

Table 1a

Management Unit	Subunit	<u>Purposes for Management</u>	<u>Critical Values</u>	QMCI [minimum score]	Dissolved oxygen [minimum saturation] (%)	Temperature [max] (°C) <u>to apply from October to April inclusive</u>	Temperature [max] (°C) <u>to apply during May to September inclusive</u>	Emergent Macrophytes [Max. cover of Bed](%)	Total Macrophytes [Max. cover of bed](%)	Chlorophyll a [max. biomass](mg/m²)	Filamentous algae >20mm [max. cover of bed](%)	<u>Benthic Cyanobacteria [max cove of bed] (%)</u>	Fine Sediment <2mm diameter [max. cover of bed](%) All Values	Suitability for Contact Recreation [SFRG*] Value 8	<u>pH</u>	<u>Nitrate & Other toxicants (Protection level)</u>	<u>DIN</u>	<u>DRP</u>	<u>Clarity black disk (m)</u>
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Natural State				Rivers are maintained in a natural state															
Alpine – Upland*		<u>1,2,3,4,6,7</u>	<u>High biodiversity Salmonid Fishery</u>	5-6 6	90	20 19	11	No Set Value	No Set Value	50	10	<u>20</u>	10	Good	<u>Maintain between 6 and 8.5 [no greater than 0.5 change]</u>	<u>99%</u>	<u>0.08</u>	<u>0.005</u>	<u>1.6</u>
Alpine – Lower*		<u>1,2,3,4,6,7,8</u>	<u>Salmonid Fishery Amenity</u>							120	20	<u>20</u>		Good to Fair		<u>99%</u>	<u>0.18</u>	<u>0.007</u>	<u>1.6</u>
Hill-fed Upland*		<u>1,2,3,4,6,7</u>	<u>High Biodiversity Salmonid Fishery</u>							50	10	<u>20</u>	15	Good		<u>99%</u>	<u>0.21</u>	<u>0.006</u>	<u>4</u>
Hill-fed Lower*		<u>1,2,3,4,6,7,8</u>	<u>Salmonid Fishery Amenity Contact recreation</u>							200 120	30	<u>20</u>		Good to Fair		<u>95%</u>	<u>0.47</u>	<u>0.006</u>	<u>4</u>
	Urban	<u>1,2,3,5,6,7,8</u>	<u>Amenity</u>			20	<u>20</u>			200 120	30	<u>20</u>	20	No Value Set		<u>95%</u>	<u>0.47</u>	<u>0.006</u>	<u>4</u>
Lake – fed*		<u>1,2,3,4,6,7</u>	<u>Salmonid Fishery High Biodiversity</u>			20	<u>20</u>			200 120	30	<u>20</u>	10	Good		<u>99%</u>	<u>0.21</u>	<u>0.003</u>	<u>3</u>
Banks Peninsula*		<u>1,2,3,4,6,7,8</u>	<u>High Biodiversity</u>			20	<u>20</u>			120	20	<u>20</u>	20	No Value Set		<u>99%</u>	<u>0.09</u>	<u>0.025</u>	<u>2</u>
Spring-fed Upland*		<u>1,2,3,4,6,7</u>	<u>High Biodiversity Salmonid Spawning</u>			20 19	11	20	30	50	10	<u>20</u>	10	Good		<u>99%</u>	<u>0.10</u>	<u>0.007</u>	<u>3</u>
Spring-fed lower basins*		<u>1,2,3,4,6,7</u>	<u>High to moderate Biodiversity Salmonid</u>	5		20	11	30	30	200 120	30	<u>20</u>		Fair		<u>95%</u>	<u>0.47</u>	<u>0.010</u>	<u>3</u>

			Fishery																
Spring-fed – plains*		<u>1,2,3,4,6,7,8</u>	Moderate Biodiversity Salmonid Fishery	4.5 <u>5</u>	70 <u>80</u>	20	<u>11</u>	30	50	200 <u>120</u>	30	<u>20</u>	20	No Value Set		<u>95%</u>	<u>1.5</u>	<u>0.016</u>	<u>3</u>
	Urban	<u>1,2,3,5,6,7,8</u>	Moderate Biodiversity Amenity	3.5 <u>4</u>		20	<u>11</u>	30	60 <u>50</u>	120	30	<u>20</u>	30 <u>20</u>	No Value Set		<u>95%</u>	<u>1.5</u>	<u>0.016</u>	<u>2</u>

- Freshwater Objectives
- 1 Ensure diverse and abundant aquatic ecosystems of indigenous flora and fauna
 - 2 Protect habitat of salmonids (trout or salmon)
 - 3 Maintain amenity values
 - 4 Ensure water quality is safe for contact recreation
 - 5 Ensure water is suitable for secondary contact recreation
 - 6 Safe guard Ngai Tahu cultural values including; mauri, mahinga kai, wahi tapu and wahi taonga
 - 7 Ensure water is suitable for stock drinking water supply
 - 8 Support the functioning and health of estuaries and coastal lagoons