

Warrego, Paroo, Bulloo and Nebine Resource Operations Plan

January 2006

Amended February 2016

(Revision 1)

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Contents

Chapter 1	Preliminary	1
1	Interpretation of words used in this plan	1
2	Commencement of this plan	1
3	Plan area.....	1
4	Water to which this plan applies.....	1
5	Resource operations licence holder	1
6	Water management areas.....	1
7	Resource operations plan zone.....	1
8	Information about areas, scheme and zones	2
9	Departmental water monitoring data collection standards and data reporting standards.....	2
10	Metering	2
11	Interim program	2
12	Operating rules and monitoring requirements.....	3
13	Addressing water resource plan outcomes.....	3
14 to 16	section numbers not used	3
Chapter 2	Cunnamulla Water Supply Scheme	4
17	Application of chapter 2.....	4
Part 1	Operating rules	4
18	Storing and releasing water for stock and domestic purposes	4
Part 2	Water sharing rules	4
19	Taking water under a water allocation.....	4
20	Announced allocations	4
21	Calculation of announced allocations	5
Part 3	Dealing with water allocations	6
Division 1	Subdivision and amalgamation of water allocations	6
22	Subdivisions and amalgamations	6
Division 2	Water allocation change rules.....	6
Subdivision 1	Permitted changes	6
23	Purpose	6
Subdivision 2	Prohibited changes.....	6
24	Location.....	6
Part 4	Seasonal water assignment rules	6
25	Seasonal water assignment rules.....	6
26 to 29	section numbers not used	6
Chapter 3	Rules for unsupplemented water allocations	7
Part 1	Water sharing and data collection rules	7

30	Announced period for the Upper and Lower Warrego water management areas	7
31	Taking water under a water allocation.....	7
32	Water allocation holder data collection and transfer	7
Part 2	Dealing with water allocations	8
Division 1	Subdivision and amalgamation of water allocations	8
33	Subdivision and amalgamation.....	8
Division 2	Water allocation change rules.....	8
Subdivision 1	Permitted changes.....	8
34	Change of location.....	8
Subdivision 2	Assessed changes.....	8
35	Application to remove the special condition.....	8
Part 3	Seasonal water assignment rules	9
36	Seasonal water assignment rules	9
37 to 39	section numbers not used	9
Chapter 4	Water licences	10
Part 1	Dealing with water licence applications	10
40	Applications not accepted.....	10
41	Applications to interfere with water by impounding flow	10
42	Application for a water licence to replace an overland flow authority.....	11
Part 2	Granting water licences for taking overland flow water	11
43	Granting a water licence in accordance with section 37 of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016.....	11
44	Granting a water licence to allow a change to a water allocation under section 35 of this plan	11
45	Certified reports for overland flow works	11
46	Conditions for taking overland flow water.....	12
47 to 51	section numbers not used	12
Chapter 5	Monitoring and reporting	13
52	Water monitoring.....	13
53	Natural ecosystems monitoring	13
54	Assessment and reporting.....	13
55 to 58	section numbers not used	13
Chapter 6	Resource operations licence holder monitoring and reporting	14
59	Scope of chapter 6.....	14
60	Monitoring data must be made available.....	14
Part 1	Monitoring requirements	14
61	Stream flow and storage height data	14
62	Releases from Allan Tannock Weir	14

63	Stock and domestic releases from Allan Tannock Weir	14
64	Announced allocations	14
65	Water taken by water users	14
66	Seasonal water assignment of water allocations	15
Part 2	Reporting requirements	15
67	Reporting requirements	15
Division 1	Annual reporting	15
68	Annual report	15
Division 2	Operational or emergency reporting	16
69	Operational and emergency reporting	16
70 to 73	section numbers not used	16
Chapter 7	Amendments to the resource operations plan	17
74	Scope of chapter 7	17
75	Commencement of amendments	17
76	Minor or stated amendment of this plan— <i>Water Act 2000</i> , section 106	17
Attachment 1	Dictionary	18
Attachment 2	Plan area and water management areas	19
Attachment 3	Map of Cunnamulla Water Supply Scheme	20
Attachment 4	Resource operations plan zones	21
Attachment 5	Links between this plan and the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016	36
Attachment 6	Details of infrastructure operated by the resource operations licence holder for the Cunnamulla Water Supply Scheme	38

Chapter 1 Preliminary

1 Interpretation of words used in this plan

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

2 Commencement of this plan

This plan commences—

- (a) on the first business day after 14 sitting days have passed since the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 was tabled in the Legislative Assembly; and
- (b) if the effect of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 has not ceased due to the disallowance provision stated in section 50 of the *Statutory Instruments Act 1992*.

3 Plan area

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

4 Water to which this plan applies

- (1) This plan applies to the following surface water in the plan area—
 - (a) water in a watercourse or lake;
 - (b) water in springs not connected to —
 - (i) artesian water; or
 - (ii) subartesian water connected to artesian water;
 - (c) overland flow water, other than water in springs connected to—
 - (i) artesian water; or
 - (ii) subartesian water connected to artesian water; and
- (2) This plan also applies to the following groundwater in the plan area—
subartesian water not connected to artesian water.

5 Resource operations licence holder

- (1) A resource operations licence holder for this plan is the resource operations licence holder for the Cunnamulla Water Supply Scheme.
- (2) The location of the Cunnamulla Water Supply Scheme is illustrated on the map in attachment 3.
- (3) The infrastructure associated with the resource operations licence is described in attachment 6.

6 Water management areas

Each water management area shown on the map in attachment 2 is a water management area for this plan.

7 Resource operations plan zone

- (1) Each zone shown on the maps in attachment 4 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 weir within the zone.

8 Information about areas, scheme and zones

The locations of the boundaries of the plan area, water supply scheme, water management areas and zones are held in digital electronic form by the department¹.

9 Departmental water monitoring data collection standards and data reporting standards

- (1) Where this plan requires monitoring by the resource operations licence holder, including measurement, collection, analysis and storage of data, the resource operations licence holder must ensure the monitoring is consistent with the Water Monitoring Data Collection Standards².
- (2) Where this plan requires transfer of data or reporting by a resource operations licence holder, the resource operations licence holder must ensure the transfer or reporting is consistent with the Water Monitoring Data Reporting Standards³.

10 Metering

The resource operations licence holder must meter the taking of water under all water allocations and seasonal water assignments managed under their resource operations licence.

11 Interim program

- (1) This section applies where a resource operations licence holder is unable to meet the requirements of this plan.
- (2) The resource operations licence holder may, at any time, submit an interim program or an amendment to an existing program to the chief executive for approval if the holder proposes to operate in a way that is different to the requirements of this plan.
- (3) Any submitted interim program or amendment to an existing program by the resource operations licence holder must include a timetable and interim methods to be used.
- (4) In considering any submitted program, the chief executive—
 - (a) may request additional information from the resource operations licence holder; and
 - (b) must consider the public interest.
- (5) In deciding any submitted program, the chief executive may either—
 - (a) approve the program, including with conditions; or
 - (b) amend and approve the amended program; or
 - (c) request the resource operations licence holder to submit a revised program.
- (6) Within 10 business days of making a decision on a submitted program, the chief executive must notify the resource operations licence holder of the decision.
- (7) Following approval of the program by the chief executive, the resource operations licence holder must—
 - (a) publish the approved program; and
 - (b) operate in accordance with the approved program.

¹ The boundaries held in digital electronic form may be inspected at any of the department's offices.

² The Water Monitoring Data Collection Standards can be inspected at any of the department's offices or accessed online at: <www.dnrm.qld.gov.au>

³ The Water Monitoring Data Reporting Standards can be inspected at any of the department's offices or accessed online at: <www.dnrm.qld.gov.au>

- (8) Where there is conflict between the provisions of this plan and an approved program, the program prevails for the time it is in place.

12 Operating rules and monitoring requirements

The operating rules and monitoring requirements of this plan do not apply in situations where implementing the rules or meeting the requirements would be unsafe to a person or persons.

13 Addressing water resource plan outcomes

Attachment 5 lists the outcomes of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2015 and how this plan addresses those outcomes.

14 to 16 section numbers not used

Chapter 2 Cunnamulla Water Supply Scheme

17 Application of chapter 2

This chapter applies to—

- (a) the resource operations licence holder for Cunnamulla Water Supply Scheme; and
- (b) all water allocations associated with the Cunnamulla Water Supply Scheme.

Part 1 Operating rules

18 Storing and releasing water for stock and domestic purposes

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

Part 2 Water sharing rules

19 Taking water under a water allocation

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

20 Announced allocations

- (1) The resource operations licence holder must—
 - (a) set an announced allocation for water allocations to take effect on the first day of each water year in accordance with section 21;
 - (b) following the commencement of a water year—
 - (i) if the announced allocation percentage is less than 100 percent—recalculate the announced allocation periodically throughout the water year; and

- (ii) reset the announced allocation—if a recalculation indicates that the announced allocation would—
 - (A) increase by five or more percentage points; or
 - (B) increase to 100 percent.
 - (c) within five business days of setting or resetting the announced allocation, publish details of the announced allocation, including the parameters used in its determination.
- (2) The announced allocation—
- (a) must be rounded to the nearest percent;
 - (b) must not be greater than 100 per cent; and
 - (c) must not be reduced during the water year.

21 Calculation of announced allocations

The resource operations licence holder must calculate the announced allocation for water allocations using the following formula—

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

In this section, the parameters for the formula are—

Parameter	Definition
UV	<p>The useable volume of Allan Tannock Weir as determined by the following equation—</p> <p>If $(CV - DSV - SL - SD) > 0$ then $UV = CV - DSV - SL - SD$ otherwise $UV = 0$</p> <p>Where—</p> <p>CV is the current volume in storage. DSV is the dead storage volume in storage (refer to Attachment 6). SL is the projected storage loss (calculated using data in Table 2.1) from Allan Tannock Weir for the remainder of the water year. The storage loss is to be calculated by using the value next to the current month multiplied by the current surface area of the storage. SD is the volume of stock and domestic water held in account at the time of calculation of the announced allocation.</p>
DIV	The diverted volume of water taken by medium priority water allocation holders in the current water year up to the time of the calculation of the announced allocation.
MPA	The total nominal volume of medium priority water allocations.
AA _M	Medium priority announced allocation - percentage of the water allocation supply volume for medium priority water in the Cunnamulla Water Supply Scheme that may be taken for the water year.

Table 2.1 – Storage Loss Depth for Allan Tannock Weir

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

Part 3 Dealing with water allocations

Division 1 Subdivision and amalgamation of water allocations

22 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 change would result in a nominal volume that is a whole megalitre;.
- (2) Amalgamation of water allocations is permitted where 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.

Division 2 Water allocation change rules

Subdivision 1 Permitted changes

23 Purpose

A change to the purpose of a water allocation is permitted where the change results in the purpose being 'any'.

Subdivision 2 Prohibited changes

24 Location

A change to the zone from which water may be taken under a water allocation is prohibited.

Part 4 Seasonal water assignment rules

25 Seasonal water assignment rules

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

26 to 29 section numbers not used

Chapter 3 Rules for unsupplemented water allocations

Part 1 Water sharing and data collection rules

- 30 Announced period for the Upper and Lower Warrego water management areas**
- (1) Water may only be taken under a water allocation with flow and/or special conditions located in the Upper and Lower Warrego water management areas during an announced period.
 - (2) The chief executive must announce the start and end of an announced period during which water may be taken under water allocations.
 - (3) The chief executive will determine the start and end of an announced period having regard to the following—
 - (a) if more than six months has passed since a passing flow greater than 1,000 megalitres per day has occurred at the flow reference point, an announced period is where—
 - (i) the passing flow related to the flow reference point is greater than the rate specified in the flow conditions on the water allocation; and
 - (ii) 36 hours has lapsed since the flow peak has passed; or
 - (iii) the passing flow related to the flow reference point has exceeded the rate specified in the special conditions on the water allocation.
 - (b) if less than six months has passed since a passing flow of greater than 1,000 megalitres per day has occurred at the flow reference point, an announced period is where—
 - (i) the passing flow related to the flow reference point is greater than the rate specified in the flow conditions on the water allocation; and
 - (ii) the flow peak has passed; or
 - (iii) the passing flow related to the flow reference point has exceeded the rate specified in the special conditions on the water allocation.
- 31 Taking water under a water allocation**
- The volumetric limit is the maximum volume of water in megalitres that may be taken under a water allocation in a water year.
- 32 Water allocation holder data collection and transfer**
- (1) The water allocation holder or any assignee must record meter readings, time and date—
 - (a) at the start of taking water; and
 - (b) at the end of taking water.
 - (2) The water allocation holder or any assignee must transfer the data recorded under subsection (1) to the chief executive –
 - (a) within two business days following the event for water taken under a water allocation with flow conditions; or

- (b) within two business days of the end of the quarter for water taken under a water allocation with a nil flow condition.

Part 2 Dealing with water allocations

Division 1 Subdivision and amalgamation of water allocations

33 Subdivision and amalgamation

- (1) The subdivision of a water allocation ('the original allocation') into two or more water allocations is permitted provided—
 - (a) the new water allocations have the same flow conditions and location as the original allocation;
 - (b) the sum of the nominal volumes, rates of take and volumetric limits of the new water allocations each equal the nominal volume, rate of take and volumetric limit of the original allocation;
 - (c) the change would result in a nominal volume that is a whole megalitre; and
 - (d) the proportional change in the maximum rate of take is equal to the proportional change in the volumetric limit.
- (2) Two or more water allocations may be amalgamated into a new water allocation provided—
 - (a) the water allocations have the same flow conditions and location; and
 - (b) the nominal volume, rate of take and annual volumetric limit of the new water allocation are equal to the sum of each of the nominal volumes, rates of take and volumetric limits of the allocations that are being amalgamated.

Division 2 Water allocation change rules

Subdivision 1 Permitted changes

34 Change of location

- (1) This section applies to a water allocation that has a flow condition that allows water to be taken when there is no passing flow ('a nil passing flow condition').
- (2) A change to the location for the taking of water under a water allocation is permitted provided —
 - (a) there is no change to the zone from which water may be taken;
 - (b) after the change is made, the 'place' component of the location of the water allocation is limited to an area no larger than the ponded area of the waterhole or weir from which the water will be taken; and
 - (c) after the change is made, the allocation can only take water from a waterhole or weir when there is a visible flow passing downstream of the waterhole or weir control.

Subdivision 2 Assessed changes

35 Application to remove the special condition

- (1) This section applies to an application to change a special condition on a water allocation that requires water taken under the allocation to be stored in particular works, where the works allow taking of overland flow water.

- (2) The chief executive must not approve the change unless the chief executive makes a decision, in accordance with chapter 4, part 2 of this plan, about a water licence for taking overland flow water.

Part 3 Seasonal water assignment rules

36 Seasonal water assignment rules

The chief executive may approve a seasonal assignment of a water allocation provided that—

- (a) there is no change to the zone for the take of water under a seasonal assignment;
- (b) the water allocation does not have a special condition that requires it to be stored in particular works;
- (c) the flow condition under which water may be taken under seasonal assignment is the same as the flow condition for the water allocation that is being seasonally assigned; and
- (d) if the water allocation being seasonally assigned has a nil passing flow condition then the allocation can only take water from a waterhole or weir when there is a visible flow passing downstream of the waterhole or weir control.

37 to 39 section numbers not used

Chapter 4 Water licences

Part 1 Dealing with water licence applications

40 Applications not accepted

The chief executive must not accept an application made under section 206 or 216 of the *Water Act 2000* unless this plan provides for accepting and dealing with the application.

41 Applications to interfere with water by impounding flow

- (1) This section applies to an application to interfere with water in a watercourse.
- (2) The chief executive may accept an application if the purpose of the proposed interference is—
 - (a) to provide a pumping pool to enable the taking of water under a water entitlement or other authorisation under the *Water Act 2000*;
 - (b) to store water for stock or domestic uses; or
 - (c) to store water for town water supply—
 - (i) to enable the taking of water under a water allocation to supply town water; and
 - (ii) where the application is made by a local government.
- (3) The chief executive must refuse an application for a water licence to interfere with water—
 - (a) for the purpose described in subsection (2)(a) if the total volume of the proposed storage is greater than two megalitres;
 - (b) for the purpose described in subsection (2)(b) if the total volume of the proposed storage is greater than the reasonable annual volume assessed for water requirements for stock or domestic purposes for the property considering—
 - (i) existing water supplies on the property, including existing water storages, groundwater and dams taking overland flow water; and
 - (ii) the local availability of water at the proposed site.
 - (c) for the purpose described in subsection 2(c) where the chief executive decides to not grant the application to change a water allocation of the type mentioned in subsection (4).
- (4) Before granting an application for a water licence for the purpose defined in subsection (2)(c)—
 - (a) the applicant must have applied to change the water allocation that is intended to authorise the take of water associated with the proposed interference by—
 - (i) reducing the volumetric limit of the allocation by an amount that would not allow an increase in the average volume of water available to be taken from the plan area;
 - (ii) removing any condition stating a flow threshold for taking water; and
 - (iii) requiring that the allocation be taken only from the impounded area;
 - (b) the chief executive may also change the maximum rate of take on the water allocation; and

- (c) the chief executive must have approved the change.
- (5) The chief executive may include conditions on a water licence—
 - (a) that maintain the passing flows provided under the flow threshold condition on the water allocation; and
 - (b) that limit the maximum volume of the storage to a size no greater than that necessary for the purpose, having regard to—
 - (i) the conditions of the associated water allocation; and
 - (ii) the local availability of water.

42 Application for a water licence to replace an overland flow authority

An application for a water licence to replace an overland flow authority may be accepted and dealt with under the provisions of part 2 of this chapter.

Part 2 Granting water licences for taking overland flow water

43 Granting a water licence in accordance with section 37 of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016

- (1) The chief executive may at any time grant a licence for the take of overland flow water to replace the authority under section 34 of the repealed Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2003;
- (2) Before granting a water licence under subsection (1), the chief executive must issue a notice to the owner of the land—
 - (a) clearly identifying the existing works; and
 - (b) stating that a water licence will be granted for the take of overland flow water for the existing works.
- (3) A notice under subsection (2) may also request the owner of the land to provide a certified report about the existing works.
- (4) In making a decision about granting a licence under subsection (1), the chief executive must consider any certified report available to the chief executive about the existing works.

44 Granting a water licence to allow a change to a water allocation under section 35 of this plan

- (1) This section applies if an application is received under section 35 of this plan, for a change to a water allocation to remove a special condition.
- (2) To enable the chief executive to determine the conditions for granting the water licence, the chief executive may issue a notice requiring the owner of land on which existing works that take overland flow are located to provide a certified report in accordance with section 45.
- (3) The chief executive may then grant a licence under section 43.

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

46 Conditions for taking overland flow water

- (1) A water licence for taking overland flow water must be granted by the chief executive in accordance with section 28 of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016.
- (2) The chief executive may impose conditions in addition to those mentioned in section 28 of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016, including—
 - (a) a limit on the amount of water that can be taken in a period; and
 - (b) a limit on the volume that can be stored at any time.
- (3) Subsection (2) does not limit the conditions which the chief executive may impose.

47 to 51 section numbers not used

Chapter 5 Monitoring and reporting

52 Water monitoring

The chief executive must measure or collect and keep publicly available, records of—

- (a) water quantity;
- (b) water taken;
- (c) nominal volume of water permanently traded and seasonally assigned;
- (d) the number of permanent trades and seasonal assignments; and
- (e) pricing information about water that has been permanently traded.

53 Natural ecosystems monitoring

The chief executive must collect and record information on ecological assets that are linked to the ecological outcomes of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016.

54 Assessment and reporting

The chief executive must make ongoing assessments of whether the trends in the data measured, collected and recorded under section 52 and section 53 of this plan indicate that outcomes specified in the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 are being achieved.

55 to 58 section numbers not used

Chapter 6 Resource operations licence holder monitoring and reporting

59 Scope of chapter 6

This chapter sets out the monitoring and reporting requirements that apply to the resource operations licence holder for the Cunnamulla Water Supply Scheme.

60 Monitoring data must be made available

The resource operations licence holder must provide any monitoring data required under this chapter to the chief executive upon request and within the time requested.

Part 1 Monitoring requirements

61 Stream flow and storage height data

- (1) The resource operations licence holder must record storage height and volume and stream flow data in accordance with table 6.1.
- (2) Storage inflows may be determined based upon a storage inflow derivation technique supplied by the resource operations licence holder and approved by the chief executive.
- (3) Tailwater flows may be estimated using the release curve developed for the discharge works that is supplied by the resource operations licence holder and approved by the chief executive.

Table 6.1: Continuous time series height and volume data and daily flow data requirements

Continuous time series storage height and volume data	Daily flow data
	Allan Tannock Weir inflow
Allan Tannock Weir headwater	
	Allan Tannock Weir tailwater

62 Releases from Allan Tannock Weir

- (1) The resource operations licence holder must measure and record for each release of water from the storage, the daily volume released.
- (2) The resource operations licence holder must record the reason for each release.

63 Stock and domestic releases from Allan Tannock Weir

The resource operations licence holder must record —

- (a) decisions made under section 18; and
- (b) the basis of each decision.

64 Announced allocations

The resource operations licence holder must record details of announced allocation determinations including—

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

65 Water taken by water users

The resource operations licence holder must record the total volume of water taken by each water user as follows—

- (a) the total volume of water taken annually;
- (b) the total volume of water entitled to be taken; and
- (c) the basis for determining the total volume of water entitled to be taken.

66 Seasonal water assignment of water allocations

The resource operations licence holder must record details of seasonal water assignment arrangements, including—

- (a) the name of the assignee, volume and location of water that has been seasonally assigned by an assignor;
- (b) the name of the assignor, volume and location of the water that has been seasonally assigned to an assignee; and
- (c) the effective date of seasonal water assignments.

Part 2 Reporting requirements

67 Reporting requirements

The resource operation licence holder must submit to the chief executive—

- (a) an annual report; and
- (b) if required—an operational report or emergency report.

Division 1 Annual reporting

68 Annual report

The resource operations licence holder must submit an annual report to the chief executive after the end of the water year that includes:

- (a) a summary of announced allocation determinations, including—
 - (i) an evaluation of the announced allocation procedures and outcomes; and
 - (ii) the date and value for the initial announced allocation and for each change made to an announced allocation;
- (b) a summary of operational and emergency reporting;
- (c) streamflow and storage height—all records in section 61 of this plan;
- (d) the total volume of water taken by each water user, specified by zone, including—
 - (i) the total volume of supplemented water taken; and
 - (ii) the total volume of supplemented water entitled to be taken; and
 - (iii) the basis for determining the volume entitled to be taken.
- (e) records of releases from Allan Tannock Weir under sections 62 and 63;
- (f) the total number of seasonal water assignment arrangements and the total volume of water seasonally assigned;
- (g) all details of changes to infrastructure or the operation of the infrastructure that may impact on compliance with rules in this plan;

- (h) details of any new monitoring devices used, such as equipment to measure stream flow; and
- (i) the details and status of any programs implemented under section 11 of this plan.

Division 2 Operational or emergency reporting

69 Operational and emergency reporting⁴

The resource operations licence holder must—

- (1) notify the chief executive upon becoming aware of—
 - (a) any of the following operational incidents—
 - (i) non-compliance by the resource operations licence holder with the rules in this plan; and
 - (ii) instances of fish stranding, blue-green algae growth or bank slumping within the ponded area of Allan Tannock Weir or watercourses associated with the operation of the Cunnamulla Water Supply Scheme; and
 - (b) an emergency where, as a result of the emergency, the resource operations licence holder cannot comply with a rule in this plan.
- (2) provide to the chief executive a report which includes—
 - (a) details of the incident or emergency;
 - (b) conditions under which the incident or emergency occurred;
 - (c) any responses or activities carried out as a result of the incident or emergency; and
 - (d) in relation to an emergency only, any rules specified in this plan that the resource operations licence holder is either permanently or temporarily unable to comply with due to the emergency.

70 to 73 section numbers not used

⁴ This does not preclude requirements for dam safety under the *Water Act 2000* and any other applicable legislation

Chapter 7 Amendments to the resource operations plan

74 Scope of chapter 7

This chapter states the types of amendments that can be made to this plan under section 106(b) of the *Water Act 2000*.

75 Commencement of amendments

- (1) 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.
- (2) Despite subsection (1), if an amendment to a resource operations plan is undertaken concurrently with an amendment to the water resource plan, the amendment to this plan commences—
 - (a) on the first business day after 14 sitting days have passed since the amended Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 was tabled in the Legislative Assembly; and
 - (b) if the effect of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 has not ceased due to the disallowance provision stated in section 50 of the *Statutory Instruments Act 1992*.

76 Minor or stated amendment of this plan—*Water Act 2000, section 106*

The following types of amendment may be made to this plan under section 106(b) of the *Water Act 2000*—

- (a) An amendment may be made to this plan if the chief executive is satisfied that the proposed amendment would not cause any significant detrimental impact on—
 - (i) existing water entitlement holders or;
 - (ii) the availability of water for—
 - (A) ecological assets; or
 - (B) natural ecosystems; and
- (b) The amendments under subsection (a) may include, but are not limited to, the following—
 - (i) an amendment that is necessary to implement an amendment to the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 made under section 57 of the *Water Act 2000*;
 - (ii) an amendment that provides for improved or more efficient monitoring and reporting requirements;
 - (iii) an amendment to infrastructure details, zones, operating rules, dealings with water allocations, water sharing rules or seasonal water assignment rules;
 - (iv) an amendment to allow the relocation of groundwater licences.

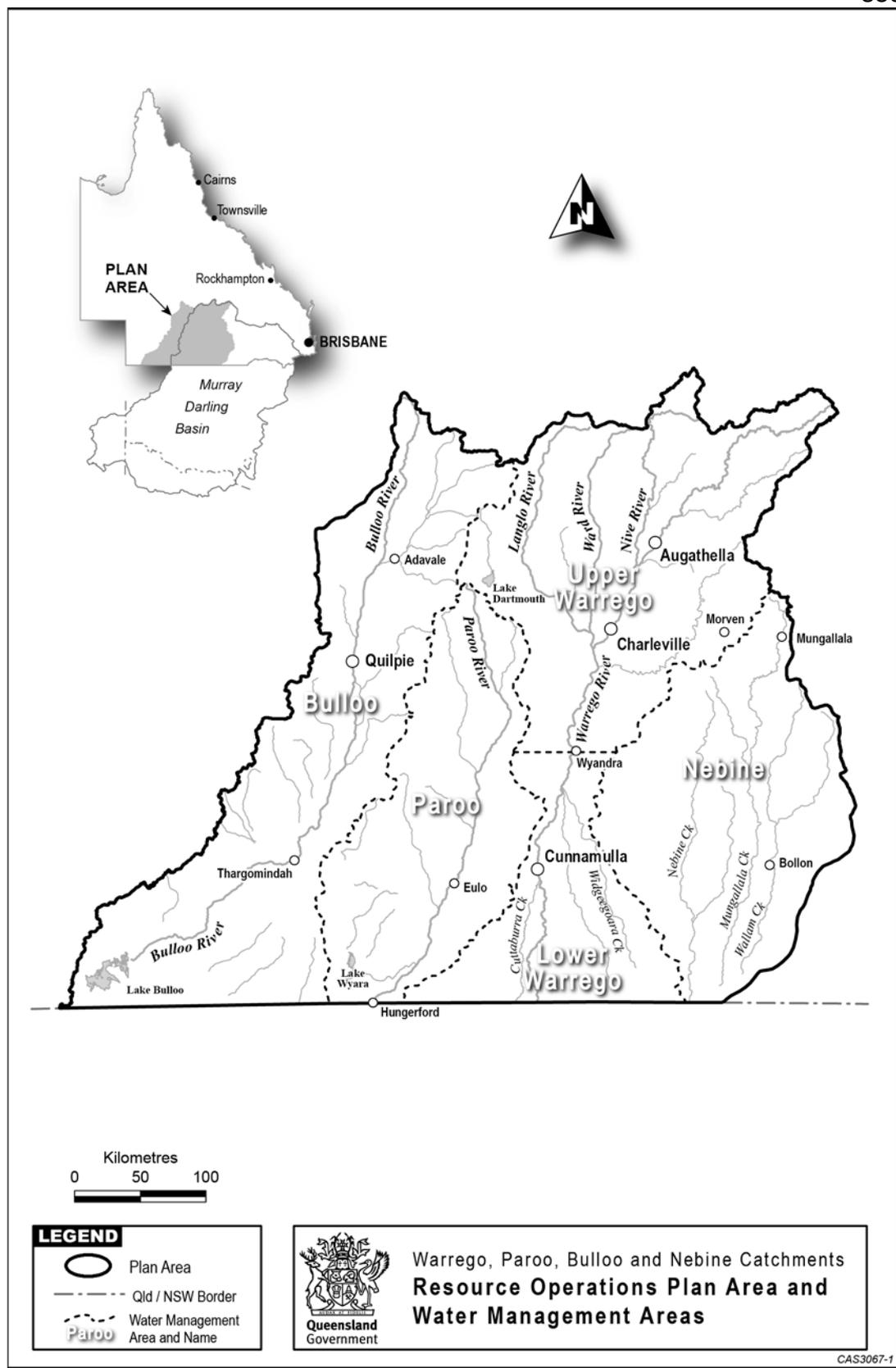
Attachment 1 Dictionary

section 1

Term	Definition
AHD	Australian Height Datum adopted by the National Mapping Council of Australia for referencing a level or height back to a standard base level.
AMTD	Adopted Middle Thread Distance is the distance in kilometres, measured along the middle of the watercourse, that a specific point in the watercourse is from— <ol style="list-style-type: none"> (a) the watercourse's mouth; or (b) if the watercourse is not a main watercourse—the watercourse's confluence with its main watercourse.
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.
announced period	The period of time, as determined and announced by the chief executive, when water may be taken in a water year under the authority of a water allocation.
emergency	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).
flow conditions	The passing flow conditions at a specified reference point as detailed on a water allocation.
flow peak	When the flow volume has not risen by more than 1 per cent in 12 hours during a flow event.
flow reference point	Means the flow reference point specified on the water allocation.
location	Location means— <ol style="list-style-type: none"> (a) for a water allocation—the zone and/or place from which water can be taken; and (b) for a water licence—the section of the watercourse, lake or spring abutting or contained by the land described on the licence, from which water may be taken.
megalitre (ML)	One million litres.
nil passing flow condition	An allocation that has as its flow condition 'nil' thus permitting water to be extracted at any time subject to availability and the conditions on the allocation and in the resource operations plan.
ponded area	Area of inundation at full supply level of a storage.
publish	Means published in a newspaper circulating generally throughout the area or published on the resource operations licence holder's internet site for the applicable water supply scheme.
special conditions	Other conditions that are specified on a water allocation.
this plan	Means the Warrego, Paroo, Bulloo and Nebine Resource Operations Plan 2016
water user	The holder of a valid water entitlement.
water year	The water year is the 12 month period from 1 July in one year to 30 June in the following year.
zone	A geographic location defined by a reach of a watercourse. A zone defines the location of a water allocation and operational arrangements under this plan.

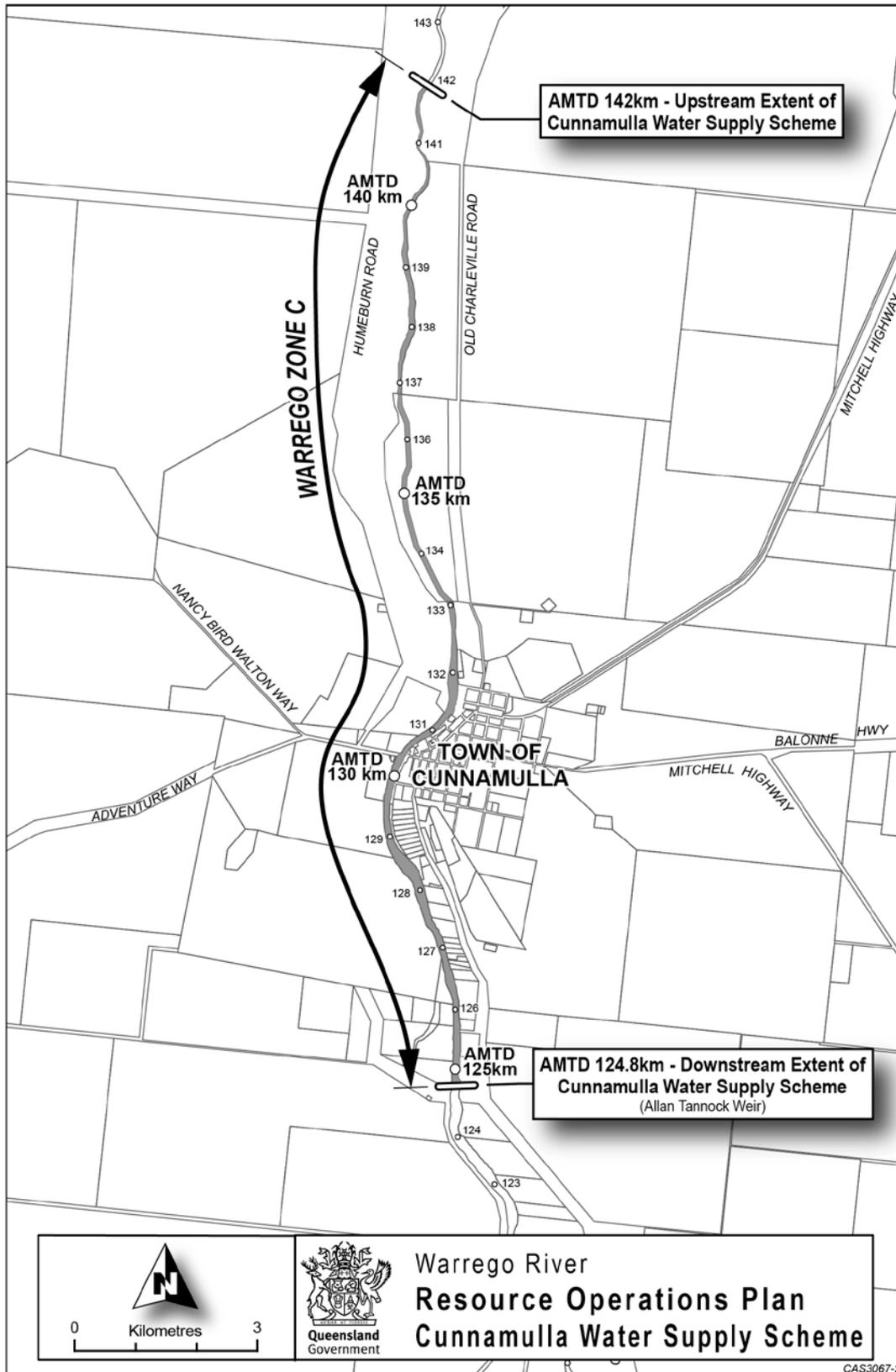
Attachment 2 Plan area and water management areas

sections 3 and 6



Attachment 3 Map of Cunnamulla Water Supply Scheme

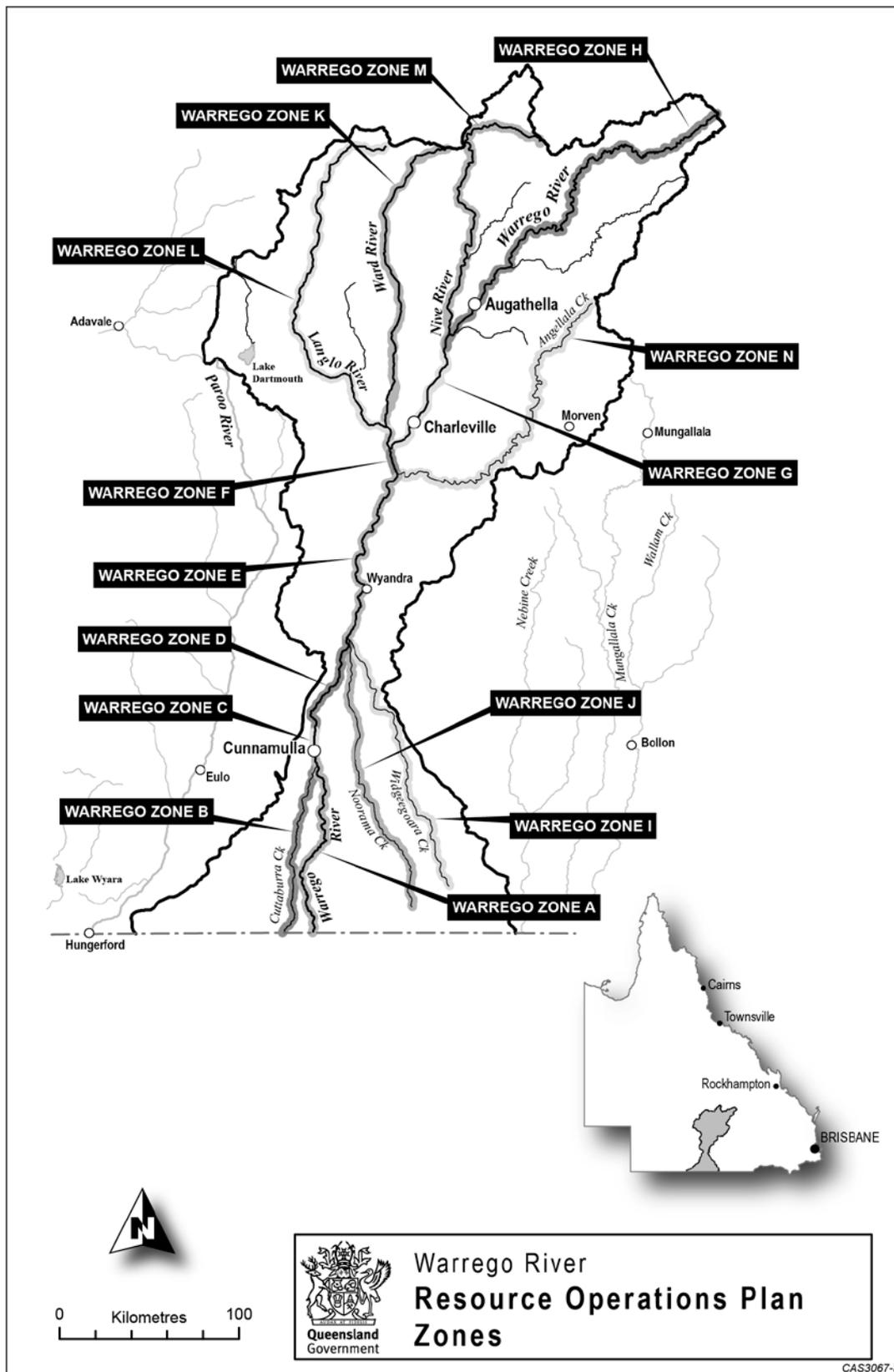
section 5 (2)



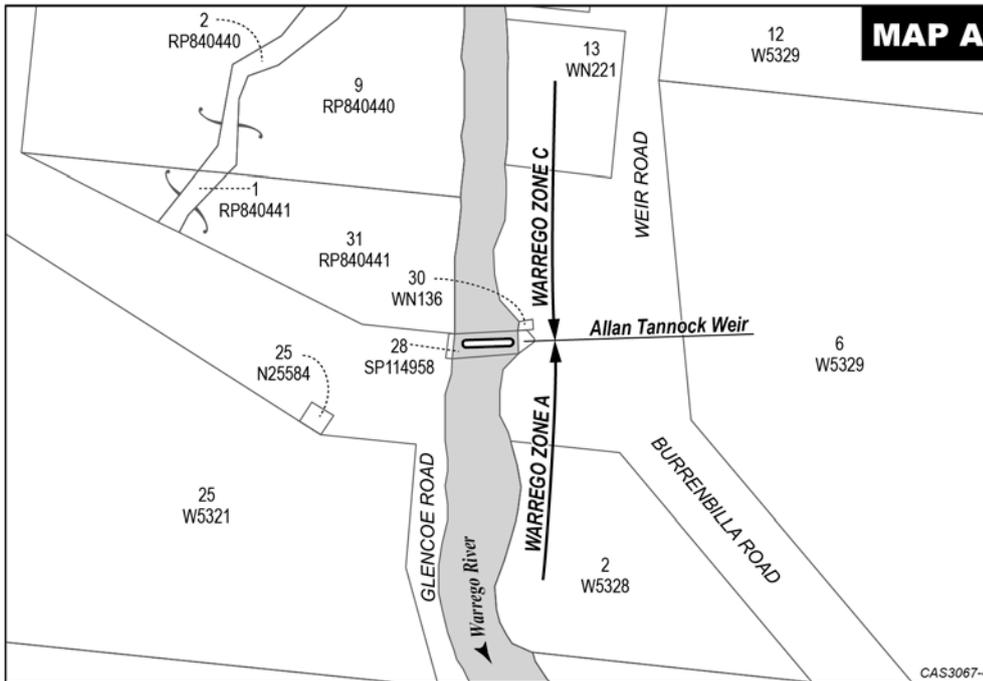
Attachment 4 Resource operations plan zones

section 7

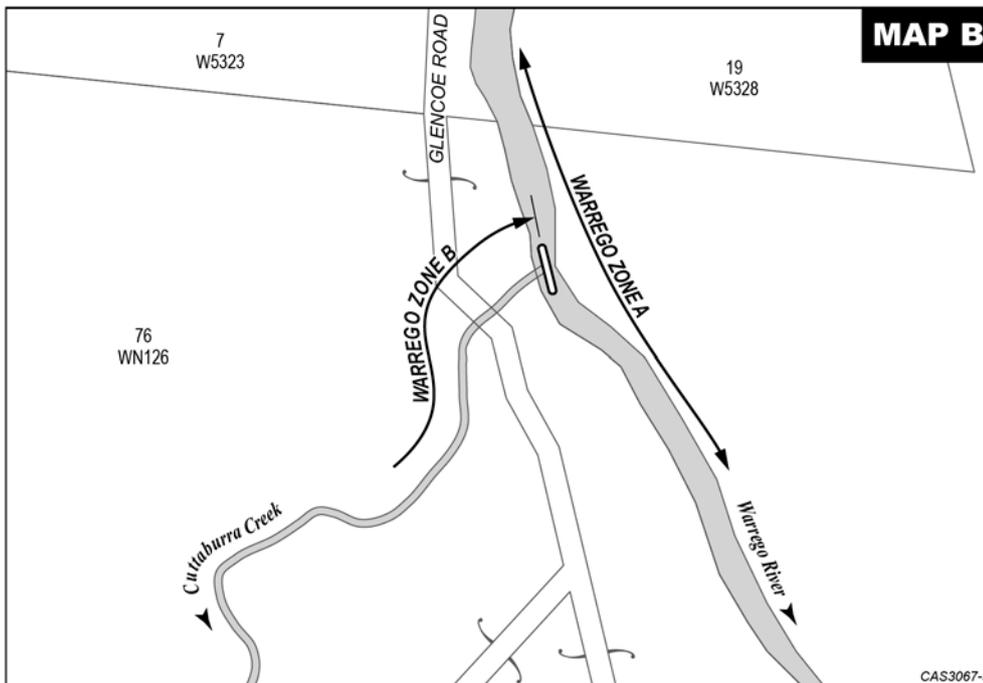
Warrego zones



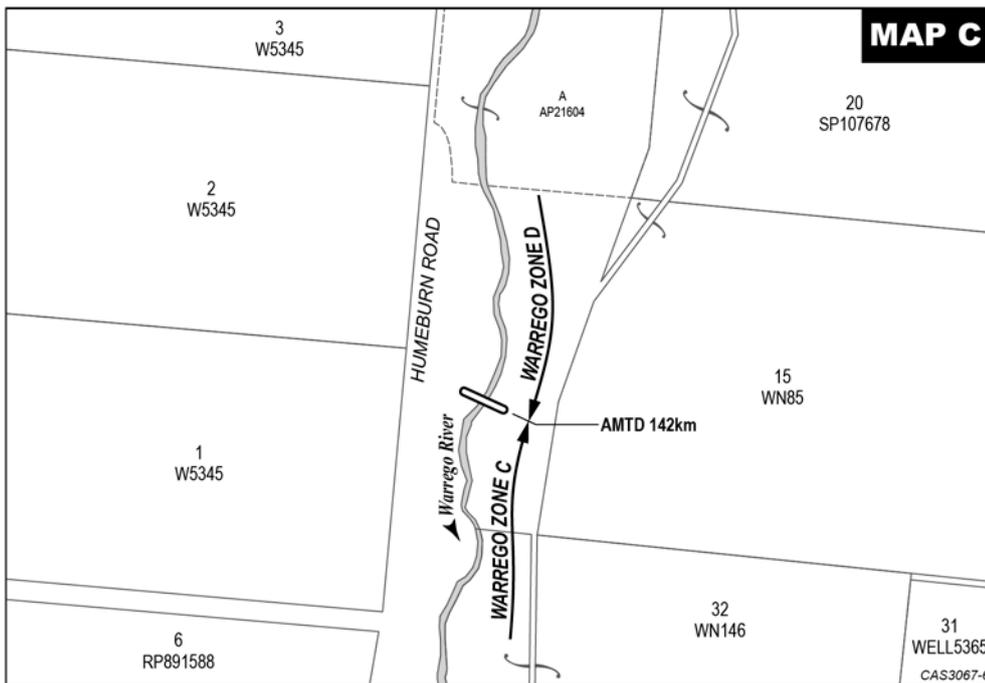
Zone boundary – Warrego zone A and Warrego zone C



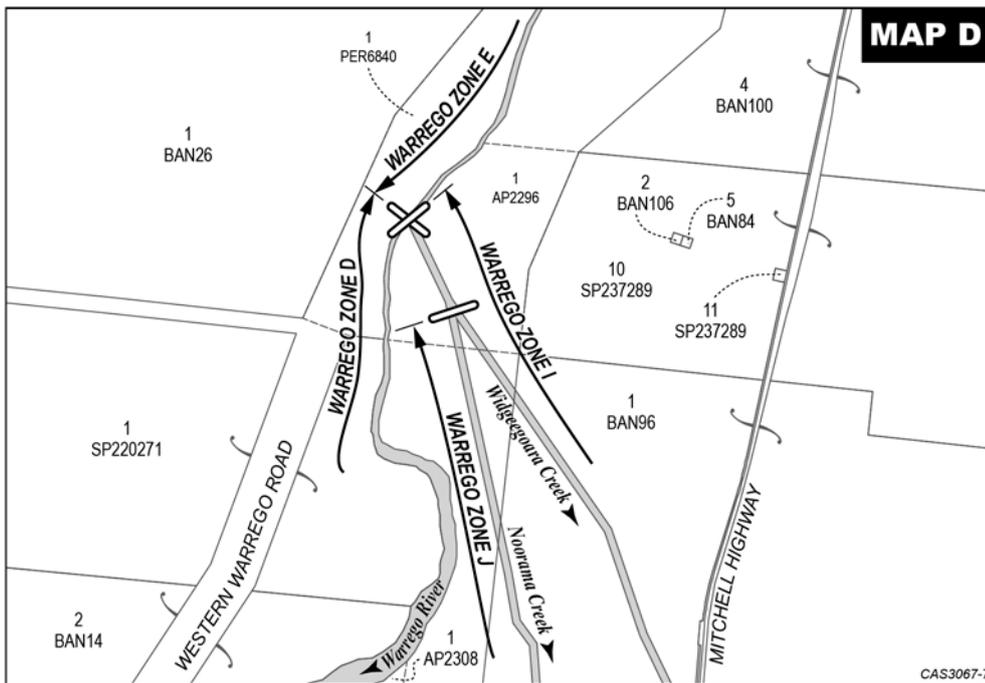
Zone boundary – Warrego zone A and Warrego zone B



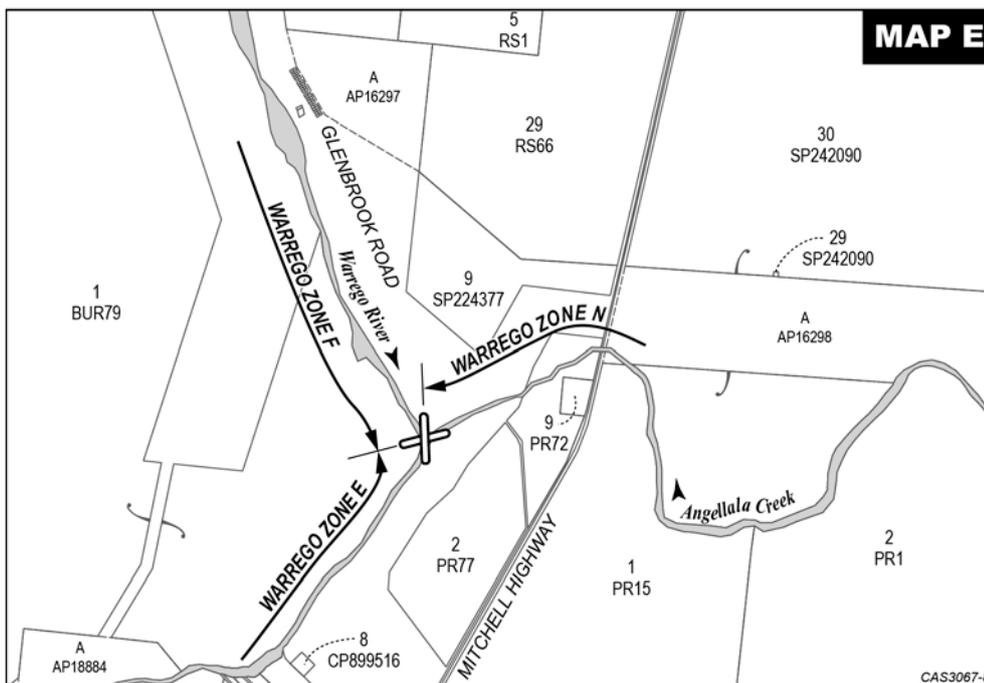
Zone boundary – Warrego zone C and Warrego zone D



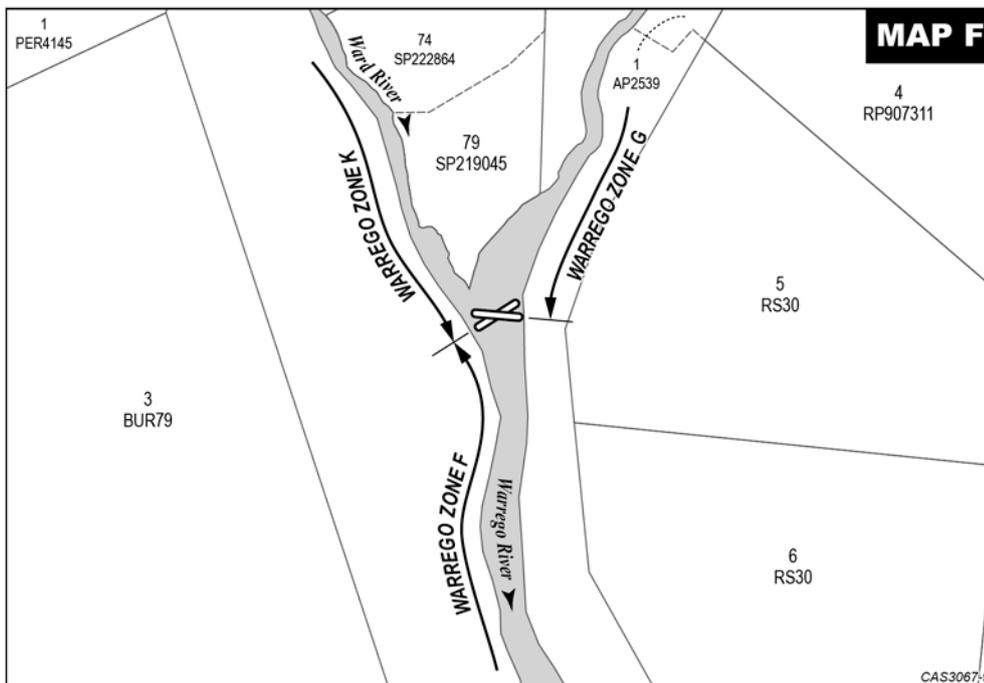
Zone boundary – Warrego zone D, Warrego zone E, Warrego zone I and Warrego zone J



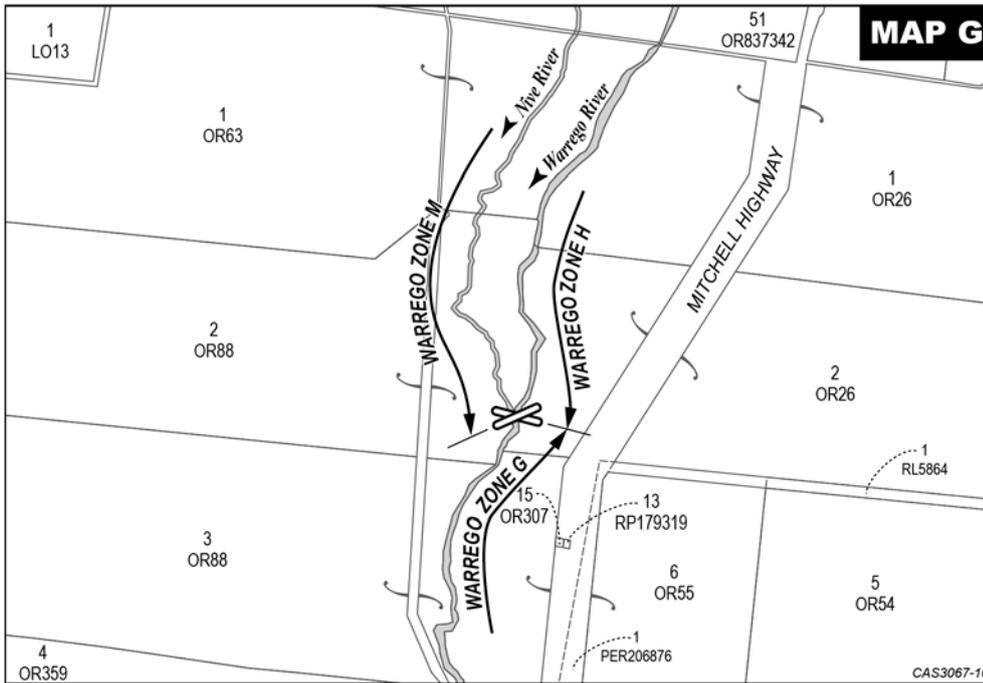
Zone boundary – Warrego zone E, Warrego zone F and Warrego zone N



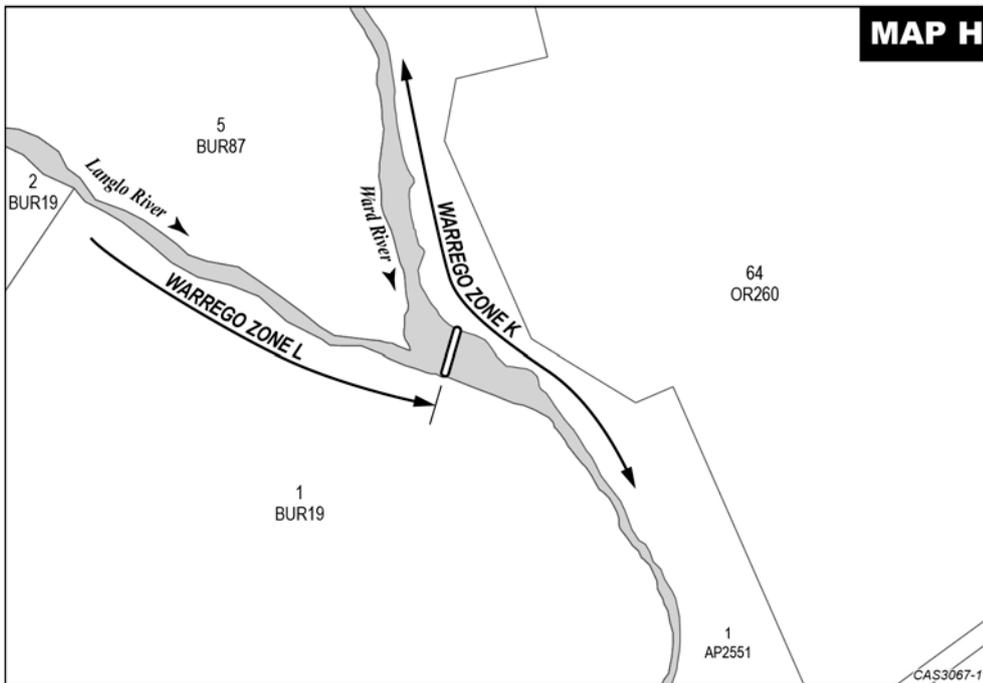
Zone boundary – Warrego zone F, Warrego zone G and Warrego zone K



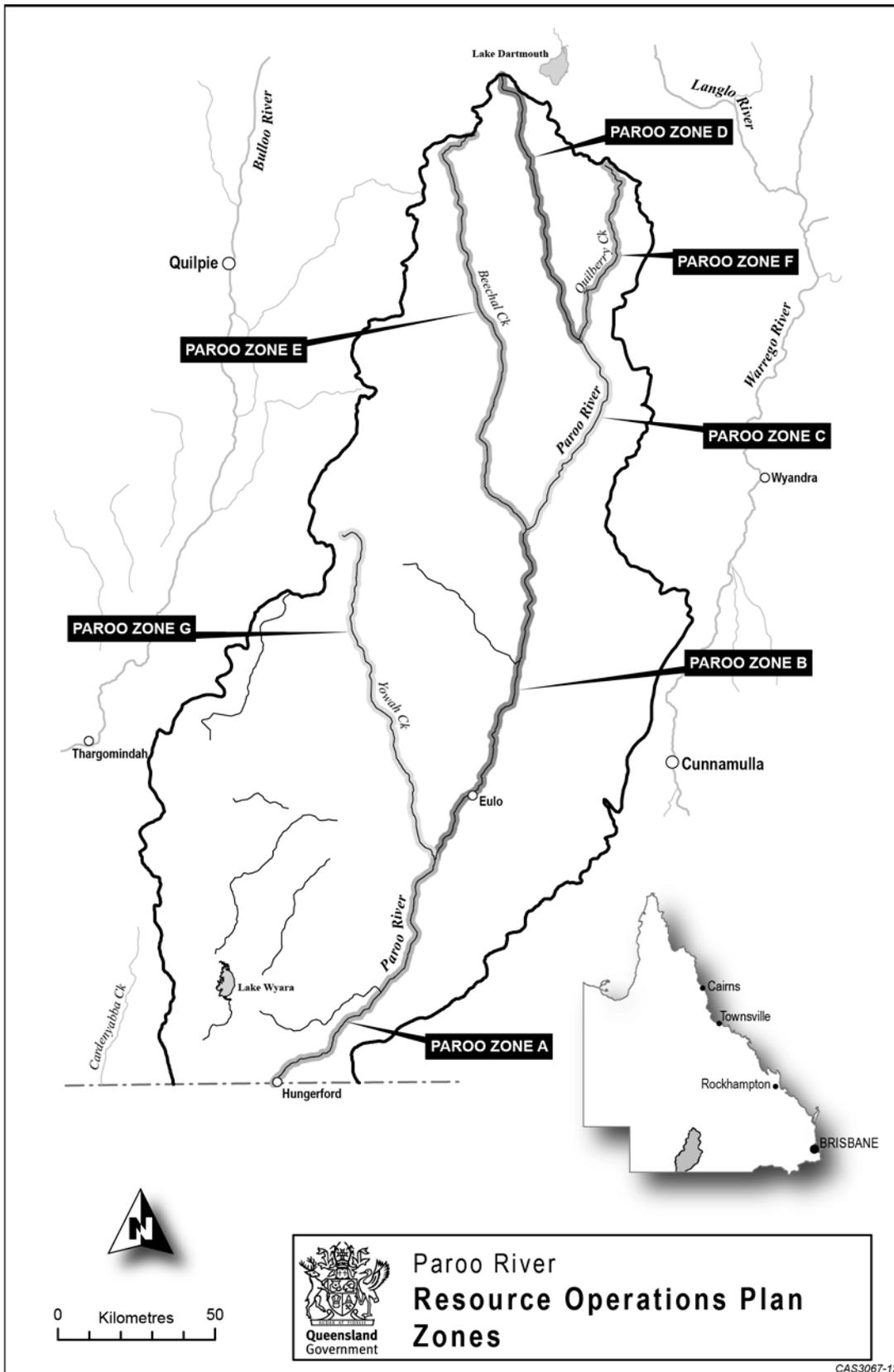
Zone boundary – Warrego zone G, Warrego zone H and Warrego zone M



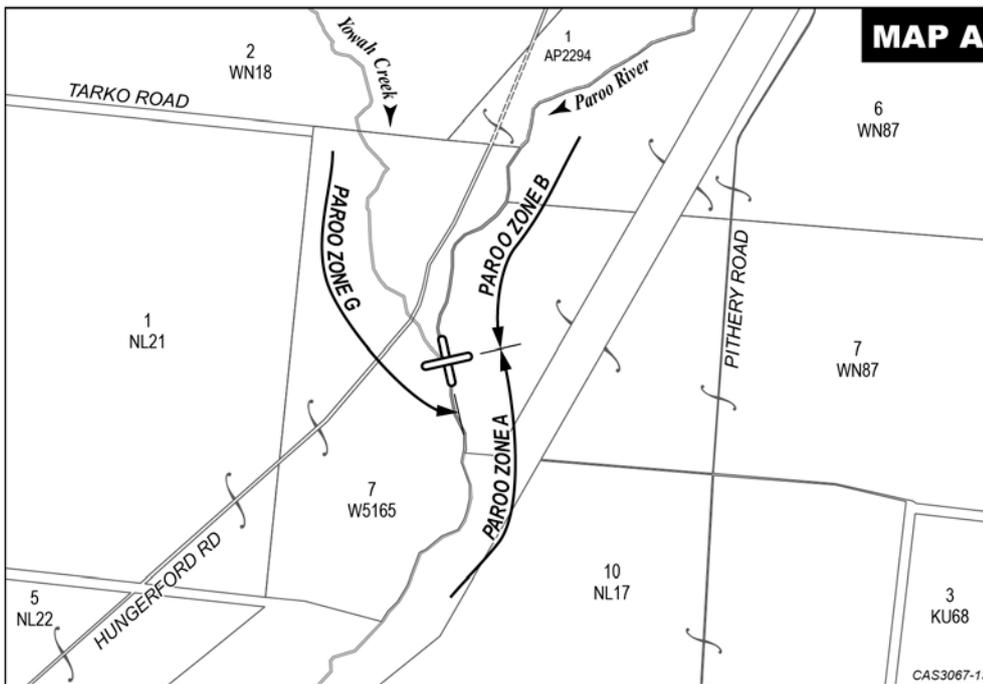
Zone boundary – Warrego zone L and Warrego zone K



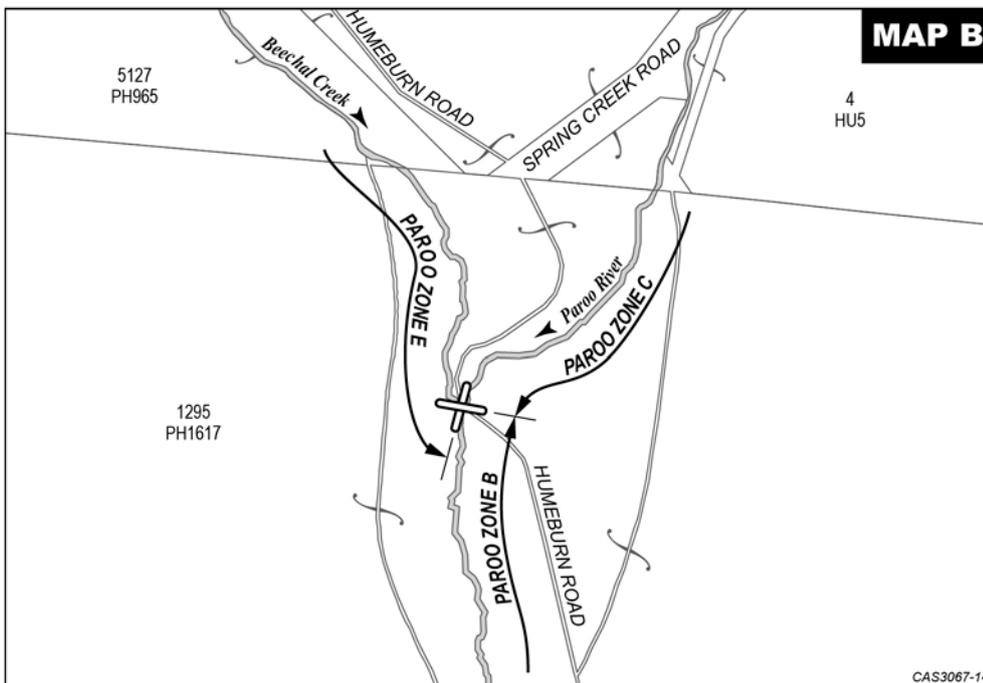
Paroo zones



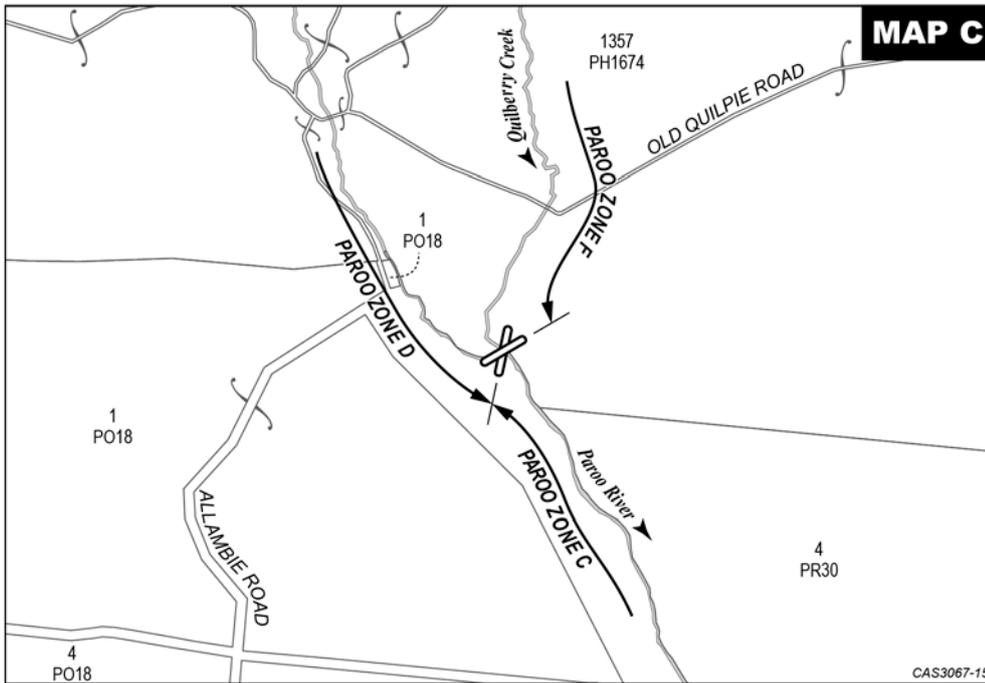
Zone boundary – Paroo zone A, Paroo zone B and Paroo zone G



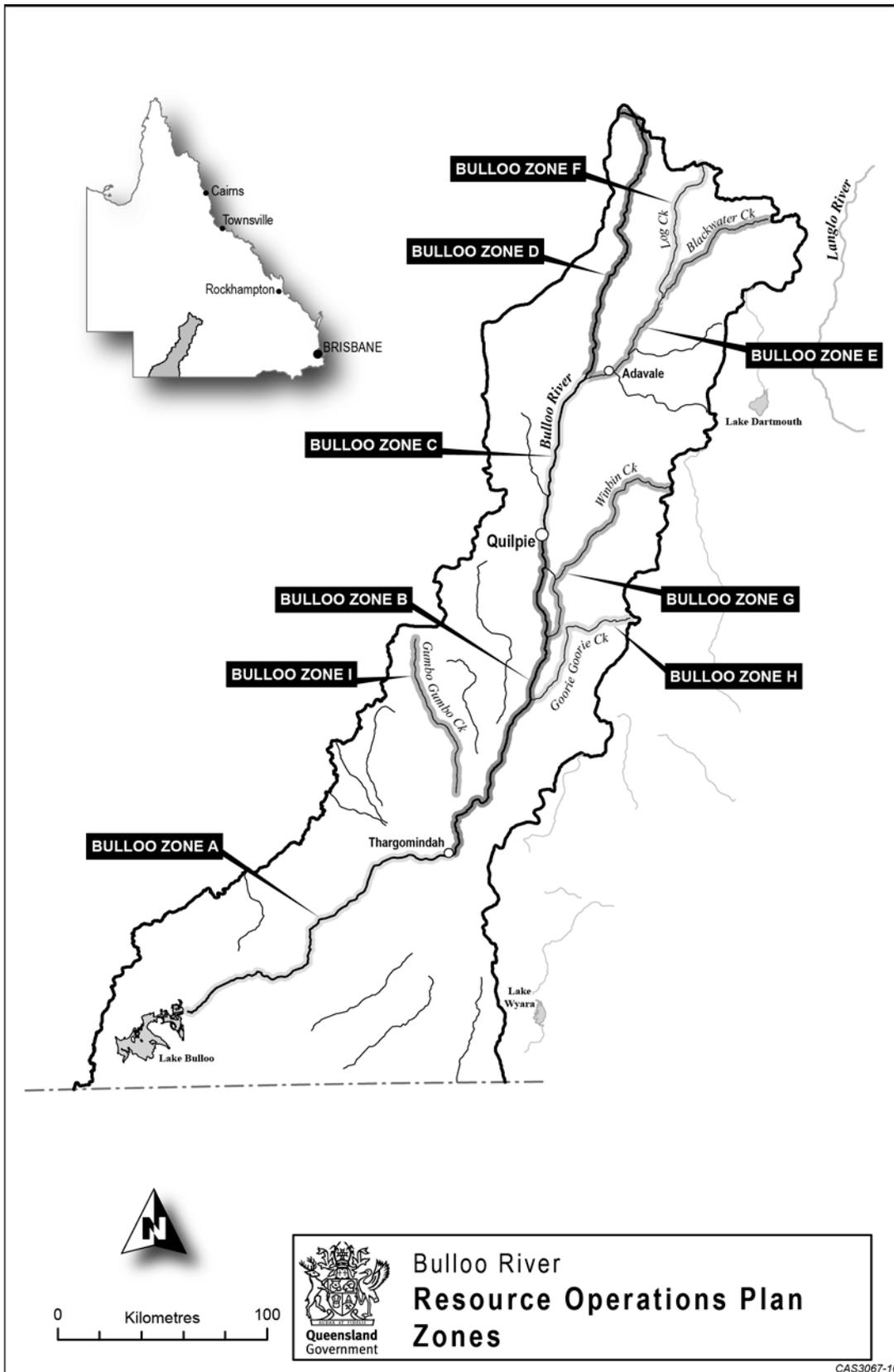
Zone boundary – Paroo zone B, Paroo zone C and Paroo zone E



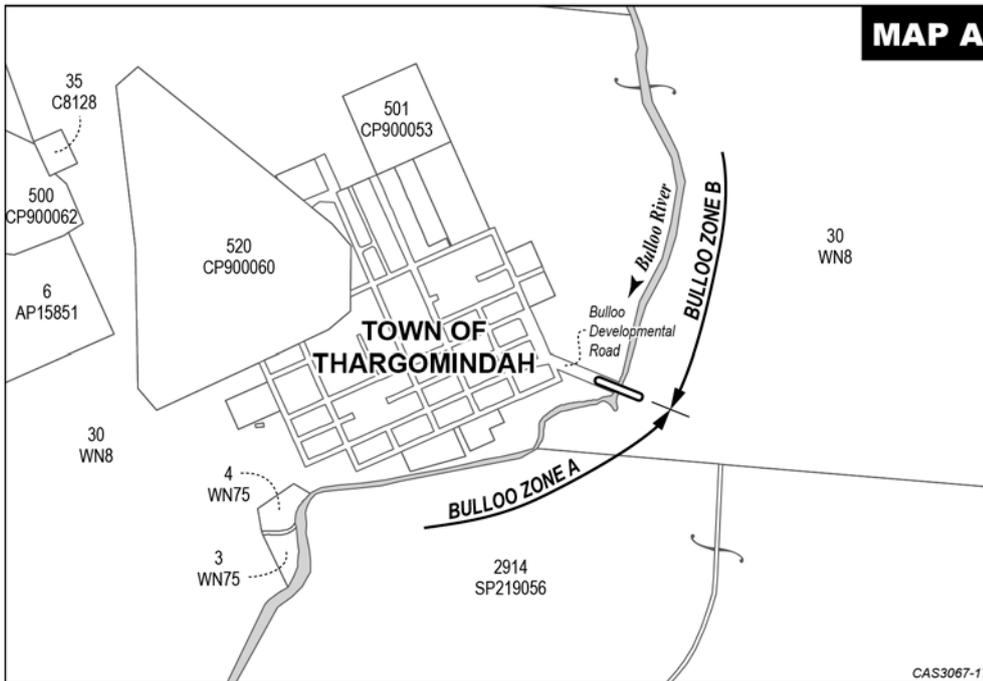
Zone boundary – Paroo zone C, Paroo zone D and Paroo zone F



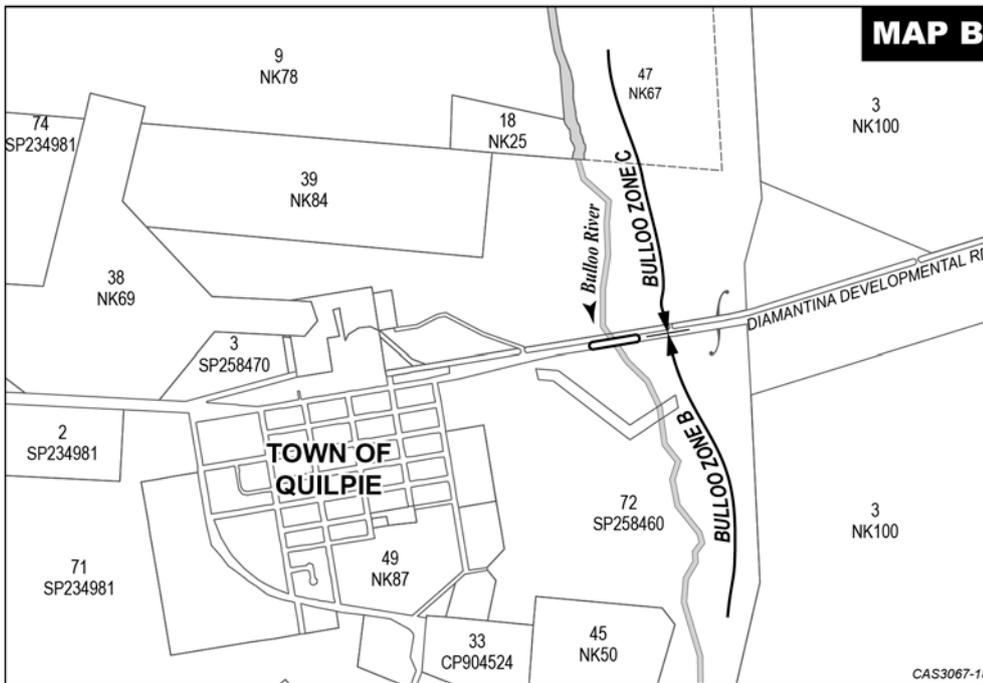
Bulloo zones



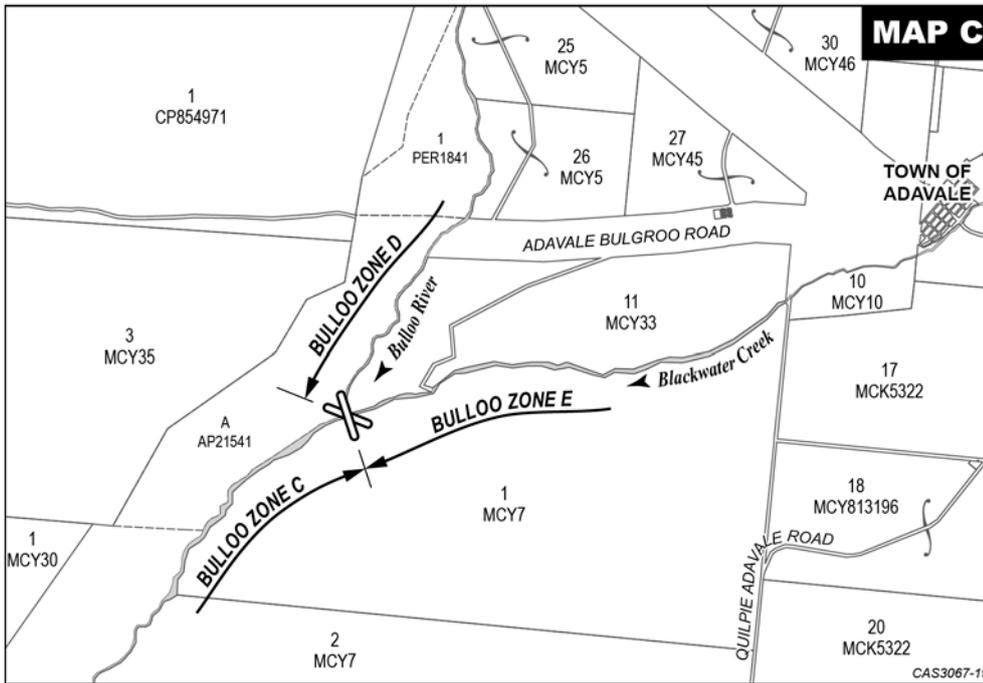
Zone boundary – Bulloo zone A and Bulloo zone B



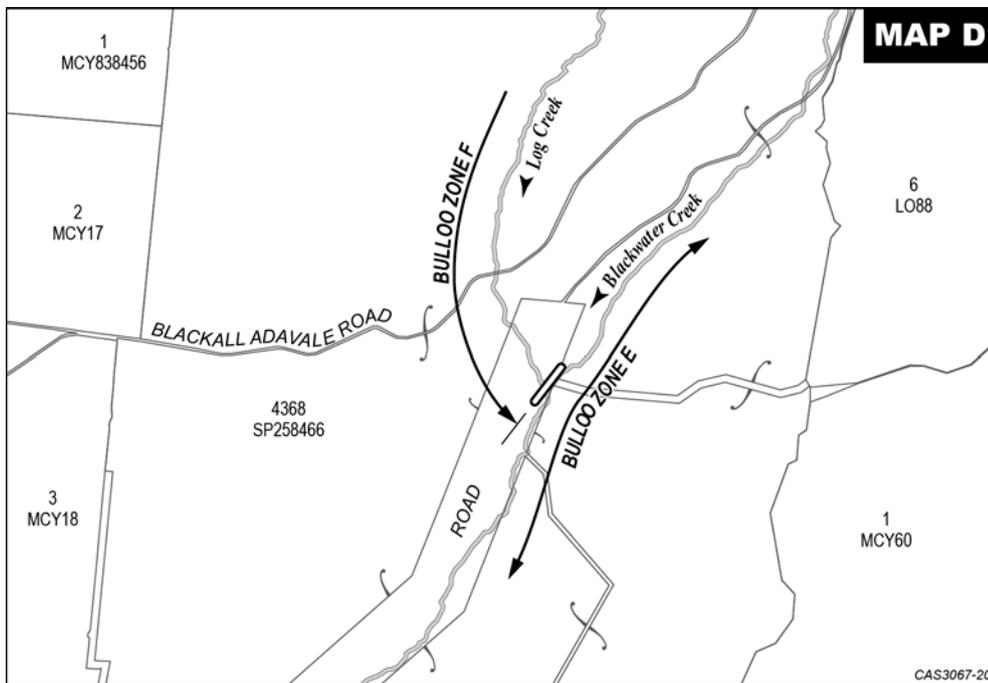
Zone boundary – Bulloo zone B and Bulloo zone C



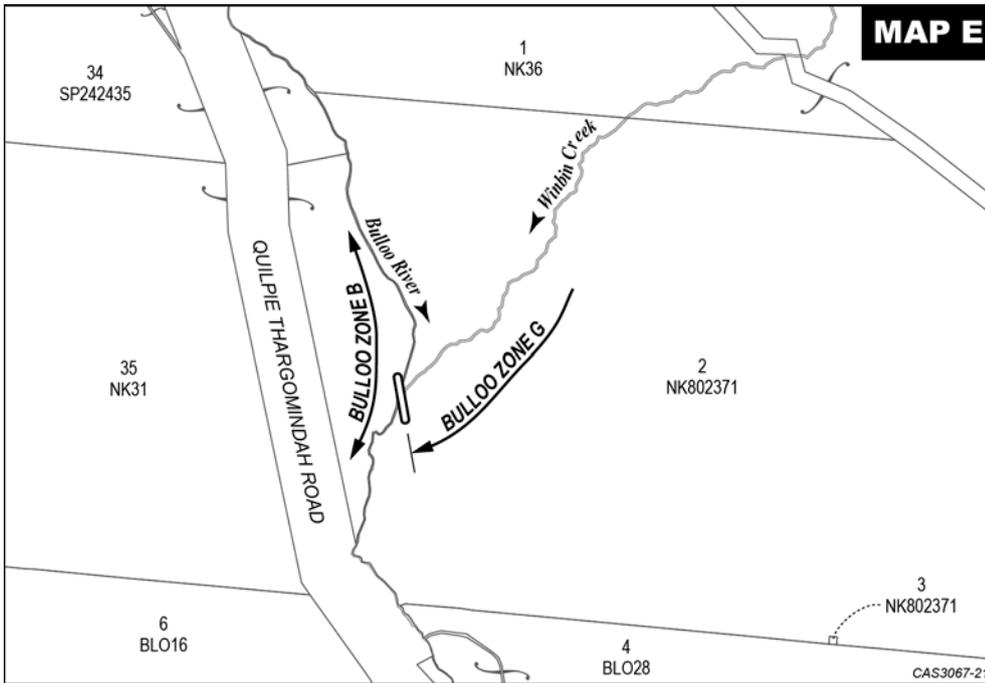
Zone boundary – Bulloo zone C, Bulloo zone D and Bulloo zone E



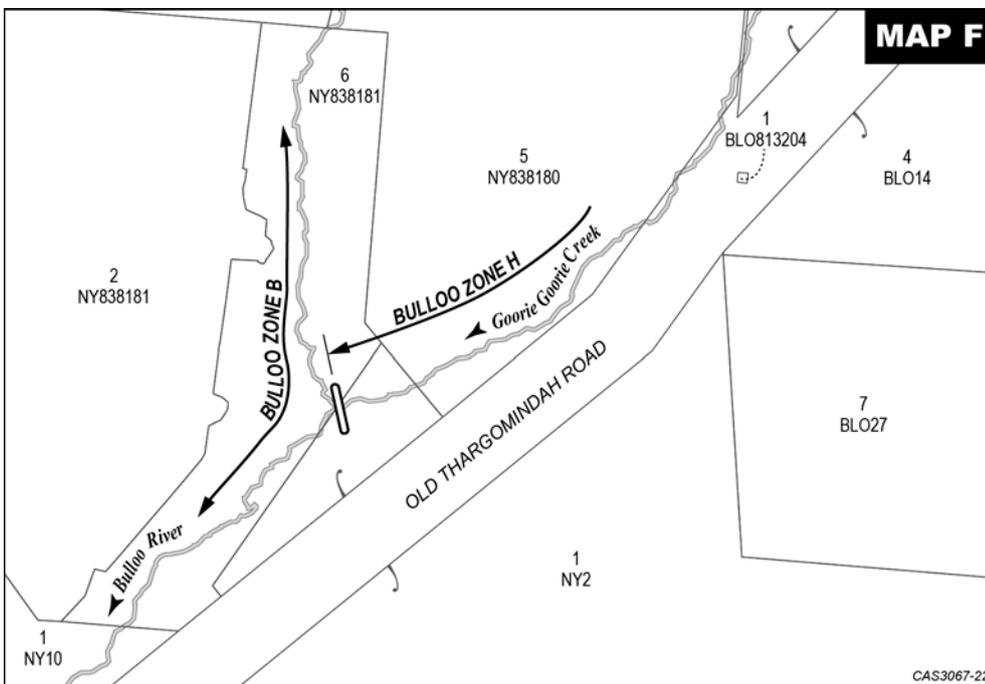
Zone boundary – Bulloo zone E and Bulloo zone F



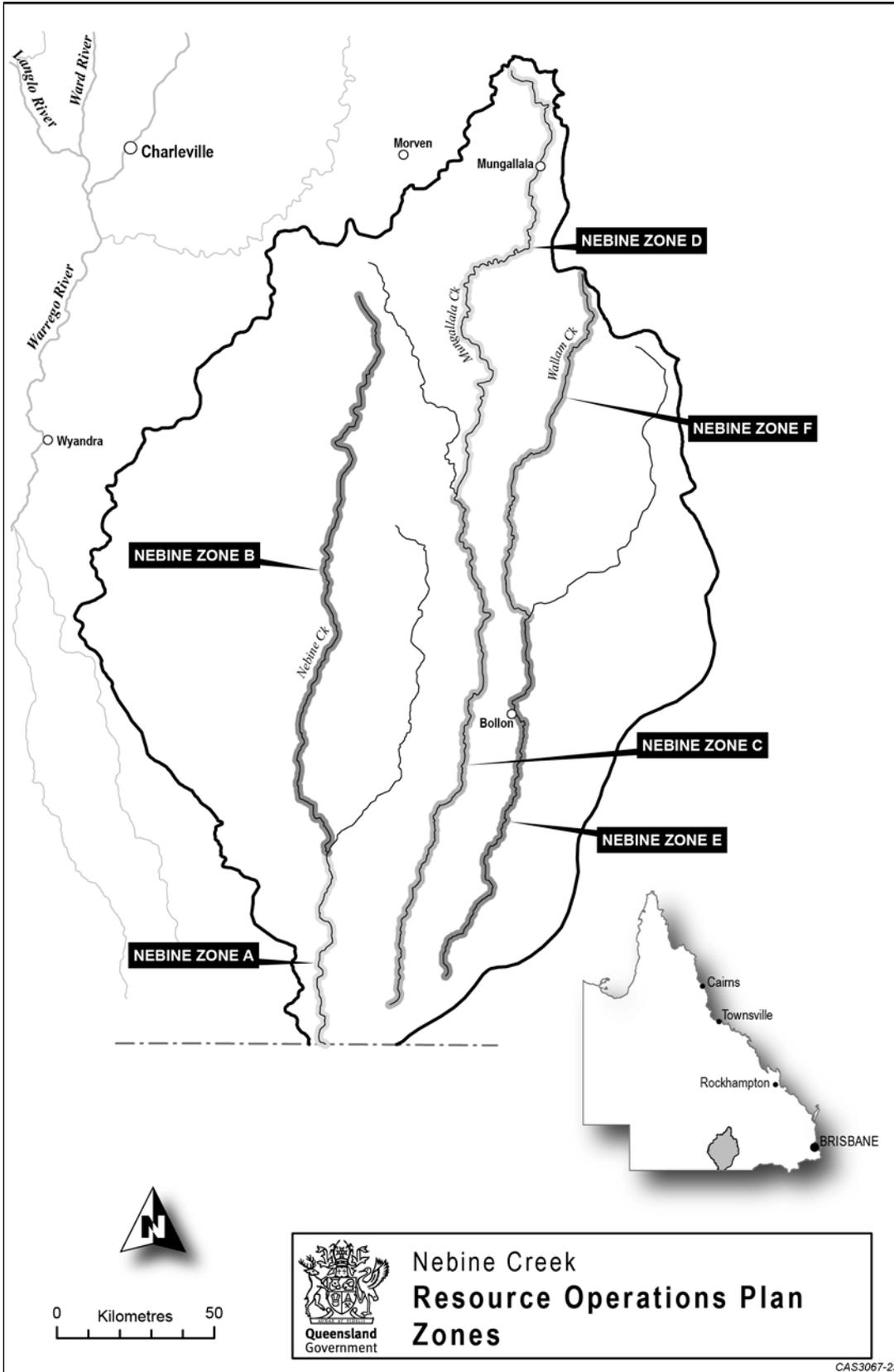
Zone boundary – Bulloo zone B and Bulloo zone G



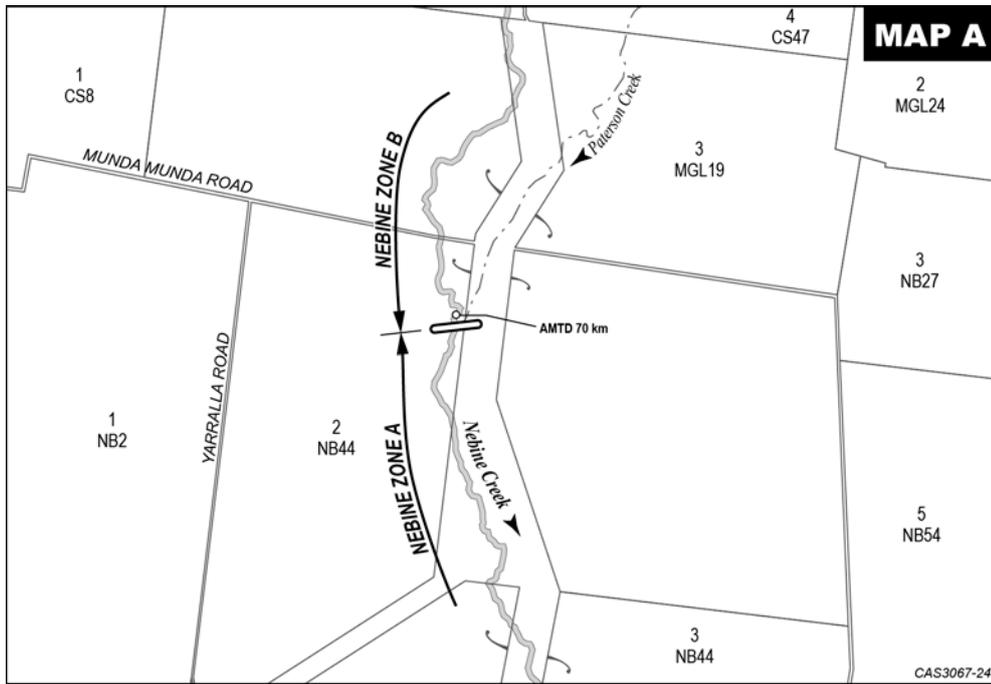
Zone boundary – Bulloo zone B and Bulloo zone H



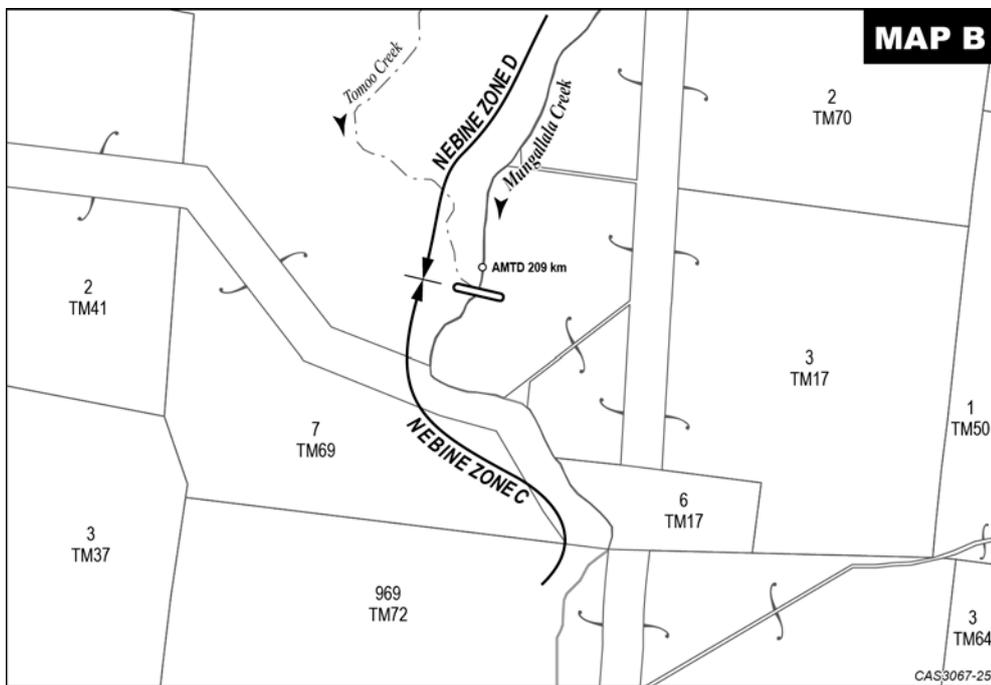
Nebine zones



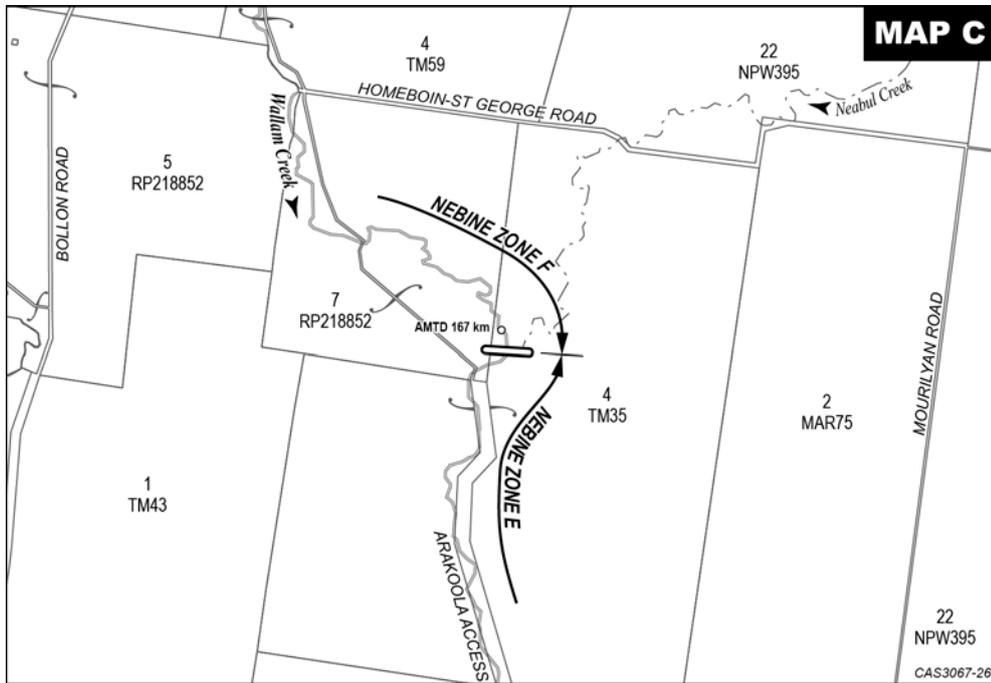
Zone boundary – Nebine zone A and Nebine zone B



Zone boundary – Nebine zone C and Nebine zone D



Zone boundary – Nebine zone E and Nebine zone F



Attachment 5 Links between this plan and the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016

section 13

Ecological outcomes of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 (section 11)	Resource operations plan rules
The ecological outcomes for water in the plan area are—	
(a) minimisation of changes to the natural variability of flows that support aquatic ecosystems;	<ul style="list-style-type: none"> ▪ operating rules ▪ dealing with water licence applications
(b) maintenance of the near natural flow regime that supports the Paroo River and Bulloo River;	<ul style="list-style-type: none"> ▪ dealing with water licence applications ▪ monitoring and reporting (chief executive)
(c) maintenance of floodplain vegetation and wetland systems in the plan area, including— (i) Currawinya Lakes; (ii) Paroo Overflow Lakes; and (iii) Bulloo Lakes.	<ul style="list-style-type: none"> ▪ dealing with water licence applications ▪ granting water licences for taking overland flow water ▪ water sharing rules
(d) maintenance of flows in the plan area that support— (i) waterholes, other than waterholes within the storage area of a dam; (ii) river channels; and (iii) migratory fish.	<ul style="list-style-type: none"> ▪ operating rules
Economic outcomes of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 (section 12)	Resource operations plan rules
The economic outcomes for water in the plan area are—	
(a) provision for the use of water entitlements and other authorisations in the plan area;	<ul style="list-style-type: none"> ▪ water sharing rules ▪ operating rules
(b) protection of the probability of being able to take water under a water entitlement;	
(c) protection of the productive base of groundwater	
(d) support of an effective and efficient market in water allocations;	<ul style="list-style-type: none"> ▪ water allocation change rules ▪ seasonal water assignment rules
(e) availability of water for— (i) growth in industries dependent on water resources in the plan area; (ii) stock purposes in the plan area; (iii) tourism in the plan area;	<ul style="list-style-type: none"> ▪ dealing with water licence applications ▪ granting water licences for taking overland flow water ▪ water sharing rules
(f) maintenance of flood flows to support grazing activities in the plan area.	<ul style="list-style-type: none"> ▪ operating rules ▪ monitoring and reporting (chief executive) ▪ resource operations licence holder monitoring and reporting <p>*NOTE: Unallocated water is made available through the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 and in line with the process stated in the Water Regulation 2002.</p>
Indigenous outcomes of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 (section 13)	Resource operations plan rules
The Indigenous outcomes for water in the plan area are—	

<p>(a) availability of water for traditional owners who are dependent on water resources in the plan area to achieve their economic and social aspirations;</p>	<ul style="list-style-type: none"> ▪ dealing with water licence applications ▪ granting water licences for taking overland flow water ▪ water sharing rules ▪ operating rules ▪ monitoring and reporting (chief executive) ▪ resource operations licence holder monitoring and reporting <p>*NOTE: Unallocated water is made available through the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 and in line with the process stated in the Water Regulation 2002.</p>
<p>(b) maintenance of flows that support water-related cultural and recreational values of the traditional owners.</p>	
<p>Social outcomes of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2016 (section 14)</p>	<p>Resource operations plan rules</p>
<p>The social outcomes for water in the plan area are—</p>	
<p>(a) availability of water for—</p> <ul style="list-style-type: none"> (i) population growth in towns and communities dependent on water resources in the plan area; (ii) domestic purposes in the plan area 	<ul style="list-style-type: none"> ▪ dealing with water licence applications ▪ granting water licences for taking overland flow water ▪ water sharing rules ▪ operating rules
<p>(b) maintenance of flows that support water-related aesthetic, cultural and recreational values in the plan area.</p>	<ul style="list-style-type: none"> ▪ water sharing rules ▪ operating rules ▪ monitoring and reporting (chief executive) ▪ resource operations licence holder monitoring and reporting

Attachment 6 Details of infrastructure operated by the resource operations licence holder for the Cunnamulla Water Supply Scheme

section 5(3)

Allan Tannock Weir (including breakout structure) — Warrego River at AMTD 124.8 km

Description of water infrastructure	
Description	Allan Tannock Weir is of sheet piling and concrete construction with a fixed crest spillway
Full supply level	EL 183.5 m AHD
Main embankment	Weir: steel sheet-pile weir with three reinforced concrete terraces Crest length: central full supply sheet pile crest 9.6 m wide in overall sheet-pile width of approximately 130 m Maximum height: 4.5 m from embankment crest to downstream toe
Saddle dam(s)	Breakout structure: steel sheet-pile weir with concrete apron Crest length: approximately 55 m
Storage capacity	
Total storage capacity	4 770 ML
Dead storage capacity	500 ML
Storage curves / tables	Storage curves/tables: drawing nos 105517, 105518
Spillway arrangement	
Description of works	Weir: centrally located sheet-pile spillway section cut into the sheet-pile crest Breakout structure: sheet-pile crest 55 m wide Discharge characteristics: DNRM Toowoomba hydrographic section, Warrego River at Cunnamulla Weir, station-423202C, rating table-5.00 (16/01/1992 to 4/12/2012)
Spillway crest level	Weir: EL 183.5 m AHD Breakout structure: EL 184.5 m AHD
Spillway width	Full supply sheet-pile spillway 9.6 m wide in overall sheet-pile width of approximately 130 m
River inlet/outlet works and diversion works	
Description works	River outlet: single 1 070 mm diameter pipe 10 m long Pipe discharge is controlled by a square sluice gate in the inlet structure
Inlet	Single level offtake
Minimum operating level	Invert of 1 070 mm inlet: EL 180.47 m AHD
Discharge characteristics	Estimated maximum discharge capacity of outlet at FSL is 300 ML/day