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, Statutor The Kaiwhar stronghold of headed up t near the stro migrating to | y acknowledge rawhara stream of Taringa Kuri he spur and co eam and Taran o spawn. Pihara | ment fror n has had (Te Kaeae ntinued c aki Whān u, inanga | m Settleme a close ass ea) and form on to Maka oui ki Te Up and kokop | nt ociation with ned a gatewa ra. This sectio oko o Te Ika c ou came into t | Taranaki Wh v into Welling n of the Kaiw aught kaka in ne stream to | ānui ki Te Upo gton Town, w rharawhara St n a clearing by spawn along | oko o Te Ika as located o ream was t v the stream with other | from its origins on the side of the hen known as Te . Otari can mear freshwater speci | in Otari to it Kaiwharaw Mahanga. ⁻ I "the place es. | s outlet to hara strea The track l of snares" | o Welling am at its linked Tar . This stro | gton Ha mouth ranaki eam li | arbour as one n. A trail wour i Whānui ki Te ke the others | of the key s ad through t Upoko o Te around the | ource str he forest Ika settl harbour | reams flowing to the har from Thorndon, crossed ements at Makara and k held a stock of tuna (eel | bour. Kaiwharawh d the Kaiwharawha Kaiwharawhara. Se) that fed as they g | ara Pā, which ara Stream in ttlers recorde grew to matur | was the early Otari Reserve, ed gardens situated rity prior to |
|--|--|---|--|--|---|--|---|---|---|---|---|--|--|---|---|---|---|--|---|--|
| Desired outcomes | See <u>first dra</u> | ft of environme | ental outo | <u>comes</u> , whi | ch are being a | dded to by T | KT this week | for 7 Decen | nber workshop. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Current | | Ecolo | gical toxic | ity | Taonga | Mahinga Kai | Kai safe to | | Sediment | Wāhi T | apu & Kōre | ro tuku iho | 0 | Nutrients fo | or growth | | Kaitiakitanga | Dissolved | oxygen | Community |
| (*Current state | Current | | Nitrate | Ammonia | species | Access | harvest | Clarity | Deposited | Protection | Access | Mataura | anga | Phosphorus | Periphyton | | - | | | connection |
| descriptions are | state | C B | В | В | C | D | D | A | Α | D | D | D | | D | С | | С | A | | |
| consistency | trend | | | | | | | | | | | | | negative | | | | | | |
| following | BAU future state | D C | В | В | | | | $A\downarrow$ | А | | | | | D | С | | | А | | |
| feedback from Monday 30 November Whaitua Committee meeting) | Current state description | Contaminants in levels which cou effects on the m These are partic exposure to high | n the stream uld be havin oost sensitiv cularly from n contamina | a are at g toxic e species. short –term ant levels. | Places where t collect food and activities to upl supported a div kai that sustain In particular, th had a kainga/p | 'laces where tangata whenua manage and ollect food and resources and undertake ictivities to uphold tikanga Māori. Once upported a diverse and abundant mahinga ai that sustained many iwi over the centuries. In particular, the estuary where Ngāti Tama had a kainga/pā. But several sites throughout | | | Sediment is having minimal impact on instream biota. However, it's uncertain if the monitoring from the mainstem of the river is giving a good insight about the conditions of smaller tributaries in the catchment Other measurements of suspended sediment indicate a negative trend. | | Wani tapu are protected both phys and through knowledge associated Körero for place names is known a shared, including intergenerational | | ysically When the combination of ed. factors are right, Periphyto growth reaches periodic short-duration nuisance blooms | | ination of , Periphyton periodic uisance | 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 assessment due to the steep and turbulent nature of these streams. | | Needs development. Ideas around community engagement, stream care groups, visibility |
| | | Interes | | l lucauda da a | | Natural | character, strea | m form and | Maar | Ecology | | | Mana ukanya dasisian maki | | la sisis a makin | | Human health | | | |
| | | interg | enerationa | li knowledge | exchange | | function | | invertebrates | Fish | | | Mana whenua decisio | | lecision-makir | ig | E. coli | Primary contact | | |
| | state | C | | | | | | | С | | A | | | | | E | N/A | | | |
| | trend | | | | | | | | | | | | | | | | Strong negative | | | |
| | BAU future state | | | | | | | | C↓ | | А | | | | | | E | | | |
| | Current state description | 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. | | | | | evelopment bund room for the iversity, channeli tion | Macroinvertebrate tolerant and sensiti organic pollution of There is high integ it's uncertain if the the river is giving a of smaller tributarie | communities h ve species tha nutrient enrich rity of fish commonitoring fror good insight a es in the catchn | nunities have a mix of For becies that indicate moderate hu ient enrichment. an f fish communities. However, toring from the mainstem of d insight about the conditions the the catchment. | | For decision-making about the environm human use and activities to be well-infor and have integrity, it's critical that decisi making is informed by māramatanga of mana whenua and reflects full awarenes How involved are mana whenua in d-m? | | nent and prmed ion- i the ess. ? | The average risk of infections from swimming is greater than 7%, and is greater than 5% risk more than 30% of the time | | | | | |

| Our whāinga | Immediate actions (2020-2030) | Generational change (2030-2050) | Long-term outcomes (2050 |
|--------------------|---|--|---|
| | Stop further degradation | Reverse past damage to bring our waterways and ecosystems to a | Achieve the desired environ |
| | Take measurable actions that improve water within 5 years | healthier state | |
| | 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 types of improvements associated with the 'water sensitive' | |
| | | scenario | |
| Risks and harriers | Insights from the expert panel assessments | Insights from the expert panel assessments | Insights from the expert par |
| to our whāinga | The current approach to management may not maintain the current attributes state | No attributes are below national bottom lines in this catchment | Further environmental impr |
| to our whatiga | for zinc or conner. There may also be deteriorations within an attribute state for | However <i>E</i> coli and phosphorus are in E and D state respectively | practices may be limited |
| | clarity macroinvertebrates and <i>E</i> coli | indicating they may be in a highly degraded state. The expert nanel also | Changes beyond the outcon |
| | These are expected from additional contamination earthworks and runoff associated | assessed that attribute state improvement was likely for zinc as a result of | developments in mitigation |
| | with urban development, compounded by climate change leading to greater rainfall | further replacement of existing zinc roofs | showed the modelled mitig |
| | intensity mobilising contaminants and increasing streambank erosion and habitat | | showed the modelled mage |
| | disturbance in streams. Wastewater nine maintenance may not be keeping up with | Human wastewater contamination is likely the main source of faecal | Insights from small group di |
| | degradation rates currently | contamination in this EPALL occurring during both dry and wet | Opportunity to reach comm |
| | | conditions. Removing dry weather leaks and network faults are likely to | environment by spreading c |
| | Stopping further degradation will likely necessitate new development adopting water | reduce the input of <i>E</i> coli across all flows to lift the <i>E</i> coli attribute state | citit official by spreading e |
| | sensitive urban design practices to avoid these additional impacts by intercenting | to 'C' | |
| | contaminants and slowing water runoff from these areas | | |
| | Existing areas will likely also need to retrofit raintanks and replace zinc roofs in to help | Wastewater contamination is also a contributor to phosphorus in the | |
| | offset these new development areas and the rainfall and flow impacts of climate | catchment. The removal of leaks and overflows will be beneficial for DRP. | |
| | change. | but not to an extent expected to change an attribute state. Further | |
| | | developments in mitigation technologies and/or land use changes may be | |
| | Insights from small group discussions | required to lift this out of 'D' state. | |
| | Wastewater and stormwater | | |
| | Risks – Climate change and population growth, poor uptake of new | Insights from small group discussions | |
| | technology, lack of maintenance causing failures on new systems leading to | Biggest risk is not doing anything in short term and leaving it to future | |
| | lack of confidence | generations | |
| | Institutional roles and responsibilities might contribute or be risks/barriers to | | |
| | best practice management | | |
| | Barriers - Lack of institutional alignment and not enough funding noor | | |
| | understanding of benefits of new systems and technologies | | |
| Our journey – | Short term (Ω -10 years) improvements – high level description of methods (incl reg | Mana | Wastewater |
| stratogios | and non-reg) drawn from detail in issues summaries | Mana whakahaere mana tāngata mana kaunihera | All remaining overf |
| strategies, | Opportunities – Growing community awareness of issues in the whaitual three waters | How is the mana of the people connected to the mana of the | |
| policies and | reform, introducing a regulatory pathway to the improvement communities want to | water? | Stormwater |
| actions to | see in water quality, restoring the mana of our waterways. Large developments and | Connection to place/stream | Infrastructure – Al |
| achieve our | projects that have scale (both in terms of space and investment) to retrofit with new | Awareness of issues | into the stormwate |
| whāinga | systems and infrastructure. Improving institutional roles and responsibilities | • Awareness of issues | Significant gains h |
| | | Mahinga Kai | systems |
| | Mana | Additional measures to make enhancements? | Systems |
| | Mana whakaharae, mana tangata, mana kaunihera | Additional measures to make eminancements: | |
| | • How is the mana of the people connected to the mana of the water? | Wastewater | |
| | Connection to place/stream though story actions such as storytelling, signs | All grade 4 and 5 nines are renaired or replaced | |
| | (naming awa) and the use of Te Reo | All bistoric cross connections are identified and fixed | |
| | Awareness of issues | Overflows are massively reduced (by the approximately 82%) | |
| | The unique identity and role of mana whenua as kaitiaki of water in their | Overnows are massively reduced (by the approximately 65% tested by the expert papel) | |
| | rohe is recognised and respected | Stormwator | |
| | | Take opportunities for retrofitting stormwater quality systems | |
| | Stormwater | - rake opportunities for retrontuning storniwater quality systems, | |
| | Setting target states in PNRP | stormwater discharges | |
| | Set limits for all attributes associated with stormwater discharges in the DNDD | Stoffiwater uschalges. | |
| | Continue to implement the two stage global concenting process for network | Continue reducing wastewater overnows into stormwater. | |
| | discharges to improve the quality of stormwater discharges from the | | |
| | stormwater network Annly limits to Stage 2 global concents | Petrofit evicting design | |
| | storni water network. Apply innits to stage 2 global consents. | | |
| 1 | | | 1 |

D-2100) nmental outcomes.

nel assessments

provements based on uptake of currently known 'mitigation'

mes achieved in the 'water sensitive' scenario may require further n technologies and/or land use changes. The expert panel work gations will not achieve the A grade for *E. coli.*

liscussions

nunity aspirations for removing contaminants from the costs over time with the opportunity for new technology.

flows are fixed so overflows only occur in emergency situations

Il remaining constructed and unconstructed wastewater overflows er network are fixed and they only occur in emergencies. have been made to retrofit treatment into existing 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

- 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 | Fund and d TA be build Well from Well from Warr Grea plans Any p Other Com Mon parti Land Summary table | ing (cont other priv uilding of is to stop ington W the wast rant of fit ter alignr s. priorities pliance/e itoring of cipation/ fill conta | cinued o vate dra fficers co new cro dater and te strear cness? [fiment be for infra for infra factions, mination ng the cu | r new) fo inage fau omplete oss conne d TA's co m or usin urther fe tween re astructur nent/ress i (not jus investm n | or roving cr ults consistent ections nsider opport g treated we asibility to egional plan re improven torative just t water qua ents etc. | ews to ider and proact ortunities t wastewater be though ns, district p ments in th stice ality) – soci | ntify cros tive comp to reduce t throug plans and he short t al conne | ss connection pliance on r e wastewat h] d infrastruc term? ection and | ons new :er :ture :h the thre | ee 'steps' | '. These | e could be c | ategorica | ıl (eg, A, B, | C) and/or na | rratives | | | |
|------------------|--|--|--|---|--|---|---|--|---|----------------|----------------|---------------------------------|------------|---------------|--------------|--------------|---------------|-----------|--|
| attribute states | | 1 | | | | | | | | | | | | | 1 | | 1 | 1 | |
| | | | | cal toxicit | у , . | N Taonga | Mahinga K | Kai Kai safe to | Se | ediment | - | Wāhi Tapu | i & Kôrero | tuku iho | Nutrient | s for growth | Kaitiakitanga | Dissolved | |
| | | Copper | Zinc | Nitrate | Ammonia | species | Access | harvest | Clarity | Deposi | ted F | rotection | Access | Matauranga | Phosphorus | Periphyton | Ŭ | oxygen | |
| | state | С | В | В | В | С | D | D | А | А | | D | D | D | D | С | С | А | |
| | Immediate actions | С | В | В | В | | | | А | А | | | | | D | С | | А | |
| | Generational change | С | А | В | В | | | | А | А | | | | | С | С | | А | |
| | Long-term outcomes | А | А | А | А | | | | А | А | | | | | А | А | | А | |
| | | | | | | | | | | | | | | | | | | | |
| | | Intergen know exch | nerational vledge nange | Natu Strea | ral character am form and function | , Mac invertel | Ecology pro- brates | y Fish | Mana wh decision-n | enua naking | Hum E. coli | an health Primary contact | | | | | | | |
| | Current state | | С | | | С | ; | А | | | Е | | | | | | | | |
| | Immediate | | | | | C | | Δ | | | F | | | | | | | | |
| | actions Generational | | | | | | | | | | | | - | | | | | | |
| | change | | | | | C | | A | | | С | | _ | | | | | | |
| | Long-term outcomes | | | | | A | | А | | | А | | | | | | | | |
| | | | | | | | | | | | | | _ | | | | | | |

*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?

| Community connection | | | | | |
|----------------------|--|--|--|--|--|
| С | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |