Water Quality Guidelines

Contact Recreation

Indicator	Unit	Water quality categories			
		Very good	Good	Poor	Very Poor
E. coli	n/100 mL	≤70	≤ 126 ¹	>126	>410
(median)					

Aquatic Ecosystems²

Indicator	Unit	Guideline	
рН	unit	6.5-9.0	
Dissolved oxygen ³	% saturation	>80	
Dissolved reactive phosphorous (DRP)	g/m³-P	<0.03	
Dissolved inorganic nitrogen (DIN)	g/m ³ -N	<0.1	
Ammonia⁴	g/m³-N		
Temperature	O ⁰	<25	
Turbidity ⁵	NTU	<5	

Stock Water and Irrigation

Indicator	Unit	Guideline
Faecal coliforms (median)	n/100 mL	<600
Nitrate	g/m³-N	<0.5

Stream Macroinvertebrates

Indicator	Habitat quality categories				
	Very Good	Good	Poor	Very Poor	
MCI	>120	≥100	<100	<80	

¹ Ministry for the Environment and Ministry of Health (1998). Bacteriological water quality guidelines for marine and fresh water, Wellington.

 ² Unless otherwise specified, guidelines are sourced from the Revised Proposed Regional Water and Soil Plan for Northland.
³ Australian and New Zealand Environment and Conservation Council (1992). Australian

 ³ Australian and New Zealand Environment and Conservation Council (1992). Australian water quality guidelines for fresh and marine waters.
⁴ Total ammonia is more toxic at warmer temperatures and higher pH. The guideline value

⁴ Total ammonia is more toxic at warmer temperatures and higher pH. The guideline value was calculated for each site with respect to the 95th percentile value as determined by both temperature and pH at each specific site.

⁵ There are no published guidelines for turbidity, but it can be taken that turbidity should be less than 5 NTU to support plant life.