



**PO Box 37263
Stokes Valley
LOWER HUTT 6340**

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New Zealand Freshwater.

Other Catalogues are available for: Freshwater, seawater, terrestrial fauna,

Acknowledgements: New Zealand Landcare.
Department of Conservation.

NZ Water

Water in New Zealand has an international reputation for being pure and clean. That reputation is not only well-deserved, it is tersely protected.

An Example of a Waters Technical & Comparative Qualities

Spring waters has been tested extensively since the 1980's and can shown itself to be of a high mineral quality, consistently stable and an extremely reliable source of drinking water. Requiring only minimal treatment it is an excellent source of drinking water.

	mg/l
TDS	150
Hardness	49
pH	6.5*
Chlorides	17.7
Calcium	9.15
Magnesium	6.38
Sodium	17.2
Potassium	0.94
Silica	48.4
Bicarbonate	50
Sulfates	2.2
Natural C02	38

*Note: pH post treatment is likely to be neutral





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Another Aquifer Fresh Water's Technical & Comparative Qualities

Test	Typical Range	ABWI Model Code	Comment
pH	5.5 - 7.5	3.5 - 8.5	Aesthetic parameter and the limits provided are for guidance only.
Conductivity	NA	< 1500us/cm	Important for ion balance check and other parameter estimation. Used to calculate TDS.
Turbidity	NA	< 0.5 NTU	Aesthetic parameter and the limits provided are for guidance only.
TDS	10-500mg/L	NA	Minimum of 250ppm for mineral water
Alkalinity	NA	NA	Important for interpretation and other parameter estimation
Calcium	NA	NA	Major ion used to calculate hardness.
Magnesium	NA	NA	Major ion used to calculate hardness.
Hardness	0.1 - 2 mg/L	NA	
Sodium	NA	NA	Major ion, indicative of salt water intrusion, can cause taste problems
Potassium	NA	NA	Major ion
Nitrate	NA	< 10 mg/L	Important nutrient indicative of fertiliser application and other anthropogenic inputs, health concern (can cause methaemoglobinaemia in bottle fed infants)
Chloride	NA	< 250 mg/L	Major ion, indicative of salt-water intrusion, can cause taste and corrosion problems.
Sulphate	NA	< 250 mg/L	Major ion can cause taste problems.
Arsenic	NA	< 0.05 mg/L	High levels of Arsenic have been found in some bore waters, usually from geothermal sources.
Iron	0.1 - 2 mg/L	< 0.3 mg/L	
Manganese	<0.05 mg/L	< 0.05 mg/L	
Copper	NA	< 1 mg/L	
Zinc	NA	< 5 mg/L	
EColi	Not Usually Detected	<1 in 100mL of sample	

