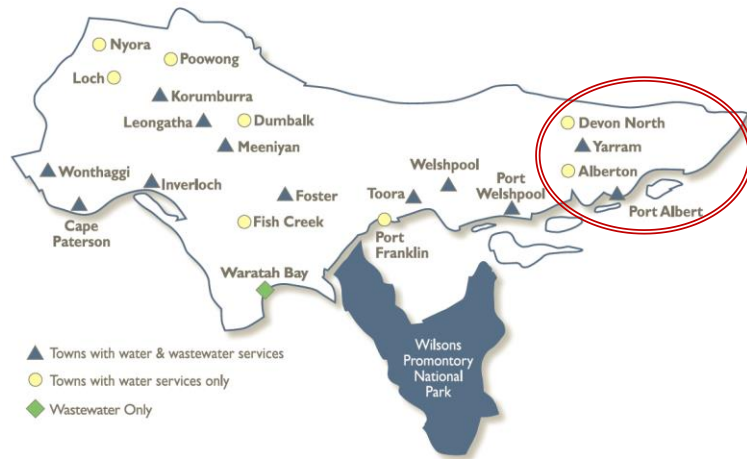


## Tarra River Water Supply System



The Tarra River Water Supply System supplies water to the townships of:

- Yarram;
- Alberton;
- Port Albert; and
- Surrounding rural communities.

Primary supply is from a diversion weir on the Tarra River, with backup supply from a groundwater bore. Both sources of water are transferred to a storage basin, with a capacity of 30 ML. This storage allows water supply to be maintained during short periods of low river flow during drought.

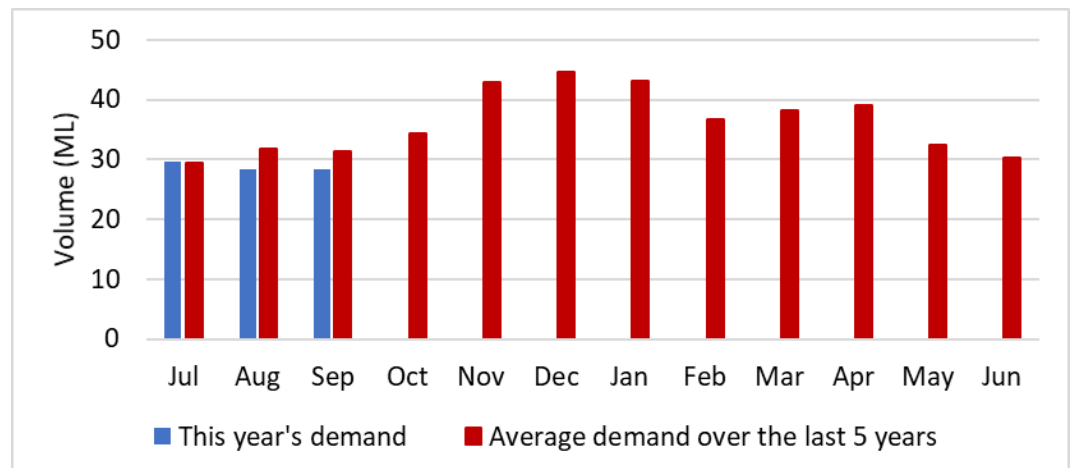
### Water Supply Information

Water resources held by South Gippsland Water for the Tarra River Water Supply System are shown below. Only 11% of the available annual entitlement has been used from the Tarra River in the current year to date (Jul-Sep 2021), with none of the annual groundwater licence used over the same period. 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
Tarra River	853 ML	91 ML	762 ML
Groundwater Bore	214.2 ML	0 ML	214.2 ML

### Water Consumption

Monthly water consumption for the Tarra River Water Supply System in the year to date was close to the average demand over the last five years. Water consumption is expected to remain close to the historical average for the remainder of the year.



### Further Information:

- The most recent records for the Tarra River upstream of the diversion weir show that it was flowing at an average of 90 ML/d during September. This is above the 5 ML/d flow threshold to activate groundwater pumping, which is used to deal with water shortages.
- The Yarram storage basin was 100% full at the end of October.
- 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).

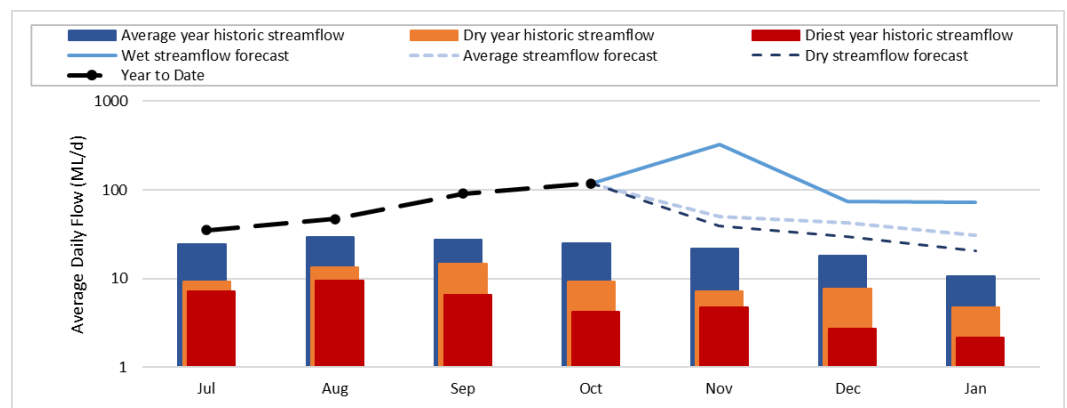
## Climate Conditions

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 above the long-term average, and 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 higher than 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
<b>65-70%</b>	<b>Greater than 80%</b>	<b>Above average</b>	<b>Average</b>

## Streamflow Outlook

Streamflow in the Tarra River is naturally highly variable. For the year to date, streamflows have generally been at or above the historical average. Whilst precisely forecasting streamflow conditions is difficult, streamflow for the outlook period is currently expected to remain above the historical average if the climate conditions continue as expected.



## Urban Water Restrictions Outlook

Based on the streamflow outlook, the demands for water in the year to date, and the Bureau of Meteorology climate forecast, no water restrictions are anticipated for the remainder of the year at the current time. For the average climate outlook expected, it is estimated that the groundwater bore entitlement is unlikely to be used in 2021/22. 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
Continue purchase of groundwater licences as required	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.