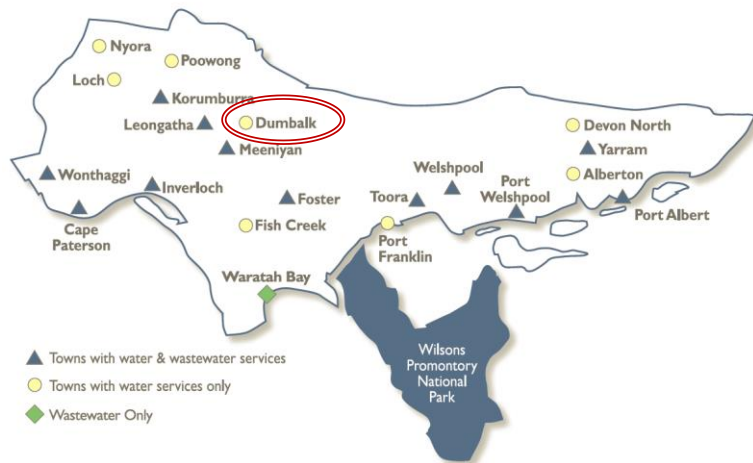


## Dumbalk Water Supply System



Dumbalk is supplied from the Tarwin River East Branch.

After diversion from the river, water is stored in a small water storage and water tower. This small water storage helps South Gippsland Water to maintain a good quality water supply.

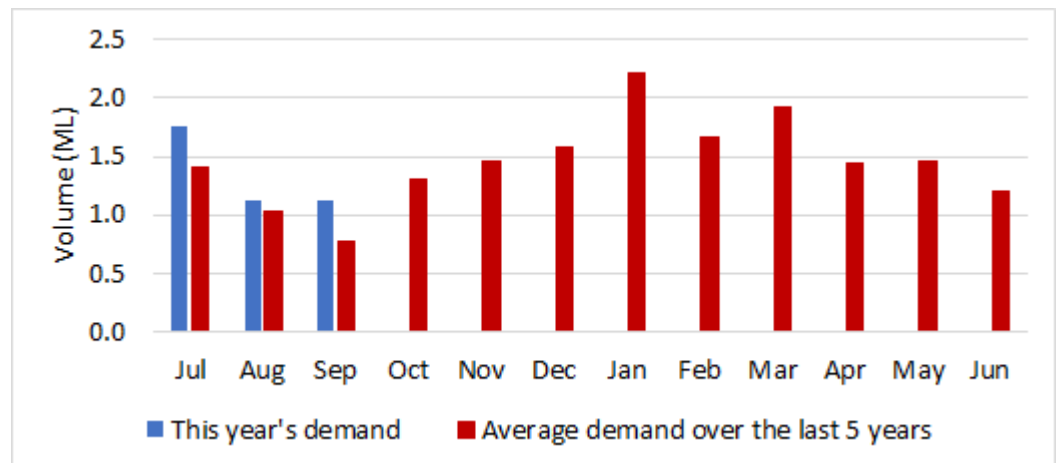
## Water Supply Information

Water resources held by South Gippsland Water for the Dumbalk Water Supply System are shown below. Only 4% of the available annual entitlement has been used from the river in the current year to date (Jul-Sep 2021). This entitlement is a legal right to access water, subject to availability.

Water Component	Maximum Annual Entitlement	Volume Extracted 2021-22	Volume Remaining 2021-22
Tarwin River at Dumbalk	100 ML	4 ML	96 ML

## Water Consumption

Monthly water consumption for the Dumbalk Water Supply System in the year to date has been above the average demand over the last five years. It is expected that demand will be close to the historical average for the remainder of the year.



### Further Information:

- The most recent records for the Tarwin River East Branch at Dumbalk show that it was flowing at an average of 356 ML/d during October. This is well above SGW's restriction trigger of 1 ML/d.
- Unregulated river flows are difficult to forecast. SGW has only forecast the next 3 months due to low forecast skill beyond 3 months. The graph is formatted to highlight low flow behaviour.
- Units are in megalitres per day (ML/d), where 1 ML is equivalent to 1 million litres (or roughly one Olympic sized swimming pool).

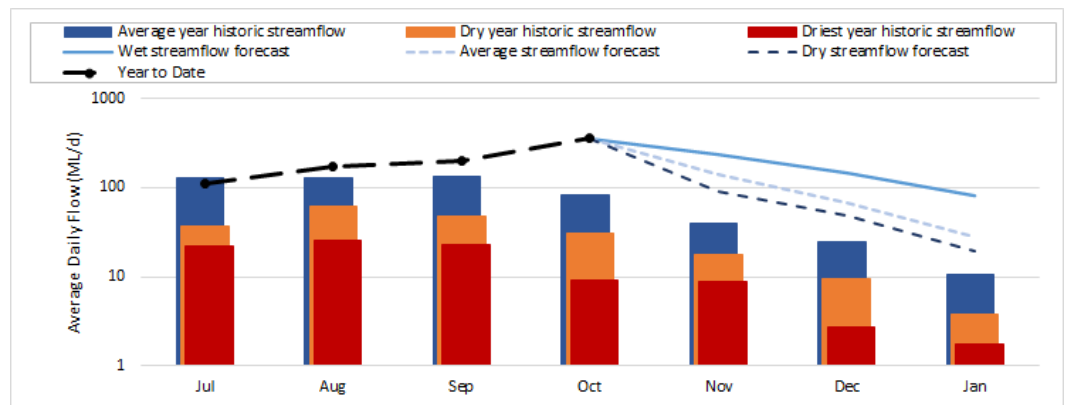
## Climate Conditions

Forecast climate conditions for the coming three months have considered the Bureau of Meteorology's seasonal climate forecast for the region and local climate conditions in the year to date. Winter/spring rainfall in the year to date has been similar to the long-term average, however the Bureau's climate outlook indicates that rainfall over the next three months is likely to be above the long-term average. Air temperature is forecast over the next three months to be above the long-term average for this time of year, and this trend is expected to continue beyond this period. After taking these factors into account, South Gippsland Water is forecasting on the basis of an average climate scenario.

Chance of Exceeding Median Rainfall	Chance of Exceeding Median Maximum Temperature	This Year's Spring Rainfall	Likely Outlook Scenario
65-70%	Greater than 80%	Average	Average

## Streamflow Outlook

Streamflow in the Tarwin River are naturally highly variable. For the year to date, streamflow has generally been close to the long-term average. Whilst precisely forecasting streamflow conditions is difficult, streamflow for the outlook period is currently expected to remain near or above the historical average if average climate conditions continue as expected. Water restrictions have previously only been enacted in the Dumbalk system during extreme drought. River flows are expected to remain above SGW's 1 ML/d trigger for restrictions over the outlook period.



## Urban Water Restrictions Outlook

Based on the recent streamflow record, average demands for water expected for the next three months, the Bureau of Meteorology climate forecast and SGW's daily streamflow forecast, no water restrictions are anticipated over the outlook period at the current time. South Gippsland Water's Permanent Water Savings Plan applies to all customers over the outlook period.

Climate Scenario	Outlook		
	1 Dec 2021	1 Jan 2022	1 Feb 2022
Wet	PWSP	PWSP	PWSP
Average	PWSP	PWSP	PWSP
Dry	PWSP	PWSP	PWSP

PWSP Permanent Water Savings Plan

## *Action Plan*

A list of priority actions for this supply system prior to the next update of the Urban Water Strategy in 2027 is presented below. Further information on actions can be found in the Urban Water Strategy, due to be published as a final draft in March 2022, and our Price Submission 2020-2023 publication on our website.

Action Name	Timing
Demand management	Ongoing
Reduce leaks and wastage	Ongoing
Update water security outlook	Every November

The information provided in this water security outlook is intended as a guide only. An update will be issued if conditions change during the outlook period.