Submission Questionnaire



Draft Border Rivers Regional Water Strategy - Submission Form

Regional Water Strategies Public Exhibition Submission Questionnaire

The NSW Government is taking action to improve the security, reliability, quality and resilience of the state's water resources. The Border Rivers Regional Water Strategy will deliver healthy and resilient water resources for a liveable and prosperous regional NSW.

This draft strategy is being developed by the Department of Planning, Industry and Environment and provides an opportunity to re-shape what we are doing in regional water management and chart a path forward.

We have been working with local water utilities and councils to ensure local knowledge informs the draft Border Rivers Regional Water Strategy. We will work with First Nations people and the wider community to incorporate traditional knowledge and local aspirations in the final regional water strategy.

Your Voice is important

We have prepared this draft strategy to continue our discussions with you. We would like to hear your views on the draft strategy as a whole including the process we used to develop the strategy and the evidence that supports it. We are also seeking your feedback on the options presented in the draft strategy and whether you have any further information that could help us to assess the benefits and disadvantages of any of the options.

Please provide your feedback in the submission form below and email your completed submission to regionalwater.strategies@dpie.nsw.gov.au or post to Regional Water Strategies, Department of Planning, Industry and Environment, Locked Bag 5022, Parramatta NSW 2124 by **30 November**, **2020**.

The questionnaire includes general questions about the regional water strategy including objectives, vision, modelling, opportunities and challenges. It also includes questions regarding the draft options along with personal information questions.

The questionnaire will take approximately 15 minutes to complete and your response can remain anonymous if you wish (see question 1).

Questions marked with an asterisk (*) require an answer.

If you have any questions about the questionnaire, please email: regionalwater.strategies@dpie.nsw.gov.au

Making your submission public

We collect information about you, which may include personal information, to assess submissions in response to the department's dealings and activities, and perform other functions required to complete the project. This information must be supplied. If you choose not to provide the requested information we may not be able to assess your submission.

To promote transparency and open government, we intend to make all submissions publicly available on our website, or in reports. Your name or your organisation's name may appear in these reports with your feedback attributed.

If you would like your submission and/or feedback to be kept confidential, please let us know when making your submission. You will be asked for your confidentiality preference at question 1.

If you request your submission be kept confidential, it will not be published on our website or included in any relevant reports, however it will still be subject to the *Government Information Public Access Act 2009*.

Your submission will be stored securely consistent with the department's Records Management Policy and you have the right to request access to, and correction of, your personal information held by the department.

Further details can be found in our privacy statement available on our website. https://www.industry.nsw.gov.au/privacy

Information from this form is collected for the purpose of receiving your feedback on the draft regional water strategy. The supply of this information is voluntary. Your details will be stored in NSW Department of Planning, Industry and Environment records. Information will be stored and managed in accordance with provisions under the Privacy and Personal Information Protection Act 1998. It will not be used for any other purpose and will not be given to any other third party except where required by law. To access or correct your personal information, contact us using the information at dpie.nsw.gov.au/contact

1. Information on confidentiality and privacy *

I give my permission for my submission to be publicly available on the NSW Department of Planning, Industry and Environment website.

Yes No

I would like my personal details to be kept confidential.

Yes No

2. Your details Email address * Name * Address * Contact phone number * Do you identify as an Aboriginal person? Yes No Are you an individual or representing an organisation? Individual Organisation Organisation or business details 3. Who do you represent? **Government: New South Wales** Commonwealth State other Local **Local Water Utility** Peak representative organisation: Environment Industry Business group or business chamber Community organisation Other

4. Draft regional water strategy objectives and vision

The draft Border Rivers Regional Water Strategy is one of 13 strategies (12 regional water strategies and a Greater Sydney Water Strategy) being developed by the Department. All regional water strategies are being developed in line with the following objectives:

- Deliver and manage water for local communities
 - Improve water security, water quality and flood management for regional towns and communities
- Enable economic prosperity
 - Improve water access reliability for regional industries
- Recognise and protect Aboriginal water rights, interests and access to water
 - Including Aboriginal heritage assets
- Protect and enhance the environment
 - Improve the health and integrity of environmental systems and assets, including by improving water quality
- Affordability
 - Identify least cost policy and infrastructure options

All draft regional water strategy options need to address at least one of the above objectives. Our vision for this strategy is to have healthy and resilient water resources (that withstand extreme events and adapt to these changes) for a liveable and prosperous Border Rivers region.

To achieve this, we need to position the region so there is the right amount of water of the right quality, delivered in the right way to meet the future needs of Aboriginal people, towns, communities, industries and the environment.

B) Please provide details if there is additional information you think we should conside
6. Stochastic modelling method
We used a stochastic modelling method (based on the statistical characteristics of the new climate data) in order to get a dataset covering up to 10,000 years. This enables us to quan the natural variability and extremes in the region with greater certainty.
A) Do you have any comments about the modelling method used to develop this strategy?
B) Is there any additional information that you believe could help us assess the beneat and disadvantages of draft options?
7 Oppositualities and shallonges for water response
7. Opportunities and challenges for water management in the Border Rivers region
During the Border Rivers Regional Water Strategy drafting stage, the following opportunities

risks and challenges were identified.

- Climate conditions combined with the way we currently manage and share water are placing the region's water resources under stress
 - Region has a diverse climate that cycles between wet and dry
 - Long periods of low inflows interspersed by large inflows
 - Recent drought was the worst on record
 - Pindari and Glenlyon dams experienced the lowest 24 and 36-month inflows on record over 2017-19

- Pressure on town water supplies across the region
 - Over the last 12 months town water supplies have needed to support broader water needs
 - Some towns have faced critical surface water storage and turned to groundwater
 - Efforts by community ad government to reduce water demand and conserve supplies have prepared many towns for future droughts
 - Proposal for Mole river dam may help to improve town water security
- Water security and reliability is essential for industry and economic development
 - On farm water storages to support agricultural needs impacts the net water supplied to the system for productive use
 - Increased water security can increase horticultural potential and stimulate economic development
 - -Diversification of industries may provide opportunities to reduce water requirements
- Water is essential for Aboriginal people's health, wellbeing and connection to country
 - The health of the waterways impacts wellbeing
 - Current cultural water entitlements do not meet the needs of Aboriginal people
 - Opportunities to include Aboriginal people's involvement in water management
- Challenges in meeting environmental needs
 - Environmental flows support fish passages and connectivity to the Barwon-Darling system
 - Additional dams, weirs and pipelines along with operational changes alter natural flows
 - Floodwork structures are causing adverse ecological impacts
 - Climate variability will adversely impact riverine, aquatic and floodplain ecosystems
- Better management of groundwater
 - Groundwater use varies across the region with some areas over committed and highly used
 - Border Rivers alluvium is a shared resource with Queensland and legislative difference generate challenges.
 - Groundwater sustainability is important during dry periods
- Water quality and delivery issues can impact the availability of supplies
 - Blue-green algae blooms particularly in the warmer months pose health risks
 - Delivering water to the end of the system is a challenge in severe droughts
 - Dry conditions along with bushfires have decreased water quality
- Opportunities to improve connectivity to the Barwon-River system
 - The Border Rivers region contributes 19% to the Barwon-Darling flows

A) Do you have an	ny comments on the opportunities, risks and challenges identified?
R) Are there any a	dditional opportunities, risks and challenges that we should consider
•	could address these?

8. Draft Border Rivers Regional Water Strategy options

We have developed a long list of options that could be included in the final Border Rivers Regional Water Strategy. The options consider the opportunities and challenges facing the region and meet at least one regional water strategy objective.

The 51 options are grouped in different categories, being:

- · Maintaining and diversifying water supplies
- · Protecting and enhancing natural ecosystems
- Supporting water use efficiency and conservation
- · Strengthening community preparedness for climate extremes
- · Improving recognition of Aboriginal people's water rights, interests and access to water

Only feasible options will be progressed to the final strategy stage – following a rigorous assessment process. We are seeking your feedback to inform the options assessment process.

Maintaining and diversifying water supplies

1.	Final business case for building a new
	dam on the Mole River

- Raising Pindari's Dam Full Supply Level (FSL)
- 3. Raising Mungindi Weir
- Piping water to stock and domestic water users in the unregulated section of the Boomi River
- 5. Improve cross-border management of flows at major breakout points
- 6. Reliable access to groundwater by towns
- 7. Intra-and inter-regional connections project investigation
- 8. Inland diversion from the east
- 9. Managing groundwater salinity

Protecting and enhancing natural ecosystems

- 10. NSW Fish Passage Strategy
- 11. Diversion screens to prevent fish extraction at pump offtakes
- 12. Cold water pollution mitigation measures
- 13. Investigation of water quality mitigation measures
- 14. Implement state-wide groundwater quality monitoring program and management program
- 15. Modification and/or removal of existing priority floodwater structure causing adverse impacts
- 16. Providing incentives to landholders to conserve and rehabilitate riparian, wetland and floodplain vegetation
- 17. Riparian habitat restoration and reestablishing threatened species

- 18. Investigate land use change impacts on water resources
- 19. Revise water sharing plan provisions for planned environmental water
- 20. Improve benefits of planned environmental water
- 21. Active management to protect water for the environment in unregulated water sources
- 22. Improve understanding of water use in unregulated water sources
- 23. Improve connectivity with downstream system
- 24. Protecting ecosystems that depend on groundwater resources

25. Review of water markets in the Border Rivers region	27. Water efficiency projects (towns and industries)
26. Reuse, recycle and stormwater projects	28. Review urban water restrictions policy
Strengthening community preparedness for	· climate extremes
29. New drought operation rules	37. Improved understanding of groundwater
30. Review of regulated river water accounting and allocation process	processes 38. Extending the Cap and Pipe the Bores
31. Investigation of licence conversions	Program – Border Rivers catchment
32. Improved data collection	39. Maintaining the Great Artesian Basin for the future
33. Training and information sharing program	40. Support reforms to simplify and strengther
34. Investigation to maintain amenity for	cross-border groundwater management
regional towns during drought	41. Improve knowledge of fractured rock
35. Sustainable access to groundwater	groundwater sources in the upper
36. Improved clarity in managing groundwater resources sustainably	catchment
Improving recognition of Aboriginal people's 42. Culturally appropriate water knowledge program	s water rights, interests and access to water 47. Water portfolio project for Aboriginal communities
43. Water-dependent cultural practices and site identification project	48. Aboriginal cultural water access licences review
44. Secure flows for water-dependent cultural sites	49. Co-management investigation of Travelling Stock Reserves
45. Shared benefit project (environment and cultural outcomes)	50.Regional Cultural Water Officer employment program
46. Establish a regional Aboriginal Water Advisory Committee	51. River Ranger Program
A) Which five (5) options do you think are mean Please list the option numbers in order of important Option Number	rtance with the first option being most important

C) Which five (5) options do you think are <u>least</u> important (if any)?
Please list the option numbers in order of least importance with the first option being least
important Option Number
Option Number
Option Number
Option Number
Option Number
D) Please comment on why you think these options are least important?
E) Do you have any comments on the draft options?
9. Option combinations
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Other comments Do you have any other comments about the Border Rivers Regional Water Strategy? How did you hear about the public exhibition of this strategy? 11. We are interested to know how you heard about the opportunity to make a submission. Please indicate the communication methods below: Newspaper Radio Department of Planning, Industry and Environment website Direct email Social media Have your say NSW Government website Communication from peak body Other **12**. Additional Information and submission process If you would like to provide any supporting documents to help us understand your view, please either, email these from the same email you provided in this form, or attach supporting documents to this form if you are returning your submission by mail. All submissions on the draft Border Rivers Regional Water Strategy will be reviewed following the public exhibition period. Further targeted engagement will be undertaken along with the final phase of stakeholder engagement later in the year to review the final documents. Please email your completed submission and supporting documents to മ്പ regionalwater.strategies@dpie.nsw.gov.au or post to Regional Water Strategies, Department of Planning, Industry and Environment, Locked Bag 5022, Parramatta NSW 2124 by 30 November, 2020. Further details on all regional water strategies can be found on our website

Thank you for your submission.

https://www.dpie.nsw.gov.au/regional-water-strategies

Extracted answers from fillable form above:

Question 6A.

Models only represent a part of the story and should not be relied upon blindly. The Lorenz effect means that minor tweaks and adjustments can have pronounced impact on other parts of the models. These assessments are also worthless when the BDL is increased in order to justify a proportional increase in the SDL. Re-badging diversions as floodplain harvesting is an imprecise way to use the models. It is simply manipulating them to obtain the desired outcome.

Question 9A.

The entire system is stressed due to lack of vision. Why save water by piping when it also benefits the environment to flow down creeks. What are the water savings actually for? The Government owns a lot of water which it can deploy onto sites. The rest which it wishes to send to South Australia, does not even get down the Darling, causing a large strain on the Murray River. Models dont assist to fix these issues. History will not look kindly upon those who blindly follow a model. And not all ecosystems can bounce back.

Question 10.

Has this Proposal considered the recommendations from the ICAC report?

- 1. The proposed "honest policy" approach by DPIE to allow licence holders to nominate when floodplain harvesting events is unsustainable and open to manipulation;
- 2. The proposed policy to allow irrigators to release volumes of water from storages when they inadvertently take too much water, is also open to manipulation and abuse. A stricter requirement and assumption of liability must be put in place;

- 3. The ability to transfer licenses within valleys goes against the floodplain harvesting principles currently in place and also the healthy floodplains research of topography and hydrological flows. Furthermore, (and yet again), transfers of licenses relies upon an "honesty policy" to properly decommission structures and correct any changes to topography.
- 4. Allowing unlimited rainfall runoff undermines the entire process. Whilst irrigators are required to capture tailwater, this is only the first portion of runoff (with the amount depending upon the valley). Anything above this volume is water in such high volumes that it dilutes all of the chemicals and nutrients collected as it passes over the land; and finally

5. DPIE say that:

"More data collection and model enhancements are required to explicitly represent return flows in river system models. This is necessary to further improve management of floodplain harvesting in the northern basin. We have made a commitment under the Floodplain Harvesting Action Plan to invest in this work from July 2021."

How can DPIE issue licenses when the Proposal concedes that more data collection and model enhancements are required to understand the river system models?