

ENVIRONMENTAL HEALTH

Te Wai Tai me te Wai Māori - Water Health Survey - background reading

Ka ora te wai tai Healthy waters of the sea

Ka ora te wai Māori Healthy fresh waters

So will be all living things Ka ora ngā rauropi

This survey was developed from the Cultural Health Index (Ministry of the Environment, Publication reference number: ME 711, 2006). It involves making a series of analyses based on mātauranga Māori to indicate the health of our watery environments.

Photocopy the survey for your class to complete. Within their groups get the students to swap their questionnaires so that the questionnaire can be analysed by a second party.

For more information on the Cultural Health Index see http://www.mfe.govt.nz/publications/cultural-health-index-streams-and-waterwaysfeb06



Location: Date:	2) Site Characteristics	2) Life within and around
1) Ko wai koe? Tō ingoa/Name:	2) Site Characteristics What is the shore like in the area you are surveying?	3) Life within and around Within 500m of your survey site, are then any of the following?
I am: (please tick) ☐ Primary school level ☐ Secondary school level ☐ Community member ☐ Other	 □ Sand or mud (circle) – sandy beach, mudflat, estuary (near a river) □ Rocky shore (circle) – boulders, stones, bedrock □ Other 	□ Large rivers □ Streams □ Drains □ Farm land □ Industrial areas □ Houses □ Drains □ Cities □ Towns □ Forestry Can you see any animals within 500m of your survey site? □ Shelled animals, eg snails, cockles □ Crabs □ Sea Birds □ Barnacles □ Fish □ Other
Do you have any links to this area? I live here Whakapapa No link I visit often Other How many times have you visited the area? This is the first time 1-5 5-10 Heaps! From your first look at this area, would you eat any of the kaimoana?	If muddy, what is the colour like? Normal Black Muddy Other What about when you dig whole with your foot, does the colour change? Yes No What does it smell like? Normal Stinky Describe	
☐ Yes Why? ☐ No Why?	What does the water look like? ☐ Clear as crystal ☐ Slightly murky ☐ Very murky	the survey area?



What kind of plants are within 500m of your sampling area?	When you have completed your survey, hand it to someone else to look at and ask them to answer these questions:
☐ Sea grass☐ Seaweed☐ Salt marsh plants	a) Are you able to rate the health of this environment?
☐ Sand dune plants☐ Bushes☐ Trees	b) What does this survey tell you?
No plants (developed area)4) Is there anything else that you find	
interesting about this area? (Eg any rubbish, heaps of cockle shells, lots of algae, dead animals, it looks cleaner than where I am from.)	c) How often do you think such a survey should be done?
	d) What other information or measurements would be helpful to assess the health of
	the area?
	e) What is the value of looking closely at the area?