

Appendix F - LODDON SYSTEM



Figure 1: Loddon System showing water sources.

System Overview

The Loddon System services 1,213 residential connections and 162 non-residential connections as at 30 June 2018.

Raw water for Bridgewater is sourced from the Loddon River and stored in two raw water basins (Primary Basin – 4 ML and Secondary Basin – 18 ML). The treated water from the Bridgewater treatment plant is supplied to Bridgewater and Inglewood townships.

Raw water for Laanecoorie is also sourced from the Loddon River. However there is no raw water storage facility in Laanecoorie. The treated water from the Laanecoorie treatment plant is supplied to Laanecoorie, Tarnagulla, Dunolly and Bealiba townships.

Serpentine and Jarklin which were serviced from the Loddon System are now been serviced from the Goulburn System.

Water Resources and Demand

The Loddon System has a minimum allocation of 50%, (410 ML), which is currently adequate to meet the annual demand. Allocation can be transferred from other Coliban Water accounts.

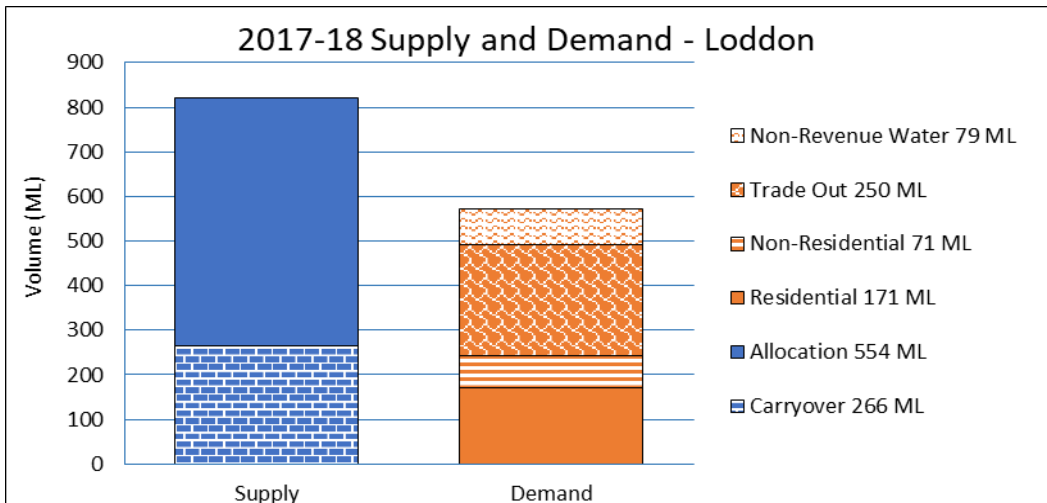


Figure 2: 2017-18 Supply and Demand for the Loddon System.

In 2017-18 the demand for the Loddon System was 397 ML, which was within the estimated demand range of 369 to 442 ML.

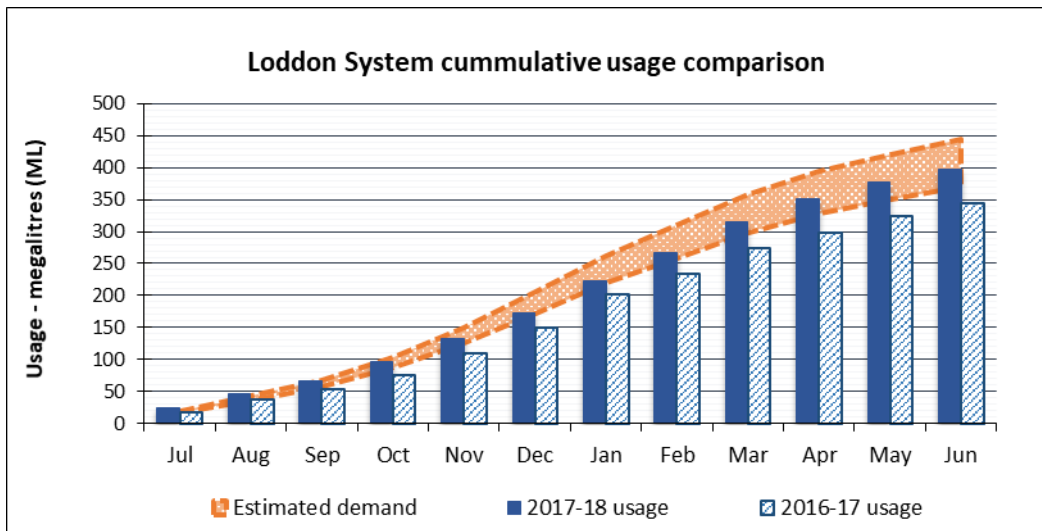


Figure 3: 2017-18 cumulative water usage for the Loddon System compared with the same period last year and estimated demand.

Resource Status

With high volumes in storage and allocations at 71% as of the beginning of October 2018, restrictions are highly unlikely for the next 12 months.

Table 1: Supply and Demand.

System	Primary Supply Secondary Supply	Supply ¹ 1 Oct' 2018	Demand 'dry weather'	Reserve Status
Loddon	Loddon River	771 ML	449 ML	>12 months

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

The dry weather conditions that persisted during the Millennium Drought resulted in significant reductions to water allocations from our external bulk supplier Goulburn-Murray Water. The allocation during 2008/09 and 2009/10 was 0% and 3% respectively.

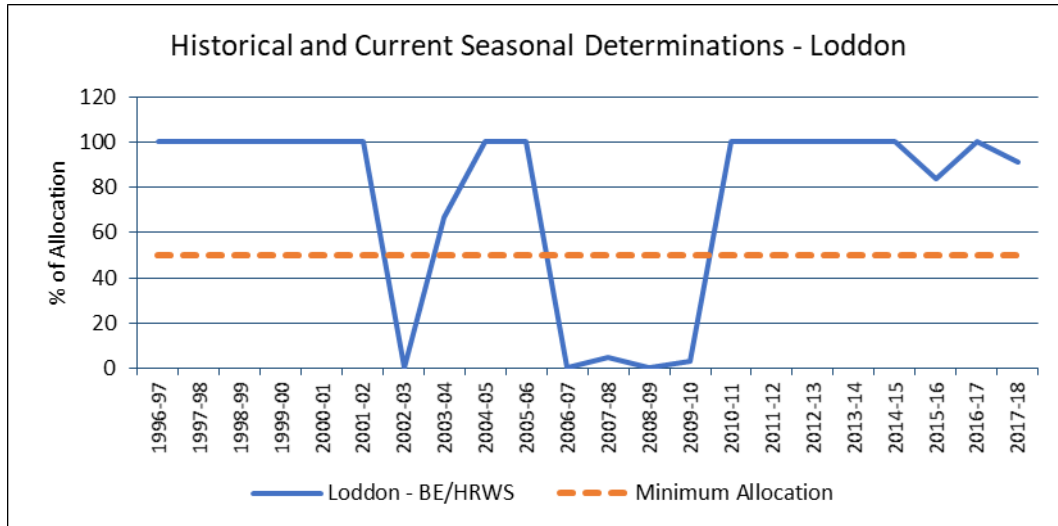


Figure 4: Historical and current seasonal determinations for the Loddon System.

Forward Outlook

The 2018-19 estimated dry weather demand for the Loddon System is 449 ML. With water carried over from 2017-18 and allocations at 71%, the Loddon System has adequate reserves to meet demand for the next 12 months.

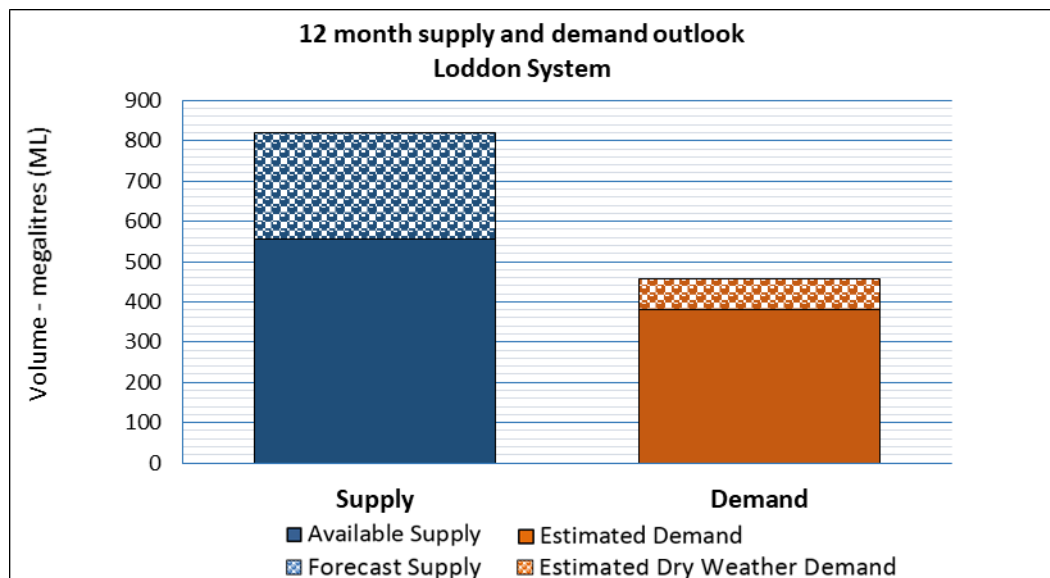


Figure 5: Raw water 12 month supply and demand outlook for the Loddon System.

Actions

Extend East Loddon pipeline (ELPL) to Bridgewater: The East Loddon pipeline which sources water from Goulburn system (Waranga Western Channel) terminates south of Serpentine. The pipeline is considered to be undersized to be extended to Bridgewater. However, there is a potential to build an intermittent storage tank near Serpentine to collect water during off-peak time and to pump to Bridgewater.

Coliban Water has continued to engage with stakeholders and customers in relation to the Urban Water Strategy (UWS). Detailed analysis on each system will commence during the latter part of 2018-19.

