

Gold Coast

Nerang Water Supply Scheme Operations Manual

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Chapter 1 Preliminary

1 Short title

This operations manual may be cited as Nerang Water Supply Scheme Operations Manual¹.

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 Nerang Water Supply Scheme is defined by the Water Plan (Gold Coast) plan area and shown on the map in attachment 2.

4 to 10 Section numbers not used

¹ To allow for future amendments to this manual, some section numbers have been deliberately left blank. This will facilitate any amendments to the manual that may occur without the need for the whole manual to be renumbered.

Chapter 2 Operating rules

11 Quality of water released

Where a storage is fitted with multi-level inlet works, the resource operations licence holder must draw water from the inlet level that optimises the quality of water released.

12 Operating levels of infrastructure

- (1) The minimum operating levels for infrastructure in the Nerang water supply scheme are specified in table 1.
- (2) The resource operations licence holder must not release water from infrastructure when the water level in that infrastructure is at or below its minimum operating level.
- (3) The resource operations licence holder must not release water from infrastructure unless it is a release required under section 13.

Table 1 – Operating levels of infrastructure

Infrastructure	Minimum operating level
Hinze Dam	EL 45.6 m AHD
Little Nerang Dam	EL 139.3 m AHD

13 Releases and supply from infrastructure

- (1) The resource operations licence holder must only release from Hinze Dam—7.25 ML/day when the water level in Hinze Dam is above EL 45.6 m AHD; and
- (2) The resource operations licence holder must not supply more than 300 ML/day for water allocations.

14 to 20 Section numbers not used

Chapter 3 Water sharing rules

21 Announced allocations

- (1) The water year for the Nerang Water Supply Scheme is from 1 July to 30 June in the following year.
- (2) The resource operations licence holder must—
 - (a) set an announced allocation for water allocations belonging to the high priority group to take effect on the first day of each water year;
 - (b) following the commencement of a water year—
 - (i) if the announced allocation percentage is less than 100 per cent—recalculate the announced allocation within five business days of the first calendar day of every month; 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; and
 - (c) within five business days of setting an announced allocation under subsection (2)(a) or the first calendar day of the month when resetting an announced allocation under subsection (2)(b)—
 - (i) notify the chief executive of the announced allocation decision;
 - (ii) make public details of the announced allocation; and
 - (iii) make public details of the announced allocation, including parameters used in determining the announced allocation, on the resource operations licence holder's website for the Nerang Water Supply Scheme.
- (3) The announced allocation that is set for high priority group is the lesser of—
 - (a) the announced allocation for the priority group as calculated under section 22 rounded to the nearest per cent; and
 - (b) 100 per cent.
- (4) Despite subsection (3) the announced allocations that are set must—
 - (a) not be less than zero; and
 - (b) not be reduced during the water year.

22 Calculation of announced allocation

- (1) The resource operations licence holder must calculate the announced allocation for water allocations belonging to the high priority group as follows—
 - (a) 100 per cent when the level in Hinze Dam is greater than EL 73.0 m AHD; and
 - (b) when the water level of water stored in Hinze Dam is equal to or less than EL 73.0 m AHD the announced allocation percentage for high priority water allocations must be calculated using the following formula—

$$AA_{HP} = \left\{ \frac{UV + DIV_{HP}}{HPA} \right\} \times 100$$

(2) In this section, the parameters for the formula are—

Parameter	Definition
AA_{HP}	The announced allocation for water allocations belonging to the high priority group (%).
HPA	The sum of the nominal volumes for all water allocations belonging to the high priority group (ML).
UV	Useable volume (UV) for a storage, is the volume of stored water that can be used to supply water allocations through to the end of the water year and is calculated as— $UV = \text{sum (UV storage)}$ where— UV is the useable volume of each storage CV is the current volume of the storage MOV is the minimum operating volume of the storage and— $UV \text{ storage} = (CV - MOV)$ but $UV \text{ storage} = 0$ if $(CV - MOV) < 0$ For the purposes of this section— UV is the useable volume for Hinze Dam and Little Nerang Dam
DIV_{HP}	Diversions (ML)—the sum of the diversions for all water allocations belonging to the high priority group during the current water year up to the time of calculating an announced allocation.

23 Taking water under water allocation

The volume of water taken under water allocation in a water year must not exceed the nominal volume for the water allocation multiplied by the announced allocation.

24 to 30 Section numbers not used

Chapter 4 Seasonal water assignment rules

31 Seasonal water assignment rules

The resource operations licence holder may approve a seasonal assignment of a volume of water provided that the volume of the assignment is no greater than the unused volume that may be taken under the allocation.

Attachment 1 Dictionary

Term	Definition
AHD	The Australian Height Datum, which references a level or height to a standard base level.
AMTD	Adopted middle thread distance.
Announced allocation	For a water allocation managed under a resource operations licence, means a number, expressed as a percentage, which is 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).
Assignor	The person or entity that transfers an interest or right in water to an assignee (e.g. a seasonal assignment).
EL	Elevation
Infrastructure	A dam, weir or other water storage and any associated works for taking or interfering with water in a watercourse, lake or spring.
Inlet	Infrastructure comprised of an entrance channel, intake structure, and gate or valve which allow for water to be taken from the ponded area of a storage, dam or weir.
Minimum operating level	The level or elevation of water within the impounded area of a storage, dam, or weir 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 impounded area of a storage, dam, or weir below which water cannot be released or taken from the infrastructure under normal operating conditions.

Attachment 2 Nerang Water Supply Scheme

section 3

