





FORM 5

SUBMISSION ON A PUBLICLY NOTIFIED PLAN CHANGE/ VARIATION

CLAUSE 6 OF FIRST SCHEDULE RESOURCE MANAGEMENT ACT 1991

PO Box 52 FAIRLIE 79	
Full name of submitter: Address for service:	ALISTATIR MALCOLM SHEARER 2A GREY ROAD TIMARU 7910
Telephone: Fax/email: Contact person:	(03) 6884289 021 880 265 a-Shearer Dxtra.co.nz At Shearer (name and designation, if applicable)
This is a submission on: Proposed Plan Chang Mackenzie District Plan	ge 15 (Twizel) and/or Variation 1 to Plan Change 13,
The specific provisions of (give details) Twized Water Sheet 51,	of the proposal that my submission relates to are: En Supply Ristcetion Area (Twized 52)
Section 8 Rural / Res	1 pg 8-10 Hocker Lane 8: dential Zone.
My submission is: (include whether you supp amended and the reasons	ort or oppose the specific provisions or wish to have them for your views)
Attached.	

NO.706 0002

12/11/2010 12:22

Twizel Water Supply Protection Zone

The Environment Canterbury Natural Resources Regional Plan, Chapter 4 - Water Quality, Schedule WQL2, Community Drinking Water Supply Protection Zones, page 4-443, states:

"The dimensions of a protection zone around a well used as a source of community drinking water supply are to be determined using site specific information, including the depth of the well, pumping rates, the type of aquifer, the type of contaminant and the potential risk to water quality".

A site specific assessment has not been undertaken to determine the dimensions of the Twizel water supply protection zone. Instead a provisional water protection zone has been used for the plan change. The following site specific information indicates a much smaller protection zone is required than the provisional zone dimensions shown in the plan change.

The Twizel Hydrogeology and Soils Investigation report prepared for Mackenzie District Council by URS in March 2001 gives the results of of stepped drawdown pumping tests on the town water supply wells. The resulting estimated specific capacities suggest high yielding wells. The wells are approximately 15 metres deep and drawdown is only 2 to 3 metres of more than 10 metres available.

The proposed protection is a zone of rising groundwater, with a water table at about 2 metres below ground level. Likewise the Fraser Stream above the wells is a gaining reach due to the rising ground water levels. It is considered that there is no risk of contamination of the 15 metre deep water supply wells from septic tank outlets above the shallow groundwater in the proposed protection zone.

Environment Canterbury water quality monitoring results for the Fraser Stream since October 1993 show E.coli levels ranging from 8 to 580 MPN/100mL with an average of 102 MPN/100mL. Mackenzie District Council results of Twizel water quality monitoring show no E.coli in the well water tests and some minor contamination occurring at the reservoir. There is no evidence of contamination of the Twizel water supply from either the surface water or shallow ground water upstream of the wells.

I ask that the provisional water protection zone be removed from the Plan Change and a site specific assessment be undertaken to determine the dimensions of the Twizel Water Supply Protection Zone.

I seek the following decision from the Mackenzie District Council:	
(give precise details) For Hocken Lane Runal/Residential Zone	
I want Rule 5.d og 13-15	
subdiviscon rule tobbe deleted	
and any other consequental changes	
required to give effect to deleting they subdived	
I wish to be heard in support of my submission	
Es I wish to be heard in support of my submission	
I do not wish to be heard in support of my submission	
(tick one box)	
If others make a similar submission I would not (delete one) be prepared to	
consider presenting a joint case with them at any hearing.	
allethean	
Signature of submitter or person authorised to sign on behalf of submitter	
(A signature is not required if you make your submission by electronic means.)	
12/11/10	
Date	

If you have any queries about this form or the proposed plan change or variation, please contact Nathan Hole, Planning Manager, Mackenzie District Council on (03) 685 9019.