Intergovernmental Agreement on Implementing Water Reform in the Murray Darling Basin

June 2013
1 Preamble
1.1 This Agreement is an undertaking by the Commonwealth and the participating Murray-Darling Basin (Basin) State Governments1, to build upon existing achievements by implementing in good faith the next tranche of water reforms to further improve the health of the Basin and secure a future for its communities.

1.2 The objective of this Agreement is to ensure that the Commonwealth led Basin water reforms, including the Basin Plan, are implemented in a cost effective manner to support the national interest of improving river and wetland health, putting water use on a sustainable footing, enhancing irrigation productivity, providing water for critical human needs, and providing farmers and communities with more confidence to plan for a future with less water.

2 Roles and responsibilities
2.1 The Parties agree to use their best endeavours to implement the Basin Plan and associated measures outlined in this Agreement and its schedules.

2.2 The Commonwealth has committed to ‘Bridge the Gap’ between Baseline Diversion Limits (BDLs) and Sustainable Diversion Limits (SDLs) in the Basin Plan. As a result, it is intended that no water entitlements will be eroded or compulsorily acquired as a result of the Basin Plan.

2.3 The Parties agree to cooperate in the implementation of the SDL Adjustment Mechanism in the Basin Plan as set out in the attached Protocol at Schedule 1.

2.4 The Parties encourage the Commonwealth Environmental Water Holder (CEWH) to actively participate in the development of rules changes projects, where environmental outcomes are maintained or improved, to support the effectiveness of any agreed river operation rule or practice changes, including those that may underpin supply measures under the SDL Adjustment Mechanism. The Parties further encourage the CEWH to enter into long-term agreements with jurisdictions to support the above, noting the need for any agreements to be consistent with the CEWH’s statutory obligations and the Environmental Watering Plan.

2.5 The Parties agree to cooperate with the Murray-Darling Basin Authority (MDBA) in its preparation of the ‘Constraints Management Strategy’ to be completed within 12 months of the commencement of the Basin Plan.

1 The Basin State governments are New South Wales, Victoria, Queensland, South Australia and the Australian Capital Territory.

3 ‘Bridging the Gap’
3.1 The Commonwealth Water Recovery Strategy will outline implementation of the ‘Bridging the Gap’ commitment consistent with this Agreement. After taking into account the contribution from infrastructure projects and supply measures, the
role of water entitlement purchase under the Strategy will be limited to the residual amount of water recovery required to bridge the gap by 2019.

3.2 The Commonwealth’s Water Recovery Strategy will be reviewed in 2016 following the operation of the SDL adjustment mechanism, and as required thereafter. This allows the full potential for supply measure SDL offsets to be explored during the period up to 31 December 2015 to reduce the need for environmental water recovery. Consistent with 6.04, 6.05 and 7.18 of the Basin Plan, the Parties note that if the volume of SDL offsets is less than 650 GL, any shortfall in a jurisdiction’s apportioned share of the 2750 GL water recovery target (after taking full account of their committed water recovery projects and their share of SDL offsets) can be purchased in that jurisdiction by the Commonwealth between 2016 and 2019. For such purchases, in each jurisdiction the Commonwealth will seek to acquire a reasonably balanced portfolio of entitlements, noting the Commonwealth’s objectives of meeting the environment’s needs in a range of water availability situations.

3.3 The Commonwealth agrees to periodically consult with Basin States through the BOC on progress in Bridging the Gap, including as part of the 2016 review of the Commonwealth Water Recovery Strategy, on any refinements to both this Agreement and the Commonwealth Water Recovery Strategy in response to measures approved through the SDL Adjustment Mechanism (supply and efficiency measures) and subsequent progress in their implementation.

3.4 To enable the Commonwealth Government to deliver on its ‘Bridging the Gap’ commitment by 1 July 2019, the Parties:

(a) reaffirm their continuing commitment to remove restrictions to trade in water in accordance with Basin Plan requirements and clause 4 (16) of Schedule 3 to the Water Act 2007 and commit to not introduce any measures that inhibit the Commonwealth’s ability to ‘Bridge the Gap’;

(b) agree to facilitate in a timely and collaborative fashion the process for developing and implementing supply measures, including such measures initiated by States that are intended to Bridge the Gap;

(c) agree to process applications for water entitlement and allocation trades consistent with the service standards relating to trade processing times for State approval agencies;

(d) will, in regulated surface water systems, specify entitlements consistent with clauses 28 to 32 of the National Water Initiative within three years of this Agreement, unless otherwise agreed;

(e) will, in unregulated and groundwater systems where water recovery is required to ‘Bridge the Gap’, examine the feasibility, costs and benefits of specifying entitlements consistent with clauses 28 to 32 of the National Water Initiative within three years of this Agreement or at the next scheduled statutory review of State Water Resource Plans, whichever is earlier, and implement as soon as practicable thereafter if shown to be of overall net benefit; and
(f) agree to enable groundwater and overland flow recovery through market-based approaches whether or not these entitlements or licences are separate from land.

3.5 The Parties agree that planned and held environmental water can be used and managed together to achieve the best environmental outcomes. Except where otherwise agreed between the Commonwealth and relevant State(s) the Parties agree that they will not substitute held environmental water where planned environmental water would previously have been used to achieve environmental outcomes.

4 Surface Water SDL Adjustment Mechanism and constraints funding arrangements

4.1 The Commonwealth agrees to provide financial support for implementing measures under the SDL Adjustment Mechanism as set out in this Agreement.

4.2 The Commonwealth undertakes that supply measures that result in reducing the Basin wide SDL reduction amount by up to 650 GL, as agreed by the Murray-Darling Basin Ministerial Council and determined through the SDL adjustment mechanism, will be funded using funds originally allocated to water purchase, with total funding limited in aggregate to the cost of recovering the same amount of water through water purchase. For planning purposes, the total fund available for potential supply measures (including project development costs) will be based on a reference value of $1900 per megalitre in long term average annual yield terms. The fund available to fund all approved supply measures will be based on a single final reference value set at the conclusion of 2014-15, in accordance with Schedule 2 of this Agreement.

4.3 Of the funding available under clause 4.2, the Parties note that the Commonwealth will provide funding over the years 2013-14 to 2015-16 to assist in the development of business cases for proposed supply measure projects. As set out in Clause 6 of Schedule 1, a total of $34.5 million will be shared between New South Wales, Victoria and South Australia.

4.4 The Parties note that clause 4.2 does not preclude state-funded projects from being brought forward for assessment under the attached protocol at Schedule 1.

4.5 The Parties agree to take action to address physical, institutional and operational constraints, where approved through the inter-jurisdictional governance procedure for the SDL adjustment mechanism as set out in the attached protocol at Schedule 1, or where otherwise feasible and cost-effective to do so, to facilitate the delivery of environmental water.

4.6 The Commonwealth has committed a further $1.58 billion to recover 450GL of environmental water with neutral or beneficial socio-economic impacts, and $200 million to address physical, institutional and operational constraints, over ten years from 2014/15. The Commonwealth confirms that this financial commitment is in addition to the commitment to 'Bridge the Gap' to 2750GL of held environmental water (or supply measures) by 2019.
4.7 The Commonwealth will consult closely with Basin States on the design of efficiency measure programs (including targeted volumes of water recovery and their regional distribution), and on arrangements for their subsequent delivery and implementation, with particular respect to arrangements to secure farm-level participation and the achievement of socio-economically neutral or beneficial outcomes.

5 Managing water for the Environment

5.1 The Parties agree that their environmental water holders and managers will work collaboratively, in close consultation and where appropriate by agreement, in exercising their responsibilities in accordance with the Basin Plan Environmental Watering Plan, and have regard to the Basin annual environmental watering priorities, as prepared by the MDBA.

5.2 Except as otherwise agreed between the Commonwealth and the relevant State(s) to facilitate improved environmental watering, Basin States agree that the characteristics of licensed entitlements held for environmental use will not be enhanced or diminished relative to like entitlements held and used for other purposes. This includes that they will be subject to no less favourable conditions, including with respect to fees and charges, access to allocations, capacity to use, trade, and carryover, than like entitlements held for other purposes. The Parties note that any agreement to change the characteristics of licensed entitlements held for environmental use should not impact on another state’s water availability, rights or entitlements under the Murray-Darling Basin Agreement unless agreed to by the affected state.

5.3 Therefore before entering into any agreement under clause 5.2 to change the characteristics of licensed entitlements where there is a reasonable likelihood of that agreement adversely impacting on water availability, rights or entitlements of another jurisdiction under the Murray-Darling Basin Agreement, the Parties to that agreement will inform the Basin Officials Committee of the proposal.

5.4 The Parties will work to facilitate the use of environmental water by protecting environmental water in-stream and on land, and in consideration of any associated third party impacts, where feasible and agreed by:

(a) implementing measures, to enable the delivery of held environmental water in-stream through arrangements such as water shepherding to facilitate environmental flows;

(b) enabling further use of environmental water at multiple locations along the river, such as through return flow provisions;

(c) enabling river operators to deliver specified flow rates at particular locations to meet environmental water requirements within capacity constraints and as efficiently and effectively as possible;

(d) working together to refine methods to accurately monitor, measure and account for environmental water use and return flows; and
(e) implementing measures to enable environmental water to be used to supplement unregulated flows, while addressing third party impacts.

Note: Nothing precludes such eligible measures from being considered as supply measures under the SDL adjustment mechanism.

5.5 The Parties agree to establish mechanisms to coordinate planning, delivery and monitoring of environmental water.

6 Community assistance

6.1 The Parties note that a phased transition period to full commencement of SDLs from 1 July 2019, the Commonwealth’s significant investment in irrigation modernisation, the operation of the SDL adjustment mechanism, and the Commonwealth’s commitment to Bridge the Gap is assisting communities to manage adjustment pressures associated with Murray-Darling Basin water reform.

6.2 The Commonwealth is supporting communities in the Murray-Darling Basin to strengthen and diversify their economic base and adjust to a more sustainable water future. The Commonwealth government provides a range of supportive measures to assist communities including the new $100 million Murray-Darling Basin Regional Economic Diversification Program. The Program will further support state projects for innovative, community driven, economic diversification projects that will stimulate employment and regional growth in partnership with state and local government. The Commonwealth will consult with Basin State governments on the details of the Program.

7 Implementation costs

7.1 The Commonwealth will provide financial support to the Basin States via the National Partnership Agreement on Implementing Water Reform in the Murray-Darling Basin (the NP). This is in recognition of the costs that Basin States will incur as a result of implementing the Basin Plan through activities including, but not limited to, preparing new Water Resource Plans consistent with the Basin Plan, new compliance and reporting requirements, and amending water trading rules to make them consistent with Basin Plan requirements.

Note: In accordance with the Intergovernmental Agreement on Federal Financial Relations (IGAFFR), payments to Basin States will be made based on performance against the NP milestones. The NP milestones will be based on the measures and objectives stated in the Basin Plan and this Agreement.

7.2 The Parties encourage the MDBA to enter into the agreements envisaged under Clause 1.12 of the Basin Plan, on the basis that the agreed implementation obligations are effective and efficient, streamlined and fit for purpose, and take into account the need to minimise implementation costs. As noted in section 1.12 (5) of the Basin Plan, entry into an agreement or a failure to enter into an agreement under this section does not affect the commencement or operation of the Basin Plan.

7.3 Basin States agree that financial support provided through the NP for State implementation payments under clause 7.1 replaces the No Additional Net
Costs provision of the Agreement on Murray-Darling Basin Reform (2008) and any resulting liabilities under the No Additional Net Costs provision.

8 Community engagement

8.1 The Parties acknowledge the importance of local engagement and the responsibility of all Parties and the MDBA to facilitate community engagement.

8.2 The Parties agree to use existing Basin State frameworks and community based networks, including indigenous community networks, and other mechanisms as required to draw on expertise in the management of environmental water.

8.3 The Parties agree to build on these existing arrangements in order to strengthen the involvement of local communities in the implementation of the Basin Plan and associated water reform. In determining the necessity and appropriateness of changes, the Parties will consider the relevant requirements of participation in Basin environmental watering planning processes, and mechanisms to support transparency and accountability.

9 Investment in continuing science and new knowledge generation

9.1 The Parties agree to work together in developing new science and knowledge, including in regard to social and economic impacts, to support implementation of the Basin Plan.

9.2 The Parties note that the MDBA will make provision for appropriate resourcing to support the Northern Basin Scientific Work Program and specified groundwater reviews (section 6.06 of the Basin Plan refers), which will inform any future reviews of the SDLs and the Environmental Water Recovery Strategy for the Murray-Darling Basin. The Commonwealth will use its best endeavours to ensure $3.8 million in funding is available for northern Basin scientific research.

9.3 The Commonwealth will fund environmental water research to enhance the knowledge and information basis for decisions around the management and use of environmental water holdings, and to inform the knowledge needs for future reviews of the Basin Plan and water recovery programs, including in the northern Basin.

9.4 The Parties and the MDBA agree to implement cost effective arrangements to enable the sharing of data, information and knowledge that will support both monitoring and evaluation. Consistent with the Council of Australian Governments (COAG) National Hydrologic Modelling Strategy, the Parties agree to continue their collaborative efforts to adopt and transition progressively to new interoperable hydrologic models of a sufficient quality and consistency to support water resource planning and river operations across the Murray-Darling Basin and to enable MDBA to accredit water resource plans².

² The Parties note MDBA’s intention to use Source IMS for this purpose, subject to its technical suitability for adoption.
10 Transition path to 2019

10.1 To facilitate a clear transition for Water Resource Plans from when the Basin Plan takes effect to when SDLs first take formal effect from 1 July 2019, the Parties agree:

(a) that the Basin States will use their best endeavours to extend the operation of current transitional and interim Water Resource Plans until 30 June 2019, or such earlier date(s) as agreed between the Commonwealth and the relevant State; and

(b) the Commonwealth will use its best endeavours to make a regulation under the Water Act to protect State Water Resource Plans to the extent of any inconsistency with the Basin Plan until a date to be agreed between the Commonwealth and the relevant State, recognising that Basin Plan trade rules will come into effect on 1 July 2014, or from the current expiry date for transitional and interim Water Resource Plans.

11 Risk assignment

11.1 The Parties note that under the risk assignment provisions in the Water Act and the Basin Plan, the Commonwealth is responsible only for risk obligations resulting from reductions or changes in reliability based on the difference between the BDL and the SDL, as enforced from 2019.

11.2 Subject to compliance with the ‘Bridging the Gap’ provisions of this Agreement, the obligation to ‘Bridge the Gap’, including through SDL compliance arrangements, will not at any point be passed from the Commonwealth to the States.

12 Effect and Operation of Agreement


Commencement

12.2 The provisions of this Agreement will commence for each jurisdiction as it becomes a signatory to the Agreement.

Amendment to Agreement

12.3 This Agreement may be varied only by the unanimous agreement of all Parties to the Agreement.

Dispute Resolution

12.4 The Parties agree that if a dispute about this Agreement arises between the Parties it must be resolved expeditiously in accordance with the following:
the dispute will be referred to relevant Basin Officials Committee representatives as soon as practical,

(b) should the dispute still remain unresolved it will be referred to the Chief Executive of the relevant Commonwealth and Basin State agencies,

(c) if the matter remains unresolved it may be referred to relevant Ministers for resolution as soon as practical,

(d) if the matter continues to remain unresolved, it may be referred to the COAG for resolution as soon as practical.

12.5 In the event of a dispute, each party agrees to continue to perform its responsibilities under this Agreement (the IGA) other than:

(a) the responsibility to make a payment of funds where that payment is the subject of a dispute under this clause; and

(b) the responsibility to meet the obligation that is the subject of the disputed payment of funds referred to in sub clause (a) and only to the extent commensurate with the payment in dispute.

Termination

12.6 If dispute resolution as outlined above is not successful, a Party to this Agreement may terminate their participation in the Agreement at any time by notifying all the other Parties in writing.

12.7 If a Party terminates its involvement in this Agreement, obligations to that Party under any Agreement made pursuant to this Agreement will cease to have effect.

12.8 Where termination would result in the withdrawal of Commonwealth funding under the NP or a related Project Agreement, the Parties must first engage in the dispute resolution process at clause 12.4 before funding is withdrawn.
The Parties have confirmed their commitment to this agreement as follows:

**Signed for and on behalf of the Commonwealth of Australia by**

The Honourable Julia Gillard MP  
Prime Minister of the Commonwealth of Australia  
[Day] [Month] [Year]

**Signed for and on behalf of the State of New South Wales by**

The Honourable Barry O'Farrell MP  
Premier of the State of New South Wales  
[Day] [Month] [Year]

**Signed for and on behalf of the State of Victoria by**

The Honourable Dr Denis Napthine MP  
Premier of the State of Victoria  
[Day] [Month] [Year]

**Signed for and on behalf of the State of Queensland by**

The Honourable Campbell Newman MP  
Premier of the State of Queensland  
[Day] [Month] [Year]

**Signed for and on behalf of the Australian Capital Territory by**

Katy Gallagher MLA  
Chief Minister of the Australian Capital Territory  
[Day] [Month] [Year]
INTRODUCTION

1. This protocol sets out how the Parties intend to cooperate in the implementation of the SDL Adjustment Mechanism for surface water contained in the Basin Plan so as to agree to a package of measures that comprises those that address system constraints, supply measures and efficiency measures (as defined in the Basin Plan).

2. This protocol reflects the default approach, which will apply unless otherwise agreed. The Murray-Darling Basin Ministerial Council may, at any time, amend this protocol by unanimous agreement.

3. In this Protocol:
   a) the term ‘SDL adjustment measure’ means a ‘supply measure’ or an ‘efficiency measure’;
   b) the terms ‘supply measure’ and ‘efficiency measure’ have the same meaning as in the Basin Plan; and
   c) the term ‘constraint measure’ means a measure which removes or addresses constraints as described in the Constraints Management Strategy made under the Basin Plan.

4. Commonwealth funding will be provided to implement approved constraint measures and SDL adjustment measures in accordance with section 4 of this Agreement.

5. The Parties recognise that in relation to Chapter 7 of the Basin Plan:
   a) It is intended that measures agreed to be progressed under the Constraints Management Strategy will maximise the environmental benefits attainable through SDL supply and efficiency measures, noting that SDL adjustment measures and constraint measures may entail significant interdependencies;
   b) Consideration and assessment of any proposed measure that would entail changes to river operational rules and/or practices, or amendment of the MDB Agreement, will require the support and assistance of other BOC-led processes as appropriate;
   c) The process of assessing and agreeing all SDL adjustment and constraint measures and their final consideration and approval by the MDB Ministerial...
Council will take place within the phases contained in this protocol and the timeframes established by the Basin Plan for the notification of proposed SDL adjustments. The Parties note that assessment processes may operate in parallel or as otherwise agreed to meet these timeframes; and

d) Nothing in this protocol limits a party from pursuing measures to address constraints independently of the arrangements described in this protocol.

6. The Parties note that funding\(^3\) under clause 4.3 of the IGA is allocated as per the following breakdown:

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>New South Wales</td>
<td>$17,407,308</td>
</tr>
<tr>
<td>Victoria</td>
<td>$14,307,266</td>
</tr>
<tr>
<td>South Australia</td>
<td>$2,785,426</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$34,500,000</strong></td>
</tr>
</tbody>
</table>

7. As a default, the total off-sets capacity available under the SDL Adjustment Mechanism (ie. up to 650 GL) will be apportioned in accordance with this funding ratio. At the finalisation of Phase 3 (16 March 2016) of this protocol, BOC will make a determination on the viability of all supply measure proposals. BOC will then provide advice to the MDB Ministerial Council on the total off-sets volume and whether to re-confirm or vary the apportionment of the final agreed off-set volume to each jurisdiction.

8. The Parties note that while this initial apportionment is for planning purposes, Clause 3.2 of the IGA will inform the steps to be taken in the event that a party does not achieve its off-set target.

9. The allocation of funding enables a share of the off-sets available under the SDL Adjustment Mechanism to be made available for northern New South Wales.

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\(^3\) The funding shares are based on an allocation of $32.5m to the southern Basin and the balance of $2.0m for the northern Basin. The funding ratio for the southern Basin component is based on the application of the percentage proportions of the southern Basin shared reduction amount outlined in Clause 6.05(3) of the Basin Plan, and amended to distribute the ACT’s share between NSW, Victoria and South Australia on an equal basis.
WORK PROGRAM OF SDL ADJUSTMENT MEASURES

10. The Basin Officials Committee (BOC) and the Murray-Darling Basin Authority (MDBA) will develop and keep up to date a joint work program which identifies all SDL adjustment measures, identifying for each measure:

   a) its stage of development, by reference to the assessment phases;
   b) expected timing of progression through other phases;
   c) potential for SDL effects, and the SDL resource units affected;
   d) the relevant Parties for the project, by reference to the make-up of the Assessment Sub-Committee for that project.

11. Implementation of the package of constraint measures that will be pursued, consistent with the Constraints Management Strategy, will be included in the work program. The work program will be updated and tabled for adoption at each meeting of the MDB Ministerial Council, and subsequently published on the MDBA website.

12. The Parties note that completion of the Constraints Management Strategy under the Basin Plan, together with further assistance by the MDBA as required, will inform the subsequent development and assessment of priority constraints proposals prior to implementation.

ASSESSMENTS OF CONSTRAINT MEASURES AND SDL ADJUSTMENT MEASURES

Establishment and operation of SDL Assessment Committee

13. The Basin Officials Committee (BOC) will establish an SDL Adjustment Assessment Committee (the Assessment Committee), comprising a representative(s) from each Basin jurisdiction, nominated by the jurisdiction’s representative on the BOC, with the primary role of assessing proposed constraint measures and supply measures in accordance with the Protocol described herein. The Committee will observe the same operating rules as the BOC. The MDBA will participate on the Committee as a non-voting member.

14. The Parties agree that for the purpose of assessing individual measures beyond initial assessment (Phase 1 as described below and at Table 1), only relevant jurisdictions need be involved, and that the Assessment Committee should establish Sub-committees for this purpose made up of ‘relevant jurisdictions’ deemed to be as follows:

   a) the Commonwealth and MDBA;
   b) the proponent jurisdiction;
c) any funding partner jurisdiction indicated by the proponent jurisdiction;

d) in the case of the southern connected system, New South Wales, Victoria, the Australian Capital Territory and South Australia;

e) in the case of the northern connected system shared SDL, New South Wales and Queensland; and

f) in all cases, any other jurisdiction which considers it may be adversely impacted and/or its water use rights may be affected by the measure or resultant SDL change, and notifies its interest to the Assessment Committee following Phase 1.

The Assessment Committee will determine the operating rules for Sub-committees it establishes.

15. The Assessment Committee may choose to refer the task of assessing certain categories of projects to existing inter-jurisdictional committees, (rather than establish new Sub-committees), where suitably skilled committees already exist.

16. Proponent jurisdictions are responsible for ensuring consultation with relevant stakeholders in the identification and development of proposals, including finalisation of other relevant elements of proposals as they progress through the assessment phases.

17. Assessments by the Assessment Committee will be taken in accordance with the following steps:

a) The SDL Assessment Committee will consider all proposals received, and agree on appropriate sub-committees to conduct detailed assessment.

b) The Committee or sub-committee will review the proposal in accordance with the Assessment Guidelines and will record its advice and recommendations, including on rationale, regarding advancement of the proposal/s to the next phase of assessment. The Assessment Committee may request further information from the proponent or further advice on particular matters by the MDBA or others, as deemed appropriate to completing an assessment of the proposal.

c) The Committee will then submit its recommendations on the proposal(s) that are to progress to the next phase of assessment for consideration by BOC.

Assessment Guidelines

18. To guide the development and efficient progression of constraint measures and supply measures and to ensure consistency of approach to the assessment of such measures by the Assessment Committee and any Sub-committees of the Assessment Committee, Assessment Guidelines consistent with the adjustment
mechanism in the Basin Plan for each phase will be approved by the BOC and applied by those committees. The Assessment Guidelines will provide guidance on a range of matters including, but not limited to:

a) initial, qualified assessment of the potential SDL adjustment associated with individual project proposals;

b) the risk assessment framework that will be applied to individual measures and packages of measures, including consideration of third party impacts; and

c) the method for assessing the rigour of costings.

19. The Assessment Committee will prepare Draft Guidelines for each phase of assessment for consideration by BOC.

Initiation of project proposals

20. Supply measures: Project proponents will provide the following information when presenting supply measures for assessment under this process:

a) Estimates of the potential for any SDL adjustment, including notional apportionment to SDL resource units, environmental benefits and project cost, including advice about the proposed funding source(s) for the project;

b) Details on the relationship of the project to other BOC-led processes and of any associated changes that may be required under the Murray-Darling Basin Agreement;

c) Details of any proposed long term agreements either in place with the Commonwealth Environmental Water Holder (CEWH) or required to be established to underpin rule changes, consistent with the CEWH statutory obligations and the Environmental Watering Plan;

d) An assessment of project risk, (including potential third party impacts, potential environmental impacts and potential interactions with other supply measures and constraints measures), and proposed approach to managing those risks;

e) A project consultation and communications plan and the outcomes of any public consultation conducted over the measure(s);

f) A summary of required planning and environmental approvals; and;

g) A project assessment plan, project implementation plan and associated timelines.
21. **Constraint measures:** Development and prioritisation of constraint measures will be undertaken having regard to the Constraints Management Strategy. BOC will require the following information to assist in setting priorities for constraint measures for assessment through this Protocol:

   a) An estimate of environmental cost and benefit and project cost, including advice about the proposed funding source for the project;

   b) A description of how the measure aligns with the Constraints Management Strategy;

   c) Details on the relationship of the project to other BOC-led processes, and of any associated changes that may be required under the Murray-Darling Basin Agreement;

   d) An assessment of project risk, (including potential third party and environmental impacts, and potential interactions with other measures), and proposed approach to managing those risks;

   e) A project consultation and communications plan and the outcomes of any public consultation conducted over the measure(s);

   f) A summary of required planning and environmental approvals; and;

   g) A project assessment plan, project implementation plan and associated timelines.

22. **Efficiency measures:** The Parties note that initiation of efficiency measure proposals will be subject to relevant program guidelines established by the funding jurisdiction. The Parties further note that efficiency measures may be considered at any time in accordance with Table 1.

**Phasing of Assessments**

23. The Parties agree that proposals comprising constraints measures or SDL adjustment measures will be subject to phased assessment as described below and detailed further at Table 1, (attached), with associated timelines to be sequenced to meet the requirements under the Basin Plan. The progress of proposals through the phases, and associated timing of their assessment, may vary depending upon the nature of the measure being assessed and by agreement of BOC. The Parties further agree that proposals may deliver outcomes across more than one type of measure.

24. The Parties agree a revised procedure (Figure 1) to enable alternative business case development and assessment timelines for a small number of complex and highly prospective supply and constraint measure projects. The revised procedure identifies a role for BOC to decide in exceptional cases whether a
project is progressed on an alternative timeline as a ‘Class B’ or ‘Class C’ project.

25. Proposed measures that have already been subject to some form of assessment may be agreed by the BOC to commence the assessment process at the relevant next phase.

26. BOC may agree to assess particular measures in advance of the phases outlined at Table 1, and subject to approval by MDB Ministerial Council, to make decisions about whether or not such measures should proceed prior to consolidation of all measures as set out below. Subject to available funding, such an approach may be appropriate for those supply measures that result in relatively straightforward outcomes, such as reduced evaporative losses by changing operating rules and for priority constraint measures. Note that in the case of supply measures, the final adjustment amount associated with such measures could not be confirmed until operation of the SDL adjustment mechanism in 2016.

27. Without limiting the operation of clause 4.3 of the Agreement, for all measures, the proponent is responsible for securing the funds for preparing the proposal to the level required for the relevant phase of assessment.

28. Phase 1 (Feasibility Study): The objective of Phase 1 is to identify the measures most likely to achieve the most effective outcomes and that warrant consideration for development of a business case for assessment under Phase 2. Phase 1 will analyse and evaluate a proposed measure to determine if it (1) is technically feasible, (2) is feasible within the estimated cost, and (3) will achieve the stated outcome. Each constraint and supply measure proposal will be subject to this assessment by the Committee established in accordance with this protocol. The Committee will consider all Phase 1 reports and recommend to BOC those measures that should advance to Phase 2. Such recommendations may include advice about the treatment of proposed measures that cross types.

All Phase 1 Assessments are expected to have been completed by mid-2015.

29. Phase 2 (Business Case): The business case forms the basis of advice for executive decision-making for an investment. It considers alternative solutions and identifies assumptions, benefits, costs and risks. It should provide a compelling case for investment in a preferred option. Each constraint and supply measure agreed to advance to Phase 2 will be assessed by the Committee (or sub-committee) established in accordance with this Protocol. Consistent with any agreed guidelines, the MDBA will be provided with an initial suite of proposed measures at the conclusion of Phase 2 for assessment without prejudice on potential benefits and dependencies between measures; indicative impact on the reduction amount and environmental outcomes; state water
shares; and other States’ water resources. The Committee will then consider all phase 2 sub-committee reports and recommend to BOC those project proposals that should advance to Phase 3. Such recommendations may include advice about the treatment of proposed measures that cross types.

Phase 2 Assessments are expected to be completed by 15 February 2016 (Class A), 15 April 2016 (Class B) and no later than 28 July 2016 (Class C).

The MDBA will confirm suitability of all submitted business case modelling information by 29 April 2016.

30. **Phase 3 (Confirmation):** For all constraint, supply and efficiency measures, each project agreed to advance to Phase 3 will require confirmation by the proponent as described in Table 1 to allow it to be considered for inclusion by BOC in the proposed package of agreed measures. A key feature of Phase 3 is that the proponent will be able to demonstrate that funding for the measure is agreed in principle, with final funding arrangements subject to confirmation of outcomes associated with the measure through operation of the SDL adjustment mechanism.

When each project has been confirmed, the proponent will inform the MDBA of the necessary details as described in Table 1.

All phases will be completed by 16 March 2016 (Class A), 29 April 2016 (Class B) and no later than 28 July 2016 (Class C).

**Consolidation of adjustment measures for submission to the MDBA**

31. On receipt of confirmation for proposed adjustment measures, the MDBA will advise BOC of the expected outcome of these on the SDLs (their apportionment to SDL resource units), and of any environmental or other consequences that may affect the formal assessment of the project under the adjustment mechanism.

32. On considering MDBA advice, BOC will finalise the package of proposed adjustment measures, including the proposed apportionment to SDL resource units, and incorporating those already approved under paragraph 26, for approval by Ministerial Council and submission to MDBA for consideration under the Basin Plan. BOC will first determine the package of constraints measures, and then determine the package of proposed adjustment measures. The Parties agree to progress the package noting that some Class C projects may still need to advance to Phase 3 and/or be confirmed after 30 June 2016, noting an interim or full business case must be submitted by 31 March 2016 for all Class C projects (Figure 1).

a) In finalising the package of proposed supply contributions and any apportionment of these pursuant to clause 7.18 of the Basin Plan, the BOC
will take into consideration any other actions or inactions of any member that may affect the final supply contribution, with the objective that no BOC member is disadvantaged in this process as the result of such actions or inactions of any other BOC member.

33. BOC will then submit the finalised packages of constraints measures and proposed adjustment measures to the MDB Ministerial Council for approval and then to the MDBA by 30 June 2016 for formal operation of the SDL adjustment mechanism.

GOVERNANCE ARRANGEMENTS

Ministerial Council, Basin Officials Committee (BOC) and Jurisdiction Roles

34. Oversight of jurisdictional responsibilities associated with the development of constraint management measures and proposed SDL adjustment measures rests with the MDB Ministerial Council, as advised by the BOC, consistent with the roles of those bodies under the Water Act 2007 and the MDB Agreement 2008.

35. In particular the BOC will:

a) decide which of the proposals recommended by the Assessment Committee will progress to the next phase of assessment, including advice on any agreed changes to the notional apportionment to SDL resource units;

b) decide by exception which of the projects may be identified as Class B or Class C projects

c) seek to reach agreement on an effective package of constraints-relaxation and SDL adjustment measures within the timeframes outlined in this protocol;

d) provide a report to each meeting of the Ministerial Council on progress with the work program of SDL adjustment measures and constraint relaxation including the potential for associated changes to SDLs.

Murray Darling Basin Authority

36. The Parties note that under the Basin Plan and this Protocol, the MDBA is responsible for:

a) Preparing the Constraints Management Strategy in consultation with jurisdictions within the timeframe envisaged by the Basin Plan;

b) Advising BOC on the Assessment Guidelines described at paragraph 18 in consultation with jurisdictions;

c) Participating in the Assessment Committee as a non-voting member;
d) Assisting the Assessment Committee in assessing the feasibility of proposals to remove or relax constraints and SDL adjustment proposals in consultation with the SDL Adjustment Assessment Committee, including through:

i. maintaining a register of all proposed SDL adjustment measures;

ii. assessing the potential dependencies and/or interactions between different proposals;

iii. having regard to relevant MDB Ministerial Council programs and reviews, including those associated with the MDB Agreement;

iv. providing advice to inform states' decisions on the attribution of SDL adjustments between catchments or water resource plan areas;

v. assessing any potential impacts on State water shares or water resources; and

vi. providing secretariat support to the SDL Adjustment Assessment Committee and sub-committees.

e) consolidating the BOC-agreed package of measures and providing advice to BOC and the Ministerial Council about the SDL adjustment associated with the measures; and any dependencies between the package of measures and other relevant activities; and

f) operation of the SDL adjustment mechanism as set out in the Basin Plan.
### Table 1: Phases of assessment for Constraint Measures and SDL Adjustment Measures

<table>
<thead>
<tr>
<th>Measure</th>
<th>Phase 1 Feasibility</th>
<th>Phase 2 Business Case</th>
<th>Phase 3 Confirmation</th>
<th>SDLAM Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Objective</strong></td>
<td>Expected completion by mid-2015 (Class A, B, C projects)</td>
<td>Expected Completion by:</td>
<td>Completed by:</td>
<td>Completed by 30 June 2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 Feb 2016 (Class A)</td>
<td>16 March 2016 (Class A)</td>
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<td></td>
<td>15 April 2016 (Class B)</td>
<td>29 April 2016 (Class B)</td>
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<td></td>
<td></td>
<td>No later than 28 July 2016 (Class C)</td>
<td>No later than 28 July 2016 (Class C)</td>
<td></td>
</tr>
</tbody>
</table>

**Phases of assessment for Constraint Measures and SDL Adjustment Measures**

**Objective**

To identify projects most likely to achieve the most effective outcomes and that warrant consideration for development of a business case for assessment under Phase 2. Assessment via an analysis and evaluation of a proposed measure to determine if it (1) is technically feasible, (2) is feasible within the estimated cost, and (3) will achieve the stated outcome.

**Constraint relaxation/removal measures**

Proponent to include:

- whether the proposed measure is a constraint measure or a supply measure or have elements of both.
- estimate of total financial cost. Where an infrastructure measure is proposed this should be based on preliminary infrastructure designs.
- assessment of potential risks and likely third party impacts
- advice on any proposed funding arrangements.
- identification of likely changes required to river operation rules/practice or

Proponent to provide a Business Case that provides:

- ecological rationale, preliminary salinity & cultural heritage assessment. It is assumed that any modelling, such as digital elevation modelling and hydraulic modelling, necessary to confirm impact on the constraint will be completed.
- detailed estimate of financial cost and advice of proposed funding arrangements. Where an infrastructure measure is proposed this should be based on more detailed infrastructure designs.
- advice on the process for securing any necessary landholder agreement.
- a detailed communications and consultation strategy

**Constraints**

### Objective

- evidence that funding has been secured in-principle subject to MDB Ministerial Council approval
- final advice that a process for dealing with any necessary landholder agreement is underway;
- final advice of the changes to environmental water delivery made possible by the project
- evidence that all works approvals, environmental approvals, cultural heritage management plans and other regulatory requirements are in train
- final advice that any necessary amendments to the MDB Agreement, the River Murray System Objectives and Outcomes

**Ensure that the proponent has provided:**

- evidence that funding has been secured in-principle subject to MDB Ministerial Council approval
- final advice that a process for dealing with any necessary landholder agreement is underway;
- final advice of the changes to environmental water delivery made possible by the project
- evidence that all works approvals, environmental approvals, cultural heritage management plans and other regulatory requirements are in train
- final advice that any necessary amendments to the MDB Agreement, the River Murray System Objectives and Outcomes

**SDLAM Operation**

Formal operation of the SDL adjustment mechanism.

**Phase 4 Outside Protocol**

Finalise funding agreements, design and implementation of measures.

For each measure, proponent to provide milestone reporting to the funding entity that includes:

- delivery against final cost estimate. Where an infrastructure measure is proposed this should be based on more detailed infrastructure design.
- advice that any necessary landholder agreement is being/has been secured
- advice that works approvals, environmental approvals, cultural heritage management plans and other regulatory requirements are being or have been secured
- advice on the progress/completion of
<table>
<thead>
<tr>
<th>Measure</th>
<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
<th>SDLAM Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feasibility</td>
<td>Expected completion by mid-2015 (Class A, B, C projects)</td>
<td>Business Case Expected Completion by:</td>
<td>Confirmation Completed by:</td>
<td>30 June 2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 15 Feb 2016 (Class A)</td>
<td>• 16 March 2016 (Class A)</td>
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<td></td>
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<td>• 15 April 2016 (Class B)</td>
<td>• 29 April 2016 (Class B)</td>
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<td>• No later than 28 July 2016 (Class C)</td>
<td>• No later than 28 July 2016 (Class C)</td>
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</tr>
<tr>
<td></td>
<td>amendment to the MDB Agreement</td>
<td>advice of the changes to environmental water delivery made possible by the project. It is assumed that hydraulic modelling would be required.</td>
<td>Document, existing MDB or jurisdiction water sharing arrangements, policy, and/or legislation are in train.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>identification of possible changes required to state legislation or water sharing frameworks, and where the consent of another jurisdiction is required to do this.</td>
<td>detailed assessment of required changes to river operation rules/practice or amendment to the MDB Agreement</td>
<td>necessary changes to river operation rules/practice or amendment to the MDB Agreement and the timeframe for delivery</td>
<td></td>
</tr>
</tbody>
</table>

- advice on progress/completion of required changes to state legislation or water sharing frameworks
- advice on implementation of risk mitigation strategy for third party impacts and unintended environmental outcomes
<table>
<thead>
<tr>
<th>Measure</th>
<th>Phase 1 Feasibility</th>
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<th>Phase 3 Confirmation</th>
<th>SDLAM Operation</th>
<th>Phase 4 Outside Protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expected Completion by mid-2015 (Class A, B, C projects)</td>
<td></td>
<td>Expected Completion by:</td>
<td>Completed by:</td>
<td>30 June 2016</td>
<td>Completed by 2024</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 15 Feb 2016 (Class A)</td>
<td>• 16 March 2016 (Class A)</td>
<td></td>
<td>For each measure, proponent to provide milestone reporting to the funding entity that includes:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 15 April 2016 (Class B)</td>
<td>• 29 April 2016 (Class B)</td>
<td></td>
<td>• delivery against final cost estimate based on final infrastructure design</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• No later than 28 July 2016 (Class C)</td>
<td>• No later than 28 July 2016 (Class C)</td>
<td></td>
<td>• advice on realisation of SDL adjustment</td>
</tr>
<tr>
<td>Supply measures</td>
<td>Proponent to include:</td>
<td>Proponent to provide a Business Case that provides:</td>
<td>Confirmation that proponent has provided:</td>
<td>On receipt of confirmation for all adjustment measures, the MDBA will advise BOC of the expected outcome of these on the SDLs.</td>
<td>For each measure, proponent to provide milestone reporting to the funding entity that includes:</td>
</tr>
<tr>
<td></td>
<td>• estimate of total financial cost based on preliminary infrastructure designs</td>
<td>• provide ecological rationale, preliminary salinity &amp; cultural heritage assessment. It is assumed that any modelling, such as digital elevation modelling and hydraulic modelling, necessary to determine the proposed SDL adjustment will be completed.</td>
<td>• evidence that funding has been secured in-principle subject to MDB Ministerial Council approval and operation of the SDLAM.</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>• qualitative estimate of potential for SDL adjustment including the surface water SDL resource units affected by the measure</td>
<td>• a detailed estimate of financial cost based on more detailed infrastructure designs and advice of proposed funding arrangements</td>
<td>• final estimate on the proposed SDL adjustment including the surface water SDL resource units affected by the measure</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• preliminary assessment of links to other measures (e.g. is the SDL adjustment volume of this measure enhanced or reduced by other measures?)</td>
<td>• a detailed estimate of potential SDL adjustment including the surface water SDL resource units affected by the measure</td>
<td>• confirmation of links to other supply measures (e.g. is the SDL adjustment volume of this measure enhanced or reduced by other measures?)</td>
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<tr>
<td></td>
<td>• assessment of potential risks and likely third party impacts</td>
<td>• detailed assessment of links to other supply measures (e.g. is the SDL adjustment volume of this measure enhanced or reduced by other measures?)</td>
<td>• final advice of the changes to environmental water delivery made possible by the project</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• advice on any proposed funding arrangements.</td>
<td>• advice of the changes to environmental water delivery made possible by the project. It is assumed that hydraulic modelling would be required.</td>
<td>• evidence that all works approvals, environmental approvals, cultural heritage management plans and other regulatory requirements are in train</td>
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<tr>
<td></td>
<td>• identification of possible changes required to river operation rules/practice or amendment to the MDB Agreement</td>
<td></td>
<td>• final advice that any necessary amendments to the MDB Agreement, the River Murray System Objectives and Outcomes Document, existing MDB or jurisdiction water sharing</td>
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<tr>
<td></td>
<td>• identification of possible changes required to state</td>
<td></td>
<td>• advice on the progress/completion of necessary changes to river operation rules/practice or amendment to the MDB Agreement and the timeframe for delivery</td>
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<td></td>
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<td>Expected Completion by:</td>
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<td>30 June 2016</td>
<td>Completed by 2024</td>
</tr>
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<td></td>
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</tbody>
</table>

- legislation or water sharing frameworks, and where the consent of another jurisdiction is required to do this.
- detailed assessment of required changes to river operation rules/practice or amendment to the MDB Agreement
- detailed assessment of required changes to state legislation or water sharing frameworks
- a detailed communications and consultation strategy
- identification of risks including unintended environmental outcomes and any third party impacts;
- details of interrelated constraint measures

- arrangements, policy, and/or legislation are in train
- final advice on risks including unintended environmental outcomes and any third party impacts and any risk management actions

- advice on progress/completion of required changes to state legislation or water sharing frameworks
- advice on implementation of risk mitigation strategy for third party impacts and unintended environmental outcomes
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</tr>
</thead>
</table>

Proponent to provide, (at any time prior to 16 March 2016) details of the proposed program(s) for delivering efficiency measures including:

- advice on proposed funding arrangements.
- the volume of water estimated to be recovered through the efficiency measure
- the surface water SDL resource units affected by the measure
- details of any related constraint measures;
- the date on which the measure entered into operation, or by which it will enter into operation.

On receipt of confirmation for all adjustment measures, the MDBA will advise BOC of the expected outcome of these on the SDLs.

BOC will then submit the finalised packages of constraints measures and proposed adjustment measures to the MDB Ministerial Council for approval and then to the MDBA for formal operation of the SDL adjustment mechanism.

Annual review of water recovery in consultation with relevant jurisdictions
Figure 1: SDL Assessment – revised procedure

Class A Projects

Class A Business Cases Submitted (Phase 2) by 30 Nov 2015

Class A Projects Assessed (Phase 2) by 15 Feb 2016

Class A Projects Confirmed (Phase 3) by 16 Mar 2016

Class B Projects

Class B Business Cases Submitted (Phase 2) by 15 Feb 2016

Class B Projects Assessed (Phase 2) by 15 Apr 2016

Class B Projects Confirmed (Phase 3) by 29 Apr 2016

Class C Projects

Class C Interim or full Business Cases BOC decided by exception on Class C projects Submitted (Phase 2) by 31 Mar 2016

Decision on whether Class C projects included in final package

Class C Business Cases Assessed (Phase 2) by 28 July 2016

Decision Points Timeline

30 November 2015

15 February 2016

16 March 2016

31 March 2016

15 April 2016

16 March 2016

29 April 2016

May 2016

38 June 2016

30 July 2016

MinCo notification

BOC confirmation (Phase 3) Class C projects

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Schedule 2

Determination of a single final reference value in 2015

A calculation will be conducted at the conclusion of 2014-15 to determine the final reference value that the Commonwealth will apply to approved supply measures.

The final reference value will be a 6 year trimmed volume weighted average price calculated using market trade data from state government water registers from 2009-10 to 2014-15. The final reference value will be calculated in megalitres of long term average annual yield (ML LTAAY) terms using the LTAAY factors agreed by the Murray-Darling Basin Ministerial Council. This methodology is based upon that used by the National Water Commission in the Australian Water Markets Reports.

The calculation will use the price and volume information for registered water entitlement trades in each catchment of the southern connected Basin. The data set which will be used to calculate the final reference value will draw on market trade data from state government water registers from 2009-10 to 2014-15. It will be created by:

a) Removing any trades with a reported price less than $10/ML or greater than $10,000/ML, or with a zero volume from the dataset.

b) If there are less than 10 remaining trades of an entitlement class in a catchment, these trades will also be removed from the dataset.

c) Calculating the average price and the standard deviation from trades remaining in the dataset for each entitlement class in each catchment. Trades with a price that deviates by more than two standard deviations from the average price for its entitlement class will then be removed from the dataset.

d) For each trade remaining in the dataset, convert the volume to ML LTAAY and calculate the value of each trade.

e) Pool the remaining trade data for each entitlement class in each catchment into a single dataset.

f) Using the pooled data, calculate the volume weighted average price ($/ML LTAAY). The volume weighted average price is calculated as the sum of the value of all trades divided by the sum of the total LTAAY volume.

This method is used to ensure that small volume trades do not disproportionately influence the calculation while still drawing on a representative set of prices for years of above, below, and average water availability.

The calculation will be undertaken in a transparent manner by Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) or an independent consultant commissioned by DSEWPaC. The data and the basis of the calculations will be made available to the Parties.