

Surface Water – Arrow River catchment

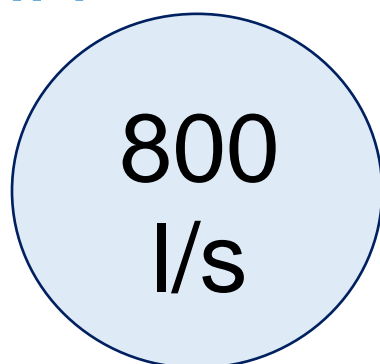
1. Minimum flow

Primary minimum flow (Option 1, 2 or 3), then a corresponding supplementary option for the selected minimum flow (options A or B corresponding to the selected primary minimum flow).

Primary Minimum Flow

Supplementary Minimum Flow and Allocation

Option 1



+

Sub option 1A

Supplementary minimum flow

1050 l/s

Allocation block

250 l/s

or

Sub option 1B

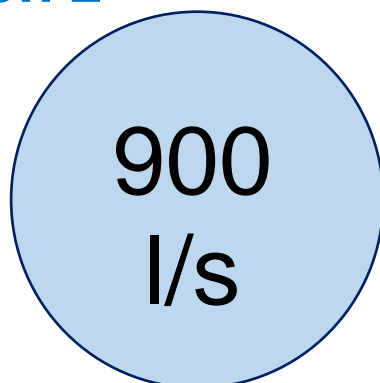
Supplementary minimum flow:

1200 l/s

Allocation block

500 l/s

Option 2



+

Sub option 2A

Supplementary minimum flow

1150 l/s

Allocation block

250 l/s

or

Sub option 2B

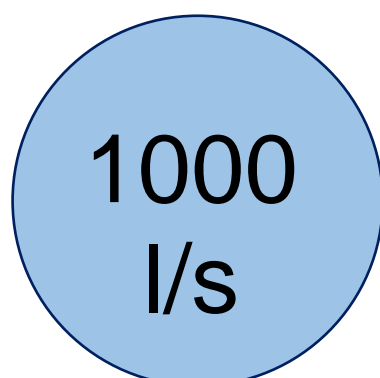
Supplementary minimum flow:

1200 l/s

Allocation block

500 l/s

Option 3



+

Sub option 3A

Supplementary minimum flow

1250 l/s

Allocation block

250 l/s

or

Sub option 3B

Supplementary minimum flow:

1200 l/s

Allocation block

500 l/s

Methodology for supplementary minimum flow and allocation:

1A, 2A and 3A: This method is different from the default approach in the Water Plan and has been developed in response to the specific characteristics of the Arrow catchment.

Supplementary minimum flow = primary minimum flow + allocation block size of 250 l/s

1B, 2B and 3B: It applies Policy 6.4.9 from the Water Plan and assumes full primary allocation and actual takes of 700 l/s.

Supplementary minimum flow = assessed actual take + allocation block size of 500 l/s

Surface Water – Arrow River catchment

2. Primary Allocation Limit

Option 1

700
l/s

This primary allocation limit would be listed in Schedule 2A of the Water Plan.

Or

Option 2

Status
Quo

Existing Policy 6.4.2 - 50% of the 7-day Mean Annual Low Flow.

*Currently, this results in an allocation limit of **720 l/s**.*

Groundwater – Wakatipu Basin

3. Aquifers to be treated as Surface Water

Option 1

- Listed in Schedule 2C of the Water Plan and mapped.
- All takes treated as surface water within the associated catchment.

Note: Until minimum flow and allocation is set for the Shotover and the Kawarau Rivers, the status quo will apply.

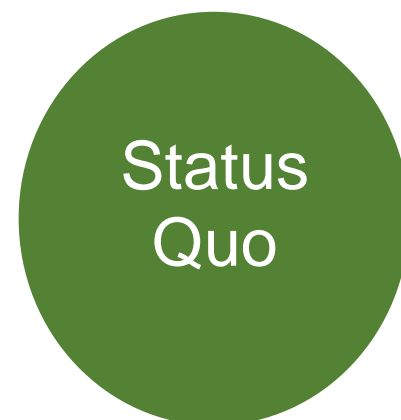
Option 2

- Status Quo.
- Not specifically listed in the Water Plan as a mapped Schedule 2C aquifer.
- Surface water, if within 100 m of connected surface water, or
- Groundwater and surface water if >100 m from connected surface water and at least 5 l/s stream depletion.

Arrow-Bush Ribbon Aquifer



Or



Shotover Alluvial Ribbon Aquifer



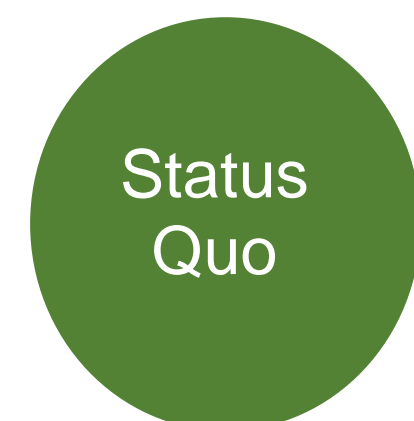
Or



Kawarau Alluvial Ribbon Aquifer



Or



Groundwater – Wakatipu Basin

4. Allocation Limits for the Wakatipu Basin

Option 1

- Schedule 4A aquifer.
- Sets the Maximum Allocation Limit in the Water Plan.

Option 2

- Status Quo:
- Maximum allocation limit is calculated as 50% of mean annual recharge.

**Morven
Aquifer**

0.185
Mm³/yr

Or

Status
quo

**Speargrass -
Hawthorn
Aquifer**

0.23
Mm³/yr

Or

Status
quo

**Upper Mill
Creek
Aquifer**

0.79
Mm³/yr

Or

Status
quo

**Mid-Mill
Creek
Aquifer**

0.51
Mm³/yr

Or

Status
quo

**Windemeer /
Ladies Mile
Aquifer**

0.24
Mm³/yr

Or

Status
quo

**Frankton
Flats Aquifer**

0.21
Mm³/yr

Or

Status
quo

**Fitzpatrick
Aquifer**

0.105
Mm³/yr

Or

Status
quo
