

# Water Sharing Plan for the Lower Lachlan Groundwater Source 2003

[2003-187]



New South Wales

## Status Information

### Currency of version

Historical version for 1 July 2004 to 9 December 2004 (accessed 20 September 2024 at 21:52)

Legislation on this site is usually updated within 3 working days after a change to the legislation.

### Provisions in force

None of the provisions displayed in this version of the legislation have commenced.

### Notes—

- **See also**  
[Statute Law \(Miscellaneous Provisions\) Bill \(No 2\) 2004](#)

### Authorisation

This version of the legislation is compiled and maintained in a database of legislation by the Parliamentary Counsel's Office and published on the NSW legislation website, and is certified as the form of that legislation that is correct under section 45C of the [Interpretation Act 1987](#).

File last modified 19 November 2004

# Water Sharing Plan for the Lower Lachlan Groundwater Source 2003



New South Wales

## Contents

<b>Part 1 Introduction</b> .....	6
1 Name of Plan .....	6
2 Nature and status of this Plan .....	6
3 Date of commencement .....	6
4 Area to which this Plan applies .....	6
5 Waters to which this Plan applies .....	6
6 Interpretation .....	7
7 Effect on licences, authorities and permits under the Water Act 1912 .....	7
8 State Water Management Outcomes Plan .....	7
<b>Part 2 Vision, objectives, strategies and performance indicators</b> .....	7
9 Vision, objectives, strategies and performance indicators.....	7
10 Vision.....	7
11 Objectives.....	8
12 Strategies .....	8
13 Performance indicators.....	9
<b>Part 3 Basis for water sharing</b> .....	9
14 Basis for water sharing .....	9
15 Climatic variability.....	10
16 Recharge .....	10
<b>Part 4 Environmental water provisions</b> .....	10

17 Environmental water provisions .....	10
18 Environmental health water .....	11
19 Supplementary environmental water .....	11
20 Adaptive environmental water .....	12
<b>Part 5 Basic landholder rights .....</b>	<b>12</b>
21 Basic landholder rights .....	12
22 Domestic and stock rights .....	12
23 Native title rights .....	13
<b>Part 6 Bulk access regime .....</b>	<b>13</b>
24 Bulk access regime .....	13
<b>Part 7 Requirements for water for extraction under access licences .....</b>	<b>14</b>
25 Estimate of water requirements .....	14
<b>Part 8 Rules for granting access licences .....</b>	<b>15</b>
26 Rules for granting access licences .....	15
<b>Part 9 Limit to the availability of water .....</b>	<b>17</b>
<b>Division 1 Long-term average extraction limit .....</b>	<b>17</b>
27 Long-term average extraction limit .....	17
28 Variation of the long-term average extraction limit .....	17
<b>Division 2 Available water determinations .....</b>	<b>17</b>
29 Available water determinations .....	17
<b>Part 10 Rules for managing access licences .....</b>	<b>18</b>
<b>Division 1 General .....</b>	<b>18</b>
30 Rules for managing access licences .....	18
<b>Division 2 Water allocation account management .....</b>	<b>19</b>
31 Water allocation account management .....	19
32 Water allocation accounts .....	19
33 Accrual of water allocations .....	19

34 Annual accounting for water extraction.....	19
<b>Division 3 Management of local impacts</b> .....	<b>20</b>
35 Management of local impacts.....	20
36 Extraction interference between neighbouring bores.....	21
37 Water level management .....	21
38 Water quality management .....	22
39 Protection of groundwater dependent ecosystems and Aboriginal cultural heritage values .....	24
40 Protection of aquifer integrity.....	25
41 Extraction restrictions .....	25
42 Group registration .....	25
43 Infrastructure failure.....	26
<b>Part 11 Access licence dealing rules</b> .....	<b>26</b>
44 Access licence dealing rules.....	26
45 Rules relating to constraints within this groundwater source .....	27
46 Rules for change of water source .....	27
47 Rules for conversion of access licence category.....	27
48 Rules for interstate access licence transfer.....	27
49 Rules for water allocation assignments between water sources .....	27
50 Rules for interstate assignment of water allocations.....	28
<b>Part 12 Mandatory conditions</b> .....	<b>28</b>
51 Mandatory conditions on access licences.....	28
52 Access licence conditions .....	28
53 Mandatory conditions on water supply work (bore) approvals .....	29
<b>Part 13 Monitoring and reporting</b> .....	<b>30</b>
54 Monitoring .....	30
<b>Part 14 Amendment of this Plan</b> .....	<b>31</b>
55 Amendments of this Plan.....	31
<b>Dictionary</b> .....	<b>31</b>
<b>Schedule 2 Lower Lachlan Groundwater Source</b> .....	<b>33</b>

**Schedule 3 Contribution to targets in the State Water Management Outcomes Plan**

..... 33

**Schedule 4 Licences exempt from access licence share component adjustments**

..... 37

**Schedule 5 High priority groundwater dependent ecosystems and identified Aboriginal cultural heritage values**

..... 38

**Appendix 1 Lachlan and Western Water Management Areas** ..... 38

**Appendix 2 Location of maps** ..... 38

**Appendix 3 Performance indicators** ..... 39

**Appendix 4 Minister’s access licence dealing principles** ..... 41

# Water Sharing Plan for the Lower Lachlan Groundwater Source 2003



New South Wales

## Part 1 Introduction

### 1 Name of Plan

This Plan is the *Water Sharing Plan for the Lower Lachlan Groundwater Source 2003* (hereafter **this Plan**).

### 2 Nature and status of this Plan

- (1) This Plan is made under section 50 of the *Water Management Act 2000* as amended (hereafter **the Act**).
- (2) This Plan covers the core provisions of section 20 of the Act for water sharing, and additional provisions of section 21 of the Act, and other relevant matters.

### 3 Date of commencement

This Plan takes effect on 1 July 2005 and ceases 10 years after that date.

### 4 Area to which this Plan applies

- (1) The area in respect of which this Plan is made is that area of land within the Lachlan and Western Water Management Areas known as the Lower Lachlan Groundwater Source (hereafter **this groundwater source**) as shown on the map in Schedule 2.

#### Note—

The Lachlan and Western Water Management Areas are shown on a map in Appendix 1.

#### Note—

Maps referred to in this Plan may be inspected at offices of the Department of Land and Water Conservation listed in Appendix 2.

### 5 Waters to which this Plan applies

The waters in this groundwater source includes all water contained in the Lower Lachlan unconsolidated alluvial aquifers.

## **6 Interpretation**

- (1) Terms that are defined in the Act have the same meaning in this Plan and the effect of these terms may be explained in Notes.
- (2) Additional terms to those identified in subclause (1) are defined in Schedule 1.
- (3) Notes in the text of this Plan do not form part of this Plan.
- (4) Schedules to this Plan form part of this Plan.
- (5) Appendices to this Plan do not form part of this Plan.

## **7 Effect on licences, authorities and permits under the [Water Act 1912](#)**

- (1) This Plan applies from the date of commencement to those matters that are administered under the Act at that time.
- (2) This Plan applies to other matters from the date the relevant provisions of the Act are commenced.

### **Note—**

To the extent possible, the rules embodied in this Plan will apply to matters administered under the [Water Act 1912](#) in the interim.

## **8 State Water Management Outcomes Plan**

- (1) In accordance with section 16 (1) (a) of the Act, this Plan is consistent with the State Water Management Outcomes Plan published in the NSW Government Gazette on 20 December 2002 (hereafter **the SWMOP**).
- (2) Schedule 3 identifies the SWMOP targets applicable to this Plan and how this Plan contributes to those targets.

## **Part 2 Vision, objectives, strategies and performance indicators**

### **9 Vision, objectives, strategies and performance indicators**

This Part is made in accordance with section 35 (1) of the Act.

### **10 Vision**

The vision of this Plan is to achieve a healthy environment and prosperous community through:

- (a) sustainable and equitable groundwater use for all users,
- (b) protection of groundwater dependent ecosystems,
- (c) protection of groundwater quality, and

- (d) community ownership of groundwater management.

## 11 Objectives

The objectives of this Plan are to:

- (a) protect ecological processes and biodiversity dependent on groundwater,

**Note—**

The expected outcomes of this objective are that groundwater dependent ecosystems and their degree of dependency will be identified, and that there will be no loss of ecological values due to groundwater extraction.

- (b) determine resource access and clarify reliability for groundwater users,

**Note—**

The expected outcomes of this objective are that: groundwater usage does not exceed the extraction limit; the rate of extraction does not induce detrimental changes to water quality; groundwater users have a clear understanding of resource access and reliability; sustainable economic benefits will be maximised; more flexible and efficient use of water will be facilitated; and, there will be equitable access to the groundwater source within the extraction limit.

- (c) recognise and protect community needs that rely on groundwater, and

**Note—**

The expected outcomes of this objective are that: basic rights to access water will be protected; the rate of extraction will not induce detrimental changes to water quality; and, community well being is enhanced.

- (d) provide for the recognition and protection of heritage sites and cultural values associated with groundwater.

**Note—**

The expected outcomes of this objective are that: heritage sites and cultural values associated with groundwater and their degree of dependency are identified; and, there is no loss of heritage and cultural values due to groundwater extraction.

## 12 Strategies

The strategies of this Plan are to:

- (a) establish environmental water rules and manage access to groundwater consistent with those rules,
- (b) establish rules for the protection of basic landholder rights,
- (c) establish an extraction limit for this groundwater source, taking into account the requirements of the environment,
- (d) reduce the share component of all access licences to 125% of the extraction limit in this groundwater source,
- (e) establish rules for the granting of access licences,



- (f) establish rules for determining the groundwater available from time to time under access licences,
- (g) establish water allocation account management rules,
- (h) establish rules for minimising the local impacts of groundwater extraction on the environment, the aquifer itself, and between groundwater users,
- (i) establish the access licence dealing rules, and
- (j) establish the conditions that will apply to all access licences and water supply work (bore) approvals.

### **13 Performance indicators**

For the purpose of section 35 (1) (b) of the Act the following indicators are to be used to determine the performance of this Plan against its objectives:

- (a) change in groundwater extraction relative to the extraction limit,
- (b) change in climate adjusted groundwater levels,
- (c) change in water levels adjacent to identified groundwater dependent ecosystems,
- (d) change in groundwater quality,
- (e) change in economic benefits derived from groundwater extraction and use,
- (f) extent to which domestic and stock rights have been met,
- (g) extent to which local water utility requirements have been met,
- (h) extent to which native title rights requirements have been met, and
- (i) extent of recognition of spiritual, social and customary values of groundwater to Aboriginal people.

**Note—**

Appendix 3 details the objectives to which these performance indicators relate and the methods for assessing these indicators.

## **Part 3 Basis for water sharing**

### **14 Basis for water sharing**

This Part is made in order to give effect to section 5 (3) of the Act, and in accordance with sections 20 (2) (c) and 21 (e) of the Act.

## **15 Climatic variability**

- (1) This Plan recognises climatic variability and therefore that the level of natural recharge to this groundwater source will vary.
- (2) To give effect to subclause (1), this Plan has provisions that manage:
  - (a) the sharing of water in this groundwater source within the limits of water availability on a long-term average basis, and
  - (b) water extractions to enable the protection of groundwater dependent ecosystems, aquifer integrity and water quality of this groundwater source.

## **16 Recharge**

- (1) The overall basis for water sharing in this Plan is the average annual recharge to this groundwater source, estimated to be 120,000 megalitres per year (hereafter **ML/yr**).
- (2) Pursuant to section 42 (2) of the Act, the average annual recharge for this groundwater source established in subclause (1) may be varied by the Minister at 30 June 2007, following further recharge studies undertaken by the Minister.
- (3) The Minister should take into account the review in subclause (4), and the advice provided in accordance with subclause (5), before making a variation under subclause (2).
- (4) The results of the studies undertaken in subclause (2) must be independently reviewed.
- (5) A water management committee, or in its absence an advisory committee established by the Minister to include representatives of domestic and stock rights groundwater users, water utilities, irrigation, industry, Aboriginal people, environmental groups and others, should:
  - (a) advise the Minister on the terms of reference and selection of consultants for the independent review established in subclause (4), and
  - (b) advise the Minister by December 2006 on any changes to recharge estimates based on the study and the outcomes of the independent review.

### **Note—**

The extent of impact of these changes on access by licence holders is limited in clause 28.

## **Part 4 Environmental water provisions**

### **17 Environmental water provisions**

This Part is made in accordance with sections 5 (3) and 8 (1), 8 (2) and 20 (1) (a) of the Act.

## **18 Environmental health water**

### **Note—**

It is anticipated that the environmental health water provisions in this Part, and management of local impacts provisions in Part 10 of this Plan, will also protect heritage sites and cultural values associated with groundwater (see clause 11 (d)).

- (1) This Plan establishes the following environmental health water rules:
  - (a) Subject to Part 10 Division 2 of this Plan the long-term average storage component of this groundwater source minus the basic landholder rights, shall be reserved for the environment, and
  - (b) Subject to Part 10 Division 2 of this Plan 20% of the average annual recharge to this groundwater source shall be reserved for the environment.
- (2) Pursuant to section 42 (2) of the Act, the Minister may vary the proportion of recharge reserved as the environmental health water in subclause (1) at 30 June 2007, based on further studies of Aboriginal cultural heritage and groundwater ecosystem dependency undertaken by the Minister by June 2006.
- (3) The Minister should take into account the review in subclause (4), and the advice provided in accordance with subclause (5), before making a variation under subclause (2).
- (4) The results of the studies undertaken in subclause (2) must be independently reviewed.
- (5) A water management committee, or in its absence an advisory committee established by the Minister to include representatives of domestic and stock rights groundwater users, water utilities, irrigation, industry, Aboriginal people, environmental groups and others, should:
  - (a) advise the Minister on the terms of reference and selection of consultants for the independent review established in subclause (4), and
  - (b) advise the Minister by December 2006 on any changes to environmental health water based on the study and the outcomes of the independent review.

### **Note—**

The extent of impact of these changes on access by licence holders is limited in clause 28.

- (6) The Minister should consult with the Minister for the Environment before varying environmental health water in accordance with subclause (2).

## **19 Supplementary environmental water**

At the commencement of this Plan, there is no water committed for specified

environmental purposes in accordance with section 8 (1) (b) of the Act.

## **20 Adaptive environmental water**

- (1) At any time, an access licence holder may, by a process determined by the Minister, commit all or part of their licence as adaptive environmental water.
- (2) The conditions of the commitment specified in subclause (1):
  - (a) are to be established by the Minister,
  - (b) are to be specified on the access licence, and
  - (c) shall be such as to ensure that there is a contribution to the objectives of this Plan.
- (3) At the commencement of this Plan there are no access licences committed to an environmental purpose in accordance with section 8 (1) (c) of the Act.

## **Part 5 Basic landholder rights**

### **21 Basic landholder rights**

- (1) This Part is made in accordance with sections 5 (3) and 20 (1) (b) of the Act.
- (2) If a landholder is unable to exercise their basic landholder rights due to interference to their supply caused by extraction from works nominated by access licences:
  - (a) the landholder's affected water supply work (bore) may be replaced or deepened to ensure continuing access to water for basic landholder rights, or
  - (b) basic rights water may be supplied by alternative means during critical times.
- (3) The Minister may impose a charge on access licence holders in these groundwater sources under section 114 of the Act, as a contribution to the costs of activities or works associated with subclause (2).

#### **Note—**

The Minister may issue an Order under section 328 of the Act to restrict the exercise of basic landholder rights from these groundwater sources to protect the environment, for reasons of public health, or to preserve existing basic landholder rights.

### **22 Domestic and stock rights**

#### **Note—**

It is not recommended that the water from this groundwater source be consumed without prior treatment. Land use activities may have polluted the groundwater in some areas.

- (1) At the commencement of this Plan the water requirements of holders of domestic and stock rights are estimated to be a total of 4,000 ML/yr.

- (2) This Plan recognises that the exercise of domestic and stock rights may increase during the term of this Plan.

**Note—**

Increase in use of domestic and stock rights may occur as a result of an increase in the number of landholdings overlying this groundwater source, or as a result of the increase in the exercise of basic landholder rights by existing landholders.

### **23 Native title rights**

- (1) At the commencement of this Plan there are no holders of native title rights and therefore the water requirements for native title rights are a total of 0 ML/yr.
- (2) This Plan recognises that the exercise of native title rights may increase during the term of this Plan.

**Note—**

An increase in native title rights may occur as a result of the granting of native title rights under the Commonwealth's *Native Title Act 1993*.

## **Part 6 Bulk access regime**

### **24 Bulk access regime**

- (1) This Part is made in accordance with section 20 (1) (e) of the Act.
- (2) This Plan establishes a bulk access regime for the extraction of water under access licences in this groundwater source having regard to:
  - (a) the environmental water provisions established under Part 4 of this Plan,
  - (b) the requirements for basic landholder rights identified under Part 5 of this Plan, and
  - (c) the requirements for water for extraction under access licences identified under Part 7 of this Plan.
- (3) The bulk access regime established in subclause (2):
  - (a) recognises the effect of climatic variability on the availability of water as provided for under Part 3 of this Plan,
  - (b) establishes rules according to which access licences are granted as provided for in Part 8 of this Plan,
  - (c) recognises and is consistent with any limit to the availability of water as provided for in Part 9, Division 1 of this Plan,
  - (d) establishes rules according to which available water determinations are to be

made as provided for in Part 9 Division 2 of this Plan,

- (e) establishes rules according to which access licences are managed as provided for in Parts 9 and 10 of this Plan, and
- (f) establishes rules with respect to the priorities according to which access licences are to be adjusted as a consequence of any reduction in the availability of water as provided for in Part 9 of this Plan.

## Part 7 Requirements for water for extraction under access licences

### 25 Estimate of water requirements

- (1) This Part is made in accordance with section 20 (1) (c) of the Act.
- (2) At the commencement of this Plan, the requirements identified for water for extraction under access licences within this groundwater source are estimated to be 215,417 ML/yr.
- (3) Subclause (2) includes 3 local water utility access licences totalling 2,247 ML/yr held by Carrathool Shire Council.

**Note—**

Subclause (2) represents the total volumes specified on access licences in this groundwater source. It is not a commitment to supply that water.

- (4) Pursuant to section 42 (2) of the Act, the Minister should reduce the total share components of aquifer access licences in this groundwater source specified in subclause (2) to 125% of the extraction limit determined in clause 27, as amended by clause 28, over the term of this Plan, according to the following:
  - (a) at the commencement of year 5 of this Plan each aquifer access licence will have an amended aquifer access licence share component calculated as follows:

$$\text{Amended aquifer access licence share component} = \text{Aquifer access licence share component prior to amendment} \times \left( \frac{1.5(\text{Recharge} - \text{EHW}) - \text{LWU} - (\text{total Schedule 4 entitlements})}{(\text{total access licence share components prior to Yr 5 amendment}) - \text{LWU} - (\text{total Schedule 4 entitlements})} \right)$$

- (b) at the end of year 10 of this Plan each aquifer access licence will have an amended aquifer access licence share component calculated as follows:

$$\text{End of year 10 amended aquifer access licence share component} = \text{aquifer access licence share component prior to Yr 10 amendment} \times \left( \frac{1.25(\text{Recharge} - \text{EHW}) - \text{LWU} - (\text{total Schedule 4 entitlements})}{(\text{total access licence share components prior to Yr 10 amendment}) - \text{LWU} - (\text{total Schedule 4 entitlements})} \right)$$

- (5) Recharge in subclause (4) is the recharge established in clause 16 (1), as amended by

clause 16 (2).

- (6) EHW in subclause (4) is the volume of recharge reserved as environmental health water in this groundwater source in clause 18 (1), as amended by clause 18 (2).
- (7) LWU in subclause (4) is the total of local water utility access licence share components in this groundwater source.
- (8) Subclause (4) does not apply to the share components of local water utility access licences.
- (9) Subclause (4) does not apply to access licences listed in Schedule 4.
- (10) This Plan recognises that the total requirements for water for extraction under access licences within this groundwater source may change during the term of this Plan as a result of:
  - (a) the granting, surrender, non-renewal or cancellation of access licences,
  - (b) the variation of local water utility access licences under section 66 of the Act, or
  - (c) the volumetric quantification of the share components of existing access licences that are currently non-volumetric.

## **Part 8 Rules for granting access licences**

### **26 Rules for granting access licences**

- (1) This Part is made in accordance with sections 20 (2) (b) and 63 of the Act, having regard to the limit to water availability in this groundwater source and the need to protect groundwater dependent ecosystems and groundwater quality.
- (2) Access licences may be granted in this groundwater source, subject to any embargo on the making of applications for access licences made under Chapter 3 Part 2 Division 7 of the Act.
- (3) The Minister should declare an embargo on the making of applications for access licences in this groundwater source, other than access licences of the following kinds:
  - (a) local water utility access licences,

**Note—**

Pursuant to sections 66 (3) and 66 (4) of the Act, the Minister may also vary a local water utility's licence at 5 yearly intervals, or on application of the local water utility where there is a rapid growth in population.

- (b) aquifer (community and education) access licences, or
- (c) access licences resulting from an application of a type listed in section 82 (1) of the Act.

- (4) Notwithstanding subclause (3), if for any reason, additional aquifer access licences are granted, other than those specified in subclause (3), and after aquifer access licence share component have been amended in accordance with clause 25:
  - (a) any such additional aquifer access licence share components will be granted to those licences subject to aquifer access amendment under clause 25,
  - (b) such distribution of aquifer access licence share components will be on an equal proportional basis, and
  - (c) any additional aquifer access licence share component, plus existing share component will not exceed the share component existing immediately prior to a amendment under clause 25.
- (5) In applying for a new access licence, the applicant must establish the purpose and circumstance relating to that access licence, and that the share and extraction component sought will be the minimum required to meet that purpose and circumstance.
- (6) Access licences granted under this Part cannot be used to extract water through a water supply work (bore) located in areas where the extraction authorised by the licence plus the full extraction authorised by existing access licences nominating water supply works (bores) located in the area, and the exercise of basic landholder rights, are likely to cause an adverse local impact, as outlined in Part 10 Division 3 of this Plan.
- (7) If an access licence share component applied for is significant, as determined by the Minister on the basis of particular aquifer characteristics, the application will not be granted until a water supply work (bore) approval has been granted and the work constructed.
- (8) Once the water supply work (bore) is constructed, and results of a pumping test or its equivalent are supplied by the applicant, in the required form and to the specification of the Minister, the access licence may be granted.
- (9) The share component of the access licence granted under subclause (8) will be the proportion of the share component sought that the water supply work (bore) is capable of extracting without causing any adverse local impact as outlined in Part 10 Division 3 of this Plan.
- (10) Subclause (5), (7), (8), and (9) do not apply to a new access licence arising from an application of a type listed in section 82 (1) of the Act.
- (11) Any applications for new access licenses and water supply works approvals will be sent to the NSW Aboriginal Land Council for assessment of the potential impacts on sites of significance and for advice on appropriate mitigation measures.



- (12) In accordance with section 56 of the Act, all access licences in this groundwater source shall have a share component expressed as a volume in megalitres per year.

## **Part 9 Limit to the availability of water**

### **Division 1 Long-term average extraction limit**

#### **27 Long-term average extraction limit**

- (1) This Division is made in accordance with section 20 (2) (a) of the Act.
- (2) The long-term average extraction limit for this groundwater source each year of this Plan is the recharge established in clause 16, minus the proportion of recharge reserved as environmental health water in clause 18, and is 96,000 ML/yr.

#### **28 Variation of the long-term average extraction limit**

- (1) Pursuant to section 42 (2) of the Act, the Minister may vary the long-term average extraction limit established under clause 27 (2) at 30 June 2007 as a result of:
- (a) any change to the average annual recharge arising from clause 16 (2), or
  - (b) any change to the environmental health water arising from clause 18 (2).
- (2) If there is any change to the long-term average extraction limit arising from subclause (1) then:
- (a) the extraction limit will not be more than 215,393 ML/yr, and
  - (b) the extraction limit will not be less than 73,500 ML/yr.

### **Division 2 Available water determinations**

#### **29 Available water determinations**

- (1) This Division is made in accordance with section 20 (2) (b) of the Act.
- (2) In making an available water determination under section 59 of the Act, the Minister should consider the following rules:
- (a) water extraction in this groundwater source will be monitored in each water accounting year to determine if any growth in volumes extracted is occurring above the extraction limit in clause 27 as varied by clause 28, based on comparison of the extraction limit against the average extraction within this groundwater source over that year and the preceding 2 years,

**Note—**

A water accounting year is defined in clause 34 (3).

- (b) if water that, pursuant to an access licence, is committed as adaptive

environmental water to be left in the aquifer for environmental purposes, then for the purpose of subclause (a), the extraction will be assumed to be 100% of the available water determination,

- (c) if water that, pursuant to an access licence, is committed as adaptive environmental water to be extracted for environmental purposes, then for the purpose of subclause (a), the extraction will be that measured through the approved water supply work (bore),
- (d) if the 3 year average of extraction in this groundwater source exceeds the long-term average extraction limit established in clause 27 as varied by clause 28 by 5% or greater, the available water determination for the following water accounting year for aquifer access licences in this groundwater source should be reduced by an amount that is assessed necessary by the Minister to return subsequent total water extraction to the long-term average extraction limit,
- (e) if the 3 year average of extraction in this groundwater source is less than 95% of the long-term average extraction limit established in clause 27, as varied by clause 28, then the available water determination for aquifer access licences in this groundwater source shall be increased to such an extent as to allow extraction to increase to that extraction limit,
- (f) notwithstanding subclause (e) the available water determination will not exceed 100% of total aquifer access licence share components,
- (g) the available water determination, calculated in accordance with subclauses (e), (f) and (g), will apply to all access licences in the groundwater source excepting local water utility and domestic and stock access licences, and will be the same percentage for all access licences to which it applies,
- (h) separate available water determinations will be made for both local water utility access licences and domestic and stock access licences each year, and subject to section 60 of the Act, this shall be 100% of these access licence share components, and
- (i) The Minister should consult with a representative group of access licence holders to determine the available water determination necessary to return total water extraction to the extraction limit.

## **Part 10 Rules for managing access licences**

### **Division 1 General**

#### **30 Rules for managing access licences**

This Part is made in accordance with sections 20 (2) (b) and 21 (a) and 21 (c) of the Act, having regard to:

- (a) the environmental water rules established in Part 4 of this Plan,
- (b) requirements for water to satisfy basic landholder rights identified in Part 5 of this Plan, and
- (c) requirements for water for extraction under access licences in Part 7 of this Plan.

## **Division 2 Water allocation account management**

### **31 Water allocation account management**

This Division is made in accordance with sections 20 (2) (b) and 21 (c) of the Act.

### **32 Water allocation accounts**

In accordance with section 85 of the Act, a water allocation account shall be established for each access licence in this groundwater source.

**Note—**

Water allocations may be assigned to, or from, these accounts by a water allocation assignment made under section 71G of the Act, where these are allowed under rules specified in Part 11 of this Plan.

### **33 Accrual of water allocations**

Water allocations will be accrued into water allocation accounts each water accounting year in accordance with the Minister's available water determinations as specified in clause 29.

### **34 Annual accounting for water extraction**

- (1) Water taken from this groundwater source will be accounted for at least annually.
- (2) Water taken through an approved water supply work (bore) nominated by an access licence is taken to be extracted and will be periodically debited against the access licence water allocation account.
- (3) A water accounting year shall be the 12 month period commencing 1 July.
- (4) In any one water accounting year, subject to local impact management restrictions arising from Part 10, Division 3 of this Plan, water taken from this groundwater source under an aquifer access licence may not exceed a volume consisting of:
  - (a) 120% of the access licence share component,
  - (b) plus any water allocations assigned from another licence under section 71G of the Act in that year, and
  - (c) minus any water allocations assigned to another licence under section 71G of the Act in that year.

- (5) Extraction in any one year of greater than 100% of the aquifer access licence share component, in accordance with subclause (4) will be subject to approval by the Minister, and consideration of the possible local impact of that additional extraction.
- (6) Total water in any aquifer access licence account at any time may not exceed a volume consisting of:
  - (a) 120% of the aquifer access licence share component,
  - (b) plus any water allocations assigned from another licence under section 71G of the Act in that year, and
  - (c) minus any water allocations assigned to another licence under section 71G of the Act in that year.
- (7) A maximum of 20% of any aquifer access licence share component may be carried forward in a water allocation account from one water accounting year to the next.
- (8) Subclauses (4), (5), (6), and (7) do not apply to local water utility access licences or domestic and stock access licences.
- (9) For local water utility and domestic and stock access licences in any one water accounting year, subject to local impact management restrictions arising from Part 10, Division 3 of this Plan, water taken from this groundwater source, and total water in any water allocation account at any time may not exceed a volume consisting of:
  - (a) 100% of the access licence share component,
  - (b) plus any water allocations assigned from another licence under section 71G of the Act in that year,
  - (c) plus any water allocations recredited in accordance with section 76 of the Act in that year, and
  - (d) minus any water allocations assigned to another licence under section 71G of the Act in that year.
- (10) Allocations in a local water utility or domestic and stock access licence water allocation account cannot be carried over from one water accounting year to the next.
- (11) A water allocation account shall remain at or above zero at all times.

## **Division 3 Management of local impacts**

### **35 Management of local impacts**

This Division is made in accordance with section 21 (a) of the Act.

### **36 Extraction interference between neighbouring bores**

- (1) To minimise interference between extraction under different access licences in this groundwater source, extraction from a water supply work (bore) nominated by an access licence will not be permitted within:
    - (a) 1,000 metres of another water supply work (bore) nominated by an access licence authorised to extract up to, and including, 10 ML/day,
    - (b) 2,000 metres of another water supply work nominated by an access licence authorised to extract greater than 10 ML/day, and up to and including 15 ML/day, and
    - (c) 3,000 metres of another water supply work nominated by an access licence authorised to extract greater than 15 ML/day.
  - (2) Notwithstanding the provisions of subclause (1), the Minister may, upon application by an access licence holder, vary the distance restrictions specified in subclause (1) if:
    - (a) an hydrogeological study undertaken by the licence holder, and assessed as adequate by the Minister, demonstrates minimal potential for any adverse impact on existing licensed extraction,
    - (b) all potentially affected access licence holders have been notified by the proponent, and
- (3) Subclause (1) does not apply to extraction under existing access licences.

**Note—**

Potentially affected access licence holders are typically neighbouring access licence holders and/or those in the near vicinity.

- (c) there is a process for remediation in the event that any adverse impact occurs in the future, specified as conditions on the licence.

**Note—**

The intention of this clause is to minimise the impact of extraction under new access licences on extraction under existing access licences. It is intended to develop models to support hydrogeological assessment of the adverse impacts of new groundwater extractions on existing licensed extraction.

### **37 Water level management**

- (1) The Minister may declare that, in order to protect water levels within this groundwater source, local access rules are to apply in a defined area known as a local impact area.
- (2) If water levels in any part of this groundwater source have declined to such an extent that an adverse impact is occurring, or is likely to occur, extraction from all water supply works (bores) nominated by an access licence within a local impact area declared under subclause (1) will be restricted to such an extent and for such time as

is required to reinstate water levels to such a degree as to mitigate or avoid that impact.

- (3) An adverse impact in subclause (2) will be considered to have occurred if the Minister considers that excessive drawdown has occurred, or if:
  - (a) the average of the seasonally recovered water levels over a 5 year period is not maintained within 10% of the total available drawdown below the initial seasonally recovered water level over the 5 year period, or
  - (b) if the seasonally recovered water levels are not maintained within 20% of the total available drawdown below the seasonally recovered water level at the commencement of this Plan.

**Note—**

This clause recognises that in some locations, at certain periods of high groundwater demand, critical water level declines may occur, and that additional extraction limitations may be required. The Department of Land and Water Conservation will identify monitoring bores, and determine the method for specifying an affected area.

### **38 Water quality management**

- (1) The beneficial uses of this groundwater source based on the Australian and New Zealand Environment and Conservation Council *Water Quality Guidelines 2000*, and the National Health and Medical Research Council *Raw Water for Drinking Purposes Guidelines 1996*, are raw water for drinking supplies, and agriculture water.
- (2) Water quality decline will be deemed unacceptable if extraction is likely to cause water quality to decline to a lower beneficial use class.

**Note—**

It is not recommended that the water from this groundwater source be consumed without prior treatment. Land use activities may have polluted the groundwater in some areas.

- (3) The Minister may declare that, in order to protect water quality within this groundwater source, local access rules are to apply in a defined area known as a local impact area.
- (4) A baseline of electrical conductivity (hereafter **EC**), against which changes in the salinity of groundwater will be measured, will be set in year 6 of this Plan based on the results of a salinity monitoring program undertaken by the Minister.
- (5) The EC limits adopted by this Plan for the beneficial use classes are as follows:
  - (a) 800 EC for raw water for drinking supplies class, and
  - (b) 1,500 EC for agricultural water class.

**Note—**

These are the limits specified in *Guidelines for Groundwater Protection in Australia*, Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, 1995, (and as adopted by the NSW Government *Groundwater Quality Protection Policy 1997*).

- (6) If, for groundwater of less than 800 EC, as established by the salinity baseline set by subclause (4), there is an increase in salinity of more than 20% of the difference between the salinity baseline set by subclause (4) and the beneficial use class established in subclause (5) (a), then:
- (a) the Minister may declare a local impact area,
  - (b) access licence holders within the local impact area will need to demonstrate to the Minister that continual extraction, or a proposed new extraction regime, will not have an unacceptable impact on the groundwater quality of the aquifer, and
  - (c) until such time that this justification to continue to extract has been assessed and approved by the Minister:
    - (i) extraction from water supply works nominated by an access licence within the local impact area will be restricted to such an extent and for such time as required to halt that salinity increase, or
    - (ii) access licence holders may be issued with a directive to cease to pump.
- (7) If, for groundwater of less greater than 800 EC and less than 1,500 EC, as established by the salinity baseline set by subclause (4), there is an increase in salinity of more than 20% of the difference between the salinity baseline set by subclause (4) and the beneficial use class established in subclause (5) (b), then:
- (a) the Minister may declare a local impact area,
  - (b) access licence holders within the local impact area will need to demonstrate to the Minister that continual extraction, or a proposed new extraction regime, will not have an unacceptable impact on the groundwater quality of the aquifer, and
  - (c) until such time that this justification to continue to extract has been assessed and approved by the Minister:
    - (i) extraction from water supply works nominated by an access licence within the local impact area will be restricted to such an extent and for such time as required to halt that salinity increase, or
    - (ii) access licence holders may be issued with a directive to cease to pump.
- (8) If, for groundwater in excess of 1,500 EC, as established by the salinity baseline set by subclause (4), there is an increase of more than 20% from the salinity baseline set by subclause (4) then:

- (a) the Minister may declare a local impact area,
  - (b) access licence holders within the local impact area will need to demonstrate to the Minister, that continual extraction, or a proposed new extraction regime, will not have an unacceptable impact on the groundwater quality of the aquifer, and
  - (c) until such time that this justification to continue to extract has been assessed and approved by the Minister:
    - (i) extraction from water supply works nominated by an access licence within the local impact area will be restricted to such an extent and for such time as required to halt that salinity increase, or
    - (ii) access licence holders may be issued with a directive to cease to pump.
- (9) If there is an increase in salinity from extraction that results in the current beneficial use class salinity limit being exceeded, then subclause (7) (c) will apply.

**39 Protection of groundwater dependent ecosystems and Aboriginal cultural heritage values**

- (1) Extraction of groundwater from a new or replacement water supply work (bore) is excluded:
  - (a) for works nominated by an access licence, within 200 metres of high priority groundwater dependent ecosystems, or where impact may occur on Aboriginal cultural heritage values,
  - (b) for those exercising basic landholder rights, within 100 metres of high priority groundwater dependent ecosystems, or where impact may occur on Aboriginal cultural heritage values, and
  - (c) within 40 metres of any river for any works.
- (2) Subclause (1) shall not apply to extraction from an existing water supply work (bore) until such time as the work is replaced.
- (3) The Minister may exempt a replacement water supply work (bore) from subclause (1) if:
  - (a) the replacement water supply work (bore) only draws water from an aquifer at depths as approved by the Minister, and
  - (b) the approval holder demonstrates to the Minister's satisfaction that current authorised extraction from that water supply work (bore) will not cause more than minimal impact on priority groundwater dependent ecosystems or Aboriginal cultural heritage values.
- (4) Notwithstanding subclause (2), extraction from existing bores within the distances



specified in subclauses (1) (a) and (1) (b) may be restricted to such an extent as to minimise the impact of extraction on the high priority groundwater dependent ecosystems and Aboriginal cultural heritage values.

- (5) High priority groundwater dependent ecosystems and Aboriginal cultural heritage values are listed in Schedule 5.
- (6) Pursuant to section 42 (2) of the Act, the Minister may identify further high priority groundwater dependent ecosystems and Aboriginal cultural heritage values, and include them in Schedule 5 at 30 June 2007, based on further studies of groundwater ecosystem dependency and Aboriginal cultural heritage undertaken by the Minister.
- (7) The Minister should consult with the Minister for the Environment before adding further priority groundwater dependent ecosystems to Schedule 5.

#### **40 Protection of aquifer integrity**

- (1) The Minister may declare that, in order to protect the integrity of the aquifers within this groundwater source, local access restrictions are to apply in a defined area known as a local impact area.
- (2) The Minister may, on presentation of evidence of land subsidence or aquifer compaction, restrict extraction from all water supply works (bores) within a local impact area declared under subclause (1), and nominated by an access licence, to such an extent and for such time as to stabilise that subsidence or compaction.

#### **41 Extraction restrictions**

The Minister may, in the event of local impact restrictions arising from this Division, impose, by Order, a reduction in annual, quarterly, monthly, weekly or daily extraction rates from water supply works (bores) in the affected area.

#### **42 Group registration**

This Plan allows for the formation of a group of access licences with respect to the sharing of local impact restrictions arising from this Division, subject to the following rules:

- (a) the group register will be maintained by the Minister,
- (b) holders of access licences must make a request to the Minister to form a group,
- (c) total extraction by all access licences within a group will be assessed as a whole against their combined restricted extraction and must not exceed that amount,
- (d) no access licence holder within the group may extract more than is permitted by Division 2 of this Part, in any one water accounting year as a result of participation in a group,
- (e) an access licence holder may apply to be removed by the Minister from the group and

the extraction by the group will be reduced by the extraction restriction of that access licence,

- (f) an access licence holder may apply to be added by the Minister to the group and the combined extraction of the group will be increased by the extraction restriction of that access licence, and
- (g) the Minister reserves the right to remove a licence holder from a group where that individual causes the group extraction limit to be exceeded, or to dissolve a group where its members exceed their combined extraction restriction.

### **43 Infrastructure failure**

- (1) The operational rules relating to local impact management may rely on water levels at specified monitoring bores.
- (2) In the event of a monitoring bore failure the Minister may:
  - (a) continue with the current access rules until the monitoring bore is reinstated,
  - (b) adjust the current access rules based on climatic conditions and any other monitoring bore information, until the monitoring bore is reinstated, or
  - (c) rely on another monitoring bore in the area to provide information.

## **Part 11 Access licence dealing rules**

### **44 Access licence dealing rules**

- (1) This Part is made in accordance with section 20 (1) (e) of the Act and with the Minister's access licence dealing principles gazetted on 27 December 2002 under section 71L of the Act.

**Note—**

The Minister's access licence dealing principles are contained in Appendix 4.

- (2) Applications for access licence dealings may be granted subject to the Minister's access licence dealing principles gazetted from time to time under section 71L of the Act and the rules in this Part.

**Note—**

There are a number of mechanisms within the Act, called access licence dealings, to change either the ownership of all or part of an access licence, or the location within a water source at which all or part of the share and extraction components of access licences can be exercised. These dealings are governed by the principles in section 5 of the Act, Minister's access licence dealing principles, and the rules in this Part.

**Note—**

Where there is an inconsistency between access licence dealing rules established in this Plan and Minister's access licence dealing principles gazetted subsequent to the commencement of this Plan, section 71L of the Act

provides for the access licence dealing rules in this Plan to prevail.

#### **45 Rules relating to constraints within this groundwater source**

- (1) This clause applies to any relevant dealings under sections 71D, 71F, and 71J of the Act, and section 71G of the Act with respect to allocation assignments within this groundwater source.
- (2) Dealings are prohibited under this clause if:
  - (a) any of the access licences or water allocations involved are not within this groundwater source,
  - (b) the dealing would result in the total extraction under access licences through nominated works in the area, plus basic landholder rights extraction, causing any adverse local impact in accordance with Part 10 Division 3 of this Plan or otherwise.

#### **46 Rules for change of water source**

- (1) This clause relates to dealings under section 71E of the Act.

**Note—**

Section 71E dealings are the mechanism by which access licences can move from one water source to another. Once the change in water source has been effected, if permitted, the new licence will have to nominate specified works (by a dealing under section 71J of the Act) in the receiving water source before extraction can commence.

- (2) Dealings under section 71E of the Act that change the water source to which an access licence applies are prohibited in this groundwater source.

#### **47 Rules for conversion of access licence category**

- (1) This clause relates to dealings under section 71B of the Act.
- (2) Dealings that result in conversion of an access licence of one category to an access licence of another category are prohibited in this groundwater source.

#### **48 Rules for interstate access licence transfer**

- (1) This clause relates to dealings under section 71H of the Act.
- (2) Dealings that result in an interstate access licence transfer into or out of this groundwater source are prohibited.

#### **49 Rules for water allocation assignments between water sources**

- (1) This clause relates to dealings under section 71G of the Act for assignment of water allocations between water sources.
- (2) Dealings that assign water allocations between access licences in other water sources

and access licences in this groundwater source are prohibited.

**Note—**

Each water allocation assignment must be applied for. Access licence holders may enter into private contracts to assign water allocations for a number of years. Such contracts are not guaranteed by the Government, and approval must be sought annually. Approval will be subject to the rules in this Plan, including local impact assessment.

**50 Rules for interstate assignment of water allocations**

- (1) This clause relates to dealings under section 71I of the Act.
- (2) Dealings that result in an interstate assignment of water allocations to or from this groundwater source are prohibited.

**Part 12 Mandatory conditions**

**51 Mandatory conditions on access licences**

This Part is made in accordance with sections 17 (c) and 20 (2) (e) of the Act.

**52 Access licence conditions**

- (1) All access licences shall have mandatory conditions in relation to the following:
  - (a) the specification of the share component of the access licence,
  - (b) the specification of the extraction component of the access licence,
  - (c) the requirement that all taking of water under the access licence will be subject to the available water determinations,
  - (d) the requirement that all taking of water under the access licence will be subject to any local impact management restrictions established in this Plan,
  - (e) the requirement that all taking of water under the access licence will be subject to the account management rules established in this Plan,
  - (f) the requirement that water may only be taken under the access licence by the water supply work (bore) nominated by the access licence,
  - (g) the taking of water in accordance with the access licence may only occur if the resulting debit from the access licence water allocation account will not exceed the volume of water allocation remaining in the account, and
  - (h) any other conditions required to implement the provisions of this Plan.
- (2) All aquifer access licences shall have mandatory conditions to give effect to clause 25, in relation to the amendment of access licence share components.

- (3) All domestic and stock access licences shall have mandatory conditions that only allow the taking of water for the purpose of domestic consumption or stock watering as defined in section 52 of the Act.
- (4) All local water utility access licences shall have mandatory conditions that only allow the taking of water for the exercise of a water supply function of the local water utility or for other such purpose provided for under the Act.
- (5) All aquifer (community and education) access licences shall have mandatory conditions that only allow the taking of water for the purpose of school educational, and not for profit community recreational facilities.

### **53 Mandatory conditions on water supply work (bore) approvals**

All approvals for a water supply work (bore) to which this Plan applies shall have mandatory conditions in relation to the following:

- (a) the water supply work (bore) is only to be constructed by a driller licensed under section 349 of the Act,
- (b) the water supply work (bore) must comply with drilling standards as specified by the Minister,
- (c) construction of a water supply work (bore) must prevent contamination between aquifers through proper bore construction,
- (d) a water supply work (bore) approval holder must ensure decommissioning procedures comply with applicable standards as specified by the Minister,
- (e) new or replacement water supply work (bore) to access water for basic rights will be required, as a condition of approval, to be constructed to sufficient depth to maintain access to the water source for the life of the work,
- (f) the water supply work (bore) approval holder is, within 2 months of completion of the work, or after the issue of the approval if the water supply work (bore) is existing, to provide to the Minister with:
  - (i) details of the work on the prescribed form,
  - (ii) a plan showing accurately the location of the work in relation to portion and property boundaries, and
  - (iii) details of any water analysis and/or pumping tests required by the Minister,
- (g) if during the construction of the water supply work (bore), saline or contaminated water is encountered above the producing aquifer, such water is to be sealed off by:
  - (i) inserting the appropriate length(s) of casing to a depth sufficient to exclude the saline or contaminated water from the work, and

- (ii) placing an impermeable seal between the casing(s) and the walls of the bore hole from the bottom of the casing to ground level, as specified by the Minister,
- (h) if a water supply work (bore) is abandoned, the water supply work (bore) approval holder is to:
  - (i) notify the Minister that the work has been abandoned, and
  - (ii) seal off the aquifer by backfilling the work to ground level after withdrawing the casing (lining), as specified by the Minister,
- (i) an extraction measurement device shall be installed and maintained on each water supply work (bore) used for extraction of water under an access licence, and such devices shall be of a type, and shall be maintained in a manner, which is acceptable to the Minister,
- (j) a water supply work (bore) must comply with the relevant local impact management rules in Part 10 of this Plan,
- (k) notwithstanding the available water determination, it is the responsibility of the water supply work (bore) approval holder to ascertain from the Minister whether or not there are in place any local impact restrictions before commencing to take water from this groundwater source,
- (l) extraction under an access licence through the approved water supply work (bore) is only authorised with respect to the access licences specified on the water supply work (bore) approval,
- (m) a water supply work (bore) approval holder must supply to the Minister on request, and to the required standards, a report pertaining to the quality of the water obtained from the water supply work (bore), and
- (n) any other conditions required to implement the provisions of this Plan.

**Note—**

It is recommended that the Minister also apply conditions to water use approvals requiring the supply of information on an annual basis on types and areas of irrigated crops.

## **Part 13 Monitoring and reporting**

### **54 Monitoring**

The monitoring of the performance indicators specified in clause 13 shall be undertaken by the Minister.

**Note—**

Review and Audit of this Plan

In accordance with section 43 (2) of the Act, this Plan is to be reviewed, within the fifth year of its term, for the

purpose of ascertaining whether its provisions remain adequate and appropriate for ensuring the effective implementation of the water management principles of the Act.

In accordance with section 44 of the Act, this Plan will be audited at intervals of no more than five years, for the purpose of ascertaining whether its provisions are being given effect to. This audit is to be carried out by an audit panel appointed by the Minister in consultation with a water management committee where one exists.

**Note—**

The Implementation Program

In accordance with section 51 of the Act, the Minister may establish an Implementation Program that sets out the means by which the provisions of this Plan are to be achieved.

It is proposed that the Minister establish an Implementation Program for this Plan. Pursuant to section 51 (5) of the Act, the implementation program is to be reviewed annually by the Minister to determine whether it is effective in implementing this Plan.

The results of the review of the Implementation Program will be included in the annual report for the Department of Land and Water Conservation.

## Part 14 Amendment of this Plan

### 55 Amendments of this Plan

- (1) This Part is made in accordance with section 42 (2) of the Act.
- (2) This Plan can be amended in accordance with the following clauses of this Plan:
  - (a) clause 16 in respect to the average annual recharge,
  - (b) clause 18 in respect to environmental health water,
  - (c) clause 25 in respect to share components of access licences,
  - (d) clause 28 in respect to long-term average extraction limit,
  - (e) clause 34 in respect to the water allocation account management rules, or
  - (f) clause 39 in respect to high priority groundwater dependent ecosystems and Aboriginal cultural heritage values.

## Dictionary

The following definitions apply to this Plan in addition to the definitions set out in the Act:

**abandoned** (work) refers to a water supply work (bore) that is no longer being used.

**aquifer compaction** refers to the reduction in the porosity (pore spaces) of an aquifer, and may result from over pumping the aquifer.

**available water** in relation to a water management area or water source, is the water that is available in that area or water source in accordance with an available water determination that is in force in respect of that area or water source.

**available water determination** is a written Order by the Minister as to the availability of water for the various categories of access licence in relation to a specified water management area or water source.

**Note—**

An available water determination gives rise to a water allocation that is credited to a water allocation account for each licensed holder.

**bedrock** is the solid rock underlying unconsolidated sediments such as the soil and weathered rock. Bedrock is a general term for solid rock that lies beneath soil, loose sediments, or other unconsolidated material.

**buffer zone** is an area surrounding a groundwater dependent ecosystem or other feature (such as an area of low quality) within which extraction, or the impact of extraction, is restricted.

**drawdown** refers to a lowering of the the level to which water will rise in cased bores. Natural drawdown may occur due to seasonal climatic changes. Groundwater pumping may also result in seasonal and long-term drawdown.

**extraction limit** is the amount of the long-term average annual recharge and storage that can be extracted, on average, each water accounting year.

**groundwater** is water that occurs beneath the ground surface in the saturated zone.

**groundwater dependent ecosystems** are ecosystems which have their species composition and natural ecological processes wholly or partially determined by groundwater.

**monitoring bore** refers to a bore constructed for the purpose of measuring water levels and/or taking samples for water quality analysis.

**recharge** is the addition of water, usually by infiltration, to an aquifer.

**share component** is the share component of an access licence.

**total available drawdown** is defined by the height of the piezometric level above the bedrock (i.e. base of the groundwater source). Groundwater levels will be measured in the winter months of June, July or August allowing the aquifer to recover from the previous pumping season.

**unconsolidated alluvial aquifers** are formed from sediments deposited by the action of flowing water in particular along river beds and floodplains, but not including lakes and seas.





HIGH—while not fully contributing to target, there is a good level of contribution

PARTIAL—goes some way to contributing to the target

LOW—only small degree of contribution to the target

Relevant Target	Level of Contribution	Comments
<p><b>Target 1e</b> The long term average annual extractions for groundwater limited (or being phased down) to an ecologically sustainable level (the Sustainable Yield) as determined by detailed assessment of each groundwater source and consultation with the relevant management committee. In the absence of such an assessment, the following to apply: 100 percent of average annual recharge for a groundwater source where there is no significant ecosystem dependency; 70 percent of average annual recharge where there is significant ecosystem dependency</p>	PARTIAL	<ul style="list-style-type: none"> <li>• This Plan establishes as extraction limit of 80% of recharge.</li> <li>• No detailed assessment of groundwater dependent ecosystems has been undertaken.</li> <li>• An expert panel identified wetlands and floodplain vegetation along the Lachlan river and prior streams as likely to be groundwater dependent. The groundwater source also discharges to the Lachlan river.</li> <li>• This Plan provides for the extraction limit to be reviewed by June 30 2007.</li> </ul>
<p><b>Target 1f</b> Rules for adjustments to future available water determinations in the event that the extraction limits are exceeded, clearly prescribed in consultation with the relevant management committee, and acted upon</p>	FULL	<ul style="list-style-type: none"> <li>• Rules set out in Part 9.</li> </ul>

**Target 2** All management plans incorporating mechanisms to protect and restore aquatic habitats, and the diversity and abundance of native animals and plants, with particular reference to threatened species, populations and communities and key threatening processes

PARTIAL

- Detailed assessment of groundwater dependent ecosystems was not undertaken, nevertheless an expert panel identified wetlands and floodplain vegetation along the Lachlan river and prior streams as likely to be groundwater dependent ecosystems. The groundwater source also discharges to the Lachlan River.
- This Plan excludes licensed extraction from within 200 metres of wetlands and 40 metres of any creek or river.
- This Plan prohibits new or replacement extraction bores within 200 metres of any high priority dependent groundwater ecosystems and 100 metres for basic rights bores.
- This Plan establishes extraction rules/specified drawdown limits to manage groundwater level declines, groundwater quality impacts, and to protect aquifer integrity.
- This Plan provides for review (including more detailed investigation of groundwater dependency) and variation in Environmental Health Water and extraction limit by June 30 2007.

**Target 5** Access rights for water access licensees clearly and legally specified in terms of share and extraction components

PARTIAL

- This Plan establishes transparent extraction limits and allocation/account rules.
- This Plan embargos new licence applications.
- The necessary reduction in licence volumes will not be completed until Year 10 and will therefore leave the water rights and market uncertain in the meantime.
- The local extraction rules means that future rights will not be exclusive but affected by the future location of works. Access licences with existing bores will have priority over licences requiring new bores.

**Target 6a** For groundwater sources, the total volume of water specified on access licences reduced over the term of a water sharing plan to no more than 125 percent of the Sustainable Yield

FULL

- The total access licence volume for groundwater source is greater than 125% of the extraction limit.
- This Plan proposes a reduction in access licence share components to 125% by the end of year 10.

<p><b>Target 10</b> Degree of connectivity between aquifers and rivers assessed, and zones of high connectivity mapped to enable baseflows to the river to be maintained or improved</p>	<p>PARTIAL</p>	<ul style="list-style-type: none"> <li>• While detailed assessment of connectivity was not undertaken, an expert panel concluded that the groundwater source would lose or gain from the river depending on season.</li> <li>• The relatively high extraction limit may result in significant impacts on discharges to the river and creeks.</li> <li>• This Plan excludes licensed extraction from within 40 metres of any creek.</li> <li>• Detailed assessment of groundwater dependent ecosystems was not undertaken, nevertheless an expert panel identified wetlands and floodplain vegetation along the Lachlan river and prior streams as likely to be groundwater dependent particularly those in the shallow saturated zone between Hillston and Lake Brewster.</li> </ul>
<p><b>Target 11</b> Groundwater dependent ecosystems identified and mapped for all priority aquifers, and the ecological water requirements assessed to enable local groundwater extraction rates and/or Sustainable Yields to be reviewed</p>	<p>PARTIAL</p>	<ul style="list-style-type: none"> <li>• This Plan excludes licensed extraction from within 200 metres of wetlands and prohibits new or replacement bores 200 metres (100 metres for basic rights bores) from any high priority dependent groundwater ecosystems.</li> <li>• This Plan provides for review (including more detailed assessment of groundwater dependency) and variation in Environmental Health Water and extraction limit by June 30 2007.</li> </ul>
<p><b>Target 12</b> Measures in place in all water sources subject to a gazetted water sharing plan to protect domestic and stock rights from the impact of other water access and use</p>	<p>FULL</p>	<ul style="list-style-type: none"> <li>• This Plan has identified the volumes necessary to meet basic domestic and stock requirements.</li> <li>• It also protects domestic and stock bores from interference from higher yielding bores.</li> </ul>
<p><b>Target 13</b> The knowledge sharing, training and resources necessary to ensure that Aboriginal people have the capacity to be effectively involved in water management identified and addressed</p>	<p>PARTIAL</p>	<ul style="list-style-type: none"> <li>• 1 Aboriginal community representatives has been involved in development of this Plan.</li> <li>• A Department of Land and Water Conservation Aboriginal Natural Resources Officer consulted with local Aboriginal Communities.</li> </ul>

<p><b>Target 14</b> Water sources, ecosystems and sites of cultural or traditional importance to Aboriginal people identified, plans of management prepared, and measures put in place to protect and improve them</p>	<p>PARTIAL</p>	<ul style="list-style-type: none"> <li>• No Aboriginal cultural or traditional sites or requirements have been identified.</li> <li>• This Plan has a specific objective to protect heritage sites and cultural values.</li> <li>• This Plan excludes licensed extraction from within 200 metres of wetlands and prohibits new or replacement bores (100 metres for basic rights bores) from any high priority dependent groundwater ecosystems.</li> <li>• This Plan prohibits extraction new or replacement bores 200 metres (100 metres for basic rights bores) from any designated Aboriginal heritage sites.</li> <li>• This Plan provides for an assessment of the environmental and Aboriginal heritage requirements by 2006.</li> <li>• This Plan provides for assessment of new licence applications by Aboriginal interests.</li> <li>• This Plan proposes the necessary reduction in access licence share component in years 5 and 10, therefore the market may be distorted by this higher level of entitlement.</li> </ul>
<p><b>Target 16a</b> All share components of access licences tradeable</p>	<p>PARTIAL</p>	<ul style="list-style-type: none"> <li>• This Plan allows trading, but restricts it into areas where there may be impacts on the environment or other users.</li> </ul>
<p><b>Target 16f</b> Zones established where necessary for environmental protection and limits/constraints on water dealings in them made explicit</p>	<p>FULL</p>	<ul style="list-style-type: none"> <li>• This Plan does include a general water quality objective and the beneficial use categories and references the ANZECC guidelines.</li> <li>• This Plan does establish specific rules to protect water quality.</li> </ul>
<p><b>Target 35</b> All management plans incorporating water quality objectives that have considered Government approved Interim Environmental Objectives, the current Australian and New Zealand Environment and Conservation Council Guidelines and the recommendations of relevant Healthy Rivers Commission Inquiries</p>	<p>FULL</p>	<ul style="list-style-type: none"> <li>• No vulnerability mapping of area is referenced in this Plan.</li> <li>• Rules established in this Plan to limit the movement of poor quality water.</li> </ul>
<p><b>Target 38</b> Aquifer water quality vulnerability zones mapped and extraction limits reviewed to reduce the risk of lateral intrusion of poor quality water</p>	<p>PARTIAL</p>	

## Schedule 4 Licences exempt from access licence share component

## adjustments

<b>Water Act 1912 licence number</b>	<b>Licence holder and volume</b>
70B153508	Hilston Junior Rugby Club (24 ML/yr)
70BL228160	Burilda Water Users Association (24 ML/yr)

## Schedule 5 High priority groundwater dependent ecosystems and identified Aboriginal cultural heritage values

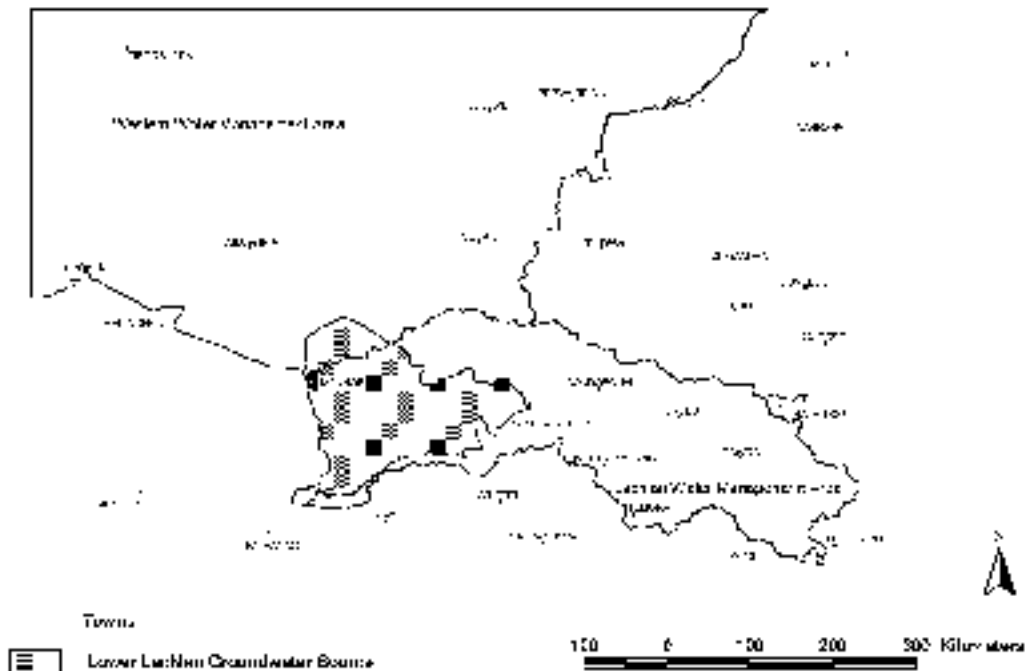
At the commencement of this Plan:

- (a) The Great Cumbung Swamp is the only identified high priority groundwater dependent ecosystem in the Lower Lachlan Groundwater Source, and
- (b) there are no identified Aboriginal cultural heritage values in the Lower Lachlan Groundwater Source.

### Note—

The high priority groundwater dependant ecosystems and identified Aboriginal cultural heritage values listed in this Schedule may change during the period of this Plan. The offices of the Department of Land and Water Conservation, shown in Appendix 2, should be contacted for a current list.

## Appendix 1 Lachlan and Western Water Management Areas



## Appendix 2 Location of maps

The maps in relation to this Plan may be inspected at:

District Office  
 Department of Land and Water Conservation  
 9 Spring Street  
 FORBES NSW 2871

District Office  
 Department of Land and Water Conservation  
 7 Hay Street  
 CONDOBOLIN NSW 2877

Regional Office  
 Department of Land and Water Conservation  
 Cnr Anson & Kite Streets  
 ORANGE NSW 2800

## Appendix 3 Performance indicators

### Performance indicators for the Lower Lachlan Groundwater Source Water Sharing Plan

Performance indicator	Related Objective	As measured by	Commentary
(a) Change in groundwater extraction relative to the extraction limit.	11 (a)	<ul style="list-style-type: none"> <li>Average annual extraction volume for the groundwater source as a percentage of the extraction limit.</li> </ul>	<ul style="list-style-type: none"> <li>Plan provisions will set the mechanism to remain within the extraction limit over the long-term.</li> </ul>
(b) Change in climate adjusted groundwater levels.	11 (a)	<ul style="list-style-type: none"> <li>Change in recovered water levels at the end of each water year.</li> <li>Density of extraction in critical areas.</li> </ul>	<ul style="list-style-type: none"> <li>Water levels will fluctuate with climate and resultant variable recharge. Some level declines will be expected during dry times, just as level rises are expected during wetter periods.</li> </ul>

(c) Change in water levels adjacent to identified groundwater dependent ecosystems.	11 (a)	<ul style="list-style-type: none"> <li>• Identification of groundwater dependent ecosystems (GDEs).</li> <li>• Assessment of the relationship between selected GDEs and local groundwater levels in terms of the water requirements of these GDEs.</li> <li>• Assessment of the adequacy of buffer zones or local impact restrictions by comparison of water levels near in or GDEs compared to plan baseline.</li> <li>• Frequency and duration of water level drawdown below critical levels.</li> </ul>	<ul style="list-style-type: none"> <li>• Groundwater dependent ecosystems should be identified in water sharing plans, or a process for their identification established.</li> </ul>
(d) Change in groundwater quality.	11 (a) 11 (b)	<ul style="list-style-type: none"> <li>• Trends in selected water quality parameters at selected monitoring bores that are likely to be affected by groundwater extraction.</li> </ul>	<ul style="list-style-type: none"> <li>• Many water quality issues are a function of contamination by land based activities, rather than extraction.</li> </ul>
(e) Change in economic benefits derived from groundwater extraction and use.	11 (b) 11 (c)	<ul style="list-style-type: none"> <li>• Change in regional gross margins.</li> <li>• Change in unit price of water transferred.</li> </ul>	<ul style="list-style-type: none"> <li>• There are many factors affecting economic status of a region, for example commodity prices, other sources of water (i.e. surface water) etc.</li> <li>• Assessment undertaken as part of plan performance monitoring will make assumptions to attempt to identify the impact of the plan's provisions.</li> </ul>
(f) Extent to which domestic and stock rights have been met.	11 (b) 11 (c)	<ul style="list-style-type: none"> <li>• Monitor increase in applications for water supply work (bore) approvals.</li> <li>• Number of reports of interference between high yield extraction and basic rights, or number of domestic and stock bores deepened.</li> <li>• Assess frequency and duration of water level drawdown below critical thresholds.</li> </ul>	<ul style="list-style-type: none"> <li>• Basic rights usage figures in water sharing plans are estimated (not actual use).</li> <li>• Increases in licences may be due to past unlicensed works.</li> </ul>



- |  |                  |  |
|--|------------------|--|
| (g) Extent to which local water utility requirements have been met.                                      |                  | <ul style="list-style-type: none"><li>• Monitor increase in access by local water utilities.</li><li>• Monitor impact of interference between high yield extraction and local water utility extraction.</li><li>• Monitor increase in applications for water supply work (bore) approvals for native title basic rights.</li></ul>   |
| (h) Extent to which native title rights requirements have been met.                                      | 11 (c)<br>11 (d) | <ul style="list-style-type: none"><li>• Number of reports of interference between high yield extraction and native title rights holders, or number of bores deepened.</li><li>• Assess frequency and duration of water level drawdown below critical thresholds.</li></ul>   |
| (i) Extent of recognition of spiritual, social and customary values of groundwater to Aboriginal people. | 11 (d)           | <ul style="list-style-type: none"><li>• Assessment of amount and type of information collected to identify the range of values of water to Aboriginal people.</li><li>• The collection of information on the values associated with water is considered the first step in addressing the objects of the Act.</li><li>• It would be expected that at the end of five years there should be relevant information collected for the groundwater source, as a minimum requirement.</li></ul> |

## Appendix 4 Minister's access licence dealing principles

The following is the text from the [Access Licence Dealing Principles Order](#), published in the NSW Government Gazette on 27 December 2002.

### Access Licence Dealing Principles Order 2002

#### Part 1 Introduction

##### 1 Name of Order

This Order is the [Access Licence Dealing Principles Order 2002](#).

##### 2 Commencement

This Order commences on 20 December 2002.

### 3 Establishment of access licence dealing principles

The access licence dealing principles set out in this order are established.

### 4 Interpretation

- (1) References in this order to licences of category 'runoff harvesting' or 'regulated river (conveyance)' are subject to those categories being prescribed by regulation made under section 57 (k) of the Act.
- (2) Notes in this order do not form part of the order.

### 5 Effect

- (1) Consistent with section 71K (1) of the Act, all applications for access licence dealings under Division 4 of Part 2 of Chapter 3 of the Act are to be dealt with in accordance with:
  - (a) the water management principles, and
  - (b) the principles in this order, and
  - (c) access licence dealing rules established by any relevant management plan.
- (2) Consistent with section 71L of the Act, any access licence dealing rules established by management plans must be consistent with the principles in this order.

### 6 Definitions

In this order the following definitions apply:

**dealing** means a dealing under Chapter 3, Part 2 Division 4 of the [Water Management Act 2000](#).

**farm dam** is a privately owned dam typically of earthen construction designed to collect and/or store water for use on one or a few properties. It does not include publicly owned dams or weirs.

**groundwater source** means a water source specified in a groundwater management plan.

**hydrologically connected** water sources are water sources where water from one flows into the other, or, in the case of river systems, where flow from both goes into a common river downstream.

**management plan** means a plan made under section 41 or 50 of the [Water Management Act 2000](#).

**regulated river water source** means a water source specified in a regulated river management plan.

**runoff harvesting dam** is a farm dam on a hillside or minor stream which collects and stores rainfall runoff. Minor streams are as defined in an order made under section 53 of the [Water Management Act 2000](#).

**unregulated river water source** means a water source specified in an unregulated river management plan.

## Part 2 General principles

### 7 Impacts on water sources

- (1) Dealings should not adversely affect environmental water and water dependent ecosystems as identified in any relevant management plan.
- (2) Dealings should be consistent with any strategies to maintain or enhance water quality identified in any relevant management plan.
- (3) In unregulated river water sources, dealings should not increase commitments to take water from water sources or parts of water sources identified in any relevant management plan as being of high conservation value.
- (4) In unregulated river water sources or a groundwater sources, dealings should not increase commitments to take water from water sources or parts of water sources above sustainable levels identified in any relevant management plan.
- (5) In regulated river water sources, dealings should not increase daily demand for water delivery at those locations and times where it is identified in any relevant management plan that demand exceeds delivery capacity.
- (6) In regulated river water sources, dealings should not increase commitments to take water in lower river or effluent systems where this will result in flow at greater than 80% of channel capacity for more than 10% of days used for water delivery.
- (7) In this clause, **commitments to take water** refers, in relation to all access licences with nominated works in that water source or part of a water source, to:
  - (a) the total volume of share components, or
  - (b) the total volume of water allocations in water allocation accounts, or
  - (c) where relevant, the sum of limits on rates of extraction in extraction components.

### 8 Impacts on indigenous, cultural, heritage or spiritual matters

- (1) Dealings should not adversely affect geographical and other features of indigenous significance.
- (2) Dealings should not adversely affect geographical and other features of major cultural, heritage or spiritual significance.

## **9 Impacts on water users**

- (1) Dealings should not adversely affect the ability of a person to exercise their basic landholder rights.
- (2) Dealings should have no more than minimal effect on the ability of a person to take water using an existing approved water supply work and any associated access licences. This should be addressed by constraints on dealings established in access licence dealing rules in relevant management plans.

## **10 Maximising social and economic benefits**

- (1) The objective of access licence dealings is to help to facilitate maximising social and economic benefits to the community of access licences as required under the objects of the Act. Dealings do this by:
  - (a) allowing water to move from lower to higher value uses, and
  - (b) allowing the establishment of water markets that value the access licences, thereby encouraging investment in water efficient infrastructure, and
  - (c) allowing greater flexibility to access licence holders.
- (2) Subject to other principles in this order, access licence dealing rules should allow maximum flexibility in dealings to promote the objectives set out in subclause (1).

## **Part 3 Principles for specific types of access licence dealings**

### **11 Transfer of access licences**

- (1) This clause applies to dealings under section 71A of the Act.
- (2) Dealings under section 71A are prohibited:
  - (a) if there is an outstanding debt under the Act in respect of the licence, or
  - (b) if the licence is suspended under section 78 of the Act.
- (3) Access licence dealing rules established by a management plan shall not regulate or prohibit dealings under section 71A of the Act.

#### **Note—**

as indicated in section 71A (3), consent to the transfer of a local water utility access licence may only be granted if the transferee is a local water utility, and consent to the transfer of a major water utility access licence may only be granted if the transferee is a major water utility.

### **12 Conversion of access licence to new category**

- (1) This clause applies to access licence dealings under section 71B of the Act.

- (2) Dealings under section 71B are prohibited:
  - (a) if the licence is proposed to be converted to category regulated river (conveyance) or category estuarine or category coastal, or
  - (b) if there is an outstanding debt under the Act in respect of the licence, or
  - (c) if the licence is suspended under section 78 of the Act, or
  - (d) if the licence is of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, or
  - (e) if the licence share component is not numerically quantified.
- (3) Dealings under section 71B are prohibited unless provisions of the relevant management plan:
  - (a) protect environmental water from being affected by such dealings, and
  - (b) protect basic landholder rights from being affected by such dealings, and
  - (c) protect the available water under other access licences from being affected by such dealings.
- (4) The share and extraction components of a new licence issued under a dealing under section 71B must comply with any requirements that are specified in the relevant management plan for a licence granted under section 63 of the Act for the new category.
- (5) Except for where it is otherwise specified in access licence dealing rules in the relevant management plan or where this dealing is accompanied by a dealing under section 71E, water allocations remaining in the water allocation account of the cancelled licence are to be credited to the new licence, up to a maximum of the share component volume of the new licence.
- (6) The share component on a new access licence issued under a dealing under section 71B is to be of a volume equal to the volume on the cancelled licence multiplied by a conversion factor determined by the Minister in accordance with any rules set out in relevant management plans.
- (7) Conversion factor rules in management plans:
  - (a) must be based on protecting environmental water and basic landholder rights as specified in the management plans, and maintaining available water to other access licences, and
  - (b) are not to be set for the purpose of achieving a reduction in overall water extraction from water sources.

- (8) Subject to the granting of an application under section 71J, any nominated water supply works on the cancelled licence may be carried forward to the new licence.
- (9) For conversion of category from regulated river (high security), unregulated river or aquifer to major utility and vice versa:
  - (a) a major utility licence may only be converted to another category if it has components relating to only one water source, and
  - (b) subject to imposing such mandatory conditions as are required by the relevant management plan for the new category, the extraction component on the cancelled licence is to be carried over to the new licence.
- (10) For conversion of category from regulated river (general security) to regulated river (high security) and vice versa, and for conversion of category from domestic and stock to regulated river (high security) and vice versa, the extraction component on the cancelled licence is to be carried over to the new licence, subject to imposing such mandatory conditions as are required by the relevant management plan for the new category.
- (11) For conversion of category from regulated river (conveyance) to regulated river (high security) or regulated river (general security), the extraction component on the cancelled licence is to be carried over to the new licence, subject to imposing such mandatory conditions as are required by the relevant management plan for the new category.
- (12) For conversion of category from regulated river (general security) to unregulated river:
  - (a) no parts of the extraction component on the cancelled licence are to be carried over to the new licence, and
  - (b) the extraction component of the new licence is to specify a location or area which is on an unregulated river (apart from a minor stream as defined in an order made under section 53 of the Act), and
  - (c) the application for conversion of category from regulated river (general security) to unregulated river must be accompanied by an application under section 71E to change the share component to an unregulated river water source, and is conditional on granting of that application, and
  - (d) water allocations remaining in the water allocation account on the cancelled licence may not be credited to the new licence.
- (13) For conversion of category from unregulated river to runoff harvesting:
  - (a) no parts of the extraction component on the cancelled licence are to be carried over to the new licence, and

- (b) the extraction component of the new licence is to specify a location or area which is not on a river (apart from a minor stream as defined in an order made under section 53 of the Act), and
  - (c) the application for conversion of category from unregulated river to runoff harvesting access licence must be accompanied by an application under section 71J to nominate the water supply work to a runoff harvesting dam, and is conditional on granting of that application.
- (14) For conversion of category from runoff harvesting to unregulated river:
- (a) no parts of the extraction component on the cancelled licence are to be carried over to the new licence, and
  - (b) the extraction component of the new licence is to specify a location or area which is on an unregulated river (apart from a minor stream as defined in an order made under section 53 of the Act).
- (15) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

**Note—**

Under section 71B applications to convert local water utility access licences and supplementary access licences are prohibited, and licences granted are subject to the mandatory conditions applicable to the category or subcategory of licence to which it belongs. Also licences may only be granted in relation to the same water source or water management area as the cancelled licence.

### **13 Subdivision of access licences**

- (1) This clause applies to subdivision dealings under section 71C of the Act.
- (2) Dealings under section 71C are prohibited:
  - (a) if there is an outstanding debt under the Act in respect of the licence, or
  - (b) if the licence is suspended under section 78 of the Act.
- (3) Subject to the granting of an application under section 71J, any nominated water supply works on the cancelled licence may be carried forward to the new licences.
- (4) The category of the new licences is to be the same as the category of the cancelled licence.
- (5) The areas or locations specified in the cancelled licence are to be carried over to all the new licences.
- (6) Any indivisible parts of the times, rates or circumstances specified in the extraction component of the cancelled licence are to be carried forward to all the new licences.

- (7) Water allocations remaining in the water allocation account of the cancelled licence are to be credited to the new licences so that the combined water allocations in the accounts of the new licences are no greater than the water allocations which remained in the account of the cancelled licence.
- (8) Access licence dealing rules established by a management plan shall not regulate or prohibit subdivision dealings under section 71C of the Act.

**Note—**

As indicated in section 71C (3), the combined share components and combined extraction components of the new licences are to be no greater than the share and extraction components of the cancelled licence, and conditions on the cancelled licence are to be carried over to the new licences.

**14 Consolidation of access licences**

- (1) This clause applies to consolidation dealings under section 71C of the Act.
- (2) Consolidation dealings under section 71C are prohibited:
  - (a) if there is an outstanding debt under the Act in respect of any of the licences, or
  - (b) if any of the licences are suspended under section 78 of the Act, or
  - (c) if the licences to be consolidated do not have share components in the same water source, or
  - (d) if the location or area specified in the extraction component of the licences is not the same.
- (3) Subject to the granting of an application under section 71J, any nominated water supply works on the cancelled licences may be carried forward to the new licence.
- (4) Water allocations remaining in the water allocation accounts on the cancelled licences are to be credited to the new licence so that the water allocations in the account of the new licence is no greater than the sum of the water allocations remaining in the accounts of the cancelled licences.
- (5) Access licence dealing rules established by a management plan shall not regulate or prohibit consolidation dealings under section 71C of the Act.

**Note—**

as indicated in section 71C, the licences to be consolidated must be of the same category or subcategory, the combined share components and combined extraction components of the new licences are to be no greater than the share and extraction components of the cancelled licence, and conditions on the cancelled licences are to be carried over to the new licences.

**15 Assignment of rights under access licences**

- (1) This clause applies to assignment of rights dealings under section 71D of the Act.



- (2) Dealings under section 71D are prohibited:
  - (a) if there is an outstanding debt under the Act in respect of any of the licences, or
  - (b) if any of the licences are suspended under section 78 of the Act, or
  - (c) if any of the licences are of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act.
- (3) Only share or extraction components, or parts thereof, that are numerically quantified may be assigned from one licence to another.
- (4) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

**Note—**

As indicated in section 71D, the licences which are involved in a dealing under section 71D must be of the same category and have share components in the same water source or water management area. This dealing does not apply to local water utility access licences.

**16 Change of water source**

- (1) This clause applies to amendment of share component dealings under section 71E of the Act.
- (2) Dealings under section 71E are prohibited:
  - (a) if there is an outstanding debt under the Act in respect of the licence, or
  - (b) if the licence is suspended under section 78 of the Act, or
  - (c) if the licence does not have the share component expressed as a volume, or
  - (d) if the licence is of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, or
  - (e) from an unregulated river water source to a regulated river water source, or
  - (f) from a groundwater source to a regulated river or unregulated river water source, or vice versa, or
  - (g) if the licence is of category major water utility or supplementary.
- (3) A dealing under section 71E is prohibited unless there is a hydrologic connection between the water sources of the cancelled and issued licences.
- (4) A dealing under section 71E is prohibited unless provisions of the relevant management plans:

- (a) protect environmental water from being affected by such dealings, and
  - (b) protect basic landholder rights from being affected by such dealings, and
  - (c) protect the available water under other access licences from being affected by such dealings.
- (5) The share and extraction components of a new licence issued under this dealing must comply with any requirements that are specified in the relevant management plan for a licence granted under section 63 of the Act.
- (6) The share component on the new access licence is to be of a volume equal to the volume on the cancelled licence multiplied by a conversion factor determined by the Minister in accordance with any rules set out in relevant management plans.
- (7) Conversion factors rules in management plans:
- (a) must be based on protecting environmental water and basic landholder rights as specified in the management plans, and maintaining the available water to other access licences, and
  - (b) are not to be set for the purpose of achieving a reduction in overall water extraction from water sources.
- (8) Nominated water supply works on the cancelled licence are not to be carried over to the new licence.
- (9) No water allocations remaining in the water allocation account of the cancelled licence may be credited to the new licence.
- (10) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

**Note—**

As indicated in section 71E, the new licence arising from a dealing under section 71E is subject to the mandatory conditions relevant to its category or subcategory and water source. This dealing does not apply to local water utility access licences.

**17 Amendment of extraction component of access licence**

- (1) This clause applies to amendment of extraction component dealings under section 71F of the Act.
- (2) Dealings under section 71F are prohibited:
- (a) if there is an outstanding debt under the Act in respect of the licence,
  - (b) if the licence is suspended under section 78 of the Act, or

- (c) if the licence is of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, apart from local water utility access licences.
- (3) Amendment of the times, rates and circumstances part of the extraction component may only occur where:
- (a) access licence dealing rules in the relevant plan make provision for it consistent with the principles in Part 2 of this order, and
  - (b) those rules specifically indicate the nature of those amendments which are allowed.
- (4) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

**Note—**

As indicated in section 71F, the area or location arising from a variation of an access licence under this dealing must relate to the same water management area or water source as that to which the original area or location related.

**18 Assignment of water allocations between access licences**

- (1) This clause applies to assignment of water allocation dealings under section 71G of the Act.
- (2) Dealings under section 71G are prohibited:
- (a) if either of the access licences is suspended under section 78 of the Act, or
  - (b) if either of the access licences are of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, apart from local water utility access licences, or
  - (c) if a method of measurement of water extraction which is satisfactory to the Minister is not established for all nominated water supply works on both access licences, or
  - (d) if any of the access licences is of category runoff harvesting, or
  - (e) if any of the access licences is of category major utility, unless specific provision is made in access licence dealing rules to allow this, or
  - (f) from a supplementary water access licence to a licence of any other category.
- (3) Assignment of water allocations between access licences relating to different water sources is prohibited if:

- (a) either licence is of category supplementary, or
  - (b) there is no hydrologic connection between the water sources, or
  - (c) one water source is a regulated river and the other is an unregulated river, or
  - (d) one water source is a groundwater source and the other is a regulated river or unregulated river water source.
- (4) Assignment of water allocations between access licences relating to different water sources is prohibited unless provisions of the relevant management plans:
- (a) protect environmental water from being affected by such dealings, and
  - (b) protect basic landholder rights from being affected by such dealings, and
  - (c) protect the available water under other access licences from being affected by such dealings.
- (5) Assignment of water allocations from a local water utility access licence is prohibited unless:
- (a) the Minister has approved a demand management plan for all NSW towns supplied under the local water utility access licence, and
  - (b) the Minister has approved a drought management plan for all NSW towns supplied under the local water utility access licence, and
  - (c) the Minister is satisfied the assignment will not put the water supply for NSW towns supplied by the local water utility at risk.
- (6) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

## **19 Interstate transfer dealings**

- (1) This clause applies to dealings under section 71H of the Act.
- (2) Any dealings under section 71H must be consistent with the relevant inter-state agreement.
- (3) Dealings under section 71H are prohibited unless the waters for which the interstate access licence equivalent has or will have rights to are hydrologically connected to the water source in which to which the access licence to be issued or revoked relates.
- (4) Dealings under section 71H which revoke an access licence are prohibited:
  - (a) if there is an outstanding debt under the Act in respect of the licence, or

- (b) if the licence is suspended under section 78 of the Act, or
  - (c) if the licence is of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, or
  - (d) if the licence is of category local water utility or major water utility.
- (5) The share and extraction components of a new licence issued under this dealing must comply with any requirements that are specified in the relevant management plan for a licence granted under section 63 of the Act.
- (6) Dealings under section 71H are prohibited unless arrangements are in place which:
- (a) protect environmental water from being affected by such dealings, and
  - (b) protect basic landholder rights from being affected by such dealings, and
  - (c) protect the available water under other access licences from being affected by such dealings.
- (7) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

## **20 Interstate assignment of water allocations**

- (1) This clause applies to interstate assignment of water allocation dealings under section 71I of the Act.
- (2) Any dealings under section 71I must be consistent with the relevant inter-state agreement.
- (3) Dealings under section 71I are prohibited:
- (a) if the access licence is suspended under section 78 of the Act, or
  - (b) if the licence is of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, apart from local water utility access licences, or
  - (c) if a method of measurement of water extraction which is satisfactory to the Minister is not established for all nominated water supply works on the access licence, or
  - (d) if the access licence is of category runoff harvesting or supplementary water, or
  - (e) if the access licence is of category major utility, unless specific provision is made in access licence dealing rules in the relevant management plan to allow this.
- (4) This dealing is prohibited unless arrangements are in place which:

- (a) protect environmental water from being affected by the dealing, and
  - (b) protect basic landholder rights from being affected by the dealing, and
  - (c) protect the available water under other access licences from being affected by the dealing.
- (5) Interstate assignment of water allocations from a local water utility access licence is prohibited unless:
- (a) the Minister has approved a demand management plan for all NSW towns supplied under the local water utility access licence, and
  - (b) the Minister has approved a drought management plan for all NSW towns supplied under the local water utility access licence, and
  - (c) the Minister is satisfied the assignment will not put the water supply for NSW towns supplied by the local water utility at risk.
- (6) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.

## **21 Nomination of water supply works**

- (1) This clause applies to nomination of water supply works dealings under section 71J of the Act.
- (2) Dealings under section 71J are prohibited if the access licence is suspended under section 78 of the Act.
- (3) Dealings under section 71J are prohibited if the access licence is of a kind which is not subject to embargo in accordance with an order made under sections 80 or 81 of the Act, apart from local water utility access licences, with the following exceptions:
- (a) if new or additional works are to be nominated, where those works supply the same property as the current nominated works, or a contiguous property to the property supplied by the current nominated works which is occupied by the same landholder, or
  - (b) if a nominated work is withdrawn, that there remains at least one nominated work.
- (4) Dealings under section 71J are prohibited if the access licence is of category local water utility, with the following exceptions:
- (a) if new or additional works are to be nominated, that those works supply the same town water supply scheme as the current nominated works, or

- (b) if a nominated work is withdrawn, that there remains at least one nominated work.
- (5) Nomination of a water supply work is prohibited if the access licence does not have an extraction component allowing taking of water at the location of the nominated work.
- (6) With regard to runoff harvesting access licences:
  - (a) the nominated work must be a runoff harvesting dam of capacity consistent with the share component of the access licence, and
  - (b) withdrawal of nominated work may only be granted where arrangements are in place to ensure that the nominated work does not conserve any more water than is permitted pursuant to the exercise of basic landholder rights.
- (7) Withdrawal of nomination may not be prohibited by access licence dealing rules, except for as otherwise specified in this clause.
- (8) Subject to the other parts of this clause, access licence dealing rules may prohibit or regulate these dealings provided this is done consistent with the principles in Part 2 of this order.