

Australian Water Recycling  
Centre of Excellence



Annual Report 2009/10

Australian Water Recycling  
Centre of Excellence 

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**Australian Government**

**Water for the Future**

The Australian Government is providing \$20 million of funding to the Australian Water Recycling Centre of Excellence through its Water for the Future initiative, an investment to help Australia meet the challenges of our drying climate and rising demand for water.

A vertical photograph of water splashing, with bubbles and droplets, set against a light blue background. The water is captured in mid-air, creating a dynamic and refreshing visual. The splash is centered vertically and horizontally on the left side of the page.

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Groundwater Replenishment Trial, WA  
(courtesy of WA Water Corporation)



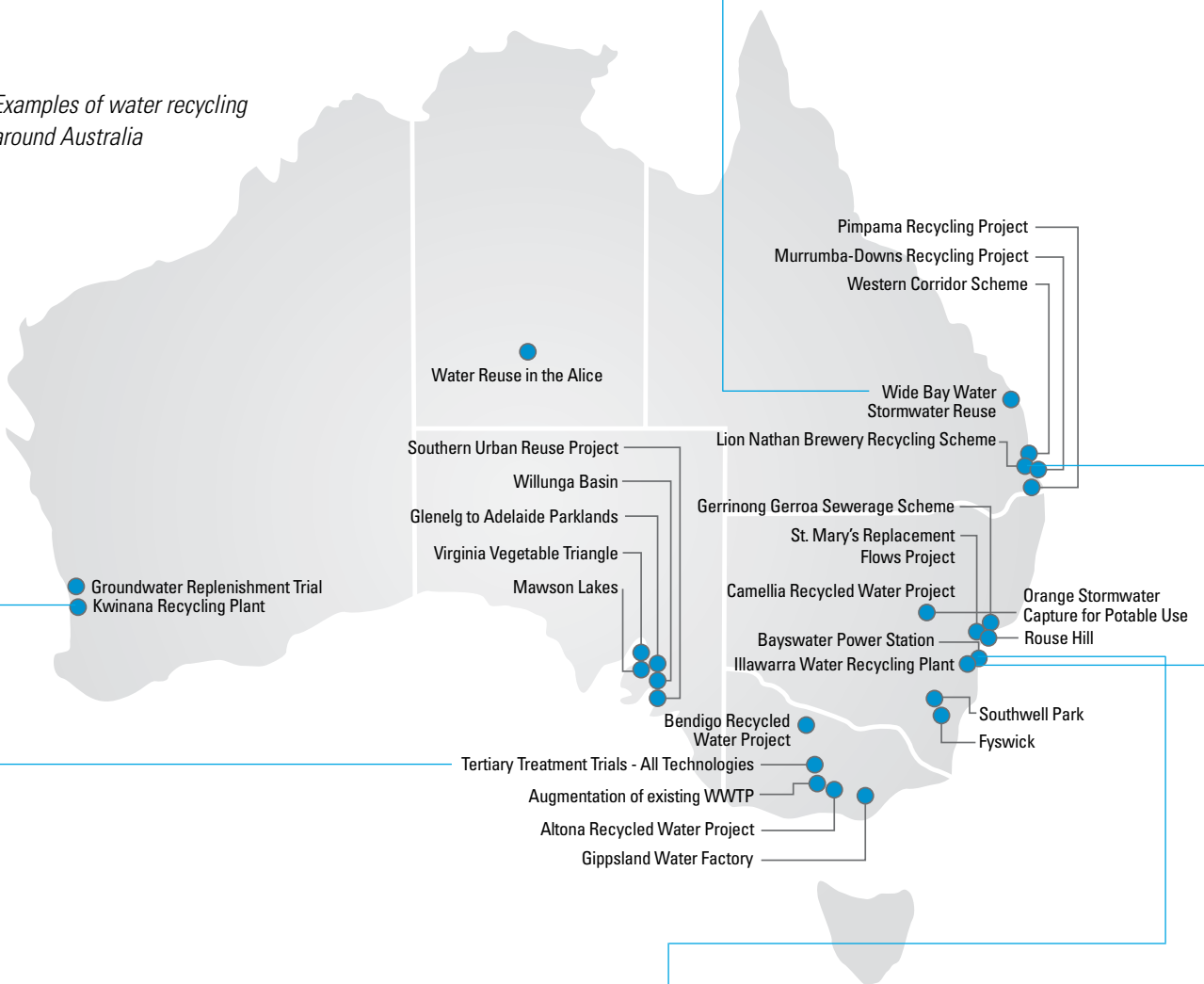
WetSide Water Education Park, QLD  
(courtesy of Wide Bay Water)



Lion Nathan Brewery, QLD  
(courtesy of GHD)



Examples of water recycling around Australia



Eastern Treatment Plant Recycling Trials, VIC  
(courtesy of Melbourne Water)



North Head Recycling Scheme, NSW  
(courtesy of Sydney Water)



Woollongong irrigation with reclaimed water, NSW  
(courtesy of Sydney Water)

# From the Chair and CEO

Welcome to the first annual report for the Australian Water Recycling Centre of Excellence.

Australia's water future offers communities the opportunity to develop a portfolio of water sources and types. This portfolio will comprise waters of varying quality, cost and security, and the portfolio will be managed to achieve the greatest social, economic and environmental benefit for our urban, regional and rural communities.

Water recycling has a substantive and important contribution to make to this water portfolio, and while water recycling has been occurring in Australia for many years, the scale of opportunities for recycling schemes is now growing.

Currently around Australia we see a range of significant and exciting water recycling initiatives, including industrial reuse at the Gippsland Water Factory, environmental flow substitution using reclaimed water in NSW, stormwater reuse in South Australia and regional NSW, trials of indirect potable reuse about to begin in Western Australia and, over 30 gigaliters of water successfully recycled by the Western Corridor Scheme in South East Queensland.

These projects and others are leading to greater industry interest in optimising water recycling approaches, enhanced community awareness of the opportunities and challenges, and increasing complexity for the planning and regulatory authorities responsible for developing and guiding our water futures.

It is quite clear that now is an exciting and appropriate time to establish a National Centre of Excellence to help the water industry address some of these interests, opportunities and challenges.

To meet these objectives, during its first six months of operations the Centre has established a new company and recruited key staff, embarked upon a national and international consultation process focused on building the Centre's profile and engaging potential project partners, and

developed a strategic research plan to guide our research investment. Further details of the Centre's activities can be found elsewhere in this report.

In achieving these and other outcomes we would like to recognise and thank the Commonwealth Government, the Centre's Board, our founding participants - WaterSecure, Veolia, GHD, CSIRO, UNSW, UQ and Griffith University.

We would especially like to acknowledge the contributions of the Research Advisory Committee members and its Independent Chair, Ian Law, for their commitment and contributions to establishing the Centre's strategic research directions.

Through the financial and intellectual support of these organisations and individuals we have established the platform for a world-class organisation. It's exciting and encouraging to see such a wealth of water expertise within the Centre, and the enthusiasm and interest of the water recycling practitioners for the Centre and its operations.

With the support of our Centre partners and the industry as a whole, the Centre is now well established, and over the next year is well positioned to initiate an investment program that will enhance the efficiency, expansion and acceptance of water recycling in Australia.



**David Gray**  
Chairman



**Dr. Mark O'Donohue**  
CEO



*“The Australian Water Recycling Centre of Excellence will provide national and global leadership in recycling technology...”*

**Senator the Hon Penny Wong**  
Minister for Climate Change and Water  
24 March 2010



**Lion Nathan Brewery, QLD**

Through the implementation of a water recycling plant, Castlemaine Perkins has reduced water consumption from 9.5 to 2.3L per litre of beer. *(image courtesy of GHD)*

# About the Centre

On 24 June 2009, Senator the Hon Penny Wong, Minister for Climate Change and Water announced that \$20 million of Commonwealth funds would be made available under the National Urban Water & Desalination Plan for the establishment of the National Centre of Excellence in Water Recycling, to be located in Brisbane. After evaluating the proposals the Commonwealth awarded the funding for this centre to Western Corridor Recycled Water Pty Ltd, a subsidiary of WaterSecure, owner of the largest water recycling scheme in the Southern Hemisphere.

Since the announcement, WaterSecure and its foundation participants, the University of Queensland, Griffith University, the Commonwealth Scientific and Industrial Research Organisation (CSIRO), the University of NSW, GHD Pty Ltd and Veolia Water Australia, have collaborated to establish the Centre. This included the establishment of Australian Water Recycling Centre of Excellence Limited, a wholly-owned, not-for-profit subsidiary of WaterSecure, limited by guarantee.

While based in Brisbane, the Centre is a National Centre of Excellence, and it will invest in the full spectrum of water recycling opportunities in metropolitan and regional communities, including water recycling for agricultural, industrial, environmental, potable substitution and indirect potable use.

The Centre's principal role will be to enhance the management and use of water recycling through industry and research partnerships. We will be keen to leverage our research

**Vision:** The Centre is recognised as a world leader in research and promotion of sustainable water recycling

investment, partnering in industry relevant research with national and international water associations, leading water utilities, water companies, government agencies and research institutions.

The Centre will also seek to enhance capacity in the water recycling sector by providing research support and training opportunities for students, researchers and industry. The Centre of Excellence will be an advocate for water recycling – using our research program to explore and promote the opportunities for increased use and application of water recycling around Australia.

Alongside existing national water associations such as WSAA, AWA, and in collaboration with existing research initiatives such as Water Quality Research Australia, our sister Centre of Excellence for Desalination in Perth, and state-based research programs, this Centre will also seek to play a role in coordinating existing urban water research investment in Australia.

**Mission:** To enhance management and use of water recycling through industry and research partnerships, build capacity and capability within the recycled water industry, and promote water recycling as a socially, environmentally and economically sustainable option for future water security



In Hervey Bay, Queensland, **Wide Bay Water** reused 90% of the volume effluent from its Sewage Treatment Plants in 2009/2010. 61% of this water, or 2,058ML, was used to irrigate 410ha of Eucalypt plantations. *(image courtesy of Wide Bay Water)*

## Our Values

**Leadership** – undertaking and promoting leadership of the water recycling research agenda in Australia;

**Efficiency** – seeking and promoting enhanced efficiency and innovation within water recycling industry and research in Australia;

**Education** – building the skills and technical capacity and capability within utility, regulator, private industry and research organisations;

**Communication** – understanding and communicating the benefits of considering the full range of water recycling opportunities for future water needs.

# About the Centre

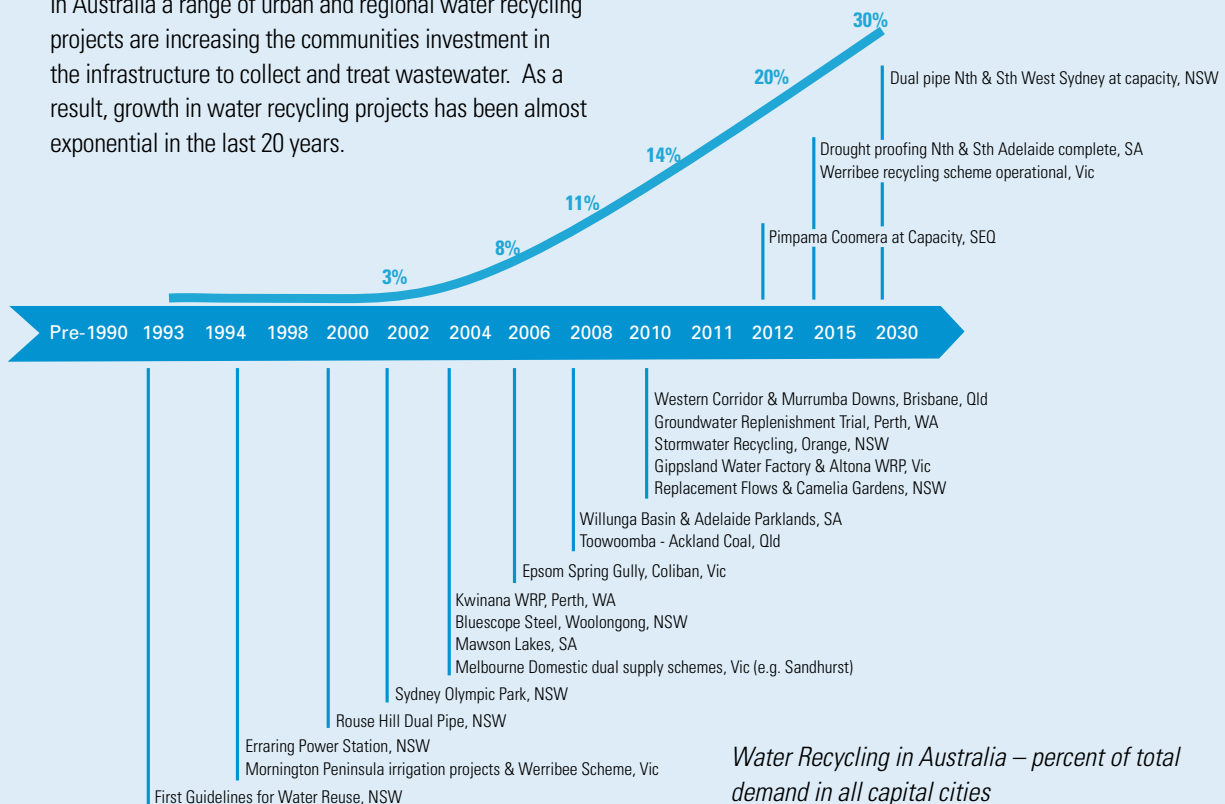
The funding agreement between the Commonwealth and the Centre outlines a number of objectives including research, commercialisation, capacity building and promotion. The Australian Government, through its Water for the Future initiative, is the principle financial sponsor of the Centre of Excellence.

## Australian Government Objectives

The Australian Government's objectives for the Centre are for it to help secure Australia's water supply by:

1. Providing leadership in accelerating ground-breaking research on energy efficient water recycling technology for water supply being developed in Australia, including:
  - a. Investigating ways of optimising and adapting water recycling technology for use in Australia's unique circumstances;
  - b. Expanding on research into the use of water recycling technology in rural and regional areas; and
- c. Researching ways of efficiently and affordably reducing the carbon footprint of water recycling facilities and technologies;
2. Providing facilities to researchers and industry to support the development of new technologies and practices including pilot test facilities;
3. Commercialising the resultant new water recycling technologies, including patenting and promoting the uptake of new or improved water recycling technologies both within Australia and internationally.

In Australia a range of urban and regional water recycling projects are increasing the communities investment in the infrastructure to collect and treat wastewater. As a result, growth in water recycling projects has been almost exponential in the last 20 years.



# Our People



**Dr. Mark O'Donohue**  
CEO

Mark is a researcher with a strong background in developing science policy partnerships for urban and environmental water. Prior to joining the Centre, he was the Director of Environmental Water Policy for the Department of Environment, Water, Heritage and the Arts in Canberra. Mark has also undertaken and directed research initiatives while working with the CSIRO, University of Queensland and Monash University, and has been an executive manager with a water utility.



**Sarah Haydon**  
Manager Research & Commercialisation

Sarah brings with her more than 20 years research and technical experience in a range of industries in the UK, New Zealand and Australia having worked in a number of scientific and key business development roles. Most recently, Sarah was the Business Development Manager for Food and Nutritional Services at CSIRO.



**Ron Wilson**  
Company Secretary

Ron draws on extensive and varied commercial experience in the public and private sector including commercial negotiations, contract management, corporate governance and compliance systems, and board and corporate secretarial practices. Ron has worked in the water industry for the past three years.

## WaterSecure support

WaterSecure have committed to hosting the Centre of Excellence and have provided inkind financial, human resource, accommodation, communication and legal/administrative support during the establishment phase of the Centre.

**Western Sydney replacement flows, NSW**

Tertiary wastewater from three inland sewerage treatment plants is treated at St Marys Advanced Water Treatment Plant and piped to Boundary Creek at Penrith to substitute for upstream dam water released to the Hawkesbury-Nepean River.



Highly treated reclaimed water discharging at Boundary Creek, NSW. *(image courtesy of Sydney Water)*





David Gray, Scott Standen, Stephen Golding, David McDougall, Mark Pascoe

## Our Board

### David Gray (Chair)

David has significant commercial expertise having held a number of senior management positions including Managing Director at Boeing Australia, Chief Executive Officer of GEC Heavy Engineering and General Manager of telecommunications company Exicom.

Recognised with the Centenary Medal for services to the Aviation Industry, David was also awarded an Honorary Doctorate from Queensland University of Technology.

### Scott Standen

Scott is a partner at Hynes Lawyers, specialising in corporate law. He has extensive experience in corporate advisory, corporate governance, capital markets transactions and mergers and acquisitions.

With a Masters of Business Administration and a Master of Laws, Scott brings a unique legal and commercial

perspective to business issues.

Scott has been admitted as a solicitor in the Supreme Courts of Victoria and Queensland and the Australian High Court. Scott is also a member of the Queensland Law Society and the Australian Institute of Company Directors (AICD).

### Stephen Golding

Stephen's extensive career at the Department of Main Roads included joining as an engineer in 1967 and retiring as Director-General in 2005.

Paralleling this career, Stephen also enlisted as a private soldier in the Army Reserve in 1963 and retired in 1998 as a major general. He has received a number of awards for his outstanding service to the Army including a Member of the Order of Australia, the Queen's Silver Jubilee Medal, the Centenary Medal, the Reserve Forces Decoration, the National Medal and the Australian Defence Medal.



*Australian Water Recycling Centre of Excellence organisation structure*

Stephen is a Fellow of four professional associations and a Graduate Member of the Australian Institute of Company Directors. Stephen's current responsibilities include being a Director of North Queensland Bulk Ports Corporation Ltd and the independent Chair of Transport Certification Australia Ltd. He has Bachelor degrees in Engineering and Economics, a Master's degree in Engineering Science and is a Chartered Professional Engineer.

### David McDougall

David has more than 30 years experience in project and structured finance, mergers and acquisitions, valuations, capital raising and providing strategic advice to governments and corporations. David's work as a partner of KPMG and a director of KPMG Corporate Finance and a director of a major Australian investment bank, has assisted in skilling him in the areas of domestic and international corporate finance, strategy and structure.

With a Masters of Business Administration, David has experience across a range of industries, including natural

resources, transport, utilities, telecommunications, property, tourism and leisure. David's significant experience in the natural resources sector includes work for SA Water, CS Energy, Tarong Energy, and Singapore Power.

### Mark Pascoe

Mark has more than 35 years experience in the water industry, including his current role as CEO of the International WaterCentre - the business centre for building international capacity in integrated water management.

Mark's career history also includes working for Brisbane City Council, environmental engineering consultancy Woodward-Clyde, and the International Water Association in London. He is a former president of the Australian Water Association, a director of Healthy Waterways Limited and is currently involved as an advisory board member of a number of water research groups, indicating his renowned water industry expertise.



# Our Research Advisory Committee



**Ian Law**  
Independent Chair -  
Research Advisory Committee

Water recycling is playing a significant role in the diversification of our nation's water supplies and we have seen tremendous growth in its application over the past years. There is still much to be done, however if we are to reap the full benefit of this option for water management into the future; particularly with the expected growth in our nation's population. Much of what we will achieve in Australia will also be of interest to water managers in countries overseas and it is thus timely that we now have an Australian Water Recycling Centre of Excellence to promote and harness our research efforts in a truly national way.

The start-up phase of any operation is intensive and this one has been no different. I would especially like to thank all the

members of the Research Advisory Committee (RAC) who worked tirelessly to develop the four research themes that were identified in discussion papers released at the Centre's launch in March and then to assist in the production of the Centre's Strategic Research Plan (SRP) that was approved by the Board in June.

I would also like to acknowledge the valuable feedback the RAC received from water industry practitioners in both metropolitan and regional Australia during the period leading up to the production of the Strategic Research Plan; it was this feedback that the RAC used to develop the four Goals that will be used to focus our research efforts over the coming years.

## RAC participants



**Alan Gregory**  
Commonwealth Scientific and Industrial Research Organisation (CSIRO)

CSIRO is Australia's national science agency and one of the largest and most diverse research agencies in the world. Its research activities reflect national and international priorities. The Water for a Healthy Country Flagship is its national research program addressing one of Australia's most pressing natural resource issues – sustainable management of our water resources. The Flagship's Urban Water Theme is conducting research to ensure Australian cities can meet the demands that climate change and population growth will place on our limited water resources. As the country's largest urban water research program, it aims to identify and develop emerging technologies for water recycling and to enhance our knowledge about the protection and restoration of water quality.



**Warren Traves**  
GHD

GHD Pty Ltd is an international professional services company with extensive and current experience in the Australian and international water sector. GHD was established in Australia in 1928 and today is ranked in the world's top 30 engineering and architecture companies. The company was one of the major Alliance partners in the construction of the Western Corridor Recycled Water Scheme in Queensland. Other major water industry projects include the Australian Water Industry Roadmap and desalination projects in Sydney, Melbourne, Adelaide and the Gold Coast.



**Larry Little**  
Griffith University - Smart Water Research Centre

Griffith University is a leader in water sustainability research through its \$18 million state-of-the-art Smart Water Research Centre at its Gold Coast campus. The facility has enhanced research into sustainable water supplies, safeguarding water quality and exploring alternative water sources. Its research program brings together experts from Griffith and other research institutions, water supply authorities and water technology companies. This facility demonstrates extensive cooperation across education, industry and government.





**Prof. Jurg Keller**

**The University of Queensland – Advanced Water Management Centre**

The University of Queensland, through its Advanced Water Management Centre (AWMC), has over 15 years of experience in water research. The Advanced Water Management Centre is a world leader in innovative water technology and management with leading expertise in education, research and consulting. The Advanced Water Management Centre's capacity was further enhanced in 2008 when Veolia Water Australia and WaterSecure, together with The University of Queensland, initiated a \$2.5 million investment to establish a Water Recycling Research Program, believed to be the first of its kind in Australia.



**Yvan Poussade**

**Veolia Water Australia**

Veolia Water is the world leader in water services and specialises in the management of water and wastewater services. In Australia and New Zealand, Veolia Water has 23 long term contracts, over 30 water and wastewater treatment plants and it manages \$11.7 billion of water assets. In Australia alone, Veolia Water has designed and built or is operating water recycling schemes including the Western Corridor Recycled Water Project in Queensland, the Kwinana Water Reclamation Scheme in Western Australia, the Rosehill Recycled Water Scheme in western Sydney and the Gerringong Gerroa Sewerage Scheme on the south coast of New South Wales.



**Assoc. Prof. Greg Leslie**

**University of New South Wales – Centre for Water and Waste Technology, UNESCO Centre for Membrane Science and Technology**

The University of New South Wales provides expertise in the area of water recycling through the Water and Waste Technology Centre (WRC) and the UNESCO Centre for Membrane Science and Technology. WRC is an international leading University Centre that provides multidisciplinary research in water resources, engineering, management and the development of tools for environmental management, risk assessment and sustainability. The UNESCO Centre for Membrane Science is an international centre engaged in basic and applied research on membrane separations for the treatment of gases and liquids in water, energy, food processing and biomedical applications.



**Dr. Cedric Robillot**

**WaterSecure**

WaterSecure is a sustainable water business providing new water sources for South East Queensland and it hosts the Australian Water Recycling Centre of Excellence Limited. As the owner of Australia's largest recycled water scheme, the \$2.4 billion Western Corridor Recycled Water Scheme, WaterSecure led the bid to host the Centre in 2009, capitalising on the significant expertise which it had developed in this field. As at 30th June, WaterSecure has already produced more than 36 billion litres of purified recycled water, reduced phosphorus in the region's major waterways by more than 90 percent and has eased pressure on the region's potable water supplies by providing an alternative water source for the Swanbank and Tarong Power Stations.



# Strategic Research Plan 2010







The Australian Water Recycling Centre of Excellence has finalised its inaugural Strategic Research Plan – the document which will guide the investment strategy for more than \$20 million in research funding.

In developing the Centre's Strategic Research Plan, the CEO and Research Advisory Committee (RAC) worked with industry and research practitioners to identify water recycling research gaps, prior to the Centre establishing its directions and goals for the next three years.

Development of the plan began with the release of discussion papers summarising gaps in the current body of research and identifying potentially relevant research topics. Comments were sought from the water recycling community in Australia and overseas, and the CEO Mark O'Donohue and RAC Chair, Ian Law held a series of workshops across Australia involving utilities, regulators, industry and researchers. The aim of the workshops was to identify research topics seen as the highest priority and to establish industry relevant goals to guide the Centre's investment.

Through a collaborative process, the Centre has identified four goals which would enhance efficiency, expansion and acceptance of water recycling in Australia:

-  Goal 1: The social/economic/environmental value of water recycling is demonstrated and enhanced.
-  Goal 2: A national validation framework for water recycling is established.
-  Goal 3: Reclaimed water is seen as an acceptable 'alternative water' for augmenting drinking water supplies.
-  Goal 4: A national knowledge, training and education program for water recycling is established.

These four goals will focus the research undertaken by the Centre and guide its funding allocations.

In addition to the four goals, the Strategic Research Plan also outlines the status of water recycling development in Australia and overseas, recognises the challenges associated with the continuing development of water recycling and outlines how the themes and goals will guide the Centre's investment

portfolio to help meet these challenges.

The Plan will be available on the Centre's website and reviewed annually.

For a copy of the Australian Water Recycling Centre of Excellence's Strategic Research Plan visit [www.australianwaterrecycling.com.au](http://www.australianwaterrecycling.com.au).

*"The Centre's Strategic Research Plan is the product of extensive consultation with the water industry to establish industry relevant goals, and involved significant contributions from the members of our Research Advisory Committee."*

**Ian Law**  
Research Advisory Committee Chair

## Aligning research topics and goals

The Strategic Research Plan (SRP) identifies a range of research topics and four industry relevant goals that the Centre is committed to helping achieve. The Centre will seek proposals from industry and research organisations that are designed to address the research gaps and help deliver on the goals.

The Centre’s Research Advisory Committee will use the SRP to guide its recommendations on investment priorities to the

Board. In doing so, the Research Advisory Committee will seek to ensure that proposals are aligned with the SRP and that research topics are structured and prioritised to help achieve the goals.

The following figure aligns the priority research topics presented in the SRP with the goals, and provides an indication of how the research gaps and goals may relate.

Research Topics	Goal 1	Goal 2	Goal 3	Goal 4
4.1.1 Management of salts and saline effluents	■			
4.1.2 Improve online monitoring		■	■	
4.1.3 Optimisation of existing process technologies	■			
4.1.4 Optimal integration of water sources, users and technologies			■	■
4.1.5 Novel innovative technologies for water recycling	■			■
4.2.1 Chemicals and transformation products		■		
4.2.2 Mixture toxicity		■	■	
4.2.3 Low concentrations, long-term exposure and safety assessment	■	■	■	
4.2.4 Variable expouser as a consequence of hazardous events		■		■
4.2.5 Pathogens – selection, measurement and validation		■		■
4.2.6 Risk allocation		■	■	
4.2.7 Practical implementation of the <i>Australian Guidelines for Water Recycling</i>		■		
4.2.8 Monitoring and risk		■	■	
4.2.9 Knowledge management and a consistent approach to implementation	■	■		■
4.3.1 Economics of water recycling	■			
4.3.2 Institutions and governance			■	
4.3.3 Social research into water recycling			■	
4.4.1 Knowledge management and life cycle assessment	■			■
4.4.2 Targeted technology to reduce carbon footprint	■			■

**Footnote:**

The matrix does not prescribe how projects should address the goals, and projects will be required to demonstrate how their project proposals will integrate a range of research topics to help achieve the goals.



# Key Milestones 2009/10

In accordance with the agreement between the Commonwealth of Australia and the Australian Water Recycling Centre of Excellence Ltd, funding for the National Centre of Excellence in Water Recycling will be provided

by the Commonwealth subject to the completion of key milestones. During its first six months of operations, the Centre has fully met the requirements of the Commonwealth, and a summary of key achievements is provided below.

## Centre establishment and governance

One of the first milestones was the establishment of a Centre of Excellence. The Australian Water Recycling Centre of Excellence Limited, a not-for-profit subsidiary of WaterSecure, has been established to act as the Administering Organisation for the Centre, and appropriate governance structures and processes have been implemented to guide the entity.

Over the last six months the Centre has:

- Recruited and established the Board of Directors
- Developed the constitution and Board Charter
- Signed the funding agreement with the Commonwealth Government
- Established financial and accounting systems for Centre operations
- Established the Centre offices and operational requirements

## Recruitment of key personnel

The funding proposal for the Centre of Excellence identified a number of key positions for the Centre – the CEO who has overall responsibility for the performance and operation of the Centre, the Research and Commercialisation Manager who monitors the progress of research projects and manage the commercialisation of project intellectual property, and the Company Secretary who supports the Board and CEO in developing and maintaining appropriate governance arrangements.

The other position of crucial importance to the success of the Centre, is the independent Chair of the Research Advisory Committee. The Research Advisory Committee Chair will work closely with the CEO and Research and Commercialisation Manager to ensure that the research and investment strategy supports the Centre's overall objectives.

The biographies for these key positions are provided earlier in this report.

## Stakeholder engagement and communications

Broad engagement with the water industry and the research sector both nationally and internationally is crucial to the success of the Centre, ensuring that it attracts quality research proposals and the support of industry partners.

During the 2009/2010 financial year, the Centre developed and implemented a stakeholder engagement strategy to enable the Centre to begin to build the strong relationships required to forge new, positive alliances with partners, researchers, investors and other research fund managers.

### In 2009/10 the Centre

- Undertook a high profile public launch
- Began building a database of organisations and individuals interested in Centre activities and its program of research investment
- Developed communication protocols with the Commonwealth Government and Centre participants
- Developed a website and corporate identity for the Centre

## Strategic Research Plan

During the first six months of Centre operations, the primary focus of the Research Advisory Committee (RAC) was to develop a Strategic Research Plan to position the Centre to make sound research investments which reflect national and international priorities in water recycling.

In order to achieve this, RAC members engaged broadly within the water industry and the research sector to understand the scope and scale of current research and to determine industry needs.

The Chair of the RAC presented the Centre's first Strategic Research Plan to the Board in June 2010. The Board endorsed the plan and requested that it be released to the broader water recycling sector. The Strategic Research Plan is available on the Centre's website at [www.australianwaterrecycling.com.au](http://www.australianwaterrecycling.com.au).

## Centre reporting

The Centre successfully completed its two main reporting obligations to the Commonwealth in 2009/10. The first document was an Interim Progress Report which charted the Centre's progress against its Board-approved Work Plan. The second document was a detailed 2010/11 Work Plan and Budget outlining the milestones and investment profiles the Centre expects to achieve over the next 12 months.

## Looking forward - 2010/11

Moving forward into the 2010/11 financial year, the Centre's focus will be on calling for, evaluating and contracting projects which align with its Strategic Research Plan.

The Centre will also review its Strategic Research Plan, continue to develop robust governance processes and management systems, and build on its existing relationships with water recycling industry and research organisations in Australia and overseas.

The Centre will also be looking to expand its membership, and enhance the skills and experience of the Research Advisory Committee.



# SUMMARY OF Financial Position and Performance

## Australian Water Recycling Centre of Excellence Ltd Income Statement for the period ended 30 June 2010

	2010
	\$
<b>Revenue from continuing operations</b>	
Commonwealth grant <sup>1</sup>	5,000,000
Industry contribution	5,000
Interest income	12,062
<b>Total revenue from continuing operations</b>	5,017,062
<b>Expenses from continuing operations</b>	
Employee benefits and related expenses	(81,832)
Other expenses <sup>2</sup>	(338,889)
<b>Total expenses from continuing operations</b>	(420,721)
<b>Total funds to be committed to national research projects</b>	4,596,341

## Australian Water Recycling Centre of Excellence Ltd Statement of Cash Flows for the period ended 30 June 2010

	2010
	\$
<b>Cash flows from operating activities:</b>	
Commonwealth grant received	4,500,000
Industry contributions received	5,000
Payments to suppliers and employees	(124,606)
GST input tax credits from ATO	472,186
GST remitted to ATO	(472,186)
Interest received	9,795
<b>Net cash provided by/(used in) operating activities</b>	4,390,189
<b>Net increase in cash and cash equivalents held</b>	4,390,189
Cash and cash equivalents at beginning of financial period	-
<b>Cash and cash equivalents at the end of financial period</b>	4,390,189

<sup>1</sup> The Commonwealth grant has been recognised as revenue at the point in time at which the conditions of the funding agreement between the Commonwealth and the Centre have been met. The amount represents Commonwealth grants in the process of being committed to support national research projects.

<sup>2</sup> Other expenses are principally associated with the establishment of the Centre and Research Advisory Committee (RAC) operations.

Australian Water Recycling Centre of Excellence Ltd  
**Statement of Financial Position as at 30 June 2010**

	<b>2010</b>
	<b>\$</b>
<b>ASSETS</b>	
<b>Current assets</b>	
Cash and cash equivalents	4,390,189
Trade and other receivables	529,370
<b>Total current assets</b>	4,919,559
<b>TOTAL ASSETS</b>	4,919,559
<b>LIABILITIES</b>	
<b>Current liabilities</b>	
Trade and other payables	318,113
Accrued employee benefits	5,105
<b>Total current liabilities</b>	323,218
<b>TOTAL LIABILITIES</b>	323,218
<b>NET ASSETS</b>	4,596,341
<b>EQUITY</b>	
Funds to be committed to national research projects	4,596,341
<b>TOTAL EQUITY</b>	4,596,341









**Australian Government**  
**Water for the Future**



**Australian Water Recycling  
Centre of Excellence**



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