

Appendix A - CAMPASPE SYSTEM



Figure 1: Campaspe System showing water sources.

System Overview

The Campaspe System supplies the town of Goornong, servicing 159 residential connections and 24 non-residential connections as at 30 June 2018.

Raw water is pumped from the Campaspe River, and transferred 5 km to the 6 ML service basin at the Goornong Water Treatment Plant (WTP). The water is treated at the WTP and supplied to the town and a 105 KL elevated tank. The WTP provides sand filtration and disinfection.

Water is sourced from Lake Eppalock and the Campaspe River catchment under the Bulk Water Entitlement (Axedale, Goornong & part Rochester) with an annual volume of 349 ML.

Water Resources and Demand

The Campaspe System has a minimum allocation of 50%, (174 ML), which is currently adequate to meet the annual demand. Allocation can be transferred from other Coliban Water accounts.

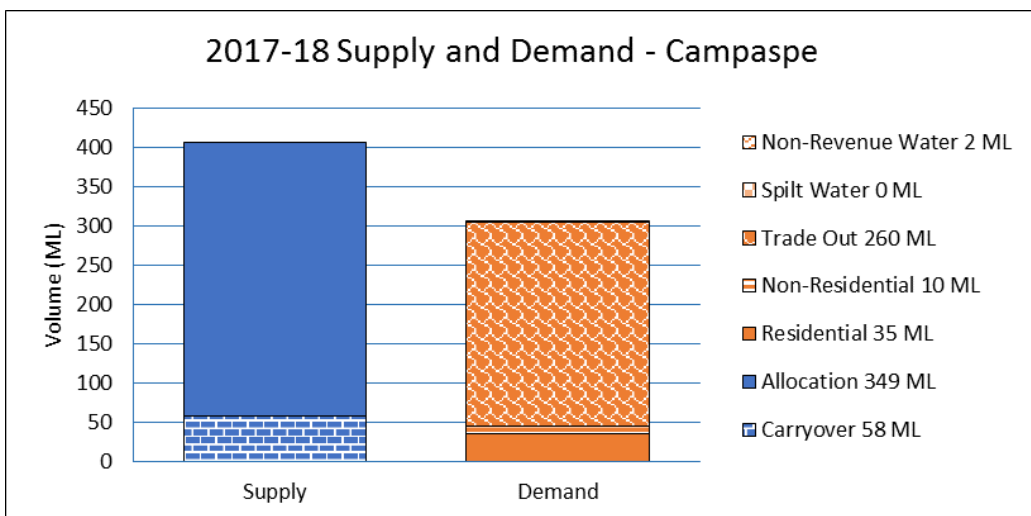


Figure 2: 2017-18 Supply and Demand for the Campaspe System.

In 2017-18 the raw water demand for the Campaspe System was 60 ML, which was below the estimated demand range of 68 to 82 ML.

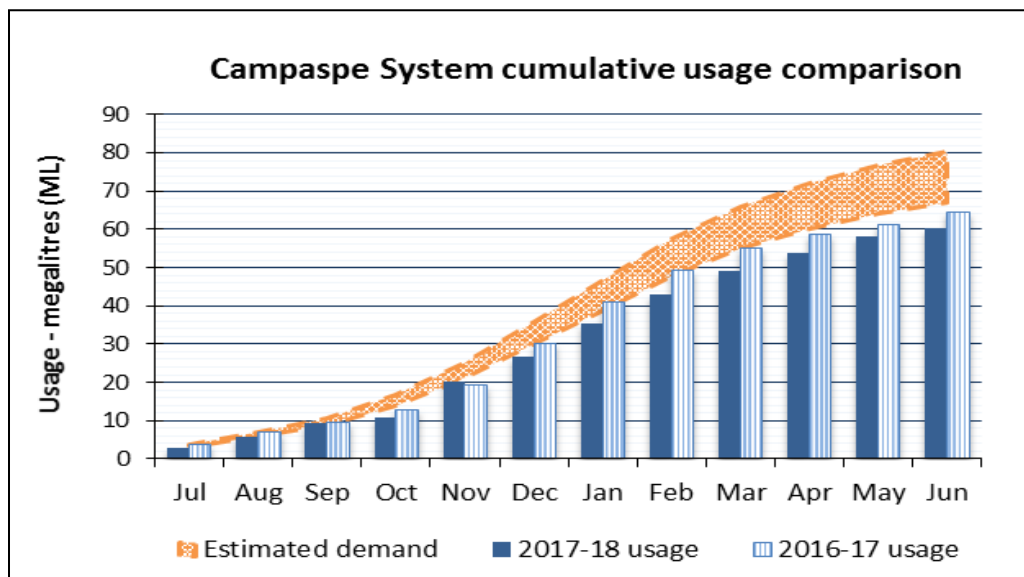


Figure 3: 2017-18 cumulative water usage for the Campaspe System compared with the same period last year and estimated demand.

Resource Status

With high volumes in storage and allocations at 100% for the bulk entitlement, restrictions are highly unlikely for the next 12 months.

Table 1: Current resource status.

System	Primary Supply Secondary Supply	Supply ¹ 1 July 2018	Demand 'dry weather'	Reserve Status
Campaspe	Campaspe River	427 ML	83 ML	>12 months

Note 1: Includes allocation received to date and carryover from 2017-18.

Severe water shortages resulted in 50% minimum bulk entitlement allocation for 6 consecutive years from 2001-05 to 2009-10.

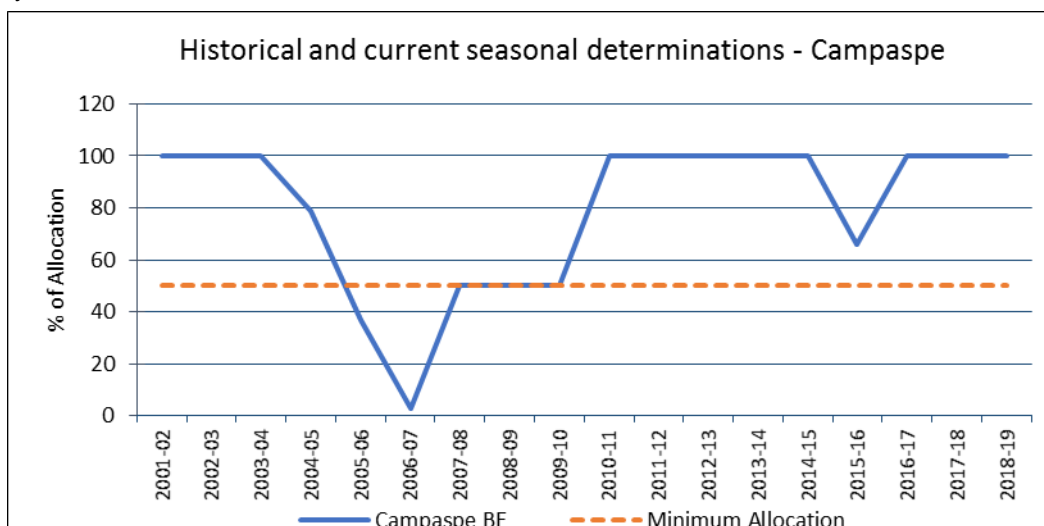


Figure 4: Historical and current seasonal determinations for the Campaspe System.

In the advent of poor raw water quality in the Campaspe River, raw water from other sources can easily be carted in from elsewhere e.g. Elmore or Bendigo.

Forward Outlook

The 2018-19 estimated dry weather demand for the Campaspe System is 83 ML. With 100% allocations, the Campaspe System has adequate reserves to meet demand for the next 12 months.

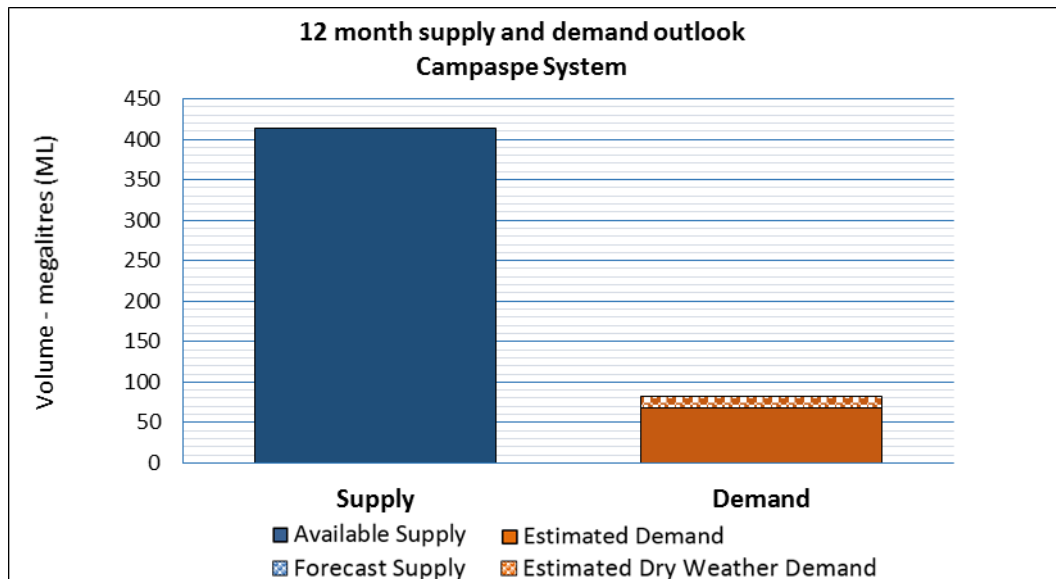


Figure 5: Raw water 12 month supply and demand outlook for the Campaspe System.

Actions

The Campaspe System is not expected to experience any water shortfall for the next 12 months, therefore no action is proposed to improve water security.