

# Gulf Resource Operations Plan

June 2010

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Prepared by:

Water Allocation Planning  
Department of Environment and Resource Management  
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## Foreword

This Gulf Resource Operations Plan 2010 implements provisions of the Water Resource (Gulf) Plan 2007 for sustainably allocating and managing water to meet the future needs of this area.

Released as a draft in October 2008, the resource operations plan has been finalised following a period of public review and comment. The provisions contained in this plan implement the water resource plan by improving the specification of all existing water entitlements and providing appropriate resource management. Existing water licences are amended to include volumetric specification.

The provisions in this plan will foster new standards of innovation and efficiency to help the community maximise water resource benefits. A total of 178 900 megalitres of unallocated water is reserved to meet future demands, while tradable water allocations total 75 150 megalitres. Improved mechanisms will deal with water entitlements and applications, and water and natural ecosystem monitoring.

The plan implements strategies to support a range of ecological outcomes and the water and natural ecosystem monitoring requirements that will be used to assess the effectiveness of the implemented water resource plan.

The Julius Dam and Moondarra Dam Water Supply Schemes are the major water supply sources for the Mount Isa area. The new arrangements provided for in the Gulf Resource Operations Plan 2010 will provide improved certainty and security for water infrastructure operators, the water distributor and the area's urban, mining and industrial water users.

The plan continues to make water for domestic purposes available to all persons and communities.

I would like to thank the many groups and individuals who participated in the development of this plan.

Debbie Best  
Deputy Director-General  
Department of Environment and Resource Management

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## **Chapter 1      Preliminary**

### **1      Short title**

- (1) This resource operations plan may be cited as the Gulf Resource Operations Plan 2010.<sup>1</sup>
- (2) Reference in this document to ‘this plan’ means the Gulf Resource Operations Plan 2010.

### **2      Commencement of the resource operations plan**

This plan commences on the first business day after it is notified in the Queensland Government Gazette.

### **3      Purpose of the plan**

This plan implements the Water Resource (Gulf) Plan 2007.

### **4      Interpretation of words in this plan**

The dictionary in Attachment 1 defines particular words used in this plan.

### **5      Plan area**

This plan applies to the area shown as the plan area on the map in Attachment 2.

### **6      Resource operations plan zones**

- (1) Each zone shown on the map in Attachment 3 is a resource operations plan zone (zone) for this plan.
- (2) Each zone includes—
  - (a) each part of a watercourse, lake or spring that lies within the zone; and
  - (b) those sections of tributaries where there is access to flow or pondage from a watercourse or lake within the zone.

### **7      Relocation zones**

- (1) Each of the relocation zones shown on the maps in Attachment 4 is a relocation zone for this plan.
- (2) Each relocation zone includes—
  - (a) each part of a watercourse, lake or spring that lies within the relocation zone; and
  - (b) those sections of tributaries where there is access to flow or pondage from a watercourse or lake within the relocation zone; and
  - (c) each part of an aquifer that is under land in which groundwater is declared under section 8 of the Water Resource (Gulf) Plan 2007 to be water in a watercourse and is within the limits of the relocation zone.

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<sup>1</sup> Due to the size and complexity of this plan, some section numbers have been deliberately left blank. This will facilitate any plan amendments that may occur without the need for the whole plan to be renumbered.

## **8 Information about areas**

- (1) The exact location of plan area boundaries, resource operations plan zones and relocation zones are held in digital electronic form by the department.
- (2) The information held in digital electronic form can be reduced or enlarged to show the details of the boundaries.<sup>2</sup>

## **9 Water to which this plan applies**

- (1) This plan applies to the following water (surface water) in the plan area—
  - (a) water in a watercourse or lake;
  - (b) water in springs not connected to—
    - (i) GAB artesian water; or
    - (ii) GAB subartesian water;
  - (c) overland flow water, other than water in springs connected to—
    - (i) GAB artesian water; or
    - (ii) GAB subartesian water.
- (2) This plan also applies to the following water (groundwater) in the plan area—
  - (a) artesian water that is not GAB artesian water;
  - (b) subartesian water that is not GAB subartesian water.
- (3) In this section—
  - (a) GAB artesian water means artesian water in the plan area under the Water Resource (Great Artesian Basin) Plan 2006;
  - (b) GAB subartesian water means subartesian water connected to artesian water that is in the plan area under the Water Resource (Great Artesian Basin) Plan 2006.

## **10 Purpose of a water allocation**

- (1) The water taken under a water allocation must be used only for the purpose stated on that water allocation.
- (2) Subsection 1 does not apply to water taken under seasonal water assignment unless the purpose is distribution loss.

## **11 Metering**

- (1) A meter, which complies with the standards approved by the chief executive, must be used to measure the volume of water taken under a water entitlement or seasonal water assignment in the plan area in accordance with section 22(1) of the Water Resource (Gulf) Plan 2007.
- (2) Subsection 1 applies—
  - (a) from the day the water entitlements are declared to be metered entitlements under Part 7 of the Water Regulation 2002; and
  - (b) in the circumstances mentioned in the Water Regulation 2002.

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<sup>2</sup> The information held in digital electronic form can be inspected at any of the department's offices.



- (3) The resource operations licence holder must meter, in accordance with standards approved by the chief executive, the taking of water under those water allocations to which the resource operations licence holder for the Julius Dam Water Supply Scheme distributes water.
- (4) The resource operations licence holder must meter, in accordance with standards approved by the chief executive, the taking of water under those water allocations to which the resource operations licence holder for the Moondarra Dam Water Supply Scheme distributes water.
- (5) The distribution operations licence holder must meter, in accordance with standards approved by the chief executive, the taking of water under those water allocations to which the distribution operations licence holder distributes water.

## **12 Departmental water monitoring data collection standard**

- (1) Where this plan requires monitoring by a scheme licence holder, including measurement, collection, analysis and storage of data, the scheme licence holder must ensure the monitoring is consistent with the Water Monitoring Data Collection Standard.<sup>3</sup>
- (2) The Water Monitoring Data Collection Standard may be reviewed and updated by the chief executive at any time.
- (3) The chief executive must notify the relevant scheme licence holders, at least 20 business days before any substantive changes are made to the Water Monitoring Data Collection Standard.

## **13 Departmental water monitoring data reporting standard**

- (1) Where this plan requires transfer of data or reporting by a scheme licence holder, the scheme licence holder must ensure the transfer or reporting is consistent with the Water Monitoring Data Reporting Standard.<sup>4</sup>
- (2) The Water Monitoring Data Reporting Standard may be reviewed and updated by the chief executive at any time.
- (3) The chief executive must notify the relevant scheme licence holders, at least 20 business days before any substantive changes are made to the Water Monitoring Data Reporting Standard.

## **14 Operating and environmental management rules and monitoring requirements**

- (1) The operating and environmental management rules and monitoring requirements of this plan do not apply in situations where carrying out those rules and requirements would be unsafe to a person or persons.
- (2) Where subsection 1 applies, the scheme licence holder—
  - (a) must comply with the reporting requirements for operational or emergency incidents; and
  - (b) may submit an interim program for implementing the rules and requirements under section 15 of this plan.

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<sup>3</sup> The Water Monitoring Data Collection Standard can be accessed at: [www.derm.qld.gov.au/water/monitoring/pdf/wm\\_data\\_col\\_stds.pdf](http://www.derm.qld.gov.au/water/monitoring/pdf/wm_data_col_stds.pdf) or alternatively, inspected at any of the department's offices.

<sup>4</sup> The Water Monitoring Reporting Standard can be accessed at: [www.derm.qld.gov.au/water/monitoring/pdf/wm\\_data\\_report\\_stds.pdf](http://www.derm.qld.gov.au/water/monitoring/pdf/wm_data_report_stds.pdf) or alternatively, inspected at any of the department's offices.

## **15 Implementation**

- (1) The chief executive and scheme licence holders must implement requirements of this plan as soon as is reasonably practicable, but no later than five years from the commencement of this plan.
- (2) This subsection applies where the scheme licence holder is unable to meet the requirements of this plan on the day this plan commences.
  - (a) A scheme licence holder must—
    - (i) within two months of commencement of this plan, submit a statement of programs, to the chief executive for approval; and
    - (ii) within six months of commencement of this plan, submit a program for meeting the requirements of this plan to the chief executive for approval, including a timetable and interim methods to be used.
  - (b) Where the program submitted relates to the Water Monitoring Data Collection Standard, the program must include the accuracy of methods currently used.
- (3) A scheme licence holder may, where an emergency or operational incident results in an inability to comply with the rules or requirements of this plan, submit an interim program for meeting the requirements of this plan to the chief executive for approval. This interim program must include a timetable and interim methods to be used.
- (4) The chief executive, in considering a program submitted under subsection 2 or an interim program submitted under subsection 3, may request additional information.
- (5) The chief executive, in considering a program referred to under this section, may either—
  - (a) approve the program with or without conditions;
  - (b) amend and approve the amended program; or
  - (c) require the scheme licence holder to submit a revised program.
- (6) Within 10 business days of making a decision on a program submitted under this section, the chief executive must notify the scheme licence holder of the decision.
- (7) Following approval of a program by the chief executive, the scheme licence holder must implement and operate in accordance with the approved program; and
- (8) Where there is conflict between the provisions of this plan and the provisions of an approved program, the approved program prevails for the time that the approved program is in place.
- (9) Where subsection 2 or 3 applies, the scheme licence holder may continue to operate under the current program until the program submitted under subsection 2 or 3 is approved.

## **16 Sustainable management of water**

This plan, in implementing the Water Resource Gulf Plan 2007, provides for the sustainable management of water by—

- (a) allowing for the allocation of water and contributing to the fair, orderly and efficient allocation of water to meet community needs by—
  - (i) stating a process for dealing with unallocated water;
  - (ii) granting authorisations for the management of, taking and interfering with water; and
  - (iii) establishing water allocations that are tradable and separate from land.

- (b) protecting the biological diversity and health of natural ecosystems and contributing to the protection and, where possible, reversal of degradation of water, watercourses, lakes, springs, aquifers, natural ecosystems and other resources by—
  - (i) detailing arrangements for the collection and assessment of data by the chief executive relating to Water Resource (Gulf) Plan 2007 general ecological and specific ecological outcomes;
  - (ii) detailing water and natural ecosystem monitoring responsibilities for the holder of the resource operations licence for the Julius Dam and Moondarra Dam water supply schemes; and
- (c) contributing to improving the confidence of water users regarding the availability and security of water entitlements by—
  - (i) stating a process for dealing with unallocated water;
  - (ii) regulating the use of overland flow water;
  - (iii) regulating the use of groundwater;
  - (iv) detailing the operating, environmental management and water sharing rules for the Julius Dam and Moondarra Dam water supply schemes;
  - (v) detailing change rules for water allocations in the Julius Dam and Moondarra Dam water supply schemes;
  - (vi) detailing water and natural ecosystem monitoring responsibilities of the resource operations licence holder for the Julius Dam and Moondarra Dam water supply schemes;
  - (vii) detailing water and natural ecosystem monitoring responsibilities of the distribution operations licence holder for the Julius Dam and Moondarra Dam water supply schemes;
  - (viii) detailing arrangements for the collection and assessment of data by the chief executive relating to Water Resource (Gulf) Plan 2007 outcomes; and
  - (ix) detailing stated amendments under section 106(b) of the *Water Act 2000* that can be made to this plan.
- (d) Contributing to increasing community understanding and participation in the sustainable management of water by—
  - (i) providing opportunities for community participation and submissions as part of plan development; and
  - (ii) clearly specifying rules and arrangements for the allocation and management of water in the plan area, including explanatory notes that provide details of the intent and application of each section of this plan.

## **17 Addressing water resource plan outcomes**

- (1) This plan addresses Water Resource (Gulf) Plan 2007 outcomes by—
  - (a) specifying processes, rules and limits, that are consistent with environmental flow objectives and water allocation security objectives specified in the Water Resource (Gulf) Plan 2007; and
  - (b) providing monitoring and reporting arrangements to assist in the ongoing assessment of whether water management arrangements in the plan area will contribute to the achievement of Water Resource (Gulf) Plan 2007 outcomes.
- (2) Table 1 in Attachment 5 lists the outcomes of the Water Resource (Gulf) Plan 2007 and how the rules of this plan are linked to those outcomes.

## **18 to 28 Section numbers not used**

## Chapter 2      Unallocated water

### 29      Scope of chapter 2

This chapter states a process for making available and dealing with, unallocated water mentioned in section 28 of the Water Resource (Gulf) Plan 2007.

### 30      Record of volume of unallocated water

- (1) The chief executive may develop a register of the volume of unallocated water available.
- (2) This register must be updated after the granting of a water entitlement.

### 31      Requirement for information about land suitability

- (1) A submission for unallocated water where the water is proposed to be used under a water licence for irrigation must be accompanied by information that demonstrates the potential suitability of the land for irrigation.
- (2) For this section, potential suitability of the land for irrigation means the potential of the land for sustainable irrigation having regard to the following matters that may constrain the extent and location of any irrigation development—
  - (a) the availability of land without remnant vegetation, including any occurrence of remnant vegetation.
  - (b) the occurrence of ecological assets and other high value environmental features such as wetlands;
  - (c) suitability of the topography, including the slope of the land intended to be irrigated;
  - (d) known cultural heritage sites; and
  - (e) attributes of the soil, including potential salinity, sodicity and drainage concerns.
- (3) In this section—
  - (a) remnant vegetation has the meaning given by the *Vegetation Management Act 1999*, schedule.

### 32      Land and water management plan

If the use of water granted in accordance with this chapter is for irrigation, a land and water management plan<sup>5</sup> approved under section 77 of the *Water Act 2000* will be required before the water can be used on the land.

## Part 1              Unallocated water reserves

### 33      Unallocated water reserves

- (1) Unallocated water is reserved in the following reserves—
  - (a) strategic reserve;
  - (b) general reserve; and
  - (c) indigenous reserve.

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<sup>5</sup> Refer to section 73(1)(c) of Water Act 2000

- (2) The strategic reserve includes a volume of unallocated water for each of the following—
  - (a) from Lake Corella or Lake Mary Kathleen, for any purpose; or
  - (b) State purposes.
- (3) At the time of plan commencement, the total volume of each reserve for each subcatchment area detailed in schedules 7 and 8 of the Water Resource (Gulf) Plan 2007.

**Table 1. Volume available at the time of plan commencement****Part A**

Location	Volume (ML)
	Strategic Reserve
Lake Corella	2500
Lake Mary Kathleen	1100

**Part B**

Location	Volume (ML)	
	Strategic Reserve	General Reserve
Flinders River catchment area <sup>6</sup>	20 000	80 000
Gilbert River catchment area	5000	15 000
Gregory River subcatchment area	5000	2500
Lower Leichhardt River subcatchment area	15 000	15 000
Morning Inlet catchment area	1000	0
Nicholson River subcatchment area	4400	4400
Norman River catchment area	2000	3000
Settlement Creek catchment area	1000	0
Staaten River catchment area	1000	0

**Part C**

Location	Volume (ML)
	Indigenous Reserve
That part of the plan area within the Cape York Peninsula Region	1000

**Part 2 Granting unallocated water from reserves****34 Unallocated water product specification**

Where the chief executive decides to grant unallocated water it must be as water licences.

<sup>6</sup> Subcatchment boundaries are outlined in schedule 3 of the Water Resource (Gulf) Plan 2007.

**35 Granting unallocated water**

- (1) The process for granting unallocated water must be in accordance with the requirements prescribed in Part 2, Division 1C of the Water Regulation 2002.
- (2) When deciding an application for unallocated water, the chief executive must consider the effect of granting from the unallocated water reserves on indigenous cultural values and the social and economic wellbeing of local indigenous communities.

**Division 1 Terms and conditions for water licences****36 Scope of division 1**

This division details terms and conditions that the chief executive may include on water licences to take unsupplemented water, which may be granted under this chapter.

**37 Water licences for taking water from a watercourse, lake or spring**

A water licence to take water from a watercourse, lake or spring must be granted in accordance with Chapter 5, Part 1, Division 2, Subdivision 4 of the Water Resource (Gulf) Plan 2007.

**38 Water licences for taking overland flow water**

A water licence for taking overland flow water—

- (a) must state the purpose for which water may be taken under the licence as either—
  - (i) rural; or
  - (ii) any.
- (b) must state at least one of the following terms and conditions—
  - (i) the maximum stored volume;
  - (ii) the maximum rate at which the water may be taken under the licence;
  - (iii) the daily volumetric limit for the licence;
  - (iv) the annual volumetric limit for the licence;
  - (v) the mean annual volume for the licence.
- (c) may state the conditions for the licence, including flow conditions and conditions for storing water taken under the licence.

**39 Water licences for taking groundwater**

- (1) A water licence for taking unallocated water from the Nicholson or Einasleigh groundwater management areas must be in accordance with Chapter 5, Part 3, Division 2 sections 84 to 90 of the Water Resource (Gulf) Plan 2007.
- (2) The chief executive may require a person interested in obtaining a water licence to take unallocated groundwater from the Nicholson or Einasleigh groundwater management areas to—
  - (a) investigate the likely impact the proposed taking of water may have on groundwater or surface water flows; and
  - (b) give the result of the investigation to the chief executive.

**40 Special conditions for licences granted from the strategic reserve**

Water licences granted from the strategic reserve for the following State purposes must include a condition on the licence that the authorisation returns to the State on the conclusion of—

- (a) a project of State significance; or
- (b) a project of regional significance.

**41 to 51 Section numbers not used**

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## **Chapter 3      Granting, converting and amending authorisations**

### **Part 1              Granting of resource operations licences**

#### **52              Resource operations licence**

- (1) The chief executive must grant a resource operations licence to—
  - (a) SunWater Limited for the Julius Dam Water Supply Scheme; and
  - (b) Mount Isa Mines Limited for the Moondarra Dam Water Supply Scheme.
- (2) The infrastructure associated with the resource operations licence is described in—
  - (a) for the Julius Dam Water Supply Scheme—Attachment 6(a) of this plan; and
  - (b) for the Moondarra Dam Water Supply Scheme—Attachment 6(b) of this plan.
- (3) Water allocations managed under the resource operations licences mentioned in subsection 1 are described in—
  - (a) for the Julius Dam Water Supply Scheme—Attachment 7, tables 1 and 2 of this plan; and
  - (b) for the Moondarra Dam Water Supply Scheme—Attachment 8 table 1 of this plan.

### **Part 2              Granting of a distribution operations licence**

#### **53              Distribution operations licence**

- (1) The chief executive must grant a single distribution operations licence to—
  - (a) Mount Isa Water Board for the Julius Dam and the Moondarra Dam water supply schemes.
- (2) The infrastructure associated with the distribution operations licence is described in—Attachment 6(c) of this plan.
- (3) Water allocations distributed under the distribution operations licence are described in—
  - (a) for the Julius Dam Water Supply Scheme—Attachment 7, table 1 of this plan; and
  - (b) for the Moondarra Dam Water Supply Scheme—Attachment 8, table 1 of this plan.

### **Part 3              Rules for converting to and granting of water allocations**

#### **54              Application of this part**

This part sets out the rules for converting existing water authorisations to water allocations and the granting of water allocations.



## **55 Rules for converting existing water authorisations to supplemented water allocations under section 44 of the Water Resource (Gulf) Plan 2007**

- (1) This section applies to the water authorisations described in section 44 of the Water Resource (Gulf) Plan 2007.
- (2) The authorisations must be converted to water allocations in accordance with section 52 of the Water Resource (Gulf) Plan 2007.
- (3) The authorisations must be converted to supplemented water allocations as follows—
  - (a) the person granted the water allocation must be the person who holds the existing water authorisation from which the water allocation is converted;
  - (b) the location for the water allocation must be in accordance with section 53 of the Water Resource (Gulf) Plan 2007;
  - (c) the purpose for the water allocation must be in accordance with section 54 of the Water Resource (Gulf) Plan 2007;
  - (d) the nominal volume for the water allocation must be in accordance with section 55 of the Water Resource (Gulf) Plan 2007; and
  - (e) the priority group for the water allocation must be in accordance with section 56 of the Water Resource (Gulf) Plan 2007.

## **56 Granting of supplemented water allocations**

The chief executive must grant supplemented water allocations for—

- (a) existing water authorisations converted under section 49 of the Water Resource (Gulf) Plan 2007—in accordance with Attachment 7, tables 1 and 2 of this plan;
- (b) existing water authorisations under section 50 of the Water Resource (Gulf) Plan 2007—in accordance with Attachment 8 table 1 of this plan; and
- (c) existing water authorisations under section 51 of the Water Resource (Gulf) Plan 2007—in accordance with Attachment 7 table 1 and Attachment 8 table 1 of this plan.

# **Part 4 Granting or amending existing water licences**

## **57 Application of Part 4**

This part gives effect to Chapter 5, Part 2, Division 3, Subdivision 4 of the Water Resource (Gulf) Plan 2007.

## **58 Amending water licences**

- (1) This section—
  - (a) applies to each existing water licence, for which the water licence number is listed in Attachment 9, table 1 of this plan; and
  - (b) amends existing water licences that are inconsistent with the Water Resource (Gulf) Plan 2007 to state—
    - (i) the purpose for which water may be taken;
    - (ii) the maximum rate at which water may be taken;
    - (iii) the daily volumetric limit;
    - (iv) the annual volumetric limit; and
    - (v) conditions as are appropriate.

- (2) Within 120 business days of the commencement of this plan, the chief executive, in accordance with section 217 of the *Water Act 2000*, must amend each water licence to which this section applies.
- (3) Each water licence amended under this section must include the terms and conditions as detailed for the water licence in Attachment 9, table 1 of this plan.

## **59 Granting water licences**

- (1) This section grants water licences to replace part of an existing water authorisation that is inconsistent with the Water Resource (Gulf) Plan 2007.
- (2) Within 120 business days of the commencement of this plan, the chief executive, in accordance with section 212 of the *Water Act 2000*, must grant each water licence listed in Attachment 9, table 2 of this plan.
- (3) Each water licence granted under this section must include the terms and conditions as detailed for the water licence in Attachment 9, table 2 of this plan.

# **Part 5 Granting or amending a resource operations licence to meet future water requirements**

## **60 Scope of part 5**

This part applies to amending the resource operation licence other than where an amendment of the resource operations licence is required under section 111 of the *Water Act 2000*.

## **Division 1 Amendment by the chief executive—*Water Act 2000*, section 111A**

## **61 Amending a resource operations licence by chief executive**

- (1) The chief executive may, at any time, amend a resource operations licence.
- (2) Before the chief executive acts under subsection 1, the chief executive must give the holder of the resource operations licence notice of the proposed amendment.
- (3) The notice must—
  - (a) state the following—
    - (i) a summary of the proposed amendment;
    - (ii) the reasons for the proposed amendment;
    - (iii) that written submissions may be made by the holder about the proposed amendment; and
    - (iv) the day by which, the person to whom, and the place where, the submissions must be made.
  - (b) include a copy of the proposed amendment.
- (4) The day stated under subsection 3(a)(iv) must be at least 30 business days after the day the notice is given.

## **62 Matters chief executive must consider**

- (1) Prior to deciding whether to amend a resource operations licence, the chief executive must consider—
  - (a) any requirements specified under the Water Resource (Gulf) Plan 2007;

- (b) any submissions made by the resource operations licence holder about the proposed amendment;
- (2) Subsection 1 does not limit the matters the chief executive may consider.

**63 Deciding whether to amend resource operations licence**

- (1) If the chief executive is satisfied that the resource operations licence should be amended, the chief executive must amend the resource operations licence under section 111A of the *Water Act 2000*.
- (2) If the chief executive is not satisfied that the resource operations licence should be amended, the chief executive must, within 30 business days, notify the resource operations licence holder.

**Division 2                      Amendment requested by the holder—Water Act 2000, section 111A**

**64 Amending a resource operations licence on application by holder**

- (1) The holder of the resource operations licence may make an application to the chief executive requesting an amendment of the licence.
- (2) The application must—
  - (a) be in the approved form;
  - (b) include a summary of the amendment required and the reasons for the amendment; and
  - (c) be accompanied by the prescribed fee.
- (3) The chief executive may give a copy of the application to any entity the chief executive considers appropriate.

**65 Additional information may be required**

- (1) The chief executive may, by notice, require—
  - (a) the holder to give additional information about the application; or
  - (b) any information included in the application, or any additional information required under subsection 1(a) to be verified by statutory declaration.
- (2) If the holder does not, without reasonable excuse, comply with the requirement within the reasonable time stated in the notice, the application lapses.

**66 Matters chief executive must consider**

- (1) For deciding the application, the chief executive must consider—
  - (a) any requirements specified under the Water Resource (Gulf) Plan 2007;
  - (b) any additional information given about the application; and
  - (c) any information provided to the chief executive from entities referred to in section 64(3) of this plan.
- (2) Subsection 1 does not limit the matters the chief executive may consider.

**67 Deciding whether to amend resource operations licence**

- (1) Where the chief executive is satisfied that the application to amend a resource operations licence should be approved, the chief executive must approve the application—

- (a) wholly, or in part; and
  - (b) with or without conditions.
- (2) In amending a resource operations licence under this section, the chief executive must comply with the requirements of Section 111A of the *Water Act 2007*.
- (3) Where the chief executive is not satisfied that the resource operations licence should be amended, the chief executive must, within 30 business days, notify the resource operations licence holder.

**68 to 82      Section numbers not used**

## **Chapter 4            Moondarra Dam and Julius Dam Water Supply Schemes**

### **83            Application of chapter 4**

This chapter applies to—

- (a) the resource operations licence holder for the Julius Dam Water Supply Scheme;
- (b) the resource operations licence holder for the Moondarra Dam Water Supply Scheme;
- (c) the distribution operations licence holder for the Julius Dam and Moondarra Dam water supply schemes;
- (d) all water allocations associated with the Julius Dam Water Supply Scheme; and
- (e) all water allocations associated with the Moondarra Dam Water Supply Scheme.

## **Part 1                    Distribution operating arrangements for Julius and Moondarra Dam Water Supply Schemes**

### **84            Accounting for distribution losses**

- (1) This section applies in determining the volume used as distribution loss by the holder of the distribution operations licence (the holder) in operating the holder's water distribution infrastructure.
- (2) The holder must prepare and submit for the chief executive's approval, the method to be used by the holder for calculating the volume of water used as distribution loss from each of the water supply schemes to which the holder's distribution operations licence applies.
- (3) For the purpose of subsection 2—
  - (a) water losses from Clear Water Lagoon are not to be accounted for as distribution loss; and
  - (b) the distribution loss for the Julius Water Supply Scheme is the volume of water taken by the holder from Julius Dam in the water year minus the volume of water from Julius Dam that is supplied to the holder's customers; and
  - (c) the distribution loss for the Moondarra Water Supply Scheme is the volume of water taken by the holder from Moondarra Dam in the water year minus the volume of water from Moondarra Dam that is supplied to the holder's customers and minus the water losses from Clear Water Lagoon.
- (4) In this section—
  - (a) Clear Water Lagoon—means the 1500 megalitre dam located adjacent to Moondarra Dam, which is owned and operated by the holder and which is used to store water pumped by the holder from Moondarra and Julius dams.
  - (b) Water losses from Clear Water Lagoon—means water that seeps, leaks, evaporates or overflows from the storage area of Clear Water Lagoon.

## Part 2 Water sharing rules

### 85 Announced allocation

- (1) The resource operations licence holder (the holder) for the holder's water supply scheme must—
  - (a) determine an announced allocation for each priority group 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 part, to calculate announced allocations throughout the water year;
  - (c) calculate and set the announced allocation for each priority group 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 fifth business day following—
      - (A) the first day of every month; and
      - (B) for the Moondarra Water Supply Scheme, the commencement of critical water supply arrangements for the scheme.
    - (ii) reset the announced allocation only if a recalculation indicates that the announced allocation would—
      - (A) increase by five or more percentage points; or
      - (B) increase to 100 per cent.
  - (e) make public, details of the announced allocation, including parameters for determining the announced allocation, on the holder's internet site within five business days of—
    - (i) setting an announced allocation under subsection (c); or
    - (ii) when resetting the announced allocation under subsection (d).
- (2) The announced allocation—
  - (a) must not be less than zero or greater than 100 per cent;
  - (b) must be rounded to the nearest per cent; and
  - (c) must not be reduced during the water year.

### 86 Calculation of announced allocation for high priority groups (Julius Dam Water Supply Scheme)

- (1) The resource operations licence holder for the Julius Dam Water Supply Scheme must determine the announced allocation for water allocations within the Julius Dam Water Supply Scheme using the announced allocation formula for high priority water allocations in formula 1—

$$\text{Formula 1} \quad 100 \times \left( \frac{UVJ + H^{DIV}}{H} \right)$$

**Table 2. Parameters used in the announced allocation**

Term	Definition
UVJ Useable volume (ML)	<p>The useable storage volume of Julius Dam</p> $UVJ = CV - NOV - SL$ <p>UVJ = 0 if (CV – NOV – SL) is less than zero</p> <p>CV = current storage volume in Julius Dam</p> <p>NOV = 8190ML</p> <p>SL = the projected storage loss for Julius Dam is determined by dividing the surface area (Attachment 10, table 1) at the time of calculation by the surface area at full supply volume, and multiplying the resultant factor by the modelled storage loss for the month (table 3) in which the announced allocation is being calculated.</p>
H High priority water allocations (ML)	H is the total nominal volume of high priority water allocations.
H <sup>DIV</sup> High priority diverted volume (ML)	H <sup>DIV</sup> is the volume of water taken under high priority water allocations in a water year up to the time of assessment of the announced allocation.

**Table 3. Storage loss volume for Julius Dam**

Month in which announced allocation is calculated	Maximum storage loss to end of water year (ML)
July	23 509
August	22 063
September	20 252
October	18 240
November	17 338
December	14 798
January	12 468
February	10 549
March	8173
April	5520
May	3403
June	1670

**87 Moondarra Dam critical water supply arrangements**

- (1) For the purpose of this part, critical water supply arrangements for the Moondarra Dam Water Supply Scheme apply when decided by the chief executive or when—
  - (a) the volume of water stored in Moondarra Dam is less than 35 per cent of its full supply volume; and
  - (b) the resource operations licence holder for the Moondarra Dam Water Supply Scheme has—
    - (i) consulted with the holder of the distributions operations licence and the holders of all water allocations for the Moondarra Dam Water Supply Scheme; and
    - (ii) following such consultation, decided that it is necessary to allow water to be taken from Moondarra Dam after the volume of water stored in Moondarra Dam is less than or equal to 25 per cent of its full supply volume.

- (2) In determining if critical water supply arrangements apply, the resource operations licence holder must consider—
  - (a) the effects that taking water would have on the quality of water in Moondarra Dam;
  - (b) the sufficiency of water supply available to customers of the distribution operations licence holder under water allocations held by those customers for the Julius Dam Water Supply Scheme;
  - (c) any implications for the holder of the distribution operations licence;
  - (d) the requirements of any relevant drought management plan or arrangements for water demand management developed by the customers of the distribution operations licence holder.
- (3) The resource operations licence holder must—
  - (a) within five business days of being notified by the chief executive that critical water supply arrangements apply or making a decision under subsection 1(b)(ii), notify the holder of the distribution operations licence and the holders of all water allocations for the Moondarra Dam Water Supply Scheme that critical water supply arrangements apply for the scheme; and
  - (b) notify the chief executive, the holder of the distribution operations licence, and the holders of all water allocations for the Moondarra Dam Water Supply Scheme when the critical water supply arrangements no longer apply.

## 88 Calculation of announced allocations for medium priority groups (Moondarra Dam allocations)

- (1) Other than in circumstances when critical water supply arrangements apply, the resource operations licence holder for the Moondarra Dam Water Supply Scheme (the holder) must determine the announced allocation for medium priority water allocations within the Moondarra Dam Water Supply Scheme using formula 2.

**Formula 2** 
$$100 \times \left( \frac{UVM + M^{DIV}}{M} \right)$$

- (2) In those circumstances when critical water supply arrangements apply, the holder must determine the announced allocation for medium priority water allocations within the Moondarra Dam Water Supply Scheme using formula 3.

**Formula 3** 
$$100 \times \left( \frac{MUV + M^{DIV}}{M} \right)$$

- (3) The parameters used in Formulas 2 and 3 are defined in Table 4.



**Table 4. Parameters used in the announced allocation**

Term	Definition
<b>UVM</b> Usable volume (ML)	<p>The useable storage volume of Moondarra Dam</p> $UVM = CV - NOV - LA - CWL \text{ Loss (UVM = 0 if } CV - NOV - LA - CWL \text{ Loss is less than zero)}$ <p>LA = is the allowance for losses above that which can be accommodated from the nominal operating volume and is determined by subtracting the nominal operating volume from the storage loss volume. <math>LA = SL - NOV</math> (<math>LA = 0</math> if <math>SL - NOV</math> is less than zero).</p> <p>CV = current storage volume in Moondarra Dam</p> <p>NOV = nominal operating volume 26,708ML (25 per cent of the full supply volume)</p> <p>SL = the projected storage loss for Moondarra Dam is determined by dividing the surface area (Attachment 10 table 2) at the time of calculation by the surface area at full supply volume, and multiplying the resultant factor by the storage loss for the month (table 5) in which the announced allocation is being calculated.</p> <p>CWL Loss = the projected storage loss from Clear Water Lagoon for the remainder of the water year. Storage loss volumes are provided in table 6.</p>
<b>MUVM</b> Maximum usable volume (ML)	<p>The maximum useable storage volume of Moondarra Dam</p> $MUVM = CV - DSV - SL - CWL \text{ Loss}$ <p>UVM = 0 if <math>(CV - DSV - SL - CWL \text{ Loss})</math> is less than zero</p> <p>CV = current storage volume in Moondarra Dam</p> <p>DSV = 3,640ML (dead storage volume)</p> <p>SL = the projected storage loss for Moondarra Dam is determined by dividing the surface area (Attachment 10) at the time of calculation by the surface area at full supply volume, and multiplying the resultant factor by the storage loss for the month (table 5) in which the announced allocation is being calculated.</p> <p>CWL Loss = the projected storage loss from Clear Water Lagoon for the remainder of the water year. Storage loss volumes are provided in table 6.</p>
<b>M</b> Medium priority water allocations (ML)	M is the total nominal volume of medium priority water allocations.
<b>M<sup>DIV</sup></b> Medium priority diverted volume (ML)	The volume of water taken under medium priority water allocations in a water year up to the time of assessment of the announced allocation.

**Table 5. Storage loss volume for Moondarra Dam**

Month in which announced allocation is calculated	Maximum storage loss to end of water year (ML)
July	34 661
August	32 313
September	29 063
October	25 487
November	21 434
December	19 394
January	17 833
February	15 976
March	13 121
April	8 745
May	5 473
June	2 536

**Table 6. Projected storage loss for Clear Water Lagoon**

Month in which announced allocation is calculated	Maximum storage loss to end of water year (ML)
July	1290
August	1217
September	1128
October	1022
November	894
December	761
January	620
February	483
March	365
April	247
May	149
June	70

## **Part 3 Dealing with water allocations**

### **89 Scope of part 3**

This part provides for dealings with water allocations managed for the Julius Dam and Moondarra Dam water supply schemes.

### **Division 1 Subdivisions or amalgamation of water allocations**

#### **90 Permitted subdivisions and amalgamations**

- (1) Subdivision of a water allocation is permitted where—
  - (a) the sum of the nominal volumes of the new water allocations is equal to the nominal volume of the water allocation that is being subdivided; and
  - (b) the location and priority group of the new water allocations are the same as that of the water allocation that is being subdivided.
- (2) Amalgamation of water allocations is permitted where—
  - (a) the nominal volume of the new water allocation is equal to the sum of the nominal volumes of the water allocations that are being amalgamated; and
  - (b) the location and priority group of the water allocations that are being amalgamated are the same.

#### **91 Prohibited subdivisions or amalgamations**

- (1) Subdivision of a water allocation is prohibited where—
  - (a) the sum of the nominal volumes of the new water allocation is not equal to the nominal volume of the water allocation that is being subdivided; or
  - (b) the location and priority group of the new water allocations are not the same as that of the water allocation that is being subdivided.
- (2) Amalgamation of a water allocation is prohibited where—

- (a) the nominal volume of the new water allocation is not equal to the sum of the nominal volumes of the water allocations that are being amalgamated; or
- (b) the location and priority group of the water allocations that are being amalgamated are not the same.

## **Division 2                      Water allocation change rules**

### **Subdivision 1                      Prohibited changes**

#### **92                      Prohibited changes**

The following changes are prohibited—

- (a) a change to a location;
- (b) a change of the resource operations licence under which the water allocation is managed;
- (c) a change to a priority group other than a priority group stated for the water supply scheme to which the water allocation applies in the Water Resource (Gulf) Plan 2007.

### **Subdivision 2                      Assessed changes to water allocations**

#### **93                      Change of purpose from ‘distribution loss’**

- (1) The holder of a water allocation that states the purpose as ‘distribution loss’ may apply to the chief executive under section 129A of the *Water Act 2000* to change the purpose of the water allocation to ‘any’.
- (2) The water allocation holder must provide a report with the application that demonstrates—
  - (a) the distribution operations licence holder has achieved a permanent efficiency gain in the distribution of water within the associated delivery system;
  - (b) the reduction in distribution losses specified as an annual volume that will result directly from the works or operational changes;
  - (c) that there is sufficient volume held under water allocations to provide for distribution losses within the system;
  - (d) that the proposed change meets the Water Resource (Gulf) Plan 2007 objectives; and
  - (e) any other matters the chief executive considers appropriate.
- (3) The chief executive must consider the information supplied by the applicant under subsection (2) in deciding the application under section 134 of the *Water Act 2000*.

### **Subdivision 3                      Other changes to water allocations**

#### **94                      Application for changes not specified as permitted or prohibited**

An application for a change to a water allocation that is not specified as permitted or prohibited or assessed may be made in accordance with section 130 of the *Water Act 2000*.

## **Part 4                      Seasonal water assignment rules**

### **95              Seasonal water assignment rules**

- (1) The holder of a water allocation to which this chapter applies may enter into an arrangement for a seasonal water assignment (the arrangement) in relation to the water allocation under section 146B of the *Water Act 2000*.
- (2) Despite subsection 1, the holder of the water allocation may only enter into the arrangement if—
  - (a) the zone from which water would be taken under the arrangement is the zone to which the water allocation applies;
  - (b) the water allocation is for a purpose other than ‘distribution loss’; and
  - (c) the relevant scheme licence holder consents to the arrangement;
- (3) the scheme licence holder referred to in subsection 2(c) is—
  - (a) the distribution operations licence holder for arrangements where the distribution operations licence holder distributes to the assignee; and
  - (b) the resource operations licence holder for arrangements where the resource operations licence holder distributes to the assignee.

### **96 to 110              Section numbers not used**

## Chapter 5 Dealing with water licence applications

### 111 Water licence applications to which this chapter applies

- (1) This chapter applies to each application for a water licence made under section 206 of the *Water Act 2000* if granting the application would have one or more of the following effects on water to which this plan applies—
  - (a) increase the annual volumetric limit for taking water;
  - (b) increase the interference with water;
  - (c) increase the maximum rate for taking the water;
  - (d) change the location from which water may be taken; or
  - (e) change the flow conditions under which the water may be taken.
- (2) This chapter applies even if the application was made before the commencement of this plan.
- (3) This chapter does not apply to—
  - (a) an application made under the following provisions of the *Water Act 2000*—
    - (i) section 221—reinstating an expired water licence;
    - (ii) section 224—amalgamating water licences;
    - (iii) section 225—subdividing a water licence; and
    - (iv) section 229—effect of disposal of part of land to which water licence to take water attaches.
  - (b) an application made in accordance with chapter 2 of this plan;
  - (c) an application to interfere with, or increase the interference with, water in a watercourse, lake or spring by impounding the flow of the water made in accordance with the process stated in section 43 of the Water Resource (Gulf) Plan 2007;
  - (d) an application to interfere with water by artificially improving or changing the course of a watercourse or lake or spring.

### 112 Applications to be refused

The chief executive must refuse an application to which this chapter applies unless this chapter explicitly provides for granting the application.

### 113 Application to increase the maximum rate at which water may be taken

- (1) This section applies to an application to amend an existing water licence to increase the maximum rate at which water may be taken.
- (2) The chief executive may grant the application if there is an existing development permit associated with the existing water licence and—
  - (a) the maximum rate specified on the water licence is less than—
    - (i) if the existing development permit states a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the rate stated in Schedule 12, column 2 of the Water Resource (Gulf) Plan 2007;
    - (ii) if the existing development permit states a pump size other than a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the rate decided by the chief executive having regard to the rates stated for similar pump sizes in Schedule 12, column 2 of the Water Resource (Gulf) Plan 2007.

- (b) where Schedule 12 of the Water Resource (Gulf) Plan 2007 does not apply, the works authorised by an existing development permit have the capacity to take water at a rate greater than the maximum rate specified on the existing water licence.
- (3) The chief executive must refuse the application if the maximum rate sought under the application exceeds—
  - (a) if there is an existing development permit associated with the licence that states a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the rate stated in Schedule 12, column 2 of the Water Resource (Gulf) Plan 2007;
  - (b) if there is an existing development permit associated with the licence that states a pump size other than a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the rate decided by the chief executive having regard to the rates stated for similar pump sizes in Schedule 12, column 2 of the Water Resource (Gulf) Plan 2007;
  - (c) the rate at which the works authorised by an existing development permit are capable of taking water.

#### **114 Application to increase the daily volumetric limit**

- (1) This section applies to an application to amend an existing water licence to increase the daily volumetric limit.
- (2) The chief executive may grant the application if there is an existing development permit associated with the water licence and—
  - (a) the daily volumetric limit specified on the water licence is less than—
    - (i) if the existing development permit states a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the daily volumetric limit stated in Schedule 12, column 3 of the Water Resource (Gulf) Plan 2007;
    - (ii) if the existing development permit states a pump size other than a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the daily volumetric limit decided by the chief executive having regard to the limits stated for similar pump sizes in Schedule 12, column 3 of the Water Resource (Gulf) Plan 2007;
    - (iii) where schedule 12 of the Water Resource (Gulf) Plan 2007 does not apply, the works associated with an existing development permit have the capacity to take water at a rate greater than the daily volumetric limit specified on the water licence.
- (3) The chief executive must refuse the application if the daily volumetric limit applied for exceeds—
  - (a) if there is an existing development permit associated with the licence that states a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the daily volumetric limit stated in Schedule 12, column 3 of the Water Resource (Gulf) Plan 2007;
  - (b) if there is an existing development permit associated with the licence that states a pump size other than a pump size mentioned in Schedule 12, column 1 of the Water Resource (Gulf) Plan 2007—the daily volumetric limit decided by the chief executive having regard to the limits stated for similar pump sizes in Schedule 12, column 3 of the Water Resource (Gulf) Plan 2007;
  - (c) the maximum volume the works authorised by an existing development permit are capable of taking in a day.

**115 Application to take water for stock and domestic purposes**

- (1) This section applies to an application to take water from a watercourse, lake or spring, where—
  - (a) the application is for taking water for stock purposes or domestic purposes; and
  - (b) the location from which water is proposed to be taken is—
    - (i) not within any of the zones in Attachment 3 of this plan; and
    - (ii) not within any of the relocation zones in Attachment 4 of this plan.
- (2) The chief executive may grant the application, only if the chief executive is satisfied that—
  - (a) the applicant does not have another water entitlement to take water for the land to which the application applies;
  - (b) the land to which the application relates does not have access to a suitable alternative water supply, including, but not limited to, a reticulated water supply;
  - (c) there is no unallocated water from which the applicant may obtain a water entitlement; and
  - (d) the plan of survey for the land to which the application applies was registered before the commencement of this plan.
- (3) A licence to which this section applies can only be granted for stock purposes and domestic purposes.
- (4) In this section—
  - (a) plan of survey has the meaning given by the *Land Title Act 1994*, schedule 2.
  - (b) stock purposes and domestic purposes have the meanings given by the *Water Act 2000*.

**Part 1 Transferring of water licences**

This part applies to an application made about a water licence under section 223 of the *Water Act 2000*.

**116 Scope of part 1**

This part applies to section 15A of the Water Regulation 2002.

- (1) This part applies to water licences that authorise taking water from the Gilbert River at a location within—
  - (a) relocation zones 3, 4 and 5 (see Attachment 4) which are not subject to a flow condition; or
  - (b) relocation zone 6 (see Attachment 4) which are subject to a flow condition.
- (2) For the purpose of this part—
  - (a) Original water licence means a water licence proposed to be transferred;
  - (b) Proposed water licence means the water licence or water licences that would be granted to give effect to the proposal to transfer all or part of the original water licence;
  - (c) A water licence with a stated flow condition means a water licence with a condition detailed in attachment 9, table 3.

**117 Water licence transfer rules**

- (1) The original water licence may only be transferred if it—
  - (a) states the elements of a water licence to take unsupplemented surface water as required under section 70 of the Water Resource (Gulf) Plan 2007
  - (b) is a metered entitlement in accordance with the Water Regulation 2002.
- (2) Transfer of all or part of a water licence must not increase the volume of water that may be taken under the original water licence.

**118 Dealing with an application to transfer a water licence that is not subject to a flow condition**

- (1) This section applies to an application to transfer all or part of a water licence that—
  - (a) is not subject to a flow condition; and
  - (b) authorises taking water at a location that is within relocation zones 3, 4 or 5.
- (2) The chief executive may grant an application only if granting the application would not—
  - (a) result in the location from which water may be taken under the proposed licence or licences being in a location other than in relocation zones 3, 4 or 5;
  - (b) result in the total annual volumetric limit, for all water licences and seasonal water assignments in the relocation zone from which the proposed water licence or water licences will take water, exceeding the maximum annual volumetric limit for that relocation zone as shown in table 7 column 3.

**Table 7. Gilbert River—Relocation zones for licences to take water that are not subject to a flow condition**

Relocation zone name	AMTD range (km)	Maximum annual volumetric limit (ML)
Relocation zone 3	263 – 275	1800
Relocation zone 4	275 – 282	600
Relocation zone 5	282 – 317	2682

**119 Dealing with an application to transfer a water licence that is subject to a flow condition**

- (1) This section applies to an application to transfer all or part of a water licence that—
  - (a) is subject to a flow condition; and
  - (b) authorises taking water within relocation zone 6 as shown in table 8.
- (2) The chief executive may grant the application only if granting the application—
  - (a) will not result in a change to the flow condition under which water may be taken for the original water licence;
  - (b) will not result in a change to the relocation zone from which water may be taken.

**Table 8. Gilbert River—Relocation zone for licences to take water that are subject to a flow condition**

Relocation zone name	AMTD range (km)
Relocation zone 6	260 – 320



## Part 2                      Seasonal water assignment under water licences

### 120        Scope of part 2

This part provides for seasonal water assignment of water licences that authorise taking water from the Gilbert River at a location within—

- (a) relocation zones 3, 4 and 5 which are not subject to a flow condition; or
- (b) relocation zone 6 which are subject to a flow condition.

### 121        Seasonal water assignment rules

- (1) The licensee of a water licence mentioned in section 120 of this plan may apply for a seasonal water assignment only if the water licence—
  - (a) states the elements of a water licence to take unsupplemented surface water as required under section 70 of the Water Resource (Gulf) Plan 2007; and
  - (b) is a metered entitlement in accordance with the Water Regulation 2002.
- (2) For water licences located in relocation zones 3, 4 or 5 that are not subject to a flow condition the chief executive may approve a seasonal water assignment of all or part of the water that may be taken under a water licence only where—
  - (a) the seasonal water assignment will be for taking water from a location within relocation zone 3, 4 or 5;
  - (b) the water licence does not have a condition that requires the water taken to be stored in particular works;
  - (c) the volume of the seasonal water assignment is no greater than the unused annual volumetric limit that may be taken under the authority of the water licence;
  - (d) the daily volumetric limit for the seasonal water assignment is in proportion to the share of the unused volume being seasonally assigned; and
  - (e) the seasonal water assignment will not result in the total annual volumetric limit, for all water licences and seasonal water assignments that are not subject to a flow condition in the relocation zone from which the seasonal water assignment will take water, exceeding the maximum annual volumetric limit for the relocation zone shown in table 7 column 3.
- (3) For water licences located in relocation zone 6 that are subject to a flow condition detailed in attachment 9, table 3 the chief executive may approve a seasonal water assignment of a water licence only where—
  - (a) the seasonal water assignment will be for taking water from a location within relocation zone 6;
  - (b) the water licence is subject to a condition detailed in attachment 9, table 3;
  - (c) the water licence does not have a condition that requires the water taken to be stored in particular works;
  - (d) the flow condition under which water may be taken under seasonal water assignment is the same as the flow condition for the water licence being seasonally assigned;
  - (e) the volume of the seasonal water assignment plus the volume of water that is not seasonally assigned is no greater than the annual volumetric limit that may be taken under the authority of the water licence; and
  - (f) the daily volumetric limit is in proportion to the share of the volume being seasonally assigned.

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## **Part 3                      Granting water licences for taking overland flow water**

### **122        Scope of part 3**

For granting a licence under section 212 of the *Water Act 2000*, this part states—

- (a) for section 80 of the Water Resource (Gulf) Plan 2007, the process for granting or amending a water licence to replace the authority under section 79(3) of the Water Resource (Gulf) Plan 2007;
- (b) matters the chief executive must consider;
- (c) conditions the chief executive must include on the licence; and
- (d) requirements for certified reports for an overland flow storage.

### **123        Granting or amending a water licence in accordance with section 79 of the water resource plan**

- (1) The chief executive may at any time—
  - (a) grant a licence for taking overland flow water to replace the authority under section 79 of the Water Resource (Gulf) Plan 2007;
  - (b) amend a licence granted under subsection 1(a).
- (2) Before granting or amending a water licence under subsection 1, the chief executive must issue a notice to the owner of the land—
  - (a) requesting that the owner of the land clearly identify the existing works that take overland flow water;
  - (b) stating that the chief executive intends to grant or amend a water licence for taking overland flow water using the works;
  - (c) requesting additional information including, but not limited to the pattern of water use from the works based on the water requirements and purpose for which the water is used; and
  - (d) providing any other information required by the chief executive.
- (3) A notice under subsection 2 may also require the owner of the land to provide, in accordance with section 124 of this plan, a certified report about the take of overland flow water using the works.
- (4) In making a decision about granting or amending a licence under subsection 1, the chief executive must consider—
  - (a) any relevant information available to the chief executive about the works;
  - (b) the certified report about the works; and
  - (c) any other matters the chief executive considers relevant.

### **124        Certified reports for overland flow works**

- (1) For the purpose of this part, a certified report is a report prepared in accordance with the standards and requirements set out in a notice provided by the chief executive.
- (2) The purpose of the certified report is to provide the chief executive with an accurate representation of—
  - (a) the infrastructure to which the report relates;

- (b) the operation of the infrastructure; and
- (c) the ability of the infrastructure to take overland flow water;
- (3) The chief executive may require that the certified report be verified and signed by a Registered Professional Engineer.

## **125 Contents and conditions for a water licence to take overland flow water**

A water licence for taking overland flow water—

- (a) must state the purpose for which water may be taken under the licence as either—
  - (i) rural; or
  - (ii) any.
- (b) must state at least one of the following—
  - (i) the maximum stored volume;
  - (ii) the maximum rate at which the water may be taken under the licence;
  - (iii) the daily volumetric limit for the licence;
  - (iv) the annual volumetric limit for the licence;
  - (v) the mean annual volume for the licence.
- (c) may state conditions for the licence, including flow conditions and conditions for storing water taken under the licence.

## **Part 4 Water licences used in conjunction with overland flow works**

### **126 Application to amend a water licence to change a condition**

- (1) This section applies to an application to amend a water licence to change a condition that requires water taken under the licence to be stored in particular works used to take overland flow water.
- (2) If the chief executive decides to grant the application, the chief executive must issue a water licence for taking overland flow water to the applicant in accordance with part 3 of this chapter.

### **127 to 137 Section numbers not used**

## **Chapter 6      Monitoring and reporting**

### **138      Water monitoring**

- (1) The chief executive must measure or collect, and keep publicly available, records of—
  - (a) water quantity;
  - (b) water taken;
  - (c) prices for water allocations permanently traded;
  - (d) the number of water allocations and water licences permanently traded and seasonally assigned; and
  - (e) nominal volume of water allocations permanently traded and the volume of water seasonally assigned.
- (2) The chief executive must collect and record publicly available information on—
  - (a) future consumptive demands for water; and
  - (b) water use efficiency.
- (3) The chief executive may use information collected to support water resource assessment and reporting.

### **139      Natural ecosystems monitoring**

The chief executive must collect and keep publicly available information, including information on—

- (a) ecological assets that are linked to the ecological outcomes of the Water Resource (Gulf) Plan 2007; and
- (b) the critical water requirements of ecological assets, including the provision of these requirements under the Water Resource (Gulf) Plan 2007.

### **140      Assessment**

The chief executive must assess the data measured, collected and recorded under sections 138 and 139 of this plan against the outcomes specified in the Water Resource (Gulf) Plan 2007.

### **141 to 151      Section numbers not used**

## Chapter 7 Scheme licence holder monitoring and reporting

### 152 Scope of chapter 7

This chapter sets out the monitoring and reporting requirements that apply to—

- (a) the scheme licence holders for the Julius Dam Water Supply Scheme and the Moondarra Dam Water Supply Scheme; and
- (b) all water allocations associated with the Julius Dam Water Supply Scheme and the Moondarra Dam Water Supply Scheme.

## Part 1 Scheme licence holder monitoring

### Division 1 Water quantity

#### 153 Storage water level data

The resource operations licence holder (the holder) must record storage water level data for the holder's water supply scheme in accordance with table 9.

**Table 9. Storage water level data**

Location	Continuous time series storage water level data
Moondarra Dam	✓
Julius Dam	✓

#### 154 Announced allocations

The resource operations licence holder (the holder) must record details of announced allocation determinations for the holder's water supply scheme including—

- (a) the announced allocations for high and medium priority allocations;
- (b) the date announced allocations are determined; and
- (c) the value of each parameter applied for calculating the announced allocation.

#### 155 Water taken by water users

- (1) For subsection (2), the responsible scheme licence holder means—
  - (a) the distribution operations licence holder for water allocations distributed by the distribution operations licence holder; and
  - (b) the resource operations licence holder for other water distributed directly by the resource operations licence holder.
- (2) The responsible scheme licence holder must record the volume of water, including distribution loss water, taken by each water user for each storage as follows—
  - (a) the total volume of water taken each quarter;
  - (b) the total volume of water entitled to be taken at any time; and
  - (c) the basis for determining the total volume of water entitled to be taken at any time.

**156 Seasonal water assignment from a water allocation**

- (1) The scheme licence holder that approves a seasonal water assignment, in accordance with section 95 of this plan, must, on approval of any seasonal water assignment, notify the other scheme licence holder.
- (2) The scheme licence holder that approves a seasonal water assignment in accordance with section 95 of this plan, must record details of the seasonal water assignment arrangements including—
  - (a) the volume of water that has been seasonally assigned;
  - (b) the name of both the assignor and the assignee; and
  - (c) the effective date of seasonal water assignments.

**Division 2 Impact of storage operation on aquatic ecosystems****157 Water quality**

The resource operations licence holder, in accordance with section 12 of this plan, must record water quality data for the holder's water supply scheme.

**158 Fish stranding**

The resource operations licence holder must record and assess reported instances of fish stranding associated with the operation of the holder's water supply scheme to determine if any instance is associated with the operation of that infrastructure.

**Division 3 Data transfer****159 Transfer of data by distribution operations licence holder**

The distribution operations licence holder must, when requested by the resource operations licence holder, transfer all data measured, collected and recorded to the resource operations licence holder for the Julius Dam and/or Moondarra Dam water supply schemes—

- (a) that is reasonably required for the resource operations licence holder to comply with the rules and requirements of this plan; and
- (b) within 15 business days of a request being made, or another timeframe if agreed to by the distribution operations licence holder and resource operations licence holder.

**160 Monitoring data must be made available**

The scheme licence holders must transfer any monitoring data required under this chapter to the chief executive upon request, and within the time requested.

**Part 2 Scheme licence holder reporting****161 Reporting requirements**

- (1) The resource operations licence holders must provide the following reports in accordance with this part—
  - (a) quarterly report;
  - (b) annual report; and
  - (c) operational report.

- (2) The resource operations licence holders and the distribution operations licence holder must provide the following report in accordance with this part—
  - (a) emergency report.

## **Division 1                      Quarterly reporting**

### **162              Quarterly report**

- (1) The resource operations licence holder (the holder) must submit a quarterly report to the chief executive after the end of each quarter of every water year.
- (2) The report must contain the following data for the holder's water supply scheme (the scheme)—
  - (a) storage water level—all records for the scheme referred to in section 153 of this plan;
  - (b) the total volume of water for each quarter—
    - (i) taken for the scheme;
    - (ii) entitled to be taken for the scheme;
  - (c) water quality—all records for the scheme referred to in section 157 of this plan.

## **Division 2                      Annual reporting**

### **163              Annual report**

- (1) The resource operations licence holder (the holder) must submit an annual report to the chief executive after the end of each water year.
- (2) The annual report must include for the holder's water supply scheme (the scheme)—
  - (a) water quantity monitoring results for the scheme required under section 164 of this plan;
  - (b) aquatic ecosystem impact monitoring and results for the scheme required under section 165 of this plan;
  - (c) a discussion on any issues that arose as a result of the implementation and application of the rules and requirements for the scheme as detailed in this plan; and
  - (d) a summary of seasonal water assignments, namely—
    - (i) the total number of seasonal water assignment arrangements; and
    - (ii) the total volume of water seasonally assigned.
- (3) The annual report must include—
  - (i) all details of changes to the storage and delivery infrastructure, or the operation of storages and delivery infrastructure that may impact on compliance with rules in this plan; and
  - (ii) details of any new water quantity monitoring devices used.

### **164              Water quantity monitoring—annual report**

- (1) The annual report must include a summary of—
  - (a) announced allocation determinations including—
    - (i) an evaluation of the announced allocation procedures and outcomes; and
    - (ii) the date and value for each announced allocation and for each change made to an announced allocation.

- (b) instances where critical water supply arrangements have been implemented.
- (c) for the water year, the total annual volume of water taken and entitled to be taken by each water user, namely—
  - (i) the total volume of water taken;
  - (ii) the total volume of water entitled to be taken; and
  - (iii) the basis for determining the total volume entitled to be taken.
- (d) seasonal water assignments, namely—
  - (i) the total number of seasonal water assignment arrangements; and
  - (ii) the total volume of water seasonally assigned.

## **165 Impact of storage operation on aquatic ecosystems—annual report**

- (1) The annual report must include—
  - (a) a summary of environmental considerations made by the resource operations licence holder in making operational decisions; and
  - (b) a summary of the environmental outcomes of the decision including any adverse environmental impacts.
- (2) The annual report must include a summary of fish stranding monitoring and assessment including—
  - (a) arrangements to reduce instances fish stranding.
- (3) The annual report must include a discussion and assessment of the following water quality issues—
  - (a) thermal and chemical stratification in the resource operations licence holder's storage;
  - (b) contribution of the storage and its management to the quality of water stored;
  - (c) cyanobacteria population changes in response to stratification in the resource operations licence holder's storage; and
  - (d) any proposed changes to the monitoring program as a result of evaluation of the data.

## **Division 3 Operational reporting**

### **166 Operational incident reporting—scheme licence holders**

A resource operations licence holder must—

- (a) notify the chief executive within one business day of any of the following operational incidents for the resource operations licence holder's scheme—
  - (i) a non-compliance with the rules given in this plan; and
  - (ii) details of any circumstances where they are unable to supply water allocations.
- (b) provide to the chief executive within five business days of the occurrence of any of the operational incidents, a report which includes details of the incident, the conditions under which the incident occurred, and any responses or activities carried out as a result of the incident;
- (c) notify the chief executive upon making a decision relating to an initial announced allocation and/or its recalculation; and
- (d) transfer to the chief executive, relevant supporting information used in making a decision under subsection (c).



**Division 4                      Emergency reporting****167              Emergency report**

Where the scheme licence holder (the holder) cannot comply with the conditions of this plan as a result of the emergency, the holder must—

- (a)    notify the other scheme licence holders upon discovery of an emergency;
- (b)    notify the chief executive upon discovery of the emergency; and
- (c)    provide a report to the chief executive including—
  - (i)       details of the emergency;
  - (ii)      conditions under which the emergency occurred;
  - (iii)     any responses or activities carried out as a result of the emergency; and
  - (iv)     any rules specified in this plan that the holder is either permanently or temporarily unable to comply with due to the emergency.

**168 to 180      Section numbers not used**

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## Chapter 8      Amendments to the Resource Operations Plan

### 181      Scope of chapter 8

This chapter sets out the types of amendments that can be made to this plan under the *Water Act 2000* that—

- (a) do not require public notification—part 1; and
- (b) do require public notification—part 2.

### 182      Commencement of amendments

An amendment to this plan commences—

- (a) where a date is specified in the Queensland Government Gazette—on the date specified; or
- (b) where no date is specified in the Queensland Government Gazette—on the date the Gazette is first published.

## Part 1              Amendments not requiring public notification

### 183      Application of part 1

This part describes those amendments that may be made to this plan under section 106(b) of the *Water Act 2000*.

### 184      Amendment necessary to implement an amendment to the Water Resource (Gulf) Plan 2007

An amendment that is necessary to implement an amendment to the Water Resource (Gulf) Plan 2007 made under section 57(b) of the *Water Act 2000* may be made to this plan.

### 185      Amendment to grant a water licence for unallocated water

An amendment may be made to chapter 2 of this plan that provides for granting a water entitlement as part of the unallocated water process.

### 186      Amendment to monitoring requirements

- (1) An amendment that provides for improved or more efficient monitoring for assessing the Water Resource (Gulf) Plan 2007 outcomes may be made to this plan.
- (2) Such amendments may include, but are not limited to, the following—
  - (a) changing indicators for water quality monitoring;
  - (b) an increase or addition to monitoring requirements, if further information is required; and
  - (c) a reduction or removal of State or scheme licence holder monitoring requirements, if the chief executive is satisfied that no further information or benefit is to be gained from the continuation of the monitoring requirements.

**187      Amendment to infrastructure details**

An amendment may be made to the infrastructure details in attachments 6 and 10 of this plan, provided the amendment does not adversely impact on the achievement of the Water Resource (Gulf) Plan 2007 outcomes and is an amendment to—

- (a) include details of new infrastructure constructed as part of the distribution network as additional to the details of existing infrastructure appearing in Attachment 6.
- (b) correct an error in the details shown in attachment 6 (e.g. revision of storage volume, spillway and/or outlet discharge relationships) and Attachment 10 (e.g. revision of the storage curve for Lake Julius and Lake Moondarra); or
- (c) facilitate the installation of a fish transfer system on any of the infrastructure detailed; or
- (d) facilitate the installation of, or modification to, multi-level inlet works on any of the infrastructure detailed in attachment 6.

**Part 2                      Amendments requiring public notification****188      Amendments under the *Water Act 2000***

- (1) The chief executive may amend this plan under section 105(5) of the *Water Act 2000* to include additional requirements for water management.
- (2) Examples of amendments that may occur under section 105(5) of the *Water Act 2000* include, but are not limited to—
  - (a) changes to water sharing rules, where the resource operations licence holder has demonstrated to the satisfaction of the chief executive that the proposed water sharing rules meet the Water Resource (Gulf) Plan 2007 objectives and outcomes; or
  - (b) environmental management rules and seasonal water assignment rules and water allocation change rules.

**Attachment 1****Dictionary**

Term	Definition
AHD	Australian height datum (AHD) adopted by the National Mapping Council of Australia for referencing a level or height back to a standard base level.
Announced allocation	For a water allocation managed under a resource operations licence, Announced Allocation 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.
Annual volumetric limit	For the purpose of this Plan, the annual volumetric limit, for a water licence, has the same meaning as the term nominal entitlement.
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 water assignment).
Dead storage	For a dam or weir, the dead storage is the volume of water within the ponded area of the storage which cannot be released from the storage under normal operating conditions.
Discharge	Discharge is the rate at which a volume of water passes a point in a stream or pipeline per unit of time. This could be measured in litres per second (L/s), cubic metres per second (m <sup>3</sup> /s or cumecs) or in megalitres per day (ML/day).
Distribution loss	Water that is 'lost' when delivering water for water allocations in reticulated areas via constructed infrastructure through processes such as (but not limited to) evaporation, seepage, pipeline leakage, accidental loss through temporary pipe failure (breaks), loss through pressure relief systems, scouring and pigging.
Emergency	An emergency includes an occurrence that, by nature of its severity, extent or timing might be regarded as an emergency (for example contamination of water supply, structural damage to infrastructure or a danger to human health).
Existing water authorisations	For Chapter 3, Part 3 of this plan, existing water authorisation means a water licence, interim water allocation or other authority to take water that is in effect at the commencement of this plan.
Existing development permit	For Chapter 4 of this plan, existing development permit means a development permit that is in effect at the commencement of this plan.
Fish stranding	Fish stranding means when fish are stranded or left out of the water on the bed or banks of a watercourse, on infrastructure such as spillways and causeways or left isolated in small and/or shallow pools, from which they cannot return to deeper water. This also applies to other aquatic species such as platypus, turtles and any rare or threatened species.
Inlet	Infrastructure comprised of an entrance channel, intake structure, and gate or valve, which allow for water to be taken from the storage and discharged into the watercourse downstream of the storage.
Location	(1) For a water allocation, location means the zone from which water under the water allocation can be taken. (2) For a water licence, location means the section of the watercourse, lake or spring abutting or contained by the land described on the water licence at which water may be taken.
Multi-level inlet	An inlet arrangement on a dam or weir that allows stored water to be released downstream from selected levels below the stored water surface.
Nominal Entitlement	Nominal entitlement, for a water licence, has the meaning given by section 65 of the Water Regulation 2002.
Ponded area	Area of inundation at full supply level of a storage.
Project of regional significance	A project of regional significance means a project that the chief executive, having regard to the matters mentioned in section 27 of the Water Resource (Gulf) Plan 2007 decides is a

Term	Definition
	project of regional significance for the purposes of this plan.
Project of state significance	A project of state significance means a project declared under the <i>State Development and Public Works Organisation Act 1971</i> to be a significant project.
Quarter or quarterly	Three monthly intervals commencing at the start of the water year.
Resource operations plan zone	A geographic location defined by a reach of a watercourse. Resource operations plan zones define the location of a water allocation and operational arrangements under this plan.
Scheme licence holder	For this plan, the term 'scheme licence holder' means— <ul style="list-style-type: none"> <li>• the resource operations licence holder for the Julius Dam Water Supply Scheme;</li> <li>• the resource operations licence holder for the Moondarra Dam Water Supply Scheme; and/or</li> <li>• the distribution operations licence holder for the Julius Dam and Moondarra Dam water supply schemes.</li> </ul>
Water use	The actual consumption of water.
Water Year	The water year is the 12 month period beginning 1 July and ending 30 June.

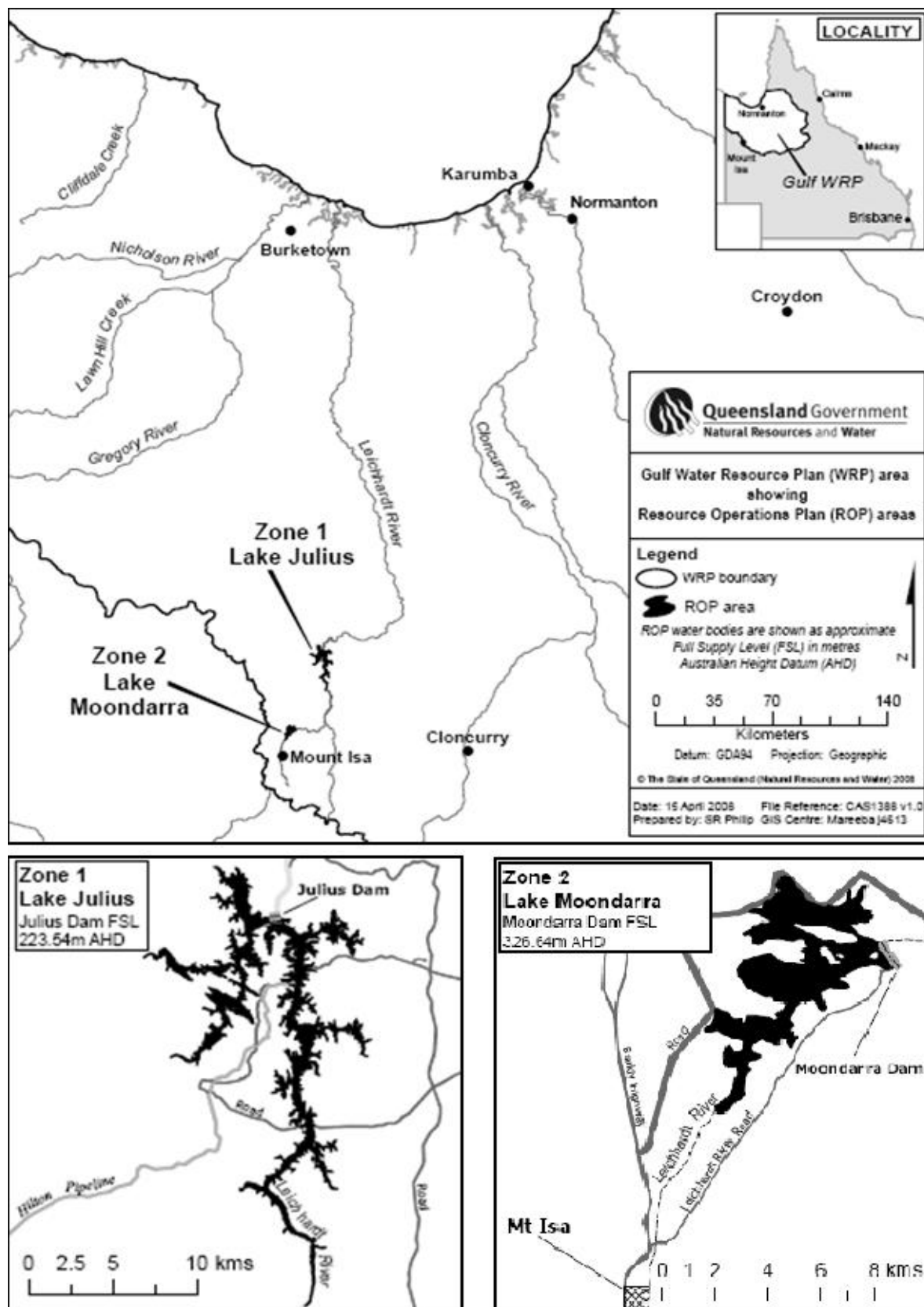
## Attachment 2

## Gulf Plan Area



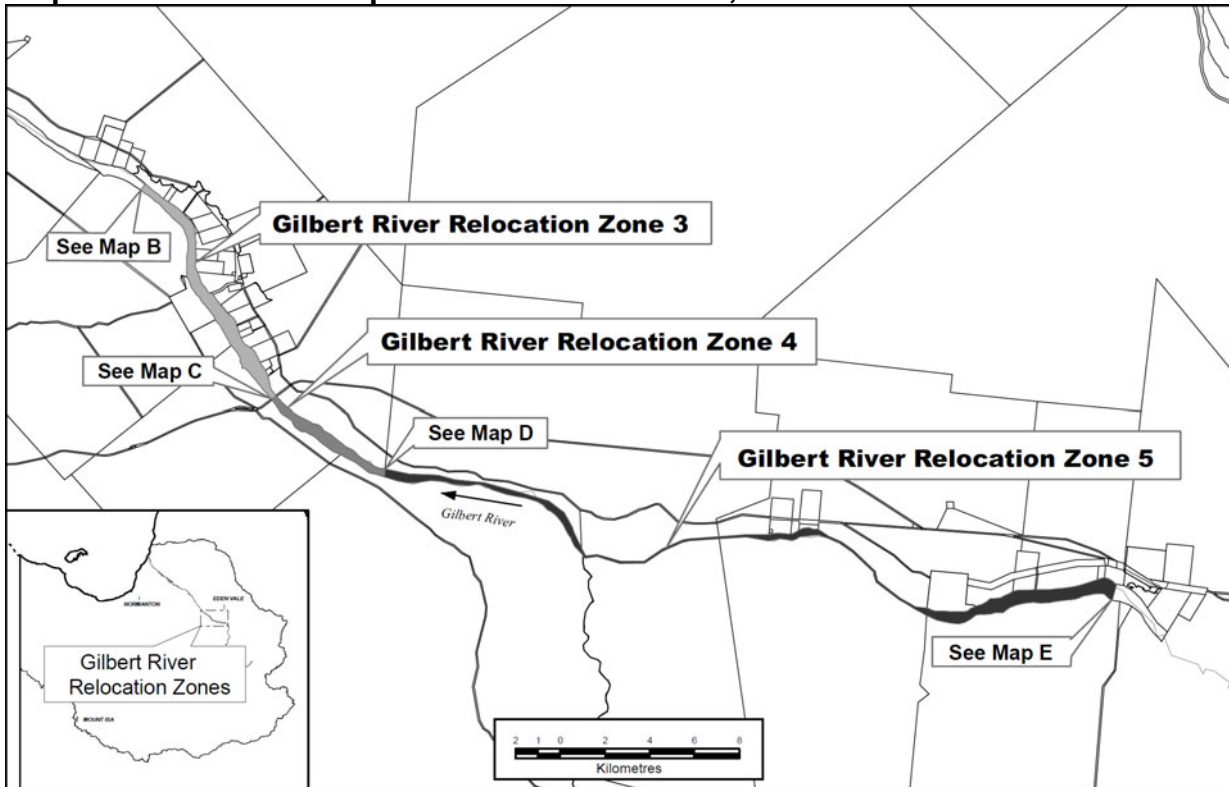
## Attachment 3

## Resource Operations Plan Zones

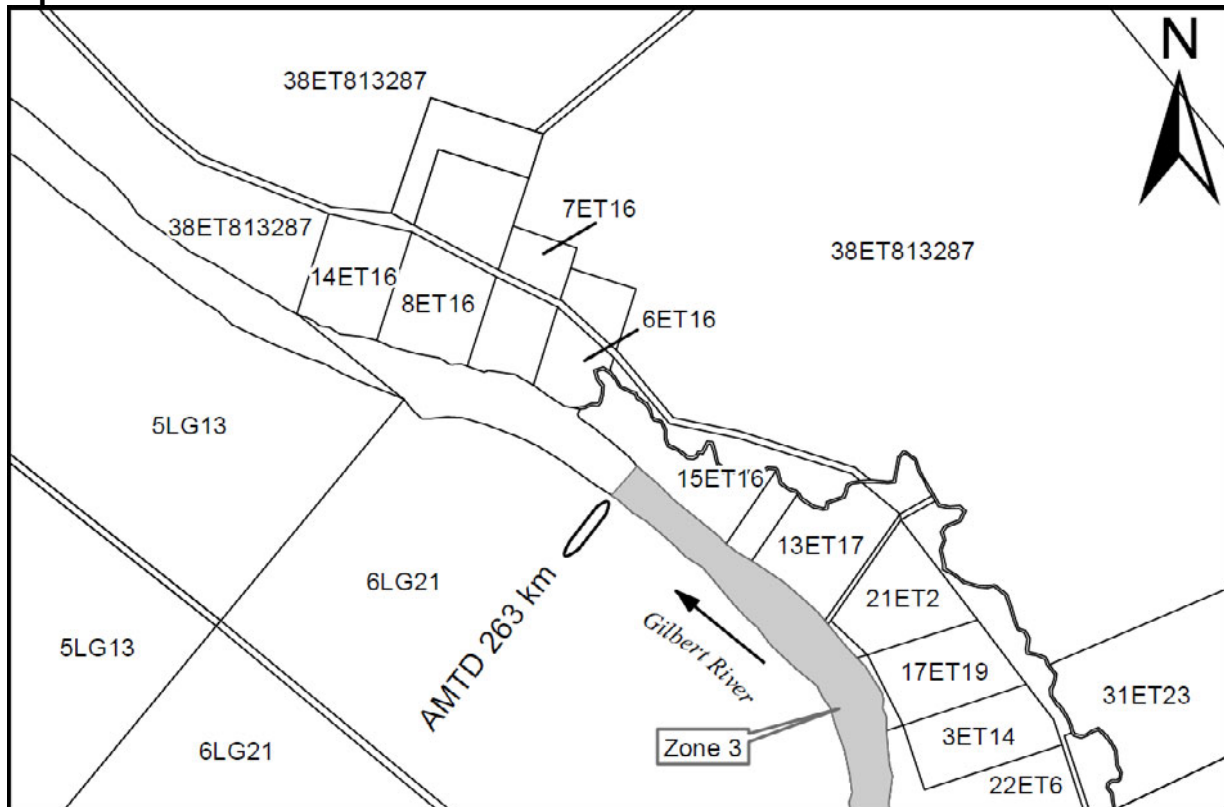


## Attachment 4 Relocation Zones in the Gilbert River

**Map A. Main map for relocation zones 3, 4 and 5**

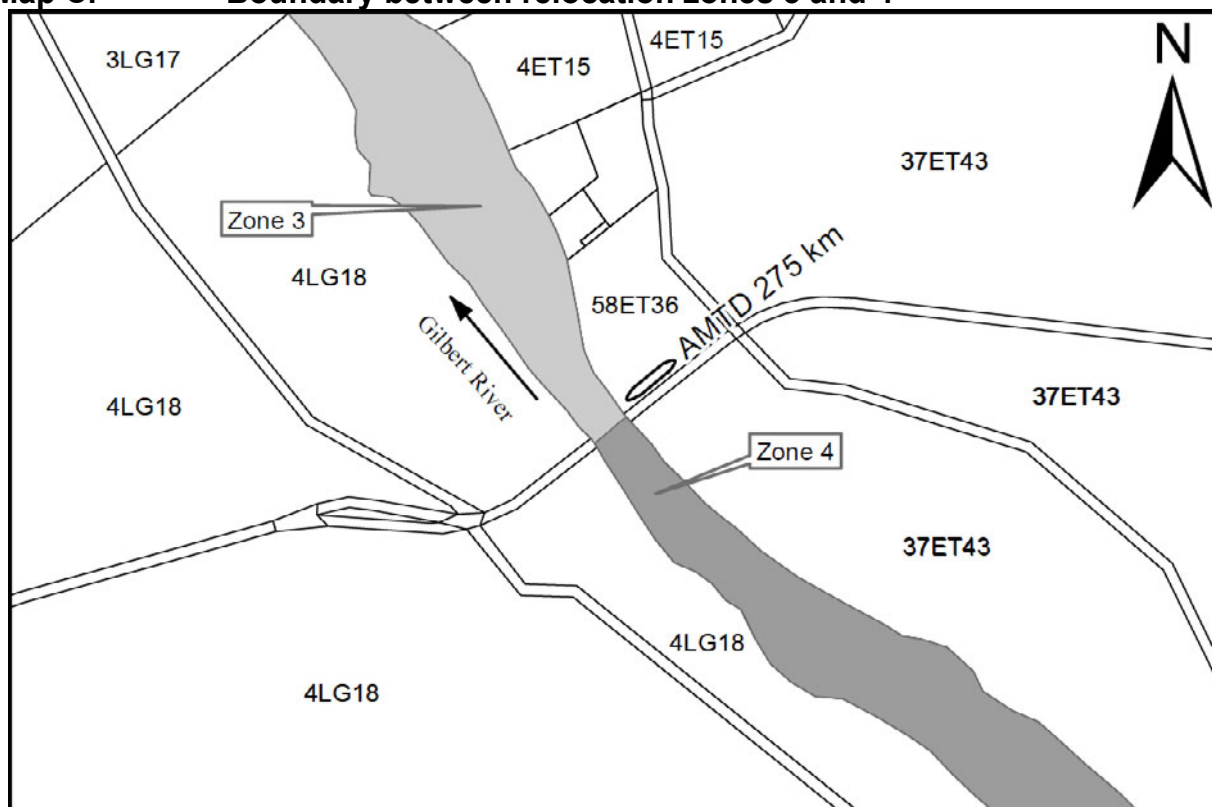


**Map B. Gilbert relocation zone 3**

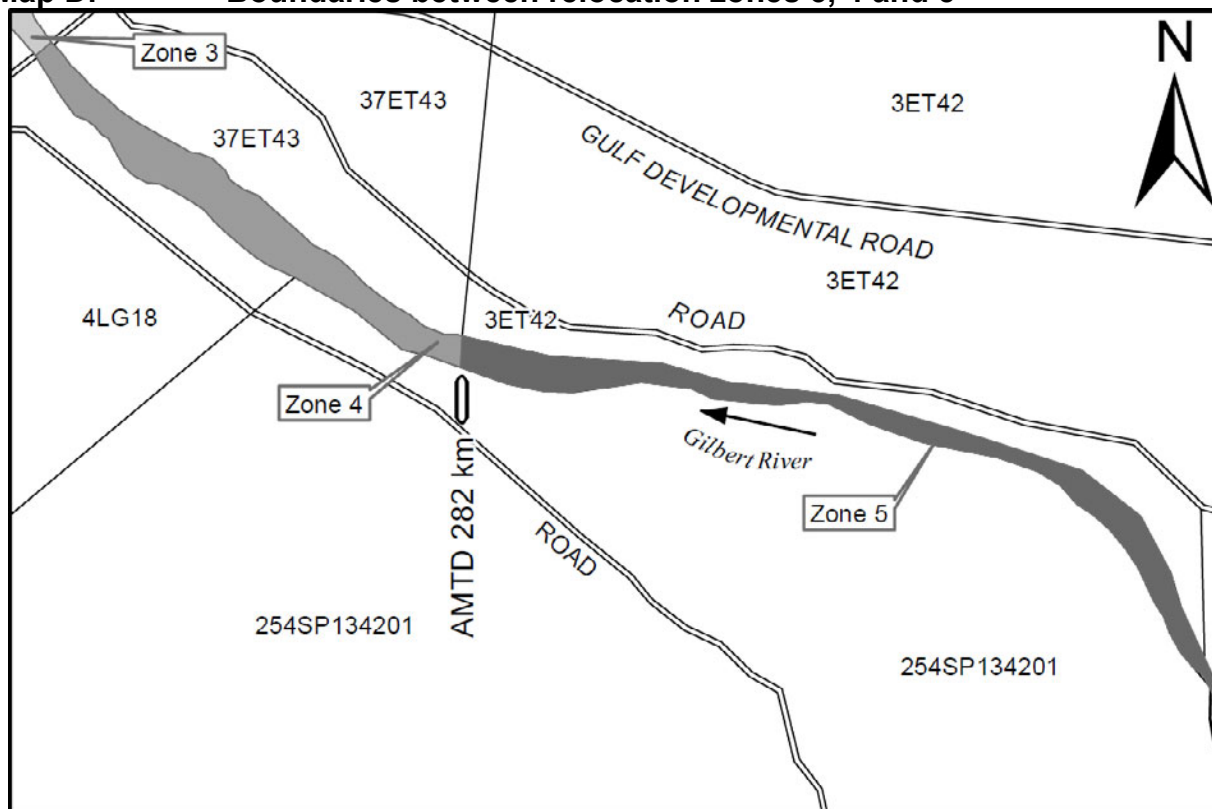




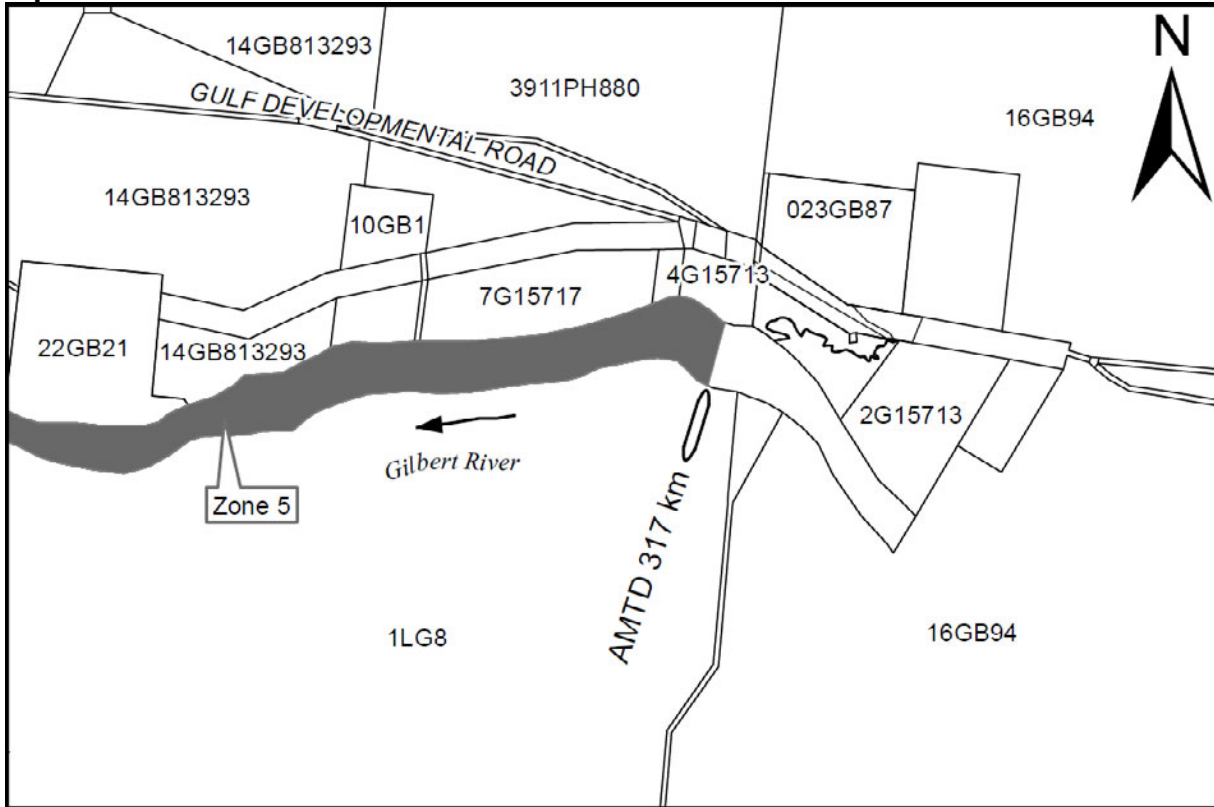
**Map C. Boundary between relocation zones 3 and 4**



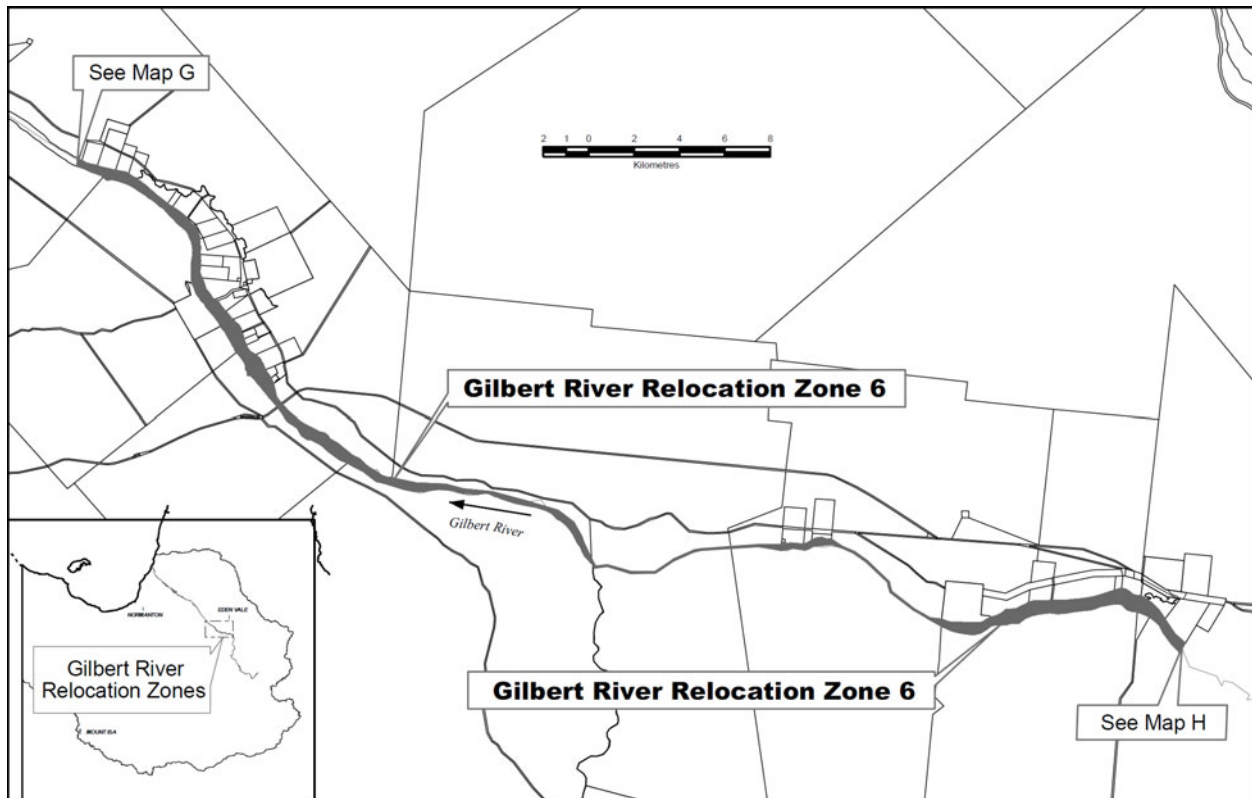
**Map D. Boundaries between relocation zones 3, 4 and 5**



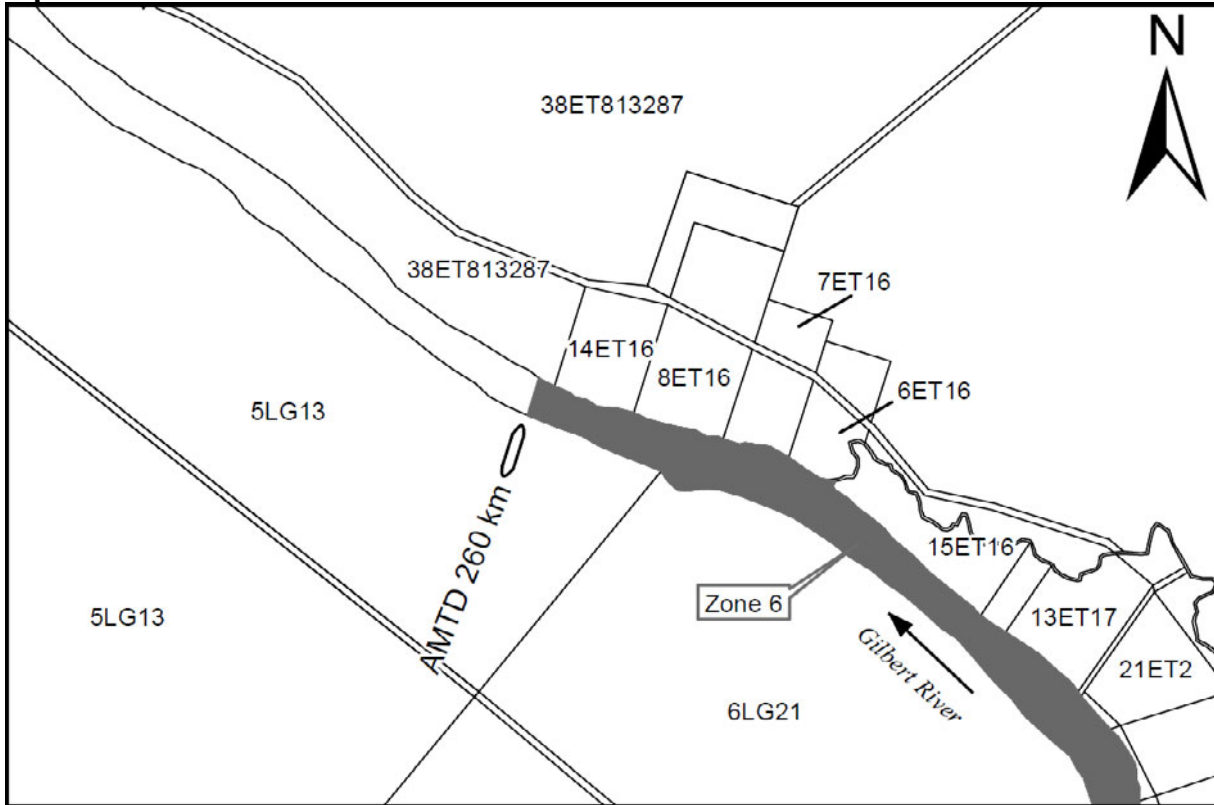
**Map E. Relocation zone 5**



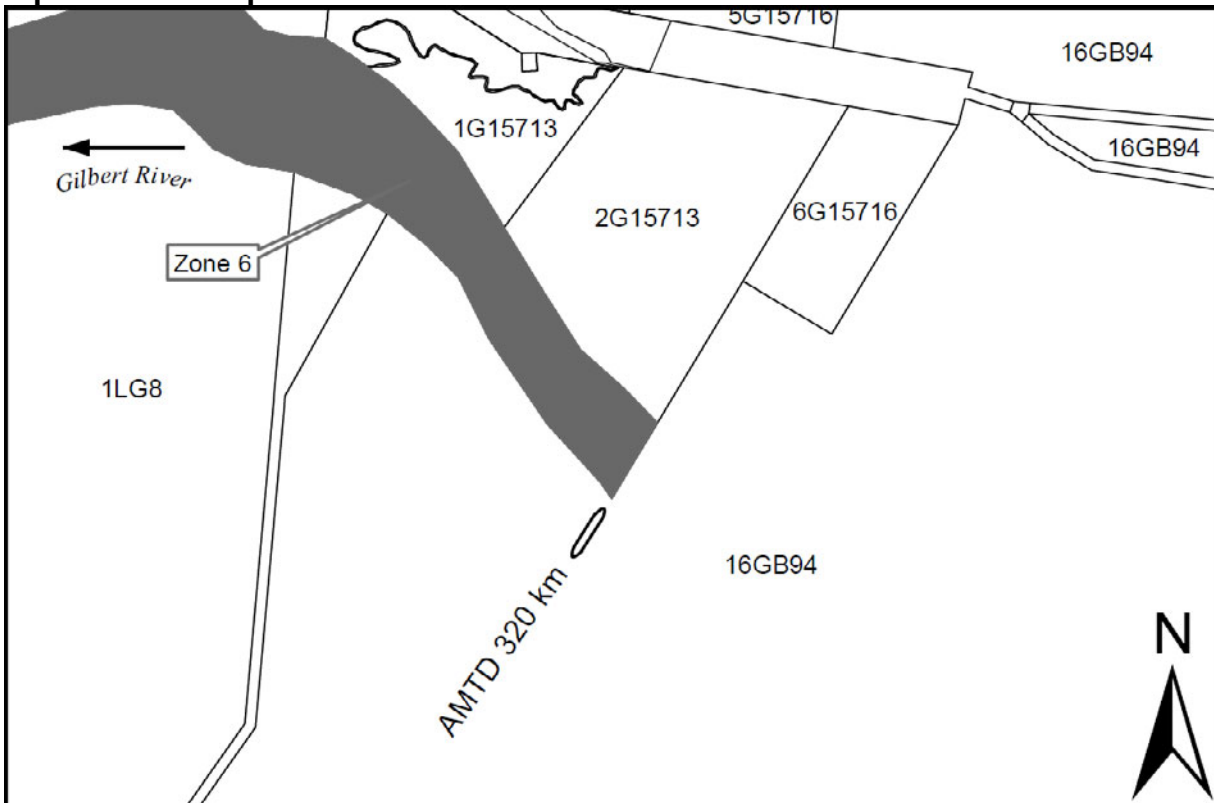
**Map F. Main map relocation zone 6**



**Map G. Downstream limit of relocation zone 6**



**Map H. Upstream limit of relocation zone 6**



## Attachment 5      Links between this plan and the Water Resource (Gulf) Plan 2007

**Table 1.      How the Gulf Resource Operations Plan is related to the Water Resource (Gulf) Plan 2007 outcomes**

General Outcomes of the Water Resource (Gulf) Plan 2007 (section 13)	Resource operations plan rules
Each of the following is a general outcome for water in the plan area—	
13(a) to provide for the use of water entitlements and other authorisations in the plan area.	<ul style="list-style-type: none"> <li>granting and converting authorisation to water allocations</li> <li>metering</li> </ul>
13(b) to provide for the continued use of all existing overland flow works.	<ul style="list-style-type: none"> <li>providing for granting and amending water licences to take overland flow water</li> </ul>
13(c) to provide for the continued use of all existing water bores.	<ul style="list-style-type: none"> <li>metering</li> <li>dealing with water licence applications</li> </ul>
13(d) to protect the probability of being able to take water under a water allocation, including for the supply of urban water for Mount Isa City and water to support growth in the mining industry in north-west Queensland.	<ul style="list-style-type: none"> <li>converting authorisations to water allocations</li> <li>water allocation change rules</li> <li>seasonal water assignment rules</li> <li>dealing with unallocated water</li> <li>water sharing rules including critical water supply arrangements</li> </ul>
13(e) to allocate and manage water within a wild river area in a way that is compatible with the wild river declaration for the area.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> </ul>
13(f) to make water available to support growth in industries dependent on water in the plan area.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> <li>converting authorisations to water allocations</li> <li>water allocation change rules</li> <li>seasonal water assignment rules</li> <li>dealing with unallocated water</li> <li>water sharing rules including critical water supply arrangements</li> </ul>
13(g) to make water in Lake Corella and Lake Mary Kathleen available to be taken.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> </ul>
13(h) to make water available to support population growth in towns and communities dependent on water in the plan area.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> <li>converting authorisations to water allocations</li> <li>water allocation change rules</li> <li>seasonal water assignment rules</li> <li>dealing with unallocated water</li> <li>water sharing rules including critical water supply arrangements</li> </ul>
13(i) to make water in the following areas available to support growth in irrigated agriculture— <ul style="list-style-type: none"> <li>the Gilbert River catchment area;</li> <li>the Flinders River catchment area;</li> <li>the Nicholson River catchment area; and</li> <li>the Lower Leichhardt River subcatchment area.</li> </ul>	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> </ul>
13(j) to make water available for helping indigenous communities in the Cape York Peninsula Region area to achieve their economic and social aspirations.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> </ul>
13(k) to encourage continual improvement in the efficient use of water.	<ul style="list-style-type: none"> <li>scheme licence holder monitoring of water take</li> <li>metering</li> <li>water allocation change rules</li> <li>seasonal water</li> </ul>
13(l) to support water-related cultural values of Aboriginal and Torres Strait Islander communities in the plan area.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> <li>operating and environmental management rules</li> </ul>

	(e.g. waterhole management)
13(m) to support tourism in the plan area, including, for example, by protecting flows that support the natural aesthetics of watercourses and their surroundings.	<ul style="list-style-type: none"> <li>dealing with unallocated water</li> <li>environmental flows</li> </ul>
13(n) to support commercial fishing in the Gulf of Carpentaria, including, for example, by protecting flood flows that may deliver nutrients and water to estuarine and marine environments to stimulate growth and movement of native aquatic animals, including fish, prawns and crabs.	<ul style="list-style-type: none"> <li>regulating overland flow</li> <li>scheme licence holder operating, environmental management and water sharing rules</li> </ul>
13(o) to promote a cooperative approach between the State and relevant Northern Territory government agencies to water resource management, including through the sharing of information.	<ul style="list-style-type: none"> <li>chief executive data collection and assessment</li> </ul>
13(p) to ensure water is available to support natural ecosystem processes.	<ul style="list-style-type: none"> <li>operating and environmental management rules (e.g. rules for operation of infrastructure, minimum stream flow requirements)</li> <li>scheme licence holder monitoring and reporting</li> <li>chief executive data collection and assessment</li> </ul>
General ecological outcomes for both surface water and groundwater of the Water Resource (Gulf) Plan 2007 (section 14)	Resource operations plan rules
Each of the following is a general ecological outcome for water in the plan area—	
14(a) to maintain the natural variability of flows that support the habitats of native plants and animals and migratory birds in watercourses, floodplains, wetlands, lakes and springs.	<ul style="list-style-type: none"> <li>scheme licence holder monitoring and reporting</li> <li>operating and environmental management rules (e.g. rules for operation of infrastructure, minimum stream flow requirements)</li> <li>chief executive data collection and assessment</li> <li>use of performance indicators for monitoring by chief executive</li> </ul>
14(b) to provide for the continued capability of one part of a river system to be connected to another, including by maintaining flood flows that— <ul style="list-style-type: none"> <li>allow for the movement of native aquatic animals between riverine, floodplain, wetland, estuarine and marine environments;</li> <li>deliver nutrients and organic matter throughout the plan area to support natural processes such as breeding, growth and migration in riverine, floodplain, wetland, estuarine and marine environments; and</li> <li>deliver water and sediment throughout the plan area to support river-forming processes.</li> </ul>	<ul style="list-style-type: none"> <li>scheme licence holder monitoring and reporting</li> <li>operating and environmental management rules</li> <li>chief executive data collection and assessment</li> <li>use of performance indicators for monitoring by chief executive</li> </ul>
14(c) to minimise changes to natural variability in water levels and to support natural ecological processes, including maintaining refugia associated with waterholes and lakes.	<ul style="list-style-type: none"> <li>chief executive data collection and assessment</li> <li>metering</li> <li>use of performance indicators for monitoring by chief executive</li> </ul>
14(d) to maintain the permanence of water in naturally perennially flowing watercourses and in river bed sands that provide water to support native plants and animals, particularly during dry seasons.	<ul style="list-style-type: none"> <li>scheme licence holder monitoring and reporting</li> <li>operating and environmental management rules</li> <li>chief executive data collection and assessment</li> <li>metering</li> <li>chief executive data collection and assessment</li> <li>use of performance indicators for monitoring by chief executive</li> </ul>
14(e) to promote improved understanding of the matters affecting flow-related health of ecosystems in the plan area.	<ul style="list-style-type: none"> <li>Metering</li> <li>chief executive data collection and assessment</li> <li>use of performance indicators for monitoring by chief executive</li> <li>links to monitoring and assessment programs undertaken by other stakeholders and agencies</li> </ul>
General ecological outcomes for groundwater only of the Water Resource (Gulf) Plan 2007 (section 15)	Resource operations plan rules
Each of the following is a general ecological outcome for groundwater in the plan area—	

15(a) to maintain groundwater contributions to the flow of water in watercourses, lakes and springs.	<ul style="list-style-type: none"> <li>• chief executive data collection and assessment</li> <li>• metering</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>
15(b) to support the ecosystems dependent on groundwater, including, for example, riparian vegetation, wetlands and waterholes.	<ul style="list-style-type: none"> <li>• chief executive data collection and assessment</li> <li>• metering</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>
15(c) to allocate and manage groundwater in a way that is compatible with the outcomes of the Water Resource (Great Artesian Basin) Plan 2006 to the greatest practicable extent.	<ul style="list-style-type: none"> <li>• chief executive data collection and assessment</li> <li>• metering</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>
Specific ecological outcomes of the Water Resource (Gulf) Plan 2007 (section 16)	Resource operations plan rules
Each of the following is a specific ecological outcome for water in the plan area—	
16(a) to ensure water in the bed sands of the Gilbert River between AMTD 317km and AMTD 263km is maintained— <ul style="list-style-type: none"> <li>• to provide aquatic habitat for native aquatic plants and animals, particularly during dry seasons;</li> <li>• to support riparian vegetation; and</li> <li>• to contribute to the flow of water in the Gilbert River.</li> </ul>	<ul style="list-style-type: none"> <li>• operating and environmental management rules</li> <li>• metering</li> <li>• chief executive data collection and assessment</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>
16(b) to maintain the permanence of water flows in the Gregory River and Lawn Hill Creek to provide aquatic habitat for native aquatic plants and animals, particularly during dry seasons.	<ul style="list-style-type: none"> <li>• operating and environmental management rules</li> <li>• chief executive data collection and assessment</li> <li>• metering</li> <li>• chief executive data collection and assessment</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>
16(c) to maintain flood flows to the estuarine and marine environments of the Gulf of Carpentaria to stimulate breeding, growth and migration of native aquatic animals.	<ul style="list-style-type: none"> <li>• operating and environmental management rules</li> <li>• chief executive data collection and assessment</li> <li>• metering</li> <li>• chief executive data collection and assessment</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>
16(d) to maintain the natural variability of flood flows that inundate, and deliver nutrients, organic matter and sediment to, the wetlands of the areas known as the Southern Gulf Aggregation and the Southeast Karumba Plain Aggregation.	<ul style="list-style-type: none"> <li>• <i>scheme licence holder</i> monitoring and reporting</li> <li>• operating and environmental management rules</li> <li>• chief executive data collection and assessment</li> <li>• metering</li> <li>• chief executive data collection and assessment</li> <li>• use of performance indicators for monitoring by chief executive</li> </ul>

## Attachment 6(a) Infrastructure details for the Resource Operations Licence Holder for the Julius Dam Water Supply Scheme

**Table 1. Julius Dam—Leichhardt River—AMTD 390.9 km**

Description of Water Infrastructure	
Description	Concrete multiple arch—buttress dam. Spillway discharge over the top of the arches
Fully supply level	EL 223.54 m <i>AHD</i>
Saddle dam(s)	Nil
Fabridam	Nil
Gates	Nil
Storage Capacity	
Full supply volume	107 500 ML
Storage curves / tables	Drawing no: A3-211928B
Spillway Arrangement	
Description of works	The overflow crest of the drop spillway is located centrally on the dam wall.
Levels	Top of spillway – EL 223.54 <i>AHD</i>
Spillway width	219.5 m
<i>Discharge</i> characteristics	Spillway discharge rating curve – Drawing no: A1-32885
River Inlet/Outlet Works	
Description of works	There is a 900 mm outlet pipe.
Inlet	Single level offtake
Cease to flow levels	Cease to flow at EL 207.69 m <i>AHD</i>
<i>Discharge</i> characteristics	The estimated maximum discharge capacity of the river outlet is 375 ML/d at FSL (Drawing no: A3-49249)

## Attachment 6(b) Infrastructure details for the Resource Operations Licence Holder for the Moondarra Dam Water Supply Scheme

**Table 1. Moondarra Dam—Leichhardt River—AMTD 465.1 km**

**(NRW dam number 174)**

Description of Water Infrastructure	
Description	Concrete faced rock filled embankment
Fully supply level	EL 326.20 m AHD
Saddle dam(s)	
Fabridam	
Gates	
Storage Capacity	
Full supply volume	106 833 ML
Dead storage level	314.17 m AHD
Storage curves / tables	
Spillway Arrangement	
Description of works	Unlined channel remote from dam with sharp crested weir inlet control
Levels	Crest Level of EL 326.20 AHD
Spillway width	77 m
Auxiliary Spillway	
Description of works	Two off—unlined bywash channel with concrete nib wall inlet control
Levels	Aux no. 1 – Crest level EL 326.20 AHD Aux no. 2 – Crest level EL 326.20 AHD
Spillway width	Aux no. 1 – 37.2 m Aux no. 2 – 45.7 m
Discharge characteristics	No outlet works provided



## **Attachment 6(c) Infrastructure details for the Distribution Operations Licence Holder for the Moondarra Dam and Julius Dam Water Supply Schemes**

**Table 1. Pontoon Pump Station—Lake Moondarra**

Diversion rate	
Maximum discharge	1 600 L/sec

**Table 2. Fred Haigh Pump Station—Lake Julius**

Diversion rate	
Maximum discharge	760 L/sec

**Table 3. Deep Well Pump Station—Lake Moondarra**

Diversion rate	
Maximum discharge	800 L/sec

**Table 4. Col Popple Pump Station—Lake Moondarra**

Diversion rate	
Maximum discharge	880 L/sec 1 250 L/sec (with Lake Moondarra Booster Station operating)

**Table 5. Lake Moondarra Dam Pontoon Pump Station (Warrina Park Pump)**

Diversion rate	
Maximum discharge	20 L/sec

**Table 6. Lions Youth Camp Pump Station—Lake Moondarra**

Diversion rate	
Maximum discharge	20 L/sec

**Table 7. Transport Bay Pump Station—Lake Moondarra**

Diversion rate	
Maximum discharge	20 L/sec

**Attachment 7****Julius Dam Water Supply Scheme****Table 1. Water allocations distributed under the distribution operations licence for the Julius Dam Water Supply Scheme and managed under the resource operations licence for the Julius Dam Water Supply Scheme**

Water allocation number	Family name / company	Location	Purpose	Nominal volume (ML)	Priority	Converting authorisation
1	MOUNT ISA CITY COUNCIL	Zone 1	Any	7900	High	IWA 400010
2	MOUNT ISA MINES LIMITED	Zone 1	Any	8850	High	IWA 400011
3	MT ISA WATER BOARD	Zone 1	Any	5000	High	IWA 400012
4	MT ISA WATER BOARD	Zone 1	Distribution loss	1250	High	Nil

**Table 2. Water allocations managed and distributed under the resource operations licence for the Julius Dam Water Supply Scheme**

Water allocation number	Family name / company	Location	Purpose	Nominal volume (ML)	Priority	Converting authorisation
5	NORTH WEST QUEENSLAND WATER PIPELINE PTY LTD ACN 070 999 218	Zone 1	Any	15 000	High	IWA 102936
6	SUNWATER LIMITED ACN 131034985	Zone 1	Any	10 850	High	IWA 102934

**Attachment 8****Moondarra Dam Water Supply Scheme**

**Table 1. Water allocations distributed under the distribution operations licence for the Moondarra Dam Water Supply Scheme and managed under the resource operations licence for the Moondarra Dam Water Supply Scheme**

Water allocation number	Family name / company	Location	Purpose	Nominal volume (ML)	Priority	Converting authorisation
7	MOUNT ISA CITY COUNCIL	Zone 2	Any	12 500	Medium	Order in Council
8	MOUNT ISA MINES LIMITED	Zone 2	Any	12 500	Medium	Order in Council
9	MT ISA WATER BOARD	Zone 2	Distribution loss	1 250	Medium	Nil
10	MT ISA WATER BOARD	Zone 2	Any	50	Medium	Nil

## Attachment 9 Details of Water Licences amended or granted under the Plan

**Table 1. Water Licences amended under the plan**

Licensee	Water Licence number	Watercourse	Purpose	Max rate of take (L/s)	Annual volumetric limit (ML)	Water Licence Conditions Added	Water Licence Conditions Omitted
BURKE SHIRE COUNCIL	100985	Nicholson River	Any	14	324	The daily volumetric limit that may be taken under this licence is 1.2 megalitres.	
ANDREW WILLIAM JESSE DANIELS; SAMUEL DONALD JAMES DANIELS; GABRIELLE KENNEDY; ANDREW WILLIAM JESSE & SAMUEL DONALD JAMES DANIELS & GABRIELLE KENNEDY AS PERSONAL REPRESENTATIVE	49873K	Nicholson River	Rural	95	600	The daily volumetric limit that may be taken under this licence is 6.9 megalitres.	
EDWARD SPARKE CHARLES THROSBY	56794K	Nicholson River	Any	6	24	The daily volumetric limit that may be taken under this licence is 0.5 megalitres.	
BURKE SHIRE COUNCIL	100986	Gregory River	Any	4	36	The daily volumetric limit that may be taken under this licence is 0.3 megalitres.	
PARAWAY PASTORAL COMPANY LIMITED	19100K	Gregory River	Rural	100	740	The daily volumetric limit that may be taken under this licence is 8.6 megalitres.	
AA COMPANY PTY LTD	50002K	Gregory River	Rural	2	8	The daily volumetric limit that may be taken under this licence is 0.2 megalitres.	
GAMBLR PTY LTD	36455K	Lawn Hill Creek Louie Creek	Any	50	2	The daily volumetric limit that may be taken under this licence is 2.0 megalitres.	
LAWN HILL AND RIVERSLEIGH PASTORAL HOLDING COMPANY PTY LTD	44371K	Lawn Hill Creek	Rural	150	1800	The daily volumetric limit that may be taken under this licence is 12.1 megalitres.	
VIOLET EVELENE HUXLEY; LORNA ANN ELIZABETH SMITH; JOHN ROSS SMITH; JUDITH ANNE GOODALL	13022K	Beames Brook	Rural	65	192	The daily volumetric limit that may be taken under this licence is 3.9 megalitres.	
JOHN GEOFFREY NELSON; JANICE NELSON	56814K	Beames Brook	Rural	62	1000	The daily volumetric limit that may be taken under this licence is 5.4 megalitres.	Schedule B, SPEC 01
CEC MT ISA PTY LTD	29486J	Leichhardt River	Any	20	368	The daily volumetric limit that may be taken under this licence is 1.7 megalitres.	
MOUNT ISA RUGBY UNION CLUB INCORPORATED	43607J	Leichhardt River	Any	2	12	The daily volumetric limit that may be taken under this licence is 0.2 megalitres.	Schedule B, SPEC 01, SPEC 02
MATRIX METALS LIMITED	43826J	Leichhardt River	Any	95	442	The daily volumetric limit that may be taken under this licence is 6.9	

Licensee	Water Licence number	Watercourse	Purpose	Max rate of take (L/s)	Annual volumetric limit (ML)	Water Licence Conditions Added	Water Licence Conditions Omitted
						megalitres.	
LORRAINE PASTORAL CO. PTY. LTD	43891J	Leichhardt River	Rural	2434	8000	The daily volumetric limit that may be taken under this licence is 210.3 megalitres. See table 3, reference 'B'.	Schedule A, 2.34
NEUMAYER VALLEY PASTORAL CO PTY LTD	58902K	Alexandra River	Rural	100	1600	The daily volumetric limit that may be taken under this licence is 8.6 megalitres.	
LADY ANNIE OPERATIONS PTY LTD	401063	Greenstone Creek	Any	42	1323	The daily volumetric limit that may be taken under this licence is 3.6 megalitres.	
BIRLA MT GORDON PTY LTD	102498	Greenstone Creek	Any	6	75	The daily volumetric limit that may be taken under this licence is 0.5 megalitres.	
BIRLA MT GORDON PTY LTD	43672J	Greenstone Creek	Any	32	2555	The daily volumetric limit that may be taken under this licence is 2.8 megalitres.	
GRAEME DENNIS CARRINGTON; ANGELA JOAN CARRINGTON	43667J	Depot Creek	Rural	4	14.4	The daily volumetric limit that may be taken under this licence is 0.3 megalitres.	Schedule B, SPEC 01
JEFFREY PAUL REID; JENNIFER JOY REID	100474	Flinders River	Rural	22.5	400	The daily volumetric limit that may be taken under this licence is 1.9 megalitres.	Schedule A, 5.20
GRAHAM EDWARD MCCAMLEY	101581	Flinders River	Rural	1500	1600	The daily volumetric limit that may be taken under this licence is 86.4 megalitres. See table 3, reference 'C'.	Schedule B, 1, 2
GRAHAM EDWARD MCCAMLEY	101582	Flinders River	Rural	1500	1600	The daily volumetric limit that may be taken under this licence is 86.4 megalitres. See table 3, reference 'C'.	Schedule B, 1, 2
GAMBAMORA INDUSTRIES PTY LTD	13390K	Flinders River	Rural	150	972	The daily volumetric limit that may be taken under this licence is 12.1 megalitres.	Schedule A, 1-1.10, 1-1.40, 1-1.60, 1-2.10, 1-8.10, 2-1.012, 2-1.015, 2-1.018, 2-1.024, 2-4.001, 4-01K
RICHMOND SHIRE COUNCIL	174622	Flinders River	Any	47	200	The daily volumetric limit that may be taken under this licence is 4.1 megalitres. See table 3, reference 'D'.	Schedule A, 2.32
RICHMOND SHIRE COUNCIL	175602	Flinders River	Any	6.3	38	The daily volumetric limit that may be taken under this licence is 0.5 megalitres.	Schedule B, 1
JEFFREY PAUL REID; JENNIFER JOY REID	43752J	Flinders River	Rural	280	720	The daily volumetric limit that may be taken under this licence is 24.2 megalitres.	

Licensee	Water Licence number	Watercourse	Purpose	Max rate of take (L/s)	Annual volumetric limit (ML)	Water Licence Conditions Added	Water Licence Conditions Omitted
KEVIN HERBERT CAIRNS	43799J	Flinders River	Rural	65	30	The daily volumetric limit that may be taken under this licence is 3.9 megalitres.	
JEFFREY PAUL REID; JENNIFER JOY REID	43864J	Flinders River	Rural	1400	1000	The daily volumetric limit that may be taken under this licence is 120.0 megalitres. See table 3, reference 'E'.	Schedule A, 2.34
MALCOLM IAN MCCLYMONT	43869J	Flinders River	Rural	2800	1600	The daily volumetric limit that may be taken under this licence is 200.0 megalitres.	
QUEENSLAND GOLD AND MINERALS LIMITED	180706	Cloncurry River	Any	4	18	The daily volumetric limit that may be taken under this licence is 0.3 megalitres.	
PAUL FRANCIS MULLINS	43824J	McKinlay River	Rural	1200	1000	The daily volumetric limit that may be taken under this licence is 104 megalitres.	
NORAH VERONICA KERSH	103408	Rupert Creek	Rural	217	1600	The daily volumetric limit that may be taken under this licence is 18.7 megalitres.	Schedule B, 1
BRETT JAMES SEMPLE; GILLIAM THERESE SEMPLE	43771J	Fraser Creek	Rural	660	800	The daily volumetric limit that may be taken under this licence is 47.5 megalitres.	Schedule B, 1
PEPINNINI MINERALS PTY LIMITED	44878K	Unnamed Tributary of Brien Creek	Any	4	250	The daily volumetric limit that may be taken under this licence is 0.3 megalitres.	Schedule B, SPEC 01
CORBETT RICHARD TRITTON	101245	Eight Mile Creek	Rural	150	1300	The daily volumetric limit that may be taken under this licence is 12.1 megalitres.	
CORBETT RICHARD TRITTON	402562	Double Barrel Creek	Rural	25000	14000	The daily volumetric limit that may be taken under this licence is 2160.0 megalitres. See table 3, reference 'A'.	Schedule B, 1
CARPENTARIA SHIRE COUNCIL	176321	Norman River	Any	100	2100	The daily volumetric limit that may be taken under this licence is 8.6 megalitres.	
SALVATORE PAPPALARDO; JOSEPHINE PAPPALARDO; ALFIO ROBERT PAPPALARDO	100446	Gilbert River	Rural	125	1050	The daily volumetric limit that may be taken under this licence is 10.8 megalitres.	
KENNETH WILLIAM FRY AND SUSAN DAWN FRY AS TRUSTEE	100038	Gilbert River	Rural	150	504	The daily volumetric limit that may be taken under this licence is 12.1 megalitres.	Schedule B, SPEC 01, SPEC 02, SPEC 03, SPEC 04, SPEC 05
BRENDEN NEVILLE BETHEL; AMANDA JANE BETHEL	104287	Gilbert River	Rural	60	1680	The daily volumetric limit that may be taken under this licence is 5.2 megalitres. See table 3, reference 'F'.	Schedule B, SPEC 01, SPEC 02

Licensee	Water Licence number	Watercourse	Purpose	Max rate of take (L/s)	Annual volumetric limit (ML)	Water Licence Conditions Added	Water Licence Conditions Omitted
SALVATORE PAPPALARDO; JOSEPHINE PAPPALARDO; ALFIO ROBERT PAPPALARDO	173512	Gilbert River	Rural	125	410	The daily volumetric limit that may be taken under this licence is 10.8 megalitres. See table 3, reference 'F'.	Schedule B, SPEC 01, SPEC 02
RUTH NOLA RANDALL; DAPHNE GAIL RANDALL; HARRY GRANT RANDALL JNR	35811K	Gilbert River	Rural	95	144	The daily volumetric limit that may be taken under this licence is 6.9 megalitres.	
RUTH NOLA RANDALL; DAPHNE GAIL RANDALL; HARRY GRANT RANDALL JNR	49826K	Gilbert River	Rural	120	600	The daily volumetric limit that may be taken under this licence is 7.8 megalitres.	
GLYNN ATHOL BOOKALL; AILEEN JOYCE BOOKALL	55416K	Gilbert River	Rural	65	384	The daily volumetric limit that may be taken under this licence is 3.9 megalitres.	
TERENCE NORMAN JAMES BETHEL; LEEANNE FRANCES BETHEL	60028K	Gilbert River	Rural	45	1200	The daily volumetric limit that may be taken under this licence is 3.9 megalitres. See table 3, reference 'F'.	Schedule B, SPEC 01, SPEC 02
BEVERLY GORDON WIELAND; DOROTHY WIELAND; ROY GORDON WIELAND; TERRY WILLIAM WIELAND	60077K	Gilbert River	Rural	120	972	The daily volumetric limit that may be taken under this licence is 7.8 megalitres. See table 3, reference 'F'.	Schedule B, SPEC 01, SPEC 02
RUTH NOLA RANDALL; DAPHNE GAIL RANDALL; HARRY GRANT RANDALL JNR	60084K	Gilbert River	Rural	46	660	The daily volumetric limit that may be taken under this licence is 4.0 megalitres. See table 3, reference 'F'.	Schedule B, SPEC 01, SPEC 02
ETHERIDGE SHIRE COUNCIL	101556	Etheridge River	Any	18	140	The daily volumetric limit that may be taken under this licence is 1.6 megalitres.	
IVON DOUGLAS BUCHANAN; MARY PATRICIA BUCHANAN	53687K	Elizabeth Creek	Rural	20	180	The daily volumetric limit that may be taken under this licence is 1.7 megalitres.	
DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT	44967K	Copperfield River	Any	200	4650	The daily volumetric limit that may be taken under this licence is 16.0 megalitres.	
NACRE PTY LTD	33700K	Unnamed Tributary of Bundock Creek	Rural	65	240	The daily volumetric limit that may be taken under this licence is 3.9 megalitres.	

**Table 2. New water licences to be granted to KW Fry and SD Fry as Trustee<sup>8</sup>**

Licensee	Water licence number	Watercourse	Purpose	Max rate of take (L/s)	Annual volumetric limit (ML)	Water licence conditions
KENNETH WILLIAM FRY AND SUSAN DAWN FRY AS TRUSTEE	TBA	Gilbert River	Rural	150	1104	The daily volumetric limit that may be taken under this licence is 12.1ML. See table 3, reference 'F'.
KENNETH WILLIAM FRY AND SUSAN DAWN FRY AS TRUSTEE	TBA	Gilbert River	Rural	900	3192	The daily volumetric limit that may be taken under this licence is 72.6ML. See table 3, reference 'G'.

**Table 3. Detailed licence conditions**

Reference	Detailed flow condition
A	The taking of water under the authority of this water licence is permitted only when the flow passing the impoundment authorised by licence 43641J exceeds 0.5 cubic metres per second.
B	The taking of water under the authority of this water licence is permitted only when the flow passing the point from which water is taken exceeds 1 cubic metre per second.
C	The taking of water under the authority of this water licence is permitted only when the flow passing the point from which water is taken exceeds 5 cubic metres per second.
D	The taking of water under the authority of this water licence is permitted only when the flow passing Gauging Station 915008A on Flinders River at Richmond exceeds 5 cubic metres per second.
E	The taking of water under the authority of this water licence is permitted only when the flow passing the point from which water is taken exceeds 23 cubic metres per second.
F	<p>Water may be taken under the authority of this licence only:</p> <ul style="list-style-type: none"> <li>a) For the period 1 October to 31 December in any year, provided that— <ul style="list-style-type: none"> <li>(i) a flow exceeding 10 cubic metres per second has occurred on or after 1 October in the Gilbert River at the department's Rockfields gauging station 917001D; or</li> <li>(ii) on any day water is taken, if a flow in the Gilbert River at the department's Rockfields gauging station 917001D exceeding 10 cubic metres per second has not occurred on or after 1 October in the year, no more than 30 days has elapsed since the occurrence of a flow exceeding 10 cubic metres per second in the Gilbert River at the department's Rockfields gauging station.</li> </ul> </li> <li>b) For the period 1 January to 31 May in any year— <ul style="list-style-type: none"> <li>(i) provided that a flow in the Gilbert River at the department's Rockfields gauging station 917001D exceeding 10 cubic metres per second has occurred on or after 1 October of the preceding year; or</li> <li>(ii) if a flow in the Gilbert River at the department's Rockfields gauging station 917001D exceeding 10 cubic metres per second has not occurred on or after 1 October of the preceding year, provided that the rate at which water is taken does not exceed 50 per cent of the daily volumetric limit specified for the licence until the day the flow in the Gilbert River specified in paragraph (b)(i) occurs.</li> </ul> </li> <li>c) For the period 1 June to 30 September in any year— <ul style="list-style-type: none"> <li>(i) provided that on any day water is taken, no more than 30 days has elapsed since the occurrence of a flow exceeding 10 cubic metres per second in the Gilbert River at the department's Rockfields gauging station 917001D; or</li> <li>(ii) provided that on any day water is taken, more than 30 and no more than 75 days has elapsed since the occurrence of a flow exceeding 10 cubic metres per second in the Gilbert River at the department's Rockfields gauging station 917001D and the rate at which water is taken does not exceed 50 per cent of the daily volumetric limit specified for the licence.</li> </ul> </li> </ul>

<sup>8</sup> These licences have been granted to replace the authorities to take water that previously existed as conditions of water licence No 100038.



G	<p>Water may be taken under the authority of this licence only:</p> <ul style="list-style-type: none"> <li>a) For the period 1 October to 31 December in any year, provided that— <ul style="list-style-type: none"> <li>(i) a flow exceeding 10 cubic meters per second has occurred on or after 1 October in the Gilbert River at the department's Rockfields gauging station 917001D; or</li> <li>(ii) on any day water is taken, if a flow in the Gilbert River at the department's Rockfields gauging station 917001D exceeding 10 cubic meters per second has not occurred on or after 1 October in the year, no more than 30 days has elapsed since the occurrence of a flow exceeding 10 cubic meters per second in the Gilbert River at the department's Rockfields gauging station.</li> </ul> </li> <li>b) For the period 1 January to 31 May in any year— <ul style="list-style-type: none"> <li>(i) provided that a flow in the Gilbert River at the department's Rockfields gauging station 917001D exceeding 10 cubic meters per second has occurred on or after 1 October of the preceding year.</li> </ul> </li> <li>c) For the period 1 June to 30 September in any year— <ul style="list-style-type: none"> <li>(i) provided that on any day water is taken, no more than 30 days has elapsed since the occurrence of a flow exceeding 10 cubic meters per second in the Gilbert River at the department's Rockfields gauging station 917001D.</li> </ul> </li> </ul>
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**Attachment 10****Water supply scheme storage curves****Table 1. Julius Dam Storage Curve—(Ref: SunWater Plan Number A3-211928)**

Water Level (RL metres AHD)	Storage Volume (megalitres)	Surface Area (hectares)	
196.80	0	0	
198.00	9	2	
199.00	55	7	
200.00	170	17	
201.00	429	36	
202.00	893	58	
203.00	1589	81	
204.00	2500	102	
205.00	3673	131	
206.00	5104	156	
207.00	6817	187	
207.69	8190	210	Nominal operating
208.00	8846	220	
209.00	11 229	255	
210.00	13 942	288	
211.00	16 988	322	
212.00	20 393	361	
213.00	24 234	409	
214.00	28 610	467	
215.00	33 582	528	
216.00	39 183	592	
217.00	45 465	668	
218.00	52 585	756	
219.00	60 562	839	
220.00	69 391	925	
221.00	79 033	1004	
222.00	89 501	1092	
223.00	100 905	1192	
223.54	107 500	1255	Full Supply Level
224.00	113 425	1316	
225.00	127 292	1460	
226.00	142 592	1597	
227.00	159 257	1737	
228.00	177 314	1876	
229.00	196 795	2024	
230.00	217 865	2194	
231.00	240 699	2375	
232.00	265 355	2557	
233.00	291 898	2757	

**Table 2. Lake Moondarra Storage Curve (Ref: Plan S 24755)**

Water Level (RL metres AHD)	Storage Volume (megalitres)	Surface Area (hectares)	
309.44	0	0	
310.96	494	41	
312.49	1235	77	
314.01	3335	146	
314.17	3640	154	Dead Storage Level
315.53	6175	223	
317.06	10 498	344	
318.58	16 796	458	
319.29	21 367	555	
320.11	26 670	668	
321.63	39 118	944	
323.15	56 237	1276	
324.68	79 015	1713	
326.20	106 833	2187	Full Supply Level
327.73	137 085	2487	
329.25	185 250	3078	
330.77	233 415	3584	