	N/	/A
	Current state description	levels wheelfects of these ar	nich could n the mos re particu	the stream d be having st sensitive ilarly from s contamina	g toxic e species. short –term	to uphold ti supported a mahinga ka iwi over the In particula	nd collect f and under kanga Mā a diverse ai that sus e centuries r, the estu a had a ka	food and take activities fori. Once and abundant tained many s. uary where hinga/pā. But	minimal i instream However uncertair monitorir mainsten is giving insight al	; it's n if the ng from the n of the river a good bout the as of smaller s in the	Wāhi tapu a and through Kōrero for pl shared, inclu	knowledge a ace names i	is known and	When the comi factors are righ growth reaches short-duration blooms	t, Periphyton s periodic	The broader activity of being capable kaitiaki collectively as an iwi is important to the emotional and psychological well-being of the people, as it is central to our identity as mana whenua. Our birthright and inherited responsibility as kaitiaki to care for all that is living and existing within our rohe.	No stress caused by low dissolved oxygen on any aquatic organisms that are present at matched reference (near pristine) sites. This is based on spot samples rather than continuous. However, we have a high confidence in this assessmen t due to the steep and turbulent nature of these streams.	The passing on of knowledge is critical to the self-esteem of our people, to the succession of future kaitiakitanga of the River and ultimately to the leadership of the iwi as a whole. This intimacy of our relationships to the natural world means that we have inherited a cultural memory of how natural features like waterways should look, taste, smell, sound, feel and behave.	Macroinvertebra communities ha mix of tolerant a sensitive specie indicate modera organic pollution nutrient enrichm There is high int of fish communi However, it's uncertain if the monitoring from mainstem of the is giving a good insight about the conditions of sm tributaries in the catchment.	re a decision making about the environ or t and human and activitie ies. be well-informe and having river it's critic that decision aller decision making	risk of infection from swimm is great than 79 and is greater than 59 risk mothan 30 of the total sects.	ing eer %, % re	

Our whāinga	Immediate actions (2020-2030)	Generational change (2030-2050)	Long torm outcomes (2050-2100)						
Our whainga	Stop further degradation	Reverse past damage to bring our waterways and ecosystems to a healthy	Long-term outcomes (2050-2100) Achieve the desired environmental outcomes.						
	Take measurable actions that improve water within 5 years	state	Notice the desired characteristics.						
	Lock in any expected improvements from actions in train	Achieve the national bottom lines							
	Begin actions that contribute towards longer term water quality improvements	Achieve the improvements associated with the 'water sensitive' scenario							
Risks and barriers	Insights from the expert panel assessments	Insights from the expert panel assessments No attributes are below national bottom lines in this catchment but E. coli	Insights from the expert panel assessments						
to our whāinga	The current approach to management may not maintain the current attributes state for zinc or copper. There may also be deteriorations within an attribute state for	and phosphorus are both in E and D state respectively. The expert panel	Further environmental improvements based on uptake of currently known 'mitigation' practices may be limited. Changes beyond the outcomes achieved in the 'water sensitive' scenario may require furthed developments in mitigation technologies and/or land use changes. The expert panel work						
	clarity, macroinvertebrates and <i>E. coli</i> .	also assessed that attribute state improvement was likely for zinc as a							
	These are expected from additional contamination, earthworks and runoff associated	result of further replacement of existing zinc roofs.							
	with urban development, compounded by climate change leading to greater rainfall		showed the modelled mitigations will not achieve the A grade for <i>E. coli</i> .						
	intensity mobilising contaminants and increasing streambank erosion and habitat	Human wastewater contamination is likely the main source of faecal							
	disturbance in streams. Wastewater pipe maintenance may not be keeping up with	contamination in this EPAU, occurring during both dry and wet	Insights from small group discussions						
	degradation rates currently.	conditions. Removing dry weather leaks and network faults are likely to	Opportunity to reach community aspirations for removing contaminants from the						
	Stanning further degradation will likely pagesitate new development adenting water	reduce the input of <i>E. coli</i> across all flows to lift the <i>E. coli</i> attribute state	environment by spreading costs over time with the opportunity for new technology.						
	Stopping further degradation will likely necessitate new development adopting water sensitive urban design practices to avoid these additional impacts by intercepting	to 'C'.							
	contaminants and slowing water runoff from these areas.	Wastewater contamination is also a contributor to phosphorus in the							
	Existing areas will likely also need to retrofit raintanks and replace zinc roofs in to help	catchment. The removal of leaks and overflows will be beneficial for DRP,							
	offset these new development areas and the rainfall and flow impacts of climate	but not to an extent expected to change an attribute state. Further							
	change.	developments in mitigation technologies and/or land use changes may be							
		required to lift this out of 'D' state.							
	Insights from small group discussions	to interest from a well and a discounting							
	Wastewater and stormwater	Insights from small group discussions Biggest risk is not doing anything in short term and leaving it to future							
	 Risks – Climate change and population growth, poor uptake of new technology, lack of maintenance causing failures on new systems leading to 	generations							
	lack of confidence	Scherations							
	Barriers - Lack of institutional alignment and not enough funding, poor								
	understanding of benefits of new systems and technologies								
	 Opportunities – Growing community awareness of issues in the whaitua, 								
	three waters reform, introducing a regulatory pathway to the improvement								
	communities want to see in water quality, restoring the mana of our								
	waterways. Large developments and projects that have scale (both in terms								
	of space and investment) to retrofit with new systems and infrastructure (drop down a row?)								
Our journey –	Short term (0-10 years) improvements – high level description of methods (incl reg	Mana	Wastewater						
strategies to	and non-reg) drawn from detail in issues summaries	Mana whakahaere, mana tāngata, mana kaunihera	All remaining overflows are fixed so overflows only occur in emergency situations						
achieve our		How is the mana of the people connected to the mana of the							
whāinga		water?	Stormwater						
	Mana	Connection to place/stream	Infrastructure – All remaining constructed and unconstructed wastewater overflows						
	Mana whakaharae, mana tangata, mana kaunihera	Awareness of issues	into the stormwater network are fixed and they only occur in emergencies.						
	How is the mana of the people connected to the mana of the water?		Significant gains have been made to retrofit treatment into existing stormwater						
	 Connection to place/stream though story actions such as storytelling, signs (naming awa) and the use of Te Reo 	Mahinga Kai	systems.						
	Awareness of issues	Additional measures to make enhancements?							
	The unique identity and role of mana whenua as kaitiaki of water in their	Wastewater							
	rohe is recognised and respected.	All grade 4 and 5 pipes are repaired or replaced							
		All historic cross connections are identified and fixed							
	Stormwater	Overflows are massively reduced (by the approximately 83%							
	Setting target states in PNRP	tested by the expert panel)							
	Set limits for all attributes associated with stormwater discharges in the PNRP.								
	Continue to implement the two stage global consenting process for network	Take opportunities for retrofitting stormwater quality systems,							
	discharges to improve the quality of stormwater discharges from the	particularly in brownfields to reduce contaminant loads from							
	stormwater network. Apply limits to Stage 2 global consents.	stormwater discharges.							
		Continue reducing wastewater overflows into stormwater.							

- The Stormwater Strategies (developed by Wellington Water and approved by GWRC) required by Stage 1 global discharge consents are key to prioritising actions at catchment scales.
- Policies to ensure contaminant load from new greenfield development is minimised, and is maintained or reduced from brownfields development.
- Councils develop a long term vision for the three waters infrastructure that aligns investment for renewals and repairs with community and Whaitua objectives, following Te Mana o Te Wai.
- More information is shared with the community about how their actions can impact on the aquatic ecosystems, especially around actions to reduce cross connections and the discharge of contaminants such as paint and other household contaminants.
- The outcomes of the global stormwater stage 1 consent monitoring is shared with the community, so there is a better understanding of the impacts stormwater discharges impact on freshwater and coastal ecosystems.
- Water sensitive design (WSD) becomes standard practice in all new developments, and there is ongoing investment into retrofitting our existing stormwater systems to reduce contaminant loads through WSD principles.
- Raise awareness so people know that rain falling on their property, roads and public spaces transports contaminants to streams, rivers and coastal environments.
- All agencies work together to support people to take ownership of issues in local streams.
- Territorial authorities begin or continue to fund roving crews to ensure existing cross connections and other private drainage faults are identified and corrected.
- TA building compliance officers undertake consistent and proactive compliance on new builds to ensure no new cross connections occur.
- Take opportunities for retrofitting stormwater quality systems, particularly in brownfields to reduce contaminant loads from stormwater discharges
- Regional and District councils, and Wellington Water, work together to align district plans, regional plans, infrastructure plans and Long Term Plans so that stormwater is managed to meet environmental outcomes.
- Apply good planning practice as a tool for stormwater management. Ensure that spatial, structure, and master planning consider stormwater outcomes.
- Regional and district councils, and Wellington Water, work together to overcome barriers to implementation of WSD.

Mahinga Kai

• Mana whenua monitoring to better understand baseline info and reconnect

Wastewater

- Incorporating target states and limits into the PNRP for attributes impacted by wastewater
- Putting a review clause in upcoming wastewater network global consents to then bring them into line with target states and limits
- More information sharing with the community on the impacts of wastewater on water quality
- Real time water quality information signs at popular swimming sites
- More partnership between community groups and organisations to understand and address wastewater issues
- Water warriors help raise awareness and connect people with their local waterways

Retrofit existing design

- · Roof replacements
- Rainwater capture
- Monitor the on-going performance of remediated structures to provide for fish passage

Other

- Compliance/enforcement/restorative justice
- Monitoring of actions (not just water quality) social connection and participation/actions, investments etc.
- Monitoring demonstrating environmental progress
- Review and adaptation?

Draft target attribute states	and TA buil Wel fror Wal Gre plar Any Other Con Moi	 Compliance/enforcement/restorative justice Monitoring of actions (not just water quality) – social connection and participation/actions, investments etc. 																				
			Ecological toxicity		1	Mahinga K	ai	Se	diment	Wāhi Ta	pu & Kōrero	tuku iho	Nutrients f	or growth			Intergenerational	Ecology	y ,	Mana	Human	ı health
		Copper	Zinc N	Nitrate Ammonia	Taonga species	Access	Kai safe to harvest	Clarity	Deposited	Protection	Access	Mātauranga	Phosphorus	Periphyton	Kaitiakitanga	Dissolved oxygen	knowledge exchange	Macro- invertebrates	Fish	whenua decision- making	E. coli	Primary contact
	Current state	С	В	В В	С	D	D	Α	А	D	D	D	D	С	С	A	С	С	Α		Е	

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Immediate

actions Generational

change Long-term outcomes

^{*}Succinct summary collection of ideas from TKT, Small groups and project team. This won't capture all of your ideas for a change. What other ideas would act on both immediate and systemic actions for changes?