

# Te Tūāpapa o ngā Wai o Te Arawa

A monitoring framework for Te Arawa





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## Te Arawa Cultural Values Framework

*With the addition of*

He Mahere Taiao mō ngā Wai o Te Arawa  
Te Arawa Lakes Environmental Plan



**TE ARAWA LAKES TRUST**

“Goal 4: The lakes catchment is managed through Te Arawa values”

Lakes Strategy, 2013

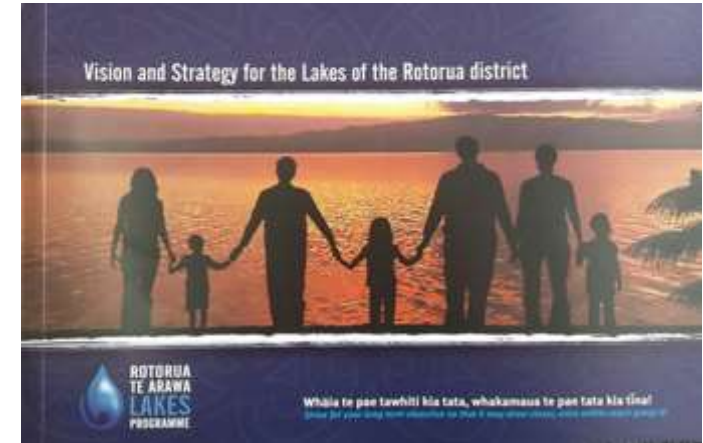
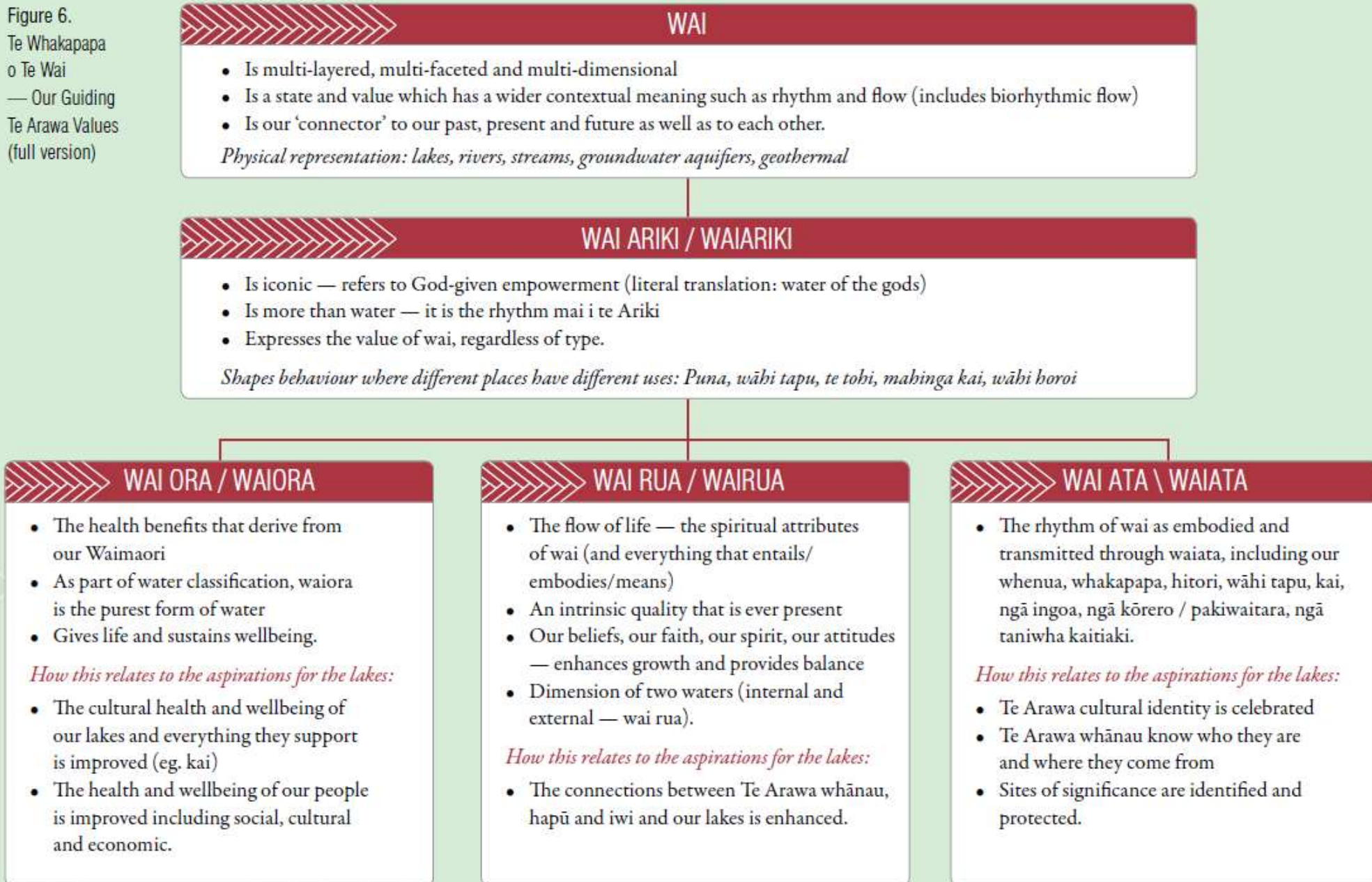




Figure 6.  
Te Whakapapa  
o Te Wai  
— Our Guiding  
Te Arawa Values  
(full version)



## OUTCOMES – TE MANA O TE WAI IS UPHELD AND ENHANCED

Water is healthy – Healthy lakes (WAIORA)  
 The authority (whakapapa, matauranga, values) of Te Arawa is readily recognised (WAIKUA)  
 Te Arawa is well equipped for the journey ahead (WAIATA)

## INDICATORS – LOOK, FEEL, SOUND, TASTE, SMELL AND WAIKUA

The Principles in Te Tūāpapa are brought to life in all aspects of the management of Te Arawa Lakes

WHAT WILL WE MEASURE?	WHO IS IT FOR?	
	TE ARAWA HAPŪ, IWI & WHANAU	PARTNERS BOPRC, RLC & COMMUNITY
WAIORA The health and wellbeing of the water and the health and wellbeing of our people are connected	<ul style="list-style-type: none"> <li>• More plentiful kai at more locations</li> <li>• Hapū are delivering activity that contributes to their health and wellbeing and the health and wellbeing of the Lakes</li> </ul>	<ul style="list-style-type: none"> <li>• Water quality – TLI is achieved</li> <li>• Algal Blooms (recreation indicator)</li> <li>• SPI monitoring</li> </ul>
WAIKUA The connection between Te Arawa whānau, hapū and iwi and our Lakes is enhanced	<ul style="list-style-type: none"> <li>• Iwi and hapū are involved in decision making</li> <li>• The principles in Te Tūāpapa guide iwi/hapū, our Partners and the community</li> <li>• Te Arawa matauranga and measures inform programme development and delivery</li> </ul>	
WAIATA Te Arawa cultural identity is celebrated	<ul style="list-style-type: none"> <li>• Whānau are undertaking social and cultural activities in, on and around the Lakes</li> <li>• The presence of Te Arawa is felt, seen and heard around our Lakes</li> </ul>	

### PERFORMANCE MEASURES – TRACKING OUR ACTIVITY TOWARDS THE OUTCOME

Te Au o te Wai – connecting our values to tangible actions

<p><b>HOW MUCH?</b></p> <ul style="list-style-type: none"> <li># Hapū members involved</li> <li># Dollars allocated for hapū activity</li> <li># reduction in structures impacting cultural values</li> <li># of monitoring sites for taonga ika</li> <li># of submissions and Iwi Management Plans</li> <li># of people swimming</li> </ul>	<p><b>HOW WELL?</b></p> <ul style="list-style-type: none"> <li>% increase over time</li> <li>% of budget spent on Activity</li> <li>% structures impacting cultural values</li> <li># of sites where there is an increase in taonga species</li> <li># of Te Arawa employed in Taiao</li> <li># increase in swimmable locations</li> </ul>
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#### IS ANYBODY BETTER OFF?

Iwi/hapū/whanau engaged in Taiao  
 Whānau share their connection to their Lakes and waterways with others  
 Changes to Plans and consents reflect Te Arawa input  
 More kai on the table





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# NGA KAUPAPA

## Wai Ora | Waiora: Lake Health and Wellbeing

Land Use and  
Water

Ecosystems and  
Habitats

Biosecurity and  
Pest  
Management

## Wai Rua | Wairua: Our People, Knowledge and Practices

Cultural  
knowledge and  
practices

Building capacity  
and succession  
planning

Adapting to a  
changing  
environment

## Wai Ata | Waiata: Our Special Places

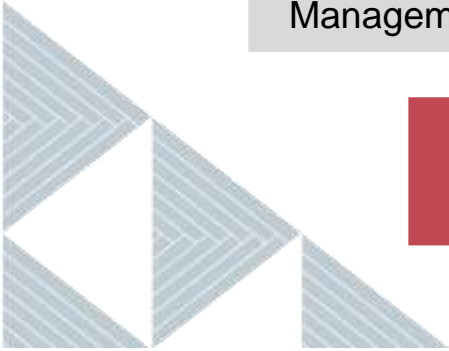
Cultural Identity

Sites, areas and  
landscapes of  
cultural significance

Lake structures and  
activities

## He Korowai: Governance and Partnerships

- Recognition of Treaty Settlement Outcomes
- Working in Partnership with the Lakes Trust





# Wai Ora | Waiora: Lake Health and Wellbeing

## Te Arawa Catfish Killas

What difference are we making?







# Wai Ata | Waiata: Our special places

## Ōkātina – WaiOra project

What difference are we making?



**Table 1** Mean CPUE ( $n \pm SD$ ) and biomass ( $g \pm SD$ ) for kōura captured in two tau kōura (each composed of 10 whakaweku) deployed in Lake Ōkātina, August 2018 to May 2019.


Date	Mean CPUE ( $n \pm SD$ )		Mean BPUE ( $g \pm SD$ )	
	South	North	South	North
27 August 2018	4.4 (2.5)	3.6 (2.3)	51.9 (42.9)	22.7 (20.8)
23 November 2018	8.9 (2.6)	24.6 (12.3)	65.0 (26.3)	480.3 (345.4)
13 February 2019	10.5 (8.9)	19.0 (9.0)	171.7 (135.6)	165.1 (83.1)
23 May 2019	29.5 (8.4)	11.9 (5.9)	654.4 (240.6)	130.3 (105.7)
	133 (11.5)	14.5 (10.9)	235.8 (283.1)	193.3 (239.4)



## IS ANYBODY BETTER OFF?

	Wai Ora   Waiora:	Wai Rua   Wairua:	Wai Ata   Waiata:
Catfish Killas	Iwi/hapū/whanau engaged in Taiao	Whānau share their connection to their Lakes and waterways with others	
Bylaws	More kai on the table	Changes to Plans and consents reflect Te Arawa input	Whānau share their connection to their Lakes and waterways with others
Waiora - Ōkataina	More kai on the table	Iwi/hapū/whanau engaged in Taiao	





“Goal 4: The lakes  
catchment is managed  
through Te Arawa values”

Lakes Strategy, 2013