Feedback Form

Proposed Plan Change 5C (Manuherikia Catchment: Integrated Water Management) Consultation stage two on options for the plan change

Thank you for taking the time to provide feedback on the different water quantity management options for the Manuherikia Catchment. Your feedback will help us develop the preferred management approach for the plan change.

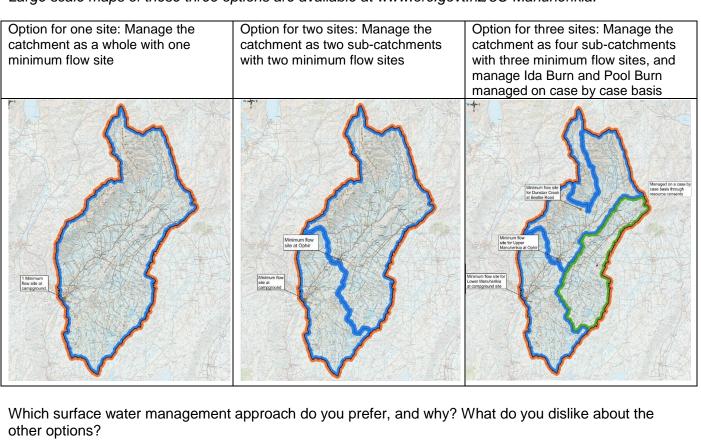
1. Options for surface water - management approach

Option 1 site

Surface water in the catchment can be managed in several different ways, from a simple management approach which applies one minimum flow to the entire catchment, to a more complex management approach which applies minimum flows to different sub catchments based on their characteristics.

Large scale maps of these three options are available at www.orc.govt.nz/5C-Manuherikia.

Option 2 sites



Option 3 sites

Other (please describe)

2. Options summer p	rimary alloca	ition minimur	n flows				
The minimum flow restricts when water can be taken from the catchment under low flow conditions. It provides for the maintenance of aquatic ecosystems and natural character of the water body during times when there is insufficient water present to fully support both in-stream and out-of-stream values and uses.							
Minimum Flow Monitoring Site	Option A	Option B	Option C	Option D	Status Quo	Naturalised Low Flow	
Manuherikia River at Alexandra Campground	1,250 l/s	1,500 l/s	1,750 l/s	2,500 l/s	N.A.	3,900 l/s	
Manuherikia River at Ophir	1,500 l/s	1,750 l/s	2,000 l/s	2,500 l/s	820 l/s	3,200 l/s	
Dunstan Creek at Beattie Road	400 l/s	500 l/s	600 l/s	600 l/s	N.A.	934 l/s	
Which summer minimum options?	flow option do	you prefer and	why? What do y	you dislike abo	out the other		
Option A	Optio	n B	Option C	Optio	n D		
Other (please describe)							
			•••••				

3. Options for winter primary allocation minimum flows

Minimum Flow Monitoring Site	Option A	Option B	Status Quo	Naturalised Mean Flow
Manuherikia River at Alexandra Campground.	4,000 l/s	6,000 l/s	N.A.	20,954 l/s
Manuherikia River at Ophir	3,000 l/s	5,000 l/s	820 l/s	16,458 l/s
Dunstan Creek at Beattie Road	600 l/s	1,200 l/s	N.A.	3,005 l/s

Which options	wintei s?	r minimui	m flow o	ption o	do you pre	eter, ar	nd why	/? What o	do you di	slike abo	out the c	other	
		Option A			Option B			Other (ple	ease spec	ify)			

4. Options for groundwater – management approach

There are four different aquifers in the Manuherikia Catchment, all with different characteristics. Different options are identified based on the characteristics of the aquifers.

Large scale maps of these aquifers are available at www.orc.govt.nz/5C-Manuherikia.

Minimum Flow Monitoring Site	Option A - manage as surface water	Option B – 50% of Mean Annual Recharge	Option C – Current allocation of Ground Water	Status Quo - 50% Mean Annual Recharge
Manuherikia Basin	Partially manage as surface water min flow and Primary Allocation Limit	N/A - this overestimates the availability of water in aquifer	0.08 Mm³/y	20Mm3/y
Ida Valley Basin	Partially manage as surface water min flow and Primary Allocation Limit	N/A - this overestimates the availability of water in aquifer	0 Mm³/y	9Mm3/y
Manuherikia River Alluvium Ribbon Aquifer	Manage as surface water min flow and Primary Allocation Limit	N/A - Most water is within 100m of the Manuherikia River and must be treated as surface water	NA - most water is within 100m of the Manuherikia River and must be treated as surface water	Managed as surface water
Manuherikia Claybound	N/A – Aquifer is not connected directly to Manuherikia surface water	0.16Mm³/y	0 .413 Mm³/y	0.16Mm3/y

Which groundwater management option do you prefer, and why?

Option A	Option	n B	Option C	Other	(please describe)

5. Tell us about anything you think we have missed.

Please note: Supplementary flow will be discussed at the next consultation stage Do you have any other suggestions? Have we missed anything important to you?

6. What is the scale of farming operations that you want to see in the area in the future?
(e.g. small, large, family/intergenerational, private, corporate, multinational)
7. What main economic activities and sources of income do you wish to see in the
catchment? (e.g. farming types, tourism, and hospitality)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual,
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?) 9. How many people and what mix of people should the catchment aspire to? (e.g. young
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?) 9. How many people and what mix of people should the catchment aspire to? (e.g. young families, working people, elderly, migrant workers)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?) 9. How many people and what mix of people should the catchment aspire to? (e.g. young families, working people, elderly, migrant workers)
8. What kinds of employment do you wish to see? (e.g. permanent, part time, casual, seasonal?) 9. How many people and what mix of people should the catchment aspire to? (e.g. young families, working people, elderly, migrant workers)

What features of the community availability of volunteers, community	ity are important? (e.g. a diverse community, resilience, vevents and meetings)
school, health services, shops, hote	do you want to see in the community? (e.g. a viable small I, café?)
So that we can keep you informed please write your details below. (d throughout the proposed plan change process, optional)
Name:	
Organisation:	
Email:	
Address:	
So that we can understand the co if you feel comfortable to do so.	mmunity better, please provide the following details,
Age:	Gender:
Employment:	
How long have you lived here?	
Please send your completed form to	ORC via email to Manuherikia5c@orc.govt.nz or post to:

Please send your completed form to ORC via email to Manuherikia5c@orc.govt.nz or post to: Otago Regional Council, Private Bag 1954, Dunedin 9054, Attention: Plan Change 5C.

If you run out of room, feel free to add pages. Feedback closes Friday 7 April 2017.

