

WORKSHEET for handling modelling outputs in freshwater objectives work

Attributes: E. coli, phytoplankton, TN, TP, ammonia (toxicity), cyanobacteria (planktonic), macrophytes

FMU type	Lakes
Lake names	Lake Wairarapa, Lake Onoke

1. What is the current state?

Attribute	Value to which this attribute and analysis applies	What is it like now?	
		☺☹☹	NOF band
Lake Wairarapa			
E. coli	Ruamāhanga recreation		
Phytoplankton	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Total nitrogen	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Total phosphorus	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Ammonia toxicity	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Cyanobacteria (planktonic)	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Macrophytes	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		

Lake Onoke

E. coli	Ruamāhanga recreation		
Phytoplankton	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Total nitrogen	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Total phosphorus	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Ammonia toxicity	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Cyanobacteria (planktonic)	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		
Macrophytes	Te Mana o Ruamāhanga - mauri, habitat, biodiversity and natural character		

2. What must happen as a minimum?

Maintain or improve?	To what state?

3. What does the future state look like under the scenarios?

What is the likely change under this scenario from scenario baseline to 2080?							
BAU	Silver	Gold	Silver + 1m additional depth	Silver + Onoke outlet closed	Silver + Onoke outlet closed + all flows of Ruamāhanga into Lake	Silver + all flows of Ruamāhanga into Lake Wairarapa	Silver + non-flood flows of Ruamāhanga into Lake Wairarapa

4. What is contributing to this result? (i.e. what is the story here?)

What are the drivers or pressures behind this?	How might climate change influence this attribute?
