

Mary Basin

Cedar Pocket Water Supply Scheme Operations Manual

April 2021



This publication has been compiled by Water Policy, Department of Regional Development, Manufacturing and Water.

© State of Queensland, 2021

The Queensland Government supports and encourages the dissemination and exchange of its information. The copyright in this publication is licensed under a Creative Commons Attribution 4.0 International (CC BY 4.0) licence.



Under this licence you are free, without having to seek our permission, to use this publication in accordance with the licence terms. You must keep intact the copyright notice and attribute the State of Queensland as the source of the publication.

Note: Some content in this publication may have different licence terms as indicated.

For more information on this licence, visit <https://creativecommons.org/licenses/by/4.0/>.

The information contained herein is subject to change without notice. The Queensland Government shall not be liable for technical or other errors or omissions contained herein. The reader/user accepts all risks and responsibility for losses, damages, costs and other consequences resulting directly or indirectly from using this information.

Interpreter statement:

The Queensland Government is committed to providing accessible services to Queenslanders from all culturally and linguistically diverse backgrounds. If you have difficulty in understanding this document, you can contact us within Australia on 13QGOV (13 74 68) and we will arrange an interpreter to effectively communicate the report to you.



Contents

Chapter 1	Preliminary	2
Chapter 2	Operating rules	3
Chapter 3	Water sharing rules.....	4
Chapter 4	Seasonal water assignment rules.....	7

Chapter 1 Preliminary

1 Short title

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

2 Interpretation of words used in this manual

The dictionary in attachment 1 defines particular words used in this manual.

3 Water supply scheme

The extent of the Cedar Pocket Water Supply Scheme is defined in Attachment 2 of the Mary Basin Resource Operations Plan, as it has effect for the purposes of the Water Plan (Mary Basin) 2006.

Chapter 2 Operating rules

4 Operating levels of storages

The licence holder must not release or supply water from a storage when the water level in that storage is at or below its minimum operating level specified in table 1.

Table 1 – Operating levels of storages

Storage	Minimum operating level (m AHD)
Cedar Pocket Dam	93.26

Chapter 3 Water sharing rules

5 Announced allocation

- (1) The licence holder must—
- (a) determine an announced allocation for medium priority water allocations for use in defining the share of water available to be taken under water allocations in that priority group;
 - (b) use the water sharing rules specified in this chapter to calculate announced allocations throughout the water year;
 - (c) calculate and set the announced allocation for medium priority water allocations to take effect on the first day of each water year;
 - (d) following the commencement of a water year—
 - (i) recalculate the announced allocation to take effect no later than five business days following the first day of every month; and
 - (ii) reset the announced allocation if a recalculation indicates that the calculated announced allocation would—
 - (A) increase by five or more percentage points; or
 - (B) increase to 100 per cent; and
 - (e) make public the details of the announced allocation, including parameters for determining the announced allocation, on the licence holder's website within five business days of—
 - (i) setting an announced allocation under subsection (1)(c); or
 - (ii) the first calendar day of every month when resetting the announced allocation under subsection (1)(d); and
- (2) The announced allocation must—
- (a) not be less than zero or greater than 100 per cent;
 - (b) be rounded to the nearest per cent; and
 - (c) not be reduced during a water year.

6 Calculation of announced allocation

- (1) The licence holder must determine the announced allocation for medium priority water allocations using the following formula—

$$AA_{MP} = 100 \times \frac{[(UV + DIV - TOA)]}{MPA}$$

- (2) The parameters used in the formula for the announced allocation are defined in table 2.

Table 2 – Announced allocation parameters

Term	Definition
AA _{MP}	Announced allocation for medium priority—the percentage of the nominal volume for a medium priority water allocation, which is used to calculate the volume that may be taken under the allocation for the current water year.
MPA	Medium priority allocation—the total nominal volume of medium priority water allocation.

Term	Definition
UV	<p>Useable volume—the useable volume of Cedar Pocket Dam as per the following equations—</p> $UV = (CV - MOV)$ $UV = 0 \text{ if } (CV - MOV) \text{ is less than zero.}$ <p>Where—</p> <ul style="list-style-type: none"> • CV is the current volume of the storage. • MOV is the minimum operating volume of Cedar Pocket Dam.
DIV	Diverted volume of medium priority water allocation—the total volume (in megalitres) of water taken under medium priority water allocations since the start of the current water year up to the time of assessment of the announced allocation.
TOA	Transmission and operational loss allowance—is an allowance for the transmission and operational losses expected to occur in running the system to the end of the water year. TOA is dependent on announced allocation and can be interpolated from table 3.

Table 3 – Transmission and operational losses (megalitres)

AA	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
0.00	0	0	0	0	0	0	0	0	0	0	0	0
0.20	43	40	35	29	25	20	17	14	12	9	6	3
0.40	87	80	71	59	49	41	34	29	23	18	12	6
0.60	130	119	106	88	74	61	51	43	35	27	18	9
0.80	173	159	142	118	99	81	68	57	47	36	24	12
1.00	216	199	177	147	123	102	84	71	58	45	30	15

7 Taking water under a water allocation

The total volume of water taken under a water allocation in a water year, other than a water year in which Cedar Pocket Dam overflows, must not exceed the nominal volume of the water allocation multiplied by the announced allocation and divided by 100.

8 Taking water in a water year in which Cedar Pocket Dam overflows

- (1) The total volume of water taken under a water allocation in a water year in which Cedar Pocket Dam overflows must not exceed the sum of—
 - (a) the volume of water taken before Cedar Pocket Dam overflows; and
 - (b) the nominal volume of the water allocation.

- (2) To remove any doubt, it is declared that the total volume of water taken under subsection (1) must not exceed the nominal volume of the water allocation multiplied by two.

Chapter 4 Seasonal water assignment rules

9 Maximum water use

- (1) The maximum volume of water that may be taken in a zone in a water year is the maximum allowable water use volume indicated in table 4 for the zone; and
- (2) The total volume of water that may be taken in a zone in a water year is the total volume of water used under water allocations for all priority groups managed and distributed by the licence holder for zone CPKS1.

10 Seasonal water assignment rules

- (1) The licence holder may consent to the arrangement for a seasonal assignment of a volume of water provided that the total volume of water that may be taken in a zone in a water year does not exceed the maximum allowable water use volume in table 4 for the zone.
- (2) The licence holder must not approve a seasonal assignment of a water allocation if the purpose of the water allocation is 'distribution loss', unless the seasonal assignment—
 - (a) is to the same person; and
 - (b) does not involve a change in purpose.
- (3) The licence holder is responsible for dealing with applications for seasonal water assignment where the licence holder distributes to the assignee.

Table 4 – Maximum allowable use volume

Zone	Maximum allowable water use volume (ML)
CPKS1	1 010

Attachment 1 Dictionary

Term	Definition
AHD	The Australian Height Datum which references a level or height to a standard base level.
Announced allocation	For a water allocation managed under a resource operations licence, this means a number, expressed as a percentage, used to determine the maximum volume of water that may be taken in a water year under the authority of a water allocation.
Assignee	The person or entity to whom an interest or right to water is being transferred (e.g. seasonally assigned).
EL	Elevation level.
Licence holder	The holder of the resource operations licence for Cedar Pocket Water Supply Scheme.
Medium priority water allocation	A water allocation within a priority group for which the water allocation security objective (performance indicator) is in the range specified in the Water Plan (Mary Basin) 2006.
Minimum operating level	The level or elevation of water within the ponded area of a dam weir or barrage below which water cannot be released or taken from the infrastructure under normal operating conditions.
Minimum operating volume	The specified minimum volume of water within the ponded area of a storage, dam, or weir below which water cannot be released or taken from the infrastructure under normal operating conditions.
Megalitres (ML)	One million litres.
Performance indicator	A measure that can be calculated to assess the impact of water allocation and management decisions on water entitlements and aquatic ecosystems.
Ponded area	Area of inundation at full supply level of storage.
Water use	Refers to actual consumption of water.



Queensland
Government