

# WATER FOR FOOD

**Progress Report Card 2010**



Government  
of South Australia

This report card uses a rating system, based on that used for South Australia's Strategic Plan, to assess progress against the 94 actions in **Water for Good**.

In some cases, the responsibilities for achieving actions have changed since the original Plan was released.

1	Achieved
2	On track
3	Within reach
4	Unlikely
5	Not reached (within the action timeframe)
0	Unclear

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
<b>Adaptability, Monitoring and Evaluation</b>					
1. Establish an adaptable management framework, incorporating an annual review process, to assist in making timely and appropriate decisions to provide ongoing water security throughout the State.	October 2009	Ongoing	DFW	2	Under <i>Water for Good</i> , the Government sets security standards for South Australia's water supplies. The standards will define the risk points that would threaten water supply and require decisions on options to increase supply, or reduce demand, or both. These standards will be reviewed annually and reported via the Minister for Water's annual statement.
2. The Minister will produce an annual statement that will: <ul style="list-style-type: none"> <li>• assess progress of the Plan and identify any risks or issues</li> <li>• review and confirm water security standards for the upcoming review period</li> <li>• provide demand-supply status for each region</li> <li>• identify and analyse impacts of any emerging issues</li> </ul>	2010	Ongoing	Commissioner for Water Security	2	The Commissioner for Water Security has completed the 2010 annual review of <i>Water for Good</i> , with input from an interdepartmental committee and using demand and supply analysis for Greater Adelaide from the Department for Water. The first <i>Water for Good Annual Statement</i> was released in late 2010. Six actions have been completed (nos 23, 32, 35, 40, 65 and 80) and 95% of all actions will either be under way or completed by 2014.
3. The Minister will establish an independent planning process if demand and supply forecasts indicate a gap is likely to exist in the foreseeable future.	As required	As required	Minister for Water Commissioner for Water Security	2	Regional demand and supply statements will be addressed in the new water industry legislation, due to be tabled in Parliament in late in 2010. An independent planning process can be instituted in response to an individual regional water demand and supply statement, if required.

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4. Undertake annual reviews of <i>Water for Good</i> and regional water demand and supply plans, checking both the status of resources and the assumptions on which the plans are based.	2009	Ongoing	Commissioner for Water Security	2	<p>The Commissioner for Water Security has undertaken the 2010 annual review of <i>Water for Good</i>. The reviews of regional demand and supply statements will be undertaken annually following their release.</p> <p>Regional water demand and supply statements are being developed for the eight Natural Resource Management Regions of South Australia. Their purpose will be to provide a long-term, 40-year overview, using an adaptive management process that outlines the state and condition of all water resources in the region (drinking water quality and non-drinking water quality). The statements will also list major demands on these water resources and any demand-supply imbalances.</p>
5. Undertake a comprehensive review and amendment of <i>Water for Good</i> and regional water demand and supply plans on a five-yearly basis.	2014	Ongoing	Commissioner for Water Security	2	<p>The first five-year comprehensive review of <i>Water for Good</i> will be conducted in 2014. It will review the assumptions, incorporate an assessment of the effectiveness of the Plan to date, and revise demand and supply projections. Reviews of regional demand and supply statements will be undertaken five years after the release of each statement, unless triggered earlier.</p>
<b>Desalination</b>					
6. Construct a major desalination plant powered by renewable energy to supply Greater Adelaide with 'first water' by December 2010, 50 GL/a by mid 2011, and 100 GL/a by the end of 2012.	2009	2012	SA Water	3	<p>Construction of the Adelaide Desalination Plant is well under way, with AdelaideAqua (a consortium of four companies with extensive world-wide desalination experience and strong environmental credentials) contracted to design, build, operate and maintain the plant for 20 years.</p> <p>The total project cost is \$1.83 billion and the plant will deliver up to 100 billion litres of water each year (100 GL) – up to half of Adelaide's annual water supply.</p> <p>On 28 August 2010, a revised date for the first drop of water was announced by the Minister for Water, Paul Caica. The first drop of water is now expected in April 2011. Practical completion for the 50 GL plant remains the end of August 2011, and project handover for operation for the full 100 GL capacity remains at end December 2012.</p> <p><b>Transfer pipeline</b></p> <p>An important component of the Adelaide Desalination Project is the transfer pipeline system to deliver water from Port Stanvac to the Happy Valley water treatment supply. Desalinated water will be pumped through the pipeline to Happy Valley, where it will be combined with water from the water treatment plant before entering the existing water supply network. The water will not enter the reservoir but will be mixed with already treated water from the plant.</p>

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					The pipeline has been constructed by respected construction companies McConnell Dowell Constructors Pty Ltd and Built Environs Pty Ltd (a joint venture).
7. Additional water sources including desalinated seawater will supplement the Eyre Peninsula water resources, subject to site and environmental investigations.	2009	2014	SA Water	2	The Eyre Peninsula Long Term Plan, launched in December 2008, included a recommendation to investigate desalination. Initially five preferred locations were identified, and research was undertaken to assess ocean mixing and currents, aquaculture, water depths, geotechnical conditions, environment, power supply and proximity to water infrastructure. Following the research, and considering community views, two preferred locations were identified – at Cathedral Rocks and Sleaford Bay. SA Water is continuing to investigate these areas, assessing marine and terrestrial ecosystems, and further considering social, economic and technical factors related to all augmentation options. Further consultation is being undertaken with key stakeholders, local landowners and Indigenous heritage groups.
8. Complete the investigation for the design of, and need for, interconnection works between Adelaide's southern and northern water supply systems.	2009	2012	SA Water	2	In May 2010, the Minister for Water announced the selection of the preferred option and progression to the concept design phase for the North South Interconnector System Project. Concept design and development, and stakeholder and community consultation, are continuing. The program has an accelerated timeline linked to the commissioning of the Adelaide Desalination Plant 100GL/annum expansion works.
9. By 2010, finalise a statewide desalination policy to guide future desalination plant proposals, including the identification of additional suitable sites in case they are needed in the future.	Under way	2010	SA Water	3	An interagency working group has been formed and has identified preliminary principles.
10. Investigate the viability of constructing groundwater desalination plants for regional townships where water quality (i.e. salinity) has been identified as an issue. This will enable improvements to these water supplies by 2025 at the latest.	Under way	2025	SA Water	2	SA Water is undertaking hydro geological investigations into the provision of a desalination plant for the township of Hawker. The main focus of investigations is to establish whether the groundwater basin can sustain a desalination plant. It is expected the investigations will be completed in 2011.
<b>Stormwater Recycling</b>					
11. Complete existing committed stormwater projects, including Cheltenham Park, to provide an additional harvesting capacity of	2009	2013	DFW Project proponents:	2	The Urban Stormwater Harvesting Options Study identifies more than 30 stormwater projects as 'currently committed', including a number that continue to be progressed through the Waterproofing Northern Adelaide initiative being undertaken by the Salisbury, Playford and Tea Tree Gully councils. Waterproofing Northern Adelaide has a completion timeframe of 2010 for major works. Stormwater harvesting at Cheltenham Park is

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almost 12 GL/a by 2013.			LMC AMLR NRM Board DENR SA Water		part of the Waterproofing the West project, which was part of the successful South Australian bid to the Australian Government's special call for Stormwater Harvesting and Reuse Projects. (Refer Action 13). All projects are progressing well.
12. Update, by 2010, State water recycling guidelines to reflect the Australian Guidelines for Water Recycling, and include stormwater.	2009	2010	DoH	3	A draft of the new SA Recycled Water Guidelines is being prepared to address recycled water from sources including treated sewage, stormwater and greywater. The 2006-2009 Australian Guidelines for Water Recycling will provide the scientific basis. An interagency group is facilitating the development of the guidelines. The proposed <i>Water Industry Act</i> will impact on the content of the guidelines, particularly changes to the current arrangement for the technical regulation of plumbing.
13. Subject to Commonwealth assistance and in partnership with local government, stormwater harvesting and recycling will be under way, including: <ul style="list-style-type: none"> <li>in the western metropolitan area, including Cheltenham Park, Riverside Golf Club, Old Port Road and Adelaide Airport</li> <li>in the southern metropolitan area, building on the first stage of Water Proofing the South</li> <li>in Playford and Salisbury, creating further capacity in the northern area, and building on Waterproofing Northern Adelaide</li> <li>at the Adelaide Botanic Gardens, and</li> <li>at Barker Inlet</li> </ul>	2009	2013	DFW	2	More than \$65 million in Commonwealth Government funding was announced on 2 November 2009 for the seven proposals coordinated by the SA Government and a separate proposal from the City of Unley. These are: <ul style="list-style-type: none"> <li>Waterproofing the South Stage Two – City of Onkaparinga</li> <li>Waterproofing the West Stage One – City of Charles Sturt</li> <li>Water for the Future – City of Playford</li> <li>Unity Park Biofiltration – City of Salisbury</li> <li>Adelaide Botanic Garden – Department of Environment and Natural Resources</li> <li>Adelaide Airport Scheme – SA Water</li> <li>Barker Inlet Scheme – SA Water</li> <li>Unley Scheme – City of Unley [separate proposal].</li> </ul> <p>With State Government funding of more than \$45 million, as well as local government and other partner contributions, the projects will amount to around \$150 million in capital works and are expected to harvest in the order of 8 GL of stormwater.</p> <p>The Department for Water is administering funding from the Commonwealth to the project proponents.</p>
14. Work with local government to update the	2009	2011	DFW	2	The Department for Water and the Local Government Association have been working cooperatively to review

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State-Local Government Stormwater Management Agreement. Clarify the roles of State agencies and local government; reinforce the importance of collaboration; and strengthen governance arrangements.					governance of the Stormwater Management Authority in preparation for the review of the Stormwater Management Agreement. As part of this process, a general Terms of Reference has been developed. The governance review report was released on 30 September 2010.
15. Work with local government, the Stormwater Management Authority and other stakeholders (including the Commonwealth Government and private enterprise) to identify and develop new stormwater recycling projects in the Adelaide region, in line with the findings of the Urban Stormwater Harvesting Options Study.	2009	Ongoing	DFW	2	The South Australian Government continues to liaise with local government and other parties to identify and advance new stormwater harvesting opportunities.  The Government submitted a bid in co-operation with relevant councils under round two of the Commonwealth Government's National Urban Water and Desalination Plan: Special call for Stormwater Harvesting and Reuse Projects. Funding was announced for a stormwater harvesting scheme at Oaklands Park on 19 July 2010. This project is expected to yield in the order of 170 ML per annum. The project will be completed by June 2013.
16. Develop a master plan for effectively managing stormwater in Adelaide. Include interim milestones and water quality targets to support recommendations in the <i>Adelaide Coastal Waters Final Report</i> , to provide up to 60 GL/a of recycled stormwater, in Greater Adelaide, by 2050.	2010	2012	DFW	2	The Department for Water is developing a Stormwater Strategy which will provide a strategic framework for the master plan. The Stormwater Strategy is expected to identify and clearly articulate existing policy, legislative and governance arrangements and will identify priority actions to enable <i>Water for Good</i> targets to be met.  The Stormwater Strategy will provide a strategic approach to stormwater management in Greater Adelaide which will help provide stakeholders, including local government, with the tools to achieve the <i>Water for Good</i> target for stormwater recycling. A high-level taskforce has been set up by the State Government to help ensure world-class management of South Australia's stormwater. The Stormwater Taskforce includes representatives from the Local Government Association, the Department for Water, SA Water, the Natural Resources Management Boards, the Goyder Institute and the Stormwater Management Authority.
17. As part of regional water demand and supply planning, develop and implement plans to provide up to 15 GL/a of stormwater harvesting potential in South Australia's regional areas, by 2050.	Under way	2050	DFW	2	On 10 June 2010, the Commonwealth Government announced its commitment to provide \$19.2 million of funding, under the National Water Security Plan for Cities and Towns, towards a number of stormwater and wastewater projects and irrigation efficiency measures in South Australian regional council areas. The stormwater component of these successful bids will contribute towards achieving the regional stormwater harvesting target. Further projects will be identified over time.
<b>Wastewater Recycling</b>					
18. Develop State guidelines for greywater recycling, consistent with <i>Australian</i>	2009	2010	DoH	3	A draft of the new SA Recycled Water Guidelines is being prepared to address recycled water from sources including treated sewage, stormwater and greywater. The 2006-2009 Australian Guidelines for Water

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<i>Guidelines for Water Recycling, by 2010.</i>					Recycling will provide the scientific basis. An interagency group is facilitating the development of the guidelines. The <i>Water Industry Act</i> will have an impact on the content of the guidelines, particularly changes to the current arrangement for the technical regulation of plumbing.
<b>19.</b> Develop a master plan for effectively managing wastewater in Adelaide, in concert with the stormwater recycling master plan, to ensure optimum use of both water sources.	2012	2014	SA Water	2	This action is not due to begin until 2012.
<b>20.</b> Encourage decentralised wastewater recycling schemes in new developments, in partnership with the implementation of the Plan for Greater Adelaide	2011	Ongoing	DP&LG	2	This action is not due to begin until 2011.
<b>21.</b> Expand recycling of rural community wastewater management schemes (council operated) to 12 GL/a by 2050	2010	2050	DP&LG	2	The installation of infrastructure to increase wastewater reuse by councils through the Statewide Wastewater Recycling Project is due to be completed by December 2010.  In early 2011, all councils will be surveyed to ascertain the volume of wastewater that will be recycled.
<b>22.</b> Complete wastewater recycling projects, including Glenelg to Parklands (open space irrigation), Blakeview (housing development), Southern Urban Recycling Project (housing development), by 2013.	2009	2013	SA Water	2	The Southern Urban Reuse Project is under construction and on schedule. It is expected that first water will be delivered to Seaford Meadows for use in dual reticulation by the end of 2010.  Construction of the Glenelg to Adelaide Parklands scheme was completed four months ahead of schedule and first water has been delivered to the Adelaide City Council to water the park lands.  A steering group, comprising representatives of SA Water, the Land Management Corporation and the City of Playford, has been formed to undertake detailed investigations at Blakeview (Playford North) and to establish the necessary commercial arrangements.
<b>Using and Saving Water</b>					
<b>23.</b> Enhance the H <sub>2</sub> OME rebate scheme in September 2009, by: <ul style="list-style-type: none"> <li>including a new \$150 rebate for the purchase of a hot water recirculator</li> <li>modifying the washing machine rebates</li> </ul>	2009	2011	SA Water	1	Changes to the H <sub>2</sub> OME rebate scheme were implemented by SA Water and communicated to the community in September 2009. Over \$35 million has been provided to the community through the scheme since it was established in 2007.



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<p>to apply to those with a minimum of 4½-stars</p> <ul style="list-style-type: none"> <li>increasing the garden goods rebate to \$100 on a \$250 basket of goods, and include rainwater diverters</li> <li>introducing a new \$200 rebate for the purchase of approved pool covers and cover rollers for existing household swimming pools.</li> </ul>					
<p><b>24.</b> Support the expansion of the Water Efficiency Labelling and Standards (WELS) scheme to include additional products and minimum performance standards for existing products.</p>	2009	Ongoing	DFW SA Water	2	<p>South Australia supported the National WELS scheme through funding support and representation on the WELS Advisory Committee.</p> <p>In accordance with WELS legislation, a review of the current scheme has been undertaken by an independent consultant. The South Australian Government provided input through an intergovernmental reference group established to support the review process.</p> <p>Activities required to support expansion of the WELS scheme, including possible introduction of minimum water efficiency standards for some WELS-rated products, were progressed by the Commonwealth through the WELS Regulator. Recommended minimum water efficiency standards for clothes washers and water efficiency labelling of 'combined' clothes washer/dryers that use water in the drying mode were approved by the Environmental Protection and Heritage Council at its July 2010 meeting. Implementation will begin in October 2011.</p>
<p><b>25.</b> Implement the best regulatory approach to mandate swimming pool covers by 2012.</p>	2011	2012	DFW	2	Under Water Wise Measures, a pool cover is required for all new pools.
<p><b>26.</b> Apply permanent water conservation measures to private bores in urban areas from 2010.</p>	2010	Ongoing	DFW	2	The State Government has announced new Water Wise Measures, effective from 1 December 2010. Water use from private bores will be subject to a community awareness raising campaign.
<p><b>27.</b> Develop the Urban Landscape Program to provide South Australians with the knowledge, tools and incentives to develop appropriate water-wise gardens and</p>	2010	Ongoing	SA Water	2	Preparations for the Urban Landscapes Program are on track. The WaterRight SA web tool will be completed shortly and launched in November 2010. The web tool provides a comprehensive resource for gardeners to understand how often and how much water is required and to save water.

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landscapes by the end of 2011.					<p>The site also contains fact sheets and links to other websites – helping gardeners to plan or maintain a water efficient garden.</p> <p>The installation of data loggers at households participating in the domestic irrigation trials has begun. Approximately 50 meters are currently being installed. Further participants will be recruited and meters installed when project resources are finalised with University of Adelaide.</p>
28. By 2010, require SA Water customers using more than 25 ML a year to complete a water efficiency plan.	2010	Ongoing	SA Water	3	Water efficiency plans for Group 1 customers using more than 25 ML per annum are progressing.
29. Include leak detection in the water auditing process of the Business Water Saver Program.	2009	2011	SA Water	3	Development of a pilot leak detection program is continuing.
30. Work with industry to encourage the uptake of stormwater and recycled water for primary production in lieu of mains water.	2009	Ongoing	PIRSA	2	An audit of mains water, recycled water and stormwater use has been undertaken. PIRSA and 'Action 30' partner agencies are continuing to implement initiatives, to encourage the uptake of recycled water for primary production in lieu of mains water. Action 30 partner agencies will continue to explore opportunities to find substitutes for using mains water in primary industry as part of the development of the broader Stormwater Strategy under Action 16.
31. Irrigation meters to be installed in the Mount Lofty Ranges Prescribed Area by 2014, once water users are licensed.	2010	2014	DFW	2	<p>Approximately 6,500 meters will be installed across the Mount Lofty Ranges.</p> <p>As part of the authorisation process for the Eastern Mount Lofty Ranges, irrigators are required to install meters. About 1500 are expected to be installed and about half are in place to date.</p> <p>Approximately 5,000 meters will be installed as conditions of licence by irrigators in the Western Mount Lofty Ranges. Once the Water Allocation Plan for the region is adopted (expected April 2011), licenses with appropriate conditions will be issued.</p>
32. Develop a new water information website, with clear and readily accessible information on South Australia's water resources, and information to help South Australians improve water-use practices by the end of 2009.	2009	2009	DFW	1	The <i>Water for Good</i> website was launched on 29 June 2009. It is helping to educate South Australians about how to use water wisely and the importance of a diverse water supply. The website also provides information about the <i>Water for Good</i> Plan and the progress of its actions. In addition, the WaterConnect web site has been developed as a one-stop-shop for industry, government and the broader community to access information about the condition and use of the State's water resources.
33. Develop an awards program, including a	2010	Ongoing	Commissioner	2	Meetings with awarding bodies have been completed and detailed sponsorship proposals have been received

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Premier's award, to recognise the achievements of communities, individuals, schools, businesses, industry and government that are contributing to our future water security by the end of 2011.			for Water Security		and are being assessed.  The South Australian Excellence in Stormwater Awards in September 2010 (infrastructure category) was the first to be sponsored under the <i>Water for Good Awards Program</i> .
<b>34.</b> Work with the South Australian Multicultural and Ethnic Affairs Commission to develop targeted water education programs with the various ethnic communities of South Australia.	2010	Ongoing	Commissioner for Water Security	2	Analysis is being undertaken to identify high water-using communities and priorities for education programs. Programs are being developed with key partners (Multicultural SA is the lead partner). Six major multicultural events have been identified as providing good platforms for key messages about using and saving water. Communication materials and tools are being audited to ensure their suitability for culturally and linguistically diverse audiences.
<b>35.</b> Maintain permanent water conservation measures when new sources of water come on line and water restrictions can be lifted.	By end 2012	Ongoing	SA Water	1	Water Wise Measures will apply when Water Restrictions are lifted on 1 December 2010. The Water Wise Measures will provide guidance to South Australians on commonsense practices for using mains water.
<b>36.</b> Extend delivery of irrigation efficiency programs, such as the Irrigated Public Open Space program, to all local councils and schools. Incorporate the identification of opportunities to substitute mains water used for community purposes with fit for purpose water (e.g. recycled rainwater and stormwater).	2009	2011	SA Water	2	Extension of the Irrigated Public Open Space (IPOS) scheme is progressing well. Approximately 615 councils and schools have been divided into three groups based on water use, and discussions have been held with the Local Government Association, the Department of Education and Children's Services, the Association of Independent Schools and Catholic Education. Appointments for onsite assessments of group one sites has commenced ahead of schedule. Information packs have been mailed to all school sites and more than 75% of schools have submitted applications. Roll-out of IPOS to rural councils also is progressing.
<b>37.</b> Implement a retrofitting program to improve the water efficiency of publicly-owned buildings, and encourage similar water efficiency measures in buildings leased by the Government, and in other private commercial buildings where appropriate.	2009	2013	DFW	2	A working group has been formed and is providing advice regarding current activity, gaps and policy issues. This will also be considered in relation to existing work progressing on energy efficiency within government-owned buildings.
<b>38.</b> Continue SA Water's program of leak detection and repair in its metropolitan and major country town networks and report annually on progress.	2009	Ongoing	SA Water	2	An \$8 million, three-year project to locate and repair leaks throughout the Adelaide metropolitan area is being implemented. Progress is on schedule, with leak detection and repair work to continue until 2011-12.  A detection and repair project for Mount Gambier has been developed and a detection contract let.

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					The detection phase is now complete. The repair phase will continue through 2010-11.
39. By 2010, expand water education to raise awareness among South Australians of key water issues through a <i>Water for Good</i> education campaign.	2009	Ongoing	Commissioner for Water Security	2	An extensive education and engagement campaign was implemented in 2009 and is now continuing to reassure the community that strategies are in place to deliver water security and encourage wise water use.  The second phase of the campaign includes the <i>WaterWise Communities</i> initiative – a partnership between the Local Government Association and SA Water that encourages householders, businesses and community groups to use water wisely.
40. Provide SA Water customers with more information on their water bills, including comparisons with previous use and use in similar homes.	2009	2010	SA Water	1	Complete. New 'smart bills' have been sent to residential customers since 1 July 2009, providing improved water consumption comparison information.
41. By 2013, develop further curriculum resources to help lower and middle school students learn more about their water resources, the water cycle, and what can be done to reduce water use.	2009	2013	Commissioner for Water Security	2	Gap analysis has been conducted on existing online curriculum resources and curriculum stream linkages for a water cycle education pack have been identified.  Preliminary stakeholder identification and engagement has been conducted, and an education reference group has been created.  Resource tools have been identified, with support package and implementation program to be developed. Resource tool pilot program schools have also been selected.
<b>Rain, Rivers, Reservoirs and Aquifers</b>					
42. Explore the economic and environmental feasibility of using saline water produced in salinity management schemes.	Under way	2015	DFW	2	An Information Memorandum seeking expressions of interest to access and use saline water from the Woolpunda Salt Interception Scheme (SIS) for commercial use was released on 15 February 2010. Inquiries were received, but the water is yet to be taken up for commercial uses.  The government will continue to seek industry interest in accessing SIS water.  The Murray-Darling Basin Authority, which processes enquiries about the use of SIS water from across the Basin, will be the first point of contact for any future enquiries. The MDBA will maintain close contact with relevant South Australian Government agencies in relation to enquiries.
43. Commission, where required, regional-scale studies on the impacts of climate change on water resources.	2009	2014	DFW	2	Activities to date have been targeted at improving knowledge of both prescribed and non-prescribed resources to better understand climate change impacts on groundwater levels, water availability and salinity.  An initial risk assessment has been completed to determine the implications of climate change on priority

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					groundwater areas. This assessment aims to understand which groundwater systems are most at risk due to rainfall variation. A groundwater modelling framework has also been developed to enable regional-scale prediction of climate change impacts on priority groundwater resources.
44. Adopt a two-staged approach to water allocation planning, with an Interim Water Allocation Plan, followed by a Comprehensive Water Allocation Plan, for all newly prescribed areas.	2010	2012	DFW	2	A water allocation planning reform program is under way. It is expected that this will improve the delivery of water allocation plans and the time taken to develop them. One action in that program seeks to amend the <i>Natural Resources Management Act 2004</i> to remove the requirement to undertake the concept statement phase of the water planning process. The necessary legislative amendment has been included in the <i>Natural Resources Management (Review) Amendment Bill 2010</i> . The Amendment Bill also contains changes that allow a successor-in-title to be entitled to claim the existing user rights following prescription. The Bill was introduced to Parliament in October 2010.
45. Provide funding of \$8.6 million over two years, (2009/10 and 2010/11), to strategically review and, where required, expand or upgrade the water resources monitoring network.	2009	2012	DFW	2	<p>Groundwater Program funding has provided for additional capital works to be completed, resulting in repairs, replacement or upgrades to existing monitoring infrastructure. The works, completed on 16 surface and groundwater monitoring installations, were aimed at improving the reliability and accuracy of data collected.</p> <p>An analysis of the groundwater monitoring networks was also undertaken to establish 'fitness for purpose' for the Eyre Peninsula and the Northern and Yorke NRM regions. This analysis will be used to inform future monitoring decisions, and will guide future capital investment for monitoring activities in these NRM regions.</p> <p>A tender was also let for the drilling of additional/replacement monitoring wells in the Mid North. The establishment of these monitoring wells will provide improved resource condition monitoring in areas where there were information gaps. It will support the concept of an early warning system for changes to water resource condition and trends, thereby improving the ability for 'strategic surveillance' for state and condition reporting of water resources to occur regularly.</p> <p>The completion of capital works programs during 2009-10 resulted in an increase in groundwater monitoring throughout the year. In total, annual monitoring activity for salinity and/or water levels was undertaken at 4075 wells throughout the State.</p> <p>The information collected will be used to inform water allocation planning, improving scientific understanding of the resources, and ultimately improved water resource management.</p> <p>Work under way on the installation of 41 monitoring sites in the Great Artesian Basin will result in a network of 202 wells, providing a uniform data set across the four jurisdictions controlling the GAB.</p>
46. Increase regularity of statewide data collation, assessment and reporting,			DFW	2	A prototype report card for the Mallee Prescribed Wells Area has been produced and significant progress has been made on report cards for the Musgrave, Southern Basins and Clare Prescribed Wells Areas.

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where required.					<p>Online delivery of score cards, including comprehensive web-based reporting to water users and the public, will be made available during 2010-11 via the recently established 'Waterconnect' website.</p> <p>Phase one of a risk assessment project for water-dependent ecosystems has delivered a preliminary assessment of South Australian ecosystems vulnerable to competing demands, such as groundwater and surface water development. These assessments are important for water managers seeking to balance environmental water requirements against ongoing sustainable water allocation and use across the State.</p> <p>The Facilitating Long-term Outback Water Solutions (FLOWS) project has delivered a draft review of the basic capacity of the groundwater resources in the Far North of South Australia. It includes an inventory of groundwater resources, review of projected demands, and recommendations to address knowledge gaps.</p> <p>The FLOWS project aims to further develop the understanding of groundwater resources in the State's arid lands, while at the same time promoting sustainable development of water resources for mining and explorative practices.</p> <p>The WaterConnect web site has been developed as a one-stop-shop for industry, government and the broader community to access information about the condition and use of the State's water resources.</p>
47. Implement a statewide policy framework for managing the water resource impacts of plantation forests, and amend the <i>Natural Resources Management Act 2004</i> to allow forest water licensing, where appropriate, consistent with the statewide policy framework.	2009	Ongoing	DFW	2	<p>To give effect to the statewide policy framework, <i>Managing the water resource impacts of plantation forests</i>, amendments to the <i>Natural Resources Management Act 2004</i> are being considered.</p> <p>To implement the statewide policy framework, an interagency taskforce has been working to develop a revised draft Lower Limestone Coast Water Allocation Plan through a review of science, development of policy options and consultation with key stakeholders.</p> <p>The reference group for developing the guide for water managers implementing the statewide policy framework met in mid April 2010 to consider a draft and to provide agency-specific input. The group provided feedback, and a third draft of the document was prepared. Work to complete the current sections will continue but finalisation of the guide will depend on legislation for the management options being passed.</p>
48. Require mining ventures to provide their own water supplies within the sustainable framework of natural resources management planning and regional water demand and supply plans.	Under way	Ongoing	PIRSA	2	<p>A discussion paper was prepared in 2009-10 following consultation/comment from agency, peak industry and NRM bodies i.e. SACOME, RESIC and NRM Council. A fact sheet has been developed for departmental, NRM Board and Industry websites.</p>

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49. Develop water quality improvement plans for the Mount Lofty Ranges (MLR) Watershed by 2011 and other critical water catchments across the State by 2017.	2009	2017	EPA	2	Port Waterways Water Quality Improvement Plan – complete. Adelaide Coastal Water Quality Improvement Plan – draft developed. Watershed Water Quality Improvement Plan – commenced. Preparation of background information and risk identification under way, including initial risk modelling. Further Steering Committee meetings have been held and working groups have held initial meeting. Action Projects 49, 51 & 52 will be jointly steered.
50. Establish planning policies, based on the water quality risk hierarchy associated with the MLR Watershed Priority Areas, to ensure that new developments have a beneficial, or at least neutral, impact on water quality in the Watershed.	2010	2012	DP&LG	2	The Department of Planning and Local Government is close to completing a reformat of the 'non-complying' list for the Watershed Protection (MLR) Zone.
51. Undertake a comprehensive review of current management and protection of the MLR Watershed with a view to developing an agreed vision, targets and responsibilities for its future management by the end of 2010.	2009	2010	DFW	4	Discussions between Department for Water and the Environmental Protection Authority have resulted in a proposal to progress this matter in conjunction with Action 49 and other related matters. The first stage of the consultancy being undertaken for Action 49 will inform the scope of this action. Action Projects 49, 51 & 52 are linked at Steering Committee level to ensure appropriate integration and best use of resources.
52. Require relevant agencies to report annually on how they are meeting the MLR Watershed targets.	2011	Ongoing	Commissioner for Water Security	2	Action Projects 49, 51 & 52 are linked at Steering Committee level to ensure appropriate integration and best use of resources. The committee is also considering the requirement for agencies to report annually on how they are meeting the MLR Watershed targets.
53. Work with the Murray-Darling Basin Authority and other Basin jurisdictions to ensure a healthy, working River Murray that will continue to provide critical human water needs for Greater Adelaide and regional South Australia, irrigation requirements and water for the environment. Specifically, by seeking:	2009	Ongoing	DFW	2	Extensive efforts have gone into working with the Murray-Darling Basin Authority (Authority) and other jurisdictions to progress Murray-Darling Basin reforms. The Department for Water is leading the South Australian Government's input to the development of the proposed Basin Plan. This has included preparing a formal submission in response to the Authority's issues paper: <i>Development of Sustainable Diversion Limits for the Murray-Darling Basin</i> ; and providing advice, data and information about key environmental assets, environmental water requirements, catchment risks, socio-economic issues, water quality and salinity issues, critical human water needs, conveyance water and State water resource plans.

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
<ul style="list-style-type: none"> <li>• a Basin Plan that incorporates appropriate 'end-of system' objectives, targets and actions by returning the River Murray to sustainable levels of extraction</li> <li>• a Basin Plan that establishes a permanent system of environmental flows for the River Murray and Lower Lakes, including management of unregulated flows and salinity</li> <li>• improved arrangements for risk management, storage, delivery of and accounting for water</li> <li>• reviewing and improving river operations, particularly river operating strategies and rules, to ensure more effective, efficient and transparent distribution of South Australia's water entitlement.</li> </ul>					<p>A Guide to the Proposed Basin Plan was released on 8 October 2010, and the Proposed Basin Plan is scheduled be released in 2011. The release of the Proposed Plan will be the trigger for commencing the formal 16-week consultation period. A comprehensive whole-of-government response to the Proposed Plan will be prepared during the formal consultation period.</p> <p>South Australian officials, led by the Department for Water, have worked with the Authority and other jurisdictions to draft new Murray-Darling Basin Agreement schedules to give effect to South Australia's right to carry over and store water for critical human needs, and for private carry-over. Schedules also cover the implementation of a tiered system for water sharing during dry periods. These schedules will help manage the risks associated with future droughts and reduce the need for special water-sharing arrangements to be negotiated on an annual basis. They are well progressed and drafts will be finalised in the near future for adoption by the Murray-Darling Basin Ministerial Council.</p> <p>The Department for Water is also leading South Australia's participation in a review of the Murray-Darling Basin Agreement, to ensure the State's objectives are represented. The review is examining options for improving the management of water resources in the Basin, in particular the operation of the River Murray System, to better meet the challenges of a drier future. The review will continue into 2010-11 but will not impact the timing and development of the Basin Plan.</p> <p>River Murray System Operations are currently being reviewed in a major project being conducted by the MDBA. It seeks to improve river operations through the evolution of better operating strategies, rules, assessments and planning. South Australia has actively participated in the review through representation on the project's modelling taskforce, working group and steering committee. The review will continue in 2010-11.</p> <p>Support has been provided for the Minister for the River Murray and the Chief Executive of the Department for Water to promote and negotiate the State's objectives in relation to the Basin Plan, the Agreement and other River Murray issues through the Murray-Darling Basin Ministerial Council and the Basin Officials Committee, respectively.</p>
<p>54. Complete, on time, the elements of the <i>Murray Futures</i> program designed to sustain, support and reinvigorate communities and industries within the Murray-Darling Basin in South Australia.</p>	Under way	2018	DFW	2	<p>South Australia is successfully implementing the \$610 million Murray Futures program, which has delivered the following outcomes:</p> <p><u>Lower Lakes pipelines</u></p> <ul style="list-style-type: none"> <li>• Irrigation pipelines to Langhorne and Currency Creeks, and potable pipelines to Narrung/Poltalloch, Langhorne Creek and Point Sturt and Hindmarsh Island are now delivering water. Revegetation and weed control programs are ongoing.</li> </ul>



Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					<p><u>Coorong, Lower Lakes and Murray Mouth</u></p> <ul style="list-style-type: none"> <li>The Australian Government has approved projects with a total cost of over \$23 million to mitigate major environmental risks in the region.</li> <li>The long-term plan and business case to access the remainder of the \$200 million allocated for this project is undergoing the Australian Government's due diligence process.</li> </ul> <p><u>Industry renewal</u></p> <ul style="list-style-type: none"> <li>The upgrade and replacement of Woodlane Irrigation infrastructure is complete.</li> <li>The State is awaiting an announcement by the Australian Government of the successful bids for Private Irrigator Infrastructure Program SA (PIIP-SA) funding.</li> </ul> <p><u>Riverine recovery</u></p> <ul style="list-style-type: none"> <li>The business case and integrated plan to access the remaining \$100 million allocated for this project is undergoing the Australian Government's due diligence process.</li> </ul> <p>Pending approval by the Australian Government, South Australia has been negotiating the detail of funding arrangements to deliver early works projects in advance of the projects identified in the integrated plan and business case.</p>
<p>55. Undertake real-time management of environmental issues and potential risks affecting the Lower Lakes.</p>	<p>Under way</p>	<p>Ongoing</p>	<p>DENR</p>	<p>2</p>	<p>The Department of Environment and Natural Resources has released a long-term plan for the Coorong, Lower Lakes and Murray Mouth (CLLMM). This plan aims to secure the region as a healthy, productive and resilient wetland system that maintains its international importance. The context of this work is the Australian Government's commitment of up to \$200 million to secure the region's long-term future.</p> <p>On 4 June 2010, the Australian Government announced it would provide an initial \$21.04 million for projects in the plan associated with early works in the CLLMM region. These early works are under way.</p> <p>The \$10 million Lower Lakes Bioremediation and Revegetation Project, funded by the Australian Government, has been working with local community groups, the Ngarrindjeri Regional Authority and federal and state bodies to address some of the serious environmental issues facing the CLLMM region, including acidification and soil erosion. As part of this project, about 6,000 hectares of exposed lakebed were aerially seeded, 1.1 million sedges hand-planted on the exposed lakebed, and 130,000 native seedlings planted around the Lakes shorelines and connected wetlands.</p>

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					<p>As an emergency response to prevent the impacts of acid sulfate soils, the South Australian Government built two temporary structures to regulate the flow of water and raise water levels. With improved flows and rapidly increasing water levels, the Narrung bund (separating Lake Albert and Lake Alexandrina) was partially breached to restore connectivity between the Lakes. The temporary flow regulator near Clayton was also partially breached to enable water to be released through the Goolwa Barrage, to balance flows through the remaining barrages, and to ensure that the Murray Mouth did not twist or move from a disproportionate barrage release. Full removal of the regulator will not be undertaken until long-term security can be provided to Lake Alexandrina water levels.</p> <p>When disconnection of fish breeding habitats occurred as a result of low water levels, the Goolwa Barrage boat lock was used as a temporary fish passage to provide short-term connectivity to help save the native Congolli from extinction.</p> <p>A concept design has been submitted to the Australian Government for the Meningie Lakefront Habitat Restoration project.</p>
<p>56. Maintain a positive balance on the Murray-Darling Basin Salinity Register, and continue to implement strategies and actions to ensure the real time management of salinity in the lower reaches of the River Murray so that water quality remains at levels suitable for human consumption.</p>	Under way	Ongoing	DFW	2	<p>The Murray-Darling Basin Ministerial Council endorsed Basin Salinity Management Strategy (BSMS) Salinity Registers in November 2009. South Australia remains in positive balance on the registers. Other key achievements include:</p> <ul style="list-style-type: none"> <li>• The completion of a review of Water Quality and Salinity for the River Murray in South Australia. This included identifying options for salinity targets for the lower River Murray.</li> <li>• Completion of a project examining future risk to SA's Salinity Registers entries.</li> <li>• Continuing work on groundwater models to support the annual update of data entries on the BSMS Salinity Registers.</li> <li>• Initiation of a project to quantify the local risk of floodplain salinity to the River Murray and identify specific mitigation strategies that could be driven from within SA to ensure that water quality remains within target levels.</li> <li>• Completion of a 'salinity horizons' project. This broadly quantifies the long-term salinity risk of those actions that will have a salinity effect but are not already included on the salinity registers e.g. climate change, new diversion limits, environmental watering impacts.</li> <li>• The near completion of the project 'How efficient are we?', which documents the historical improvement of water use efficiency in the South Australian Murray-Darling Basin.</li> </ul>

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					<ul style="list-style-type: none"> <li>The near completion of a final report for implementation of Codes of Practice for Pressurised irrigation.</li> </ul> <p>A new draft salinity program has been developed. It covers major action areas over the next three years to enable South Australia to continue to manage the risk of salinity impacts on the River Murray system. Initial consultation with key stakeholders has occurred and feedback incorporated into a revised draft. Further consultation will occur with wider stakeholders before the program is submitted to the Chief Executive for endorsement. In developing the program, some funding gaps have been identified and opportunities to address these are being pursued.</p>
<p><b>57.</b> As a last resort, build a temporary weir at Pomanda Island, to protect the water supply to the 1.2 million people currently receiving it from the River Murray below Lock 1. The temporary weir would only be constructed if inflows remain at critically low levels and agreed triggers for acidification or salinity were activated and cannot otherwise be prevented.</p>	2009  (if required & approved)	2010	SA Water	NA	Increased flows have recently reduced risks to the region, and construction of a weir at Pomanda Island has not been necessary.
<p><b>58.</b> Complete water allocation plans and regulatory review of water allocation plans for key areas in the Mount Lofty Ranges, the Murray-Darling Basin, the South East and Central Adelaide:</p>	Under way	2010	NRM Boards  DFW	4	Will not be achieved by original date set in Water for Good. The date has been revised to 2014, accounting for the processes in each region which are detailed below. The water allocation planning process is being reformed to be more efficient and timely. The legislative amendment to the <i>Natural Resources Management Act 2004</i> , included in the <i>Natural Resources Management (Review) Amendment Bill 2010</i> - to remove the requirement to undertake the concept statement phase of the water planning process was introduced to Parliament in October 2010.
<p><b>- Mount Lofty Ranges</b></p>	Under way	2011	AMLRNRMB&S AMDBNRMB	3	<p>The draft Water Allocation Plan (WAP) for the Western Mount Lofty Ranges was released for community consultation on 13 October 2010. Estimated adoption is mid 2011.</p> <p>The draft WAP for the Eastern Mount Lofty Ranges will be released for community consultation in early 2011 with adoption estimated for mid 2011.</p>
<p><b>- Murray Darling Basin</b></p>	Under way	2014	SAMDBNRMB	3	The WAP for the River Murray Prescribed Watercourse will not be completed until 2014, in part due to the fact that the Murray-Darling Basin Plan will be released in 2011. The Basin Plan will contain the sustainable diversion limits for the SA regions of the Basin and this directly affects the River Murray Prescribed Watercourse WAP plan.

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					<p>The WAP for the Mallee Prescribed Wells Area was released for public consultation in October 2010. Estimated completion date for this plan is mid 2011. Successful negotiations were undertaken during 2010 with the Border Groundwaters Agreement Review Committee on the amendment to permissible annual volumes in the border zones within the Mallee Prescribed Wells Area.</p> <p>Estimated completion of the WAP for the Noora Prescribed Wells Area is mid 2011.</p> <p>Estimated completion of the WAP for the Peake, Roby and Sherlock Prescribed Wells Area is late 2010. Following the recent completion of the statutory public consultation on this plan, the NRM Board is finalising the draft to be provided to the Minister for adoption.</p> <p>The WAP for the Marne and Saunders Prescribed Water Resources Area was adopted on 18 January 2010.</p>
<b>- South East</b>	Under way	2011	SENRMB	3	<p>The amended WAP for the Tatiara Prescribed Wells Area was adopted on 7 June 2010.</p> <p>Estimated completion of the WAP for the Tintinara Coonalpyn Prescribed Wells Area is mid 2011.</p> <p>Estimated completion of the WAP for the Lower Limestone Coast Prescribed Wells Area is first half of 2011. A cross-agency taskforce has been established to develop policy options for this plan, including licensing the impacts of forestry on groundwater.</p>
<b>- Central Adelaide</b>	Under way	2013	AMLRNRMB	3	<p>A single plan will now be developed for the Central Adelaide Prescribed Wells area and the Northern Adelaide Plains Prescribed Wells Area, with expected completion in late 2013. Discussions are under way between the Natural Resources Management Board and the Department for Water regarding scientific and policy input to the plan.</p>
<b>59.</b> Implement SA Water's fire recovery strategy for all reservoirs in the Mount Lofty Ranges catchments.	Under way	Ongoing	SA Water	2	<p>Implementation of SA Water's fire recovery strategy for all Mount Lofty Ranges reservoirs is proceeding well. SA Water has developed a standalone Fire Recovery Manual (Water Quality). This can be applied to all landholdings post-fire, not just the Mount Lofty Ranges. Staff training has been undertaken to ensure effective implementation of the strategy and manual.</p>
<b>60.</b> Bring additional water resources into formal management through prescription and water allocation planning as necessary.	2010	Ongoing	DFW	2	<p>An ongoing process of assessing water resources around the state may need to be prescribed in the near future. The need for prescription is reviewed every six months, consistent with South Australia's Strategic Plan Target 3.9.</p>
<b>61.</b> Continue programs to unbundle water rights across South Australia and remove barriers to trading water entitlements.	Under way	2014	DFW	2	<p>From 1 July 2009, new legislation enabled the unbundling of existing water licences in South Australia. Instead of a single water licence that allows licence holders to take and use water in approved ways, the new system separates these rights and permissions into individual instruments. The main benefit is that the purchase or</p>

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					<p>transfer of water allocations or water access entitlements can occur more quickly and efficiently.</p> <p>This new unbundled system was applied to the River Murray Prescribed Watercourse in September 2009. It has been one of the most significant reforms to the management of South Australia's water resources in the past three decades.</p> <p>In 2009-10, the Department for Water has helped NRM Boards develop:</p> <ul style="list-style-type: none"> <li>• a draft unbundled amended WAP for Noora</li> <li>• draft unbundled policies for the new WAP for Baroota</li> <li>• an unbundled Concept Statement for the Southern Basins/Musgrave Water Allocation Plan</li> <li>• guidelines for water planning in an unbundled environment.</li> </ul> <p>Workshops with the NRM Boards have also been held.</p> <p>Water allocation plans will be unbundled as part of their review and amendment process.</p>
<p><b>62.</b> Work with Bureau of Meteorology to develop a Strategic Water Information Plan.</p>	Under way	2012	DFW	2	<p>The State's 2010 Strategic Water Information and Monitoring Plan (SWIMP) was approved by South Australian Water Information Program Board (SAWIPB). This SWIMP and a series of 'mini-SWIMPs' will be published by the Bureau of Meteorology.</p> <p>South Australian organisations named in the <i>(Commonwealth) Water Regulations 2008</i> prepared mini-SWIMP documents as part of the State's SWIMP. These organisations will update their mini-SWIMPs as input to the State's 2011 SWIMP, which the Board is scheduled to consider by April 2011.</p>
<p><b>63.</b> The Environment Protection Authority will develop environmental values for priority water bodies across the State by 2014.</p>	Under way	2014	EPA	2	<p>Environmental Values (EVs) were developed as part of draft Adelaide Coastal Water Quality Improvement Plan.</p> <p>The Healthy Waters project has identified EVs for surface and groundwaters in the Adelaide and Mount Lofty Ranges Natural Resources Management region. The final report is being circulated for stakeholder comments prior to public consultation later this year.</p> <p>EVs have been agreed for the upper section of Dawesley Creek. These will support decisions on the upgrade of the Bird-in-Hand wastewater treatment plant.</p> <p>EVs for rest of South Australia's Murray-Darling Basin regions are on hold. The next major EV focus for the SA MDB regions will be water quality targets incorporated into the draft Murray Darling Basin Plan.</p>

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					A strategic report on engagement for the SA Natural Resources Management regions has been received by the Environment Protection Authority to guide this action.
<b>Planning</b>					
<b>64.</b> Ensure regional water demand and supply plans are in place for all Natural Resources Management regions throughout the State – in consultation with regional communities, building on existing plans, and incorporating local knowledge by 2014.	2009	2014	DFW	2	Demand and supply statements are being developed for the eight Natural Resource Management Regions of South Australia. Their purpose will be to provide a long-term, 40-year overview, using an adaptive management process that outlines the state and condition of all water resources in the region (drinking water quality and non-drinking water quality). The statements will also list major demands on these water resources and any demand-supply imbalances. The development of the first Regional Demand and Supply Statement for the Eyre Peninsula is progressing well and is due for completion in 2011.
<b>65.</b> Commission or contribute towards the development of a regional demand and supply forecasting model.	2009	2010	DFW	1	The Regional Demand and Supply Model and associated user manual has been completed and is currently being used to simulate the various demand-supply projections for the first Regional Demand and Supply Plan. It has also been used in the annual review of the <i>Water for Good</i> demand-supply projections.
<b>66.</b> Develop and implement a strategy to improve the quality of water provided to remote communities.	2009	2014	DFW	2	The South Australian Government was successful in its bid for Commonwealth funding for the Amata and Mimili remote communities. In Amata, \$3,445,000 in funding has been provided for the fitting out of a new bore and approach mains, a replacement stand for the elevated tank, the metering of existing houses, training courses and a community water conservation program.  In Mimili, \$1,995,000 in funding has been provided for a new reverse osmosis plant to treat groundwater to potable standard, the metering of existing houses, training, and a community water conservation program.  Partner agencies are working with the Commonwealth Department of Environment, Heritage and the Arts to develop an agreed implementation plan for the funding.
<b>67.</b> By 2013, develop and implement the best regulatory approach for South Australia to mandate water-sensitive urban design, dovetailing with the Plan for Greater Adelaide.	2012	Ongoing	DFW	2	Responsibility for water-sensitive urban design has transferred from the Department for Planning and Local Government (DPLG) to the Department for Water. The Department for Water has engaged the Goyder Institute to provide research for the best mechanism to mandate water-sensitive urban design by 2013. The department will consult with stakeholders during 2011.
<b>68.</b> Introduce targets for water-sensitive urban design by 2010.	2009	2010	DFW	5	Responsibility for water-sensitive urban design has transferred from the Department for Planning and Local Government (DPLG) to the Department for Water. The Department for Water has engaged the Goyder Institute to provide research for the best mechanism to mandate water-sensitive urban design by 2013. Engagement

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
					with local government, DPLG and developers will be progressed to mandate water-sensitive urban design.
<b>Fostering Innovation and Efficiency</b>					
69. Work with research institutions and industry to enhance co-ordination of the research effort and improve collaboration to identify priorities and ensure timely delivery.	Under way	Ongoing	DFW	2	<p>Formal approval for the establishment of the Goyder Institute for Water Research was provided by Cabinet during the last quarter of 2009-10. This Institute is established in Adelaide to provide an enhanced science capacity to help secure and manage the State's water supply, while positioning South Australia as a world leader in water innovation and science.</p> <p>The Department for Water continues to collaborate with Flinders University to ensure the success of the National Centre for Groundwater Research and Training. It worked closely with the centre as it confirmed its research projects, and provided logistical and planning support to establish a Super Science Site in the McLaren Vale area for intensive field research into groundwater hydrology.</p> <p>The NRM Research Alliance has terminated and will re-establish in the Department of Environment and Natural Resources as a program to facilitate collaboration between funding partners for NRM investment and research purposes.</p> <p>South Australia is also participating in the Monash University Research Program "Cities as Water Supply Catchments". This \$20 million research program is designed to harness the potential of stormwater to overcome water shortages, reduce urban temperatures, and improve the landscape and liveability of Australian cities. Several potential demonstration sites have been nominated for the project, including the Bowden Urban Village on the former Clipsal site and the Lochiel Park Green Village development under construction at Campbelltown.</p>
<b>Pricing and Market Instruments</b>					
70. Appoint ESCOSA as the independent economic regulator for monopoly suppliers of urban and regional water and wastewater services in South Australia. This will apply to SA Water's potable water and wastewater services in the first instance.	2009	2010	DTF	3	<p>This is being undertaken as a part of the broader suite of work for independent economic regulation of the water industry being conducted by the Department of Treasury and Finance, in consultation with partner agencies.</p> <p>Consultation with ESCOSA on implementation issues has begun.</p>
71. Initiate a transition to a single potable water use price for SA Water's non-residential customers.	2011	2016	ESCOSA	2	The path towards the implementation of this action is covered in the Department of Treasury and Finance's overarching Project Business Plan.

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
72. In consultation with customers and over a period of five years, transition SA Water customers to water supply charges based on the number and size of the customer's meters while managing any unreasonable impacts for individual customers.	2011	2016	ESCOSA	2	The path towards the implementation of this action is covered in the Department of Treasury and Finance's overarching Project Business Plan.
73. Request the independent regulator, in the medium term, to examine price structures that may benefit economic efficiency and water security.	2015	2020	DTF	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.
74. Develop State-based recycled water pricing principles to ensure competitive pricing of these emerging water sources.	2010	2011	DFW	2	The National Water Initiative recycled water pricing principles were approved by the Natural Resource Management Ministerial Council on 23 April 2010. Developing state-based recycled water pricing principles will be developed in accordance with the economic regulation project.
75. Set water and wastewater prices to encourage economically efficient use and continue to support low-income households through transparent, targeted concessions schemes.	2010	Ongoing	DTF	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.  These matters are currently considered as part of the Government's annual pricing decision.
76. Require the independent regulator to monitor and report on the effect of statewide pricing.	2011	Ongoing	ESCOSA	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.
77. Maintain government ownership of SA Water and develop a State-based third-party access regime that allows water and wastewater suppliers to access monopoly water and wastewater infrastructure. Any such access will require licensing to ensure protection of public interest, public health and the environment.	2010	2015	DTF	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.



Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
78. Explore the merits of innovative and competitive arrangements, in the medium term, which could allow for competition in the supply of bulk water, recycled water and retail services to customers, while retaining government ownership of the public water supply infrastructure.			DTF	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.
79. Continue to move potable water use prices for all SA Water customers towards cost-reflective prices.	Under way	Ongoing	DTF	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.  These matters are currently considered as part of the Government's annual pricing decision.
80. Bill SA Water customers for consumption on a quarterly basis to provide more timely information regarding water use.	2009	Ongoing	SA Water	1	Complete. Legislation to implement quarterly water use billing was approved by Parliament in June 2009 and SA Water began issuing quarterly bills on 1 July 2009.
81. Identify the costs of providing water-planning management in South Australia, introduce a water planning and management cost-recovery framework, and set charges in accordance with it from 2011-12.	Under way	2012	DFW	2	On 23 April 2010 the Natural Resource Management Ministerial Council endorsed the National Water Initiative pricing principles. In South Australia, work commenced to identify water planning and management activities across State agencies, and to develop a planning and management cost recovery framework for South Australia.
82. Continue to support regional communities using SA Water's networks through the application of statewide pricing, and report costs transparently in the State Budget.	Under way	Ongoing	DTF	2	This is being undertaken as a part of the broader independent economic regulation suite of work being conducted by the Department of Treasury and Finance, in consultation with partner agencies.  These matters are currently considered as part of the Government's annual pricing decision.
<b>Legislative and Regulatory Changes</b>					
83. Release a discussion paper for consultation during 2009 outlining proposed new legislation; introduce new legislation in 2010.	2009	2010	DFW	3	A <i>Water Industry Act</i> discussion paper was released in late 2009. 36 submissions were received.  In August 2010, Cabinet endorsed a submission for the drafting of the new legislation. The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
84. Work with the LGA to review and update the governance of the Stormwater Management Authority to ensure that appropriate emphasis is given to stormwater harvesting and reuse.	2009	2009	DFW	3	<p>Although the review was completed within the action timeframe, further work is required to complete the action. The South Australian Government and the Local Government Association worked together to review the governance of the Stormwater Management Authority and their document was released for targeted consultation on 30 September 2010.</p> <p>The consultant who conducted the review recommended that a final decision on the role of the Stormwater Management Authority, with respect to harvesting and reuse, be considered as part of the review and update of the Stormwater Management Agreement (Action 14 ). The review was noted by Cabinet in September 2010 and is due to be released by late 2010. The next step will be a review of the Stormwater Management Agreement.</p>
85. Introduce legislative amendments to remove any prohibition on SA Water proactively taking a role in stormwater reuse.	2010	2010	DFW	3	In August 2010, Cabinet endorsed a submission for the drafting of the new legislation. The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.
86. Give explicit statutory recognition to an Environmental Water Reserve through the <i>Natural Resources Management Act 2004</i> .	2010	2010	DFW	3	<p>The Department for Water has investigated models for statutory and governance arrangements for an environmental water reserve and environmental water, and is making recommendations to the Minister for Water for a South Australian model.</p> <p>Following endorsement of the recommendations by the Minister, drafting instructions will be developed for the necessary amendments to the <i>Natural Resources Management Act 2004</i>, to give explicit recognition to an Environmental Water Reserve.</p>
87. Provide definitions for the various types of wastewater, and certainty as to ownership.	2010	2010	DFW	3	<p>Definitions on types of water (including wastewater) will be developed for the <i>Water Industry Act</i> (Action 83). The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011. Certainty as to ownership issues should be undertaken in conjunction with the following:</p> <ul style="list-style-type: none"> <li>• Stormwater Management Agreement Review (led by the Department for Water),</li> <li>• A review of the State's Drainage Acts (led by SA Water). Access regulation project (led by the Department of Treasury and Finance)</li> </ul>
88. Ensure excellent service and fair treatment through independent and transparent customer consultation, complaints processes and the establishment	2010	2010	DFW	3	<p>Under way as a part of Action 83 – <i>Water Industry Act</i>.</p> <p>A range of policy positions relevant to this action were endorsed by Cabinet in August 2010, including the establishment Consumer Advisory Committee and a water industry ombudsman. The draft <i>Water Industry Bill</i></p>

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
of a Customer Advocacy and Advisory Council.					will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.
<b>89.</b> Give statutory force to water demand and supply plans and outline how these will be developed, implemented, reviewed and maintained.	2010	2010	DFW	3	Under way as a part of Action 83 – <i>Water Industry Act</i> .  A range of policy positions relevant to this action were endorsed by Cabinet in August 2010, e.g. the creation of demand and supply statements and the introduction of service regulation. The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.
<b>90.</b> Give explicit statutory recognition to the concept of managing the water cycle and of water security.	2010	2010	DFW	3	Under way as a part of Action 83 – <i>Water Industry Act</i> .  A range of policy positions relevant to this action were endorsed by Cabinet in August 2010, e.g. the creation of demand and supply statements. The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.
<b>91.</b> Strengthen existing assurance of water planning and service delivery.	2010	2010	DFW	3	Under way as a part of Action 83 – <i>Water Industry Act</i> .  A range of policy positions relevant to this action were endorsed by Cabinet in August 2010, e.g. the creation of demand and supply statements and the introduction of service regulation. The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.
<b>92.</b> Develop new legislation to ensure best practice water quality standards are maintained as water supply becomes increasingly diversified.	2010	2010	DoH	3	The draft <i>Safe Drinking Water Bill</i> aims to ensure the delivery of safe drinking water by providing clear direction to providers on how safety can be achieved and measured. The proposed requirements of the Bill were supported by a range of stakeholders following the release of a discussion paper in June 2009. Comments were considered during the drafting of the Bill, which was released for consultation in conjunction with an Explanatory Paper in July 2010. It is proposed that the new legislation be introduced in early 2011 with a transitional stage of up to 12 months.
<b>93.</b> Provide for independent technical regulation of plumbing standards and practices.	2010	2010	DFW	3	The roles and functions of the Technical Regulator were endorsed by Cabinet in August 2010. Technical regulation is included in the <i>Water Industry Act</i> . The draft <i>Water Industry Bill</i> will be tabled in Parliament in November 2010 to enable further consultation to occur. The Bill will then be debated in Parliament in 2011.  The Technical Regulator for Plumbing Specialist Group will continue to work on the transition to the new arrangements, and explore the medium to long term roles and functions of the Technical Regulator.

Actions	Start Date	End Date	Lead Agency	Overall Performance	Comments on Overall Performance
<p><b>94.</b> Continue to support world-leading research to assess the potential for treating stormwater to a very high quality and monitor future scientific developments and technological innovations. However, we do not intend to feed recycled water directly into the mains water system.</p>	Under way	Ongoing	DFW	2	<p>The South Australian Government agreed to support the five-year Cities as Water Supply Catchments research program led by Monash University. South Australia hosted the research program workshop in Adelaide from 30 June to 2 July 2010. The Minister for Water launched the program in South Australia on 1 July 2010.</p> <p>In 2009, the CSIRO completed initial research into the potential to treat stormwater injected into an aquifer to a relatively high quality. This research was supported by the South Australian Government.</p> <p>Further research was recently announced for the assessment of further options for stormwater use. A Stormwater Strategy is also being prepared by the Department for Water as a separate initiative. It will include consideration of stormwater research. A Taskforce to assist in the development of this strategy has been established.</p>