

Cunnamulla Water Supply Scheme

Operations Manual

August 2021

Water Plan (Warrego, Paroo, Bulloo and Nebine) 2016



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Chapter 1 Preliminary

1 Short title

- (1) This operations manual may be cited as the Cunnamulla Water Supply Scheme Operations Manual.
- (2) Reference in this document to 'this manual' means the Cunnamulla Water Supply Scheme Operations Manual.

2 Interpretation of words used in this manual

The glossary in Attachment 1 describes particular words used in this manual.

3 Water supply scheme

The extent of the Cunnamulla Water Supply Scheme within the Warrego, Paroo, Bulloo and Nebine plan area is shown on the map in Attachment 2.

Chapter 2 Water sharing rules

4 Storing and releasing water for stock and domestic purposes

- (1) The licence holder must store and release water for stock and domestic supplies downstream of Allan Tannock Weir ('stock and domestic water').
- (2) The licence holder must maintain an account of stock and domestic water stored in the weir.
- (3) If 18 months or less have passed since the weir was at full supply level, inflows up to 300 megalitres per day will be credited against the stock and domestic water account, provided the inflow occurs when the storage level is between—
 - (a) full supply level, and
 - (b) the minimum operating level.
- (4) If more than 18 months have passed since the weir was at full supply level, inflows up to 300 megalitres per day will be credited against the stock and domestic water account, provided the inflow occurs when the storage level is between—
 - (a) full supply level, and
 - (b) 182.5m AHD.
- (5) When water is credited against the stock and domestic water account, an equivalent volume must be released or spilled the weir within one month of the inflow.
- (6) If the water level in the weir reaches the minimum operating level, the stock and domestic water account will be reset to zero.

5 Taking water under a water allocation

The volume of water taken in a water year under the authority of a water allocation must not exceed the nominal volume of the water allocation multiplied by the announced allocation and divided by 100.

6 Announced allocations

- (1) The licence holder must –
 - (a) set an announced allocation for water allocations to take effect on the first day of each water year in accordance with section 7,
 - (b) following the commencement of a water year—
 - (i) if the announced allocation percentage is less than 100 per cent—recalculate the announced allocation periodically throughout the water year, and
 - (ii) reset the announced allocation—if a recalculation indicates that the announced allocation would—
 - (A) increase by five or more percentage points, or
 - (B) increase to 100 per cent.
 - (c) within five business days of setting or resetting the announced allocation, publish details of the announced allocation, including the parameters used in its determination.
- (2) The announced allocation—
 - (a) must be rounded to the nearest per cent,
 - (b) must not be greater than 100 per cent, and

(c) must not be reduced during the water year.

7 Calculation of announced allocations

(1) The licence holder must calculate the announced allocation for water allocations using the following formula—

$$AA_M = \left\{ \frac{UV + DIV}{MPA} \right\} \times 100$$

(2) The parameters used in the formula in this section are defined in table 1.

Table 1 - Announced allocation parameters

Parameter	Description
UV	<p>The useable volume of Allan Tannock Weir as determined by the following equation—</p> <p>If (CV – MOV – SL – SD) > 0 then UV = CV – MOV – SL – SD</p> <p>otherwise UV = 0</p> <p>Where—</p> <p>CV is the current volume in storage.</p> <p>MOV is the minimum operating volume as per infrastructure details as stated in the resource operations licence</p> <p>SL is the projected storage loss (calculated using data in table 2) from Allan Tannock Weir for the remainder of the water year. The storage loss is to be calculated by using the value next to the current month multiplied by the current surface area of the storage.</p> <p>SD is the volume of stock and domestic water held in account at the time of calculation of the announced allocation.</p>
DIV	The diverted volume of water taken by medium priority water allocation holders in the current water year up to the time of the calculation of the announced allocation.
MPA	The total nominal volume of medium priority water allocations.
AA_M	Medium priority announced allocation - percentage of the water allocation supply volume for medium priority water in the Cunnamulla Water Supply Scheme that may be taken for the water year.

Table 2 - Storage loss depth for Allan Tannock weir

Month in which announced allocation is calculated	Storage loss depth (mm)	Month in which announced allocation is calculated	Storage loss depth (mm)
July	1566	January	763
August	1505	February	550
September	1421	March	380
October	1306	April	232
November	1157	May	128
December	972	June	56

Chapter 3 Seasonal water assignment rules

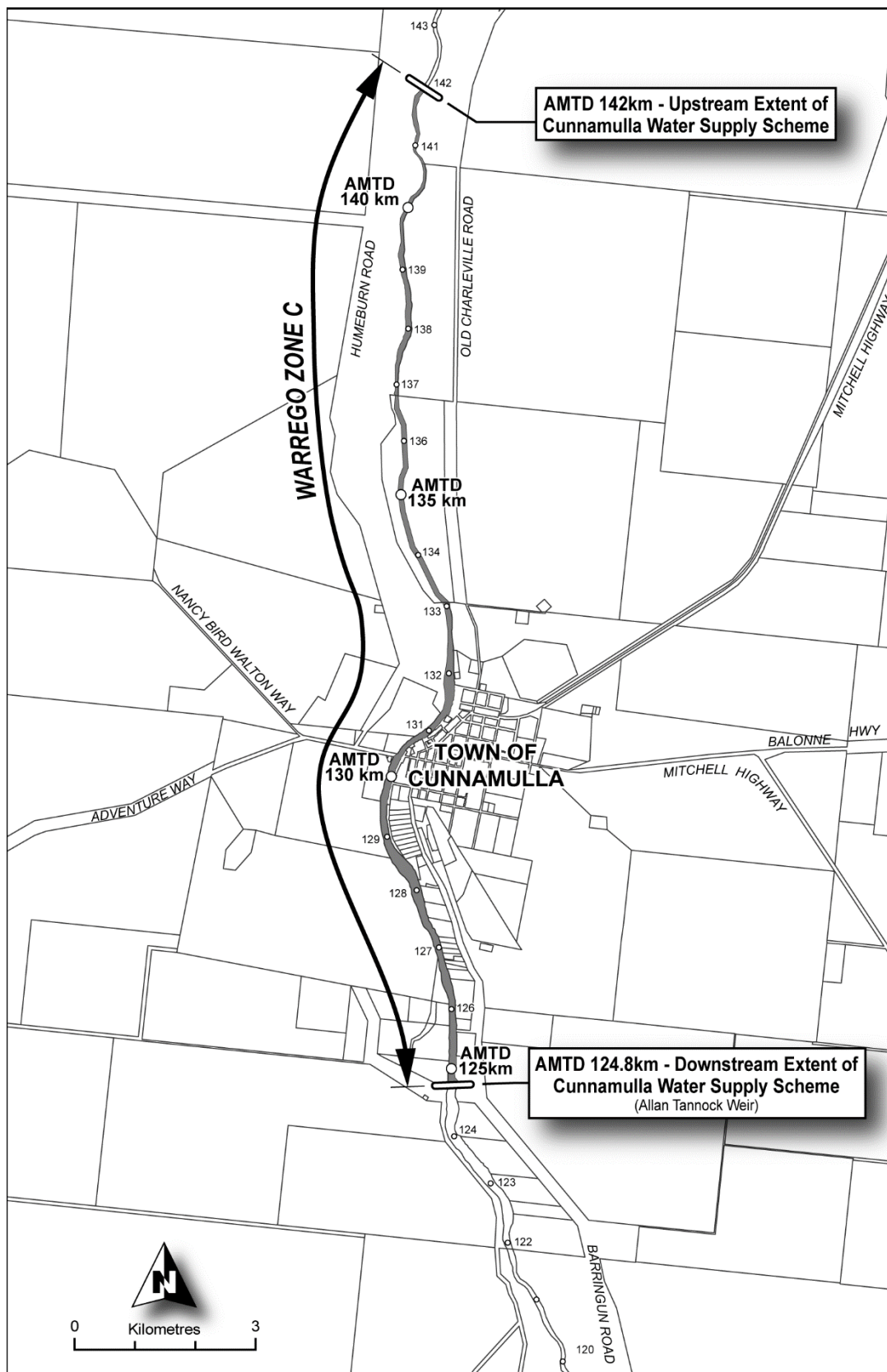
8 Seasonal water assignment rules

The licence holder may approve a seasonal assignment of a water allocation where the total use in a water year for the water supply scheme does not exceed 2612 ML.

Attachment 1 Glossary

Term	Definition
AMTD	Adopted Middle Thread Distance, is the distance in kilometres, measured along the middle of a watercourse, from a specific point in the watercourse to the watercourse's mouth, the watercourse's junction with the main watercourse or the border between the State and New South Wales.
Licence holder	Is taken to mean the resource operations licence holder for the Cunnamulla Water Supply Scheme.
Minimum operating level	This is the level below which water cannot be used to supply customers, either because there is insufficient hydraulic gradient or because of poor water quality and for environmental reasons.
water year	The period from 1 July to 30 June.

Attachment 2 Cunnamulla water supply scheme





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