

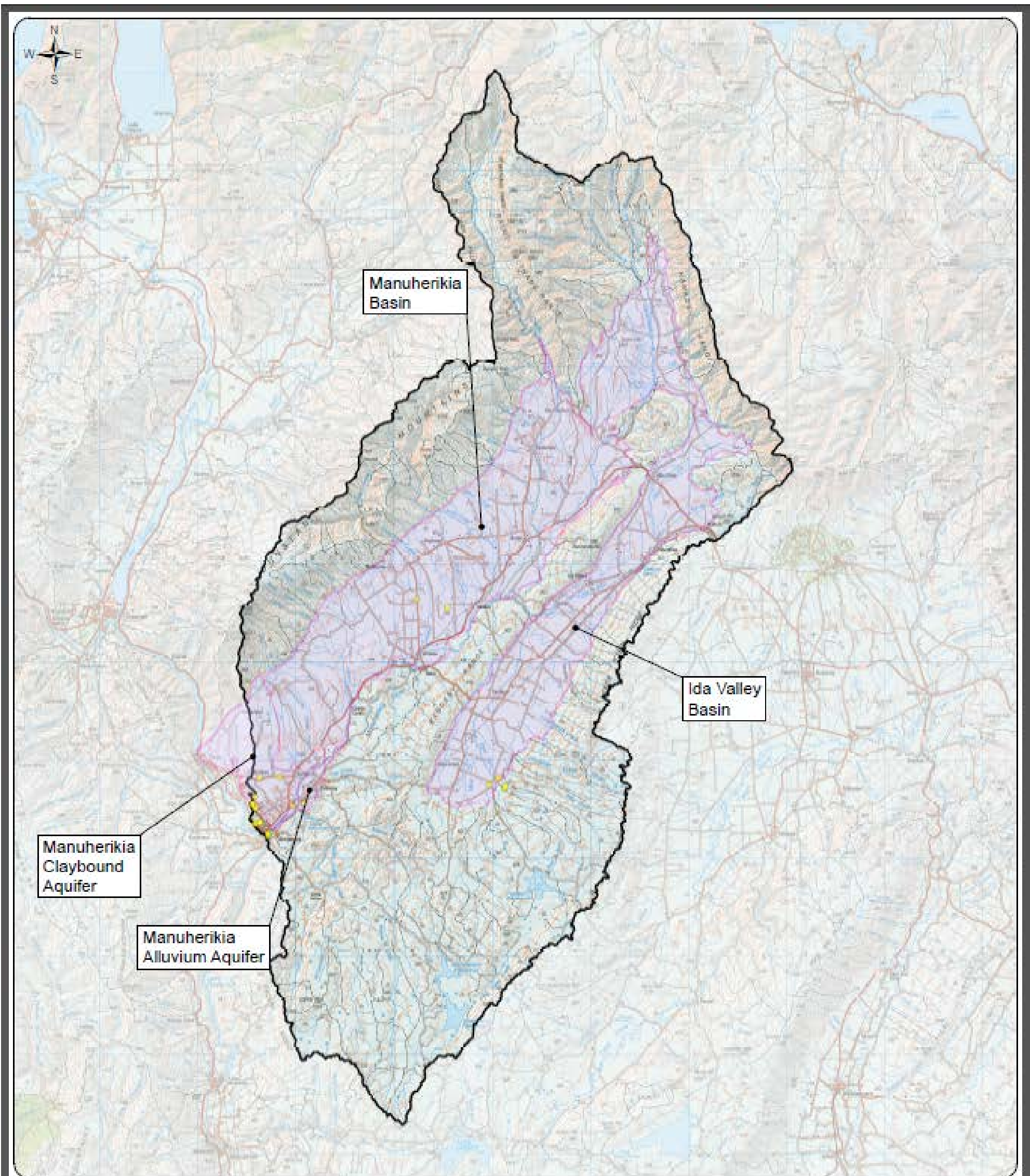
We've identified three options for the management of groundwater in the Manuherikia Catchment. We'd like to know which you prefer

## Groundwater management options


Minimum Flow Monitoring Site	Option A manage as surface water	Option B 50% of mean annual recharge (MAR)	Option C current allocation of groundwater	Status Quo - 50% MAR
Manuherikia Basin	Partially manage as surface water min flow and primary allocation limit	NOT APPLICABLE this overestimates the availability of water in aquifer	0.08 Mm <sup>3</sup> /y	20Mm <sup>3</sup> /y
Ida Valley Basin	Partially manage as surface water min flow and primary allocation limit	NOT APPLICABLE this overestimates the availability of water in aquifer	0 Mm <sup>3</sup> /y	9Mm <sup>3</sup> /y
Manuherikia River Alluvium Ribbon Aquifer	Manage as surface water min flow and primary allocation limit	NOT APPLICABLE Most water is within 100m of the Manuherikia River and must be treated as surface water	NOT APPLICABLE most water is within 100m of the Manuherikia River and must be treated as surface water	Managed as surface water
Manuherikia Claybound Aquifer	NOT APPLICABLE – Aquifer is not connected directly to Manuherikia surface water	0.16Mm <sup>3</sup> /y	0.413 Mm <sup>3</sup> /y	0.16Mm <sup>3</sup> /y

## Pros and cons

Option A	Option B	Option C
<p><b>Manuherikia Basin Aquifer AND Ida Valley Basin Aquifer</b></p> <ul style="list-style-type: none"> <li>Groundwater takes within 100 metres of a surface water body: <ul style="list-style-type: none"> <li>No further groundwater can be allocated – as surface water is over-allocated</li> <li>Takes will be subject to surface water minimum flows (there is the ability to request an exemption)</li> </ul> </li> <li>Groundwater takes located 100 metres or more from a surface water body will be considered on a case by case basis through the resource consent process.</li> <li>Ensures contribution to surface water flows, for benefit of surface water users (less restriction) and the environment</li> </ul> <p><b>Manuherikia Alluvium aquifer</b></p> <ul style="list-style-type: none"> <li>Under the water plan this aquifer is considered surface water and must be managed as surface water</li> </ul> <p><b>Manuherikia Claybound Aquifer - NA</b></p>	<p><b>Manuherikia Basin Aquifer – NA</b></p> <p><b>Ida Valley Basin Aquifer – NA</b></p> <p><b>Manuherikia Alluvium Aquifer – NA</b></p> <p><b>Manuherikia Claybound Aquifer</b></p> <ul style="list-style-type: none"> <li>Will protect aquifer health and ensure surety for the future</li> <li>This aquifer will be over-allocated</li> <li>No further groundwater can be allocated</li> </ul>	<p><b>Manuherikia Basin Aquifer AND Ida Valley Basin Aquifer</b></p> <ul style="list-style-type: none"> <li>Allocation will reflect current use; protects all present groundwater takes</li> <li>No further groundwater can be allocated</li> <li>Reflects reality as irrigation water not readily available in this aquifer, generally only useful for permitted take use</li> </ul> <p><b>Manuherikia Alluvium aquifer – NA</b></p> <p><b>Manuherikia Claybound Aquifer</b></p> <ul style="list-style-type: none"> <li>Allocation will reflect current use; protects all present groundwater takes</li> <li>No further groundwater can be allocated</li> <li>Will reduce outflows to the Dunstan Flats Aquifer and Manuherikia River which could affect water takers</li> </ul>



## Current Groundwater Takes in the Manuherikia Catchment



0 3 6 12 18 24  
Kilometers

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**Key**

- Groundwater Take
- Manuherikia Catchment Boundary

**Key Map**

