2017 ANNUAL NEWSLETTER



Lower Campaspe Water Supply Protection Area

Groundwater Management

The Lower Campaspe Valley Water Supply Protection Area (WSPA) extends from Lake Eppalock in the South to the Murray River in the North. Groundwater resources are managed by Goulburn-Murray Water in accordance with the Lower Campaspe Valley WSPA Groundwater Management Plan, which was approved by the Minister for Water in October 2012.

Allocations

Allocations are determined by comparing the three year rolling average of the maximum groundwater recovery level to the trigger level.

In 2016/17 all management zones received an allocation of 100%. Allocations in 2017/18 are also 100% (Figure 1 and Figure 2).

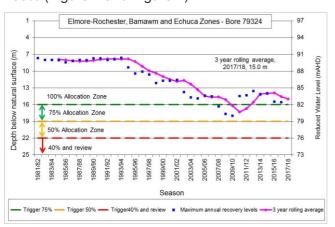


Figure 1 Trigger levels for allocations in the Elmore-Rochester, Bamawm and Echuca Zones

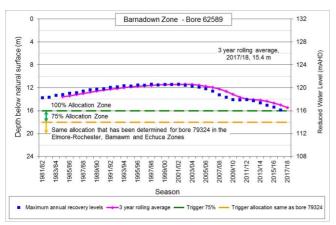


Figure 2 Trigger levels for allocations in the Barnadown Zone

Groundwater use

Metered groundwater use in the Lower Campaspe Valley WSPA in 2016/17 was 24,383 ML, which is 44% of licence entitlement. This is around average annual use in the area (Figure 3).

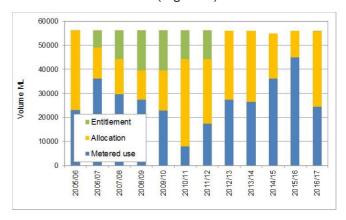


Figure 3 Metered groundwater use

Trading

The Plan allows groundwater licence holders to temporarily or permanently transfer licence entitlement. In 2016/17 there were 8 temporary transfers for a total of 1,174 ML; and 2 permanent transfers for a total of 296 ML/yr (Figure 4).



Figure 4 Groundwater trading activity

Licence holders are reminded not to extract more than their licence volume without written approval from Goulburn-Murray Water.

Licence holders seeking to trade groundwater entitlement should visit Watermatch, an on-line trading forum where people can advertise at https://www.watermatch.com.au/

DM #4440964

Carryover

There was 12,707 ML of carryover available to licence holders in the 2016/17 season.

The volume that has been carried over into the 2017/18 season is 13,777 ML.

Groundwater levels

The Department of Environment, Land, Water and Planning (DELWP) in partnership with Goulburn-Murray Water monitored 90 State observation bores in the Lower Campaspe Valley WSPA.

Monitoring indicates that seasonal groundwater level recovery is strong and levels are generally within observed historical ranges. It is noted that groundwater recovery levels continue to fall since the flood events in 2010/11.

In the Elmore-Rochester and Bamawm Zones, seasonal drawdown of up to 15 m was observed in more intensively pumped areas in 2016/17 (Figure 5 and Figure 6).

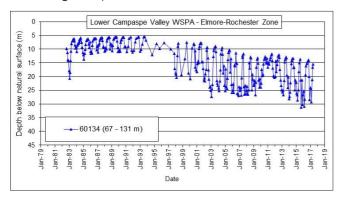


Figure 5 Groundwater levels in Elmore-Rochester Zone

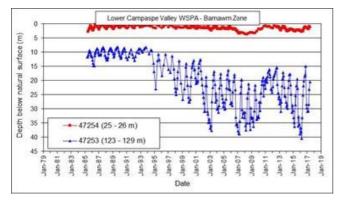


Figure 6 Groundwater levels in Bamawn Zone

In the Echuca and Barnadown Zones groundwater recovery levels have remained relatively steady with seasonal drawdown of up to around 5 m (Figure 7 and 8).

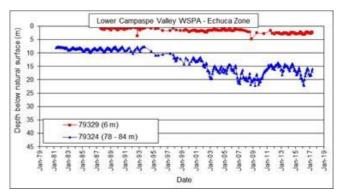


Figure 7 Groundwater levels in Echuca Zone

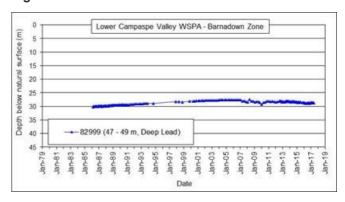


Figure 8 Groundwater levels in Barnadown Zone
Groundwater quality

Each year, Goulburn-Murray Water provides sample bottles to all licensed groundwater users to monitor salinity in their bores. Only 20% of bottles were returned. This was supported by results from targeted sampling of licensed bores and indicates that salinity levels are generally within expected ranges.

Groundwater samples were also collected from key nested State observation bores. Groundwater salinity ranged between 1,717 EC near Bamawm to 10,474 EC on the north-western margin of the area, which is similar to recent years. Continued monitoring of groundwater quality will enable any trends to be identified.

Where can I get more information?

You can download a copy of the Lower Campaspe Valley WSPA Groundwater Management Plan or the annual report from the GMW website www.gmwater.com.au, or call 1800 013 357.