

## Proposed changes to groundwater sharing plans

*While water resource plans (WRPs) are developed to meet requirements set out by Commonwealth legislation, the entire NSW portion of the Murray–Darling Basin is already covered by statutory water sharing plans made under NSW legislation.*

The NSW water sharing plans will remain the primary legal framework for managing water access and sharing. The process of developing WRPs involves replacing, remaking or amending existing water sharing plans to meet the accreditation requirements of Chapter 10 of the *Basin Plan 2012*. This process is also an opportunity to make water sharing plans consistent and impartial and to eliminate unintended implementation issues.

This fact sheet outlines the main changes being proposed to groundwater water sharing plans for the alluvial groundwater resources of the Gwydir Valley.

Many of the proposed changes are administrative and have no material impact on environmental water or groundwater made available for take. Other proposed changes are more substantive. More broadly, we have modernised and simplified the language and construction of the proposed new water sharing plan to make it easier to read and implement, while maintaining its legal accuracy.

## Scope of the water sharing plan

The *Water Sharing Plan for the Lower Gwydir Groundwater Source 2003* and the *Water Sharing Plan for the Gwydir Unregulated and Alluvial Water Sources 2012* are being replaced. We propose incorporating both the Lower Gwydir alluvial and Upper Gwydir alluvial groundwater sources from these plans into a single replacement water sharing plan. The new water sharing plan is to be called the *Water Sharing Plan for the Gwydir Alluvial Groundwater Sources 2019*.

This process will align the water sharing plan area with the Gwydir Alluvium Water Resource Plan Area, as defined in the *Basin Plan 2012*, and deals with all substantial alluvial water resources in the Gwydir catchment in a single plan.

## Objectives, strategies and performance indicators

The objectives, strategies and performance indicators have been revised. The proposed versions deal with similar matters to the previous ones, but have been changed to:

- make a stronger logical connection between objectives, strategies and performance indicators
- more clearly distinguish between the environmental, economic, social and Aboriginal cultural objectives of the water sharing plan.

## Definition of planned environmental water

We propose to change the way planned environmental water is specified in the water sharing plan. We will define it more accurately, including removing the reference to recharge. This proposal will not change the actual volume of planned environmental water or the timing of its availability to the environment.

More information on this proposal is provided in the fact sheet *Specifying planned environmental water in groundwater plans*, available from [industry.nsw.gov.au/water-resource-plan-consultation](http://industry.nsw.gov.au/water-resource-plan-consultation).

### Updated requirements for water

The replacement water sharing plan updates the estimated water requirements of people entitled to exercise basic landholder rights. It also updates the total volumes or unit shares specified in the share components of all access licences to reflect the most current information.

### Aligning long-term average annual extraction limits to Basin Plan sustainable diversion limits

The *Basin Plan 2012* and more contemporary water sharing plans in NSW include a numerical estimate of basic landholder rights requirements within the long-term limits to the availability of groundwater. This approach will be adopted for the Lower Gwydir in the new plan. The estimate of requirements for basic landholder rights has not changed.

The long-term average annual extraction limits for both the Lower Gwydir and Upper Gwydir groundwater sources align with the sustainable diversion limits established in the *Basin Plan 2012*.

In addition, references to supplementary water access licences in the Lower Gwydir that were phased out in 2015–16 will be removed. These proposed changes will have no impact on existing water access licence holders' shares or access to the resource.

### Compliance with long-term average annual extraction limits

To assess compliance with the long-term average annual extraction limits in each groundwater source, the average annual extraction over the past five years will be compared with the long-term average annual extraction limits. This is a change for the Lower Gwydir groundwater source, which previously had a three-year assessment period. This provides consistency across the three groundwater sources, and will provide sufficient flexibility to accommodate climatic variability while still protecting environmental values.

No change is proposed to the trigger for requiring action to ensure compliance with the long-term average annual extraction limit. This will remain at 5% for the Lower Gwydir alluvial groundwater source and 10% for the Upper Gwydir alluvial groundwater source.

If compliance action is required, the Minister for Regional Water can limit the available water determinations to lower priority access licences (aquifer access licences or high security aquifer access licences) as the case may be to achieve compliance in subsequent years.

An additional or alternative compliance mechanism is proposed. The minister may also limit the water allocation that can be taken, assigned under section 71T of the *Water Management Act 2000*, or otherwise debited or withdrawn, from a water allocation account to achieve compliance. Using this method reduces the need for more severe limits on available water determinations.

### Compliance with Basin Plan sustainable diversion limits

In addition to existing rules in the water sharing plan that specify the process for assessing compliance with the long-term average annual extraction limits, we propose including rules that mirror those in the *Basin Plan 2012* for assessing compliance with the Basin Plan sustainable diversion limits.

The *Basin Plan 2012* requires an annual assessment of extractions against 'annual permitted take'. The annual permitted take for the Upper Gwydir alluvial groundwater source will be equivalent to the sustainable diversion limit (or long-term average annual extraction limit). The annual permitted take for the Lower Gwydir groundwater source is the sustainable diversion limit (again equal to the long-term average annual extraction limit) varied each water year, based on the deviation of actual

annual rainfall in that water year measured at Moree from average annual rainfall measured at Moree. The variation can't exceed 20% of the sustainable diversion limit. This climate-adjusted annual permitted take recognises that in dry years extraction will generally exceed the sustainable diversion limit, and in wet years it will be less.

Annual permitted take is calculated retrospectively at the end of a water year, after assessing the volume of water that was allowed to be extracted in that water year given the rainfall in the case of the Lower Gwydir. It can be seen as an annual expression of a longer-term sustainable diversion limit, and does not directly determine how much water a licence holder can take in any water year. It forms the benchmark against which total annual consumptive use from a sustainable diversion limit resource unit will be compared for the sole purpose of assessing compliance with the longer-term sustainable diversion limit over time.

Under the *Basin Plan 2012*, the amount taken is deemed non-compliant with a sustainable diversion limit when the cumulative balance is in debit by an amount that is equal to 20% (or more) of the sustainable diversion limit for a groundwater source.

If compliance action is required, the Minister for Regional Water can limit available water determinations and/or the water that can be taken from accounts in subsequent years, consistent with the approach outlined above for compliance with long-term average annual extraction limits.

The following fact sheets available from [industry.nsw.gov.au/water-resource-plan-consultation](http://industry.nsw.gov.au/water-resource-plan-consultation) provide more information:

- *Compliance with the sustainable diversion limit for groundwater*
- *Available water determinations in groundwater sources*
- *Gwydir alluvium—relationships between the water resource plan and water sharing plans.*

## Standardising distance rules

We propose standardising distance rules relating to the construction and location of new or amended water supply works when replacing, remaking or amending water sharing plans. The proposed changes to distance rules are summarised below.

### Rules to minimise interference between users

The following minimum distance rules are proposed for the construction of new water supply works for the Upper Gwydir alluvial groundwater source:

- 200 metres from a supply work which provides water for basic landholder rights
- 200 metres from all other water supply works
- 100 metres from a boundary with a neighbour unless written consent is provided from the neighbour
- 500 metres from a water utility water supply work unless written consent is provided by the utility licence holder
- 100 metres from a government monitoring bore unless there is ministerial consent.

The following minimum distance rules are proposed for the construction of new water supply works for the Lower Gwydir alluvial groundwater sources:

- 200 metres from a supply work which provides water for basic landholder rights
- 400 metres from all other water supply works
- 200 metres from a boundary with a neighbour unless written consent is provided from the neighbour
- 500 metres from a water utility water supply work unless written consent is provided by the utility licence holder
- 400 metres from a government monitoring bore unless there is ministerial consent.

### Rules for water supply works located near contamination sources

The following minimum distance rules are proposed for both groundwater sources for the construction of new water supply works:

- within 500 metres of a contamination source listed in Schedule 1 of the water sharing plan
- 250 metres from the edge of a contamination plume
- between 250–500 metres from the edge of a contamination plume where drawdown will occur within 250 metres.

Also, we propose an additional rule for both groundwater sources to reduce risks to public health and safety from contaminated groundwater resulting from on-site sewage disposal systems.

- A water supply work approval located within 250 metres of an on-site sewage disposal system may only be granted or amended if the water supply work is:
  - constructed with cement grout between the bore casing and the borehole annulus to a minimum depth of 20 metres from the ground surface
  - located at sufficient distance from the on-site sewage disposal system to prevent septic contamination of the aquifer.

### Rules for water supply works located near groundwater-dependent ecosystems

The following minimum distance rules are proposed for both groundwater sources for the construction of new water supply works:

- 40 metres from the top of the high bank of the river in the Upper Gwydir alluvial groundwater source
- 100 metres from the top of the high bank of a river for works for basic landholder rights and 200 metres from the top of the high bank of a river for works relating to access licences in the Lower Gwydir alluvial groundwater source.
- 100 metres from any high priority groundwater dependant ecosystem from a water supply work that provides water for basic landholder rights
- 200 metres from any high priority groundwater-dependant ecosystem for all other water supply works.

### Removal of ‘local impact management’ and take ‘within restricted distances’ rules

Rules for granting new water supply works or amending existing water supply works will remain (as amended) in the water sharing plan, as outlined above. However, we propose removing the provisions relating to restricting take from existing water supply works, specifically the rules for managing local impacts for the Lower Gwydir groundwater source and the rules for the use of water supply works located within restricted distances for the Upper Gwydir alluvial groundwater source.

Contemporary legal advice is that the powers to restrict groundwater take from existing water supply works lie firmly within the *Water Management Act 2000*, and that their duplication and re-interpretation in water sharing plans may cause inconsistencies between the act and the plan.

The powers in the act enable the Minister for Regional Water, at any time, to specify a limit on the volume or rate of extraction from a water supply work to minimise impacts on other users, on groundwater-dependent ecosystems, or groundwater-dependent culturally significant areas; or for public health and safety reasons.

The minister may also put conditions on or refuse an application for a dealing to effect these outcomes. In particular:

- Section 107 of the *Water Management Act 2000* provides for the amendment of approvals. In addition, the minister may impose or vary conditions on a water supply work approval at any time as the minister thinks fit, under section 102 of the act. These conditions may limit the volume or rate of extraction from a water supply work approval if the minister considers it appropriate.
- The minister may also limit the volumes or rates of extraction from existing water supply work approvals:
  - (a) for all water supply works within a specified area, by an order made under section 324(2) of the act, or
  - (b) for existing water supply works used solely for basic landholder rights, by an order made under section 331 of the act.
- The minister may refuse an application for a dealing, or apply conditions on access licences or water supply work approvals at the time of a dealing to give effect to the Access Licence Dealing Principles Order 2004. The order specifies principles relating to adverse effects on environmental water and water-dependent ecosystems; water quality; Indigenous, cultural, heritage or spiritual matters; and other existing authorised water take.

For transparency, the draft plan includes notes explaining these powers.

More information on the process for assessing groundwater applications for a new or amended water supply work approval or dealing is in the fact sheet *Assessing groundwater applications*, available from [industry.nsw.gov.au/water-resource-plan-consultation](http://industry.nsw.gov.au/water-resource-plan-consultation)

## Additions to groundwater-dependent ecosystems schedules

A recently completed program by the NSW Department of Industry has identified additional, high-priority, groundwater-dependent ecosystems (GDEs). We propose to add the mapped extent of these GDEs as a water sharing plan schedule.

More detailed information on this proposal is provided in the fact sheet *Gwydir alluvium—Groundwater-dependent ecosystems*, available from [industry.nsw.gov.au/draft-gwydir-alluvium-wrp](http://industry.nsw.gov.au/draft-gwydir-alluvium-wrp)