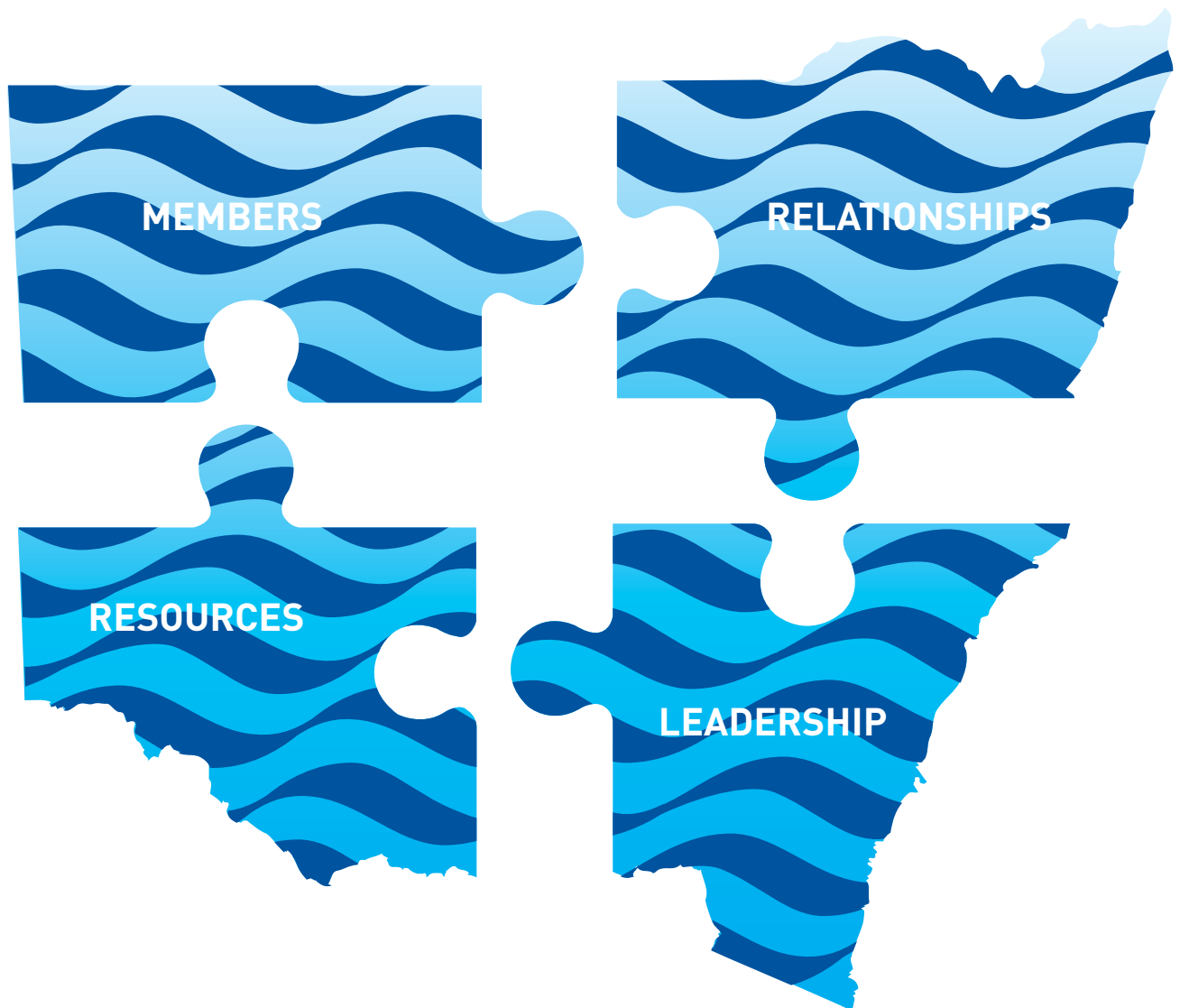


ANNUAL REVIEW

2017 / 2018



MEMBERS

86 out of 89 rural and regional NSW councils

RELATIONSHIPS

IPWEA
LGNSW
AWA
WSAA
QldWater

WIOA
DoI Water
NSW Health
IWC

RESOURCES

Publications, awards,
website, forum

LEADERSHIP

Executive Committee
of 18, representing
nine regions

CHAIR'S REPORT

I know I speak for all the Executive Committee in warmly thanking retiring Chair Jeff Sharp who stepped down at our November 2017 AGM, after he was promoted from Director Infrastructure and Asset Management at Port Macquarie-Hastings Council to a new role there as Strategy and Growth Director. Previously in March 2017 Jeff received a 15 year medallion and was only the fifth Executive Committee member to achieve this great milestone. When Jeff stood down from the Executive Committee he had represented the Mid North Coast Group of Councils for almost 16 years including the last 4 years as Chair of the Water Directorate. I wish him success in his new position.

Since being elected Chair, my main goal has been to review and update the Water Directorate's Strategic Business Plan. A tender process resulted in the Executive Committee appointing Professor Roberta Ryan, Director of the Centre for Local Government, University of Technology, to undertake the task.

Professor Ryan undertook a thorough process of researching the regional and rural water industry, surveying Water Directorate member councils and interviewing key stakeholders about the role and performance of the Water Directorate. She looked for gaps, areas of duplication and opportunities for partnerships. She talked to government and industry experts to obtain a wide view of the key issues facing local water utilities water now and in future.

It was heartening that 116 Water Directorate members responded to Professor Ryan's survey, a 65% response rate, which is remarkably high for online surveys. It is also pleasing to note that just under 70% of respondents are either very or somewhat satisfied with the Water Directorate.

The top issues members identified in the survey were shortage of skilled technical staff, ageing infrastructure/ cost of maintenance and cost of compliance with new proposed health-based targets.

Members said they want the Water Directorate to support LGNSW to advocate for the regional water sector and focus on capacity-building for all LWUs, with a focus on smaller councils. One exciting option for the future is

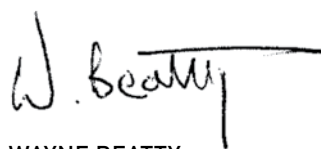
for the Water Directorate to form partnerships with one or more water or infrastructure organisations, whose objectives and activities align with ours, in order to better meet the needs of members by improving economies of scope and scale.

The final stage of the project is for Professor Ryan to prepare a plan that positions the Water Directorate to be relevant and useful to the rural and regional water sector going forward, and to make sure resources are being allocated to meeting the priorities of our members.

WE HAVE BUILT THE ORGANISATION
TO BE A HIGHLY RESPECTED EXPERT
BODY THAT IS UNIQUE...

As the Water Directorate approaches its 20th anniversary, I would like to honour the many people who have volunteered their time as members of the Executive Committee over the years. We have built the organisation to be a highly respected expert body that is unique in providing technical resources to - and advocating on behalf of - the water and sewer industry in rural and regional New South Wales.

There were some changes to the Executive Committee during the year. We welcomed David Kirby from Brewarrina Shire Council, Phil Hood from Upper Hunter Shire Council and Terence Seymour from Uralla Shire Council as new members. Brendan Guiney, MidCoast Council, returned following a brief hiatus and Mark Hely replaced outgoing LGNSW representative Sascha Moege who stepped down after ten years with the Executive Committee. Many thanks to Sascha and to departing members Alan Fletcher from Upper Hunter Shire Council, David Wolfenden from Moree Plains Shire Council and Phil Redan from Muswellbrook Shire Council who also resigned during the year.



WAYNE BEATTY



EXECUTIVE OFFICER'S REVIEW

Within a few months of publishing this Annual Review, we will be celebrating proudly the 20 year anniversary of the Water Directorate's official commencement in December 1998.

Our core business has always been to provide technical advice in the form of manuals and guidelines and in 17/18 we produced and distributed a further 5 publications to our 86 member Councils. A secondary function of the Water Directorate has been to promote, encourage and reward excellent work done in NSW by LWUs and in doing so we presented a further 6 sponsored awards.

Over 20 years the total number of publications distributed to member Councils including 7 WIOA Guidelines is 85 and the total number of sponsored awards presented is 61. I draw your attention to the timeline on pages 6 and 7 showing a comprehensive record of the Water Directorate's publications and awards as well as some significant events. It shows that 41 publications were produced in the first decade and 44 in the second decade. After 20 years the publication production rate is consistently over 4 publications per year. The timeline shows the production of publications decreased in the 'middle third' ie 2005 to 2013 however this is explained by the development of and involvement in the Water Loss Management Program which ran from 2006 to 2011 which was undertaken in partnership with LGNSW and with funding from the Federal Government. The timeline history also shows the 5 Water Directorate Chairs and staff to date.

The 17/18 publications are:

- *Third Party Infrastructure on Water Supply Reservoirs Guidelines Part 1, Engineering Aspects* NEW - Joint publication with Queensland Water Directorate
- *Third Party Infrastructure on Water Supply Reservoirs Guidelines Part 2, Legal Aspects* NEW
- *Report on Smart Metering Technology* NEW
- *Operations and Maintenance Manual for Water Pumping Stations* UPDATE
- *Cutting, Handling and Disposal of Asbestos Cement Pipes Guidelines* UPDATE

Currently the subject of the first two companion guidelines above is an area of great concern for NSW LWUs. The issue of third party infrastructure on water supply reservoirs is also commonly known as telcos on tanks. The first publication of the pair above is a joint publication with and managed by the Queensland Water Directorate. Boil water alerts appear to have been caused by contamination from birds roosting or nesting in reservoirs via damaged roofing caused by third party infrastructure on water supply reservoirs and thus requiring the necessity for careful internal/external inspections of reservoirs.

The 17/18 awards are:

- Sam Samra Joint Award went to Gunnedah Shire Council in September 2017 NEW – this is the **1st year** of presenting this award
- International WaterCentre Water Leader Scholarship went to Laljibhai Rathod from Kempsey Shire Council NEW in October 2017 - this is the **1st year** of presenting this award
- LGNSW Excellence in the Environment Award - Water Conservation Award went to Parkes Shire Council for their Integrated Water Infrastructure Renewal Project - this is the **4th year** of presenting this award after a previous 3 year involvement.
- WIOA Operator of the Year Award went to Dave Cashen from Bathurst Regional Council in April 2018 – this is the **12th year** of presenting this award since it was established by WIOA at the first NSW conference at Dubbo in 2007.
- Ozwater'18 Conference Attendance Award went to Tamarin Taylor from Riverina Water County Council in May 2018 – this is the **15th year** of presenting this award since the initiative was established by the Water Directorate in 2004.
- IPWEA NSW Conference Excellence Award - Innovation in Water Supply and Wastewater Award went to Eurobodalla Shire Council for their Rosedale & Guerrilla Bay Pressure Sewerage Scheme Project; and the Highly Commended Award went to both Narrabri Shire Council, and to Shoalhaven City Council at Hunter Valley in November 2017. This is the **18th year** of presenting this award since initiating it in 1999 and commencing in 2000 at Penrith Panthers.

The Water Directorate Forum was facilitated at the LGNSW Water Management Conference at Dubbo in September 2017 by me with assistance from Forum panellists Graham Kennett, Jason Ip, David Oxenham and Robert Siebert – this is the **15th year** of facilitating this Forum commencing in 2003 at Taree.

The Water Directorate Stream at IPWEA NSW Div Conference at the Hunter Valley in November 2017 was facilitated by me for approximately the **18th year** over a 19 year period commencing in 1999 at Penrith Panthers.

In October 2017 the Water Directorate made a submission to the IPART's Review of the Local Government Rating System collating comments from member Councils.



GARY MITCHELL

Attendance Record – Elected Representatives

Name	Council	Region	Attendance
Wayne Beatty	Orange City Council	Central West	6/7
Jim Collins	Bega Valley Shire Council	South East	4/7
Brett Corven	Eurobodalla Shire Council	South East	1/7
Russell Deans	Bathurst Regional council	Central West	6/7
Matt Fanning	Bellingen Shire Council	Mid North Coast	5/7
Alan Fletcher*	Upper Hunter Shire Council	Hunter	4/5
Graham Gordon	Griffith City Council	South West	4/7
Brendan Guiney**	MidCoast Council	Mid North Coast	2/2
Michael Herraman	Wingecarribee Shire Council	Illawarra	2/7
Phil Hood**	Upper Hunter Shire Council	Hunter	1/1
Jason Ip	Riverina Water County Council	South West	6/7
Graham Kennett	Kyogle Council	North Coast	6/7
Matt Kidd	Shoalhaven City Council	Illawarra	6/7
David Kirby**	Brewarrina Shire Council	Orana	3/4
Bruce Logan	Tamworth Regional Council	New England	5/7
Rolly Lawford	Gilgandra Shire Council	Orana	5/7
David Oxenham	Tweed Shire Council	North Coast	5/7
Phil Redan*	Muswellbrook Shire Council	Hunter	1/1
Jeff Sharp*	Port Macquarie – Hastings Council	Mid North Coast	5/5
Geoffrey Veneris	Goldenfields Water County Council	South West	6/7
David Wolfenden*	Moree Plains Shire Council	New England	1/1

Appointed committee members

Sascha Moege*	LGNSW representative	4/5
Mark Hely**	LGNSW representative	2/2
Councillor Rod Kendall	LGNSW representative	7/7

* Resigned or retired representative

** Nominated replacement or newly elected representative



After serving four years as Chair, Jeff Sharp (pictured left) handed over the Chair's role to Wayne Beatty (pictured right) and stepped down from the Executive Committee in February 2018. Both Jeff and Wayne are long standing members of the Executive Committee and have received 15 year medallions for their dedicated voluntary service to the Water Directorate.

1997

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

CHAIRS:



Mike Rayner



Daryl McGregor



Stewart McLeod

SPONSORED AWARDS PRESENTED

INTERNATIONAL
WATERCENTRE

IWC NSW Water
Leader Program
Scholarship
since 2017



Sam Samra
Local
Government
Award
since 2017



LGNW
Environment
Award
since 2011



WIOA
Operator
of the Year
since 2007

AUSTRALIAN
WATER
ASSOCIATION

AWA
Ozwater
Award
since 2003



IPWEA
Award
since 2000



Gary Mitchell
Executive Officer



Eloise Stanley
Publications &
Communications
Officer



Drought
Management
Guidelines



O&M Manual
for Wet and
Dry Well
Sewage
Pumping
Stations

O&M Manual
for Sewer
Reticulation -
Update



Blue-Green
Algae
Management
Protocols

O&M Manual
for Water
Reticulation -
Update

AUSTRALIAN
WATER
ASSOCIATION



Water &
Sewer Meter
Reading
Guidelines



AUSTRALIAN
WATER
ASSOCIATION



Business
Continuity
Management
Guidelines



Blue-Green
Algae
Flowchart

O&M Manual
for Water
Reticulation

Reuse of
Sludge and
Wastewater
from Water
Treatment
Plants
Guidelines

AUSTRALIAN
WATER
ASSOCIATION



Water &
Sewer Meter
Reading
Guidelines

AUSTRALIAN
WATER
ASSOCIATION



Practical Guide
to the Operation
and Optimisation
of Media Filters
(Funded WIOA
Publication)



AUSTRALIAN
WATER
ASSOCIATION



Practical Guide
to Understanding
and Managing
Surface Water
Catchments
(Funded WIOA
Publication)

O&M
Manual for
Submersible
Sewage
Pumping
Stations

Survey of
NSW Local
Government
Effluent and
Biosolids
Reuse 2000



Backflow
and Cross
Connection
Prevention
Guidelines

O&M
Manual for
Chlorination
Installations -
Update

O&M Manual
for Water
Supply
Service
Reservoirs -
Update

O&M Manual
for Sewerage
Treatment
Plants - Joint
publication
with Old Water
Directorate

Water Loss
Management
Program
Awareness
and Education
Guidelines

Cutting, Handling
and Disposal
of Asbestos
Cement Pipes
Guidelines -
Update

Updated AUS-
SPEC Water
and Sewage
Specifications
(for IPWEA)

Report on
Access
Provisions for
Local
Government
Water Services
(Power of Entry)
not distributed

O&M Manual
for Water
Pumping
Stations

Cutting,
Handling and
Disposal of
Asbestos
Cement Pipes
Guidelines

Tender
Documentation
Manual for
Mechanical
and Electrical
Infrastructure

Review of
the Country
Towns Water
& Sewerage
Program - The
Need to Restore
Funding not
distributed

Sewage
Treatment
Plant Buffer
Zone Land
Use Planning
Guideline

Practical Guide
to the Operation
and Optimisation
of Distribution
Systems
(Funded WIOA
Publication)

Practical Guide
to the Optimisation
of Chemical Dosing,
Coagulation,
Flocculation and
Clarification (Funded
WIOA Publication)

Overview of
1996 NHMRC
Drinking
Water
Guidelines

O&M
Manual for
Chlorination
Installations

O&M Manual
for Water
Supply
Service
Reservoirs

O&M Manual
for Submersible
Sewerage
Pumping
Stations -
Update

O&M Manual
for Wet and Dry
Well Sewerage
Pumping
Stations -
Update

Section 64
Determination
of Equivalent
Tenements
Guidelines

Overview of
the 2004
Australian
Drinking
Water
Guidelines

Blue Green
Algae
Management
Protocols -
Update CD
Rom version

O&M Manual
for Water
Treatment
Plants

1997

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

1999–2001 Chair: Mike Rayner

2002–2006 Chair: Daryl McGregor

2007–2013 Chair: Stewart McLeod

DEC 1998
Executive Committee
Meeting 1

2001–2009 Millennium Drought

DEC 2002
Becomes an
Incorporated Association

2006–2011 Water Loss Management Program

DEC 2006
Percy Allan Report

DEC 2008
Armstrong
Gellatly Report

A BREIF HISTORY OF THE WATER DIRECTORATE

The Water Directorate was created by a group of concerned senior water managers in NSW local water utilities as a result of the abolition of many of the services of the NSW Public Works Department in the mid 1990s. Of particular concern was the need to have guidelines and manuals for consistency and standardisation.

After lobbying and gaining support over a couple of years, the Water Directorate officially commenced as an unincorporated association in December 1998. Sharing industry knowledge, networking and improving efficiencies are all part of providing technical support and direction to NSW local water utilities.



Jeff Sharp



Wayne Beatty



Juliet Cobb
Publications & Communications Officer

 AUSTRALIAN WATER ASSOCIATION	 AUSTRALIAN WATER ASSOCIATION			 AUSTRALIAN WATER ASSOCIATION	 AUSTRALIAN WATER ASSOCIATION	 AUSTRALIAN WATER ASSOCIATION	 INTERNATIONAL WATER CENTRE LEADERSHIP PROGRAM				
 Practical Guide to the Operation and Optimisation of Chlorine and Chloramine Disinfection (Funded WIOA Publication)	 Water Loss Management Program for NSW LGA's, Final Report 2006-2011 - joint publication with LGNSW and Australian Government			 AUSTRALIAN WATER ASSOCIATION	 AUSTRALIAN WATER ASSOCIATION	 Practical Guide to the Operation and Optimisation of Activated Sludge Wastewater Treatment Plants (Funded WIOA Publication)	 O&M Manual for Chlorination Installations - Update (2)	 Review of Dams Safety Bill 2015	 Third Party Infrastructure on Water Supply Reservoirs Guidelines Part 1, Engineering Aspects		
 Interim Blue-Green Algae Management Protocols - Update (2)	 O&M Manual for Water Supply Service Reservoirs - Update (2)	 Land Matters Guidelines Stage 1 - Joint publication with Roads & Transport Directorate	 Overview of the 2011 Australian Drinking Water Guidelines	 Backflow and Cross Connection Prevention Policy Guidelines - Update	 Blue-Green Algae Decision Flowchart - Update	 WH&S Management Guidelines	 Water Loss Management Toolkit Operators' Guide - Jointly funded Centroc Guidelines	 Customer Service Plan Guidelines	 AUSTRALIAN WATER ASSOCIATION		
 Section 64 Determination of Equivalent Tenements Guidelines - Update	 O&M Manual for Water Supply Service Reservoirs - Update (2)	 Land Matters Guidelines Stage 1 - Joint publication with Roads & Transport Directorate	 Land Matters Guidelines - Joint publication with Roads & Transport Directorate - Update	 Building in the Vicinity of Sewer Mains Guidelines	 Cutting, Handling and Disposal of Asbestos Cement Pipes Guidelines - Update (2)	 Easement Guidelines - Joint publication with Roads & Transport Directorate	 Water Loss Management Toolkit Planning Guide - Jointly funded Centroc Guidelines	 O&M Manuals for Pressure Sewerage Systems	 Cutting, Handling and Disposal of Asbestos Cement Pipe Guidelines - Update (3)		
 Odour Management Guidelines	 Backflow and Cross Connection Prevention Policy Guidelines - Update	 Design of Fire Flows Guidelines	 Business Continuity Management Guidelines - Update	 Guidelines for Reuse of Sludge and Wastewater from Water Treatment Plants - Update	 Blue-Green Algae Management Protocols - Update (3)	 Occupational Profile of the Water Industry Workforce in NSW Local Government	 Specifications for Water and Wastewater Treatment Chemicals	 Section 64 Determination of Equivalent Tenements Guidelines - Update (2)	 O&M Manual for Water Pumping Stations Update		
					 Guidelines for the Review of Environmental Factors (REFs)	 Guidelines for Trenchless Installation, Replacement or Rehabilitation of Pipelines	 O&M Manual for Sewage Treatment Plants - Update	 O&M Manual for Sewage Pumping Stations Update (2)	 Third Party Infrastructure on Water Supply Reservoir Guidelines Part 2, Legal Aspects		

Income and Expenditure 2017/18 and 2016/17

	2018	2017
	\$	\$
INCOME		
Membership fees	516,828	506,361
Sales – manuals and training	4,316	3,673
Investment income	5,122	10,757
Sundry income	783	0
Change in net market value of investment	3,679	2,355
Total Income	530,728	523,146
EXPENDITURE		
Accounting and audit	7,490	7,880
Advertising sponsorship	25,598	73,045
Bank Charges	1,860	1,821
Computer and website	9,253	5,567
Conferences, travel and accommodation	4,233	4,705
Consultants and technical support	119,550	193,405
Depreciation	1,170	1,203
Executive committee expenses	5,720	10,615
Insurance	4,854	8,716
IPWEA secretariat support	99,680	97,360
Legal fees	10,000	0
Printing and stationery	586	1,850
Salary and superannuation	246,420	236,269
Total Expenditure	536,414	642,436
Deficit	(5,686)	(119,290)
FUNDS HELD		
Balance beginning of year	115,988	235,278
Deficit	(5,686)	(119,290)
Balance end of year	110,302	115,988

As per past practice, membership fees rise each year by CPI. Income increased slightly in 2017/18 by 1.5% as a result of increases in four components of income. The only component of income that decreased was investment income which decreased by 52.4%. The 17.5% increase in sales of publications was against the trend.

Expenditure in 2017/18 was intentionally reduced by 16.5% to accord with the May 2017

Executive Committee resolution that Funds Held/ Balance end of year should be 2 to 3 months of expenditure instead of the long standing general agreement that Funds Held/Balance end of year should be 10% of Total Income. The target Funds Held/Balance end of year was 2 months of the previously recorded maximum expenditure, ie \$120,000 and the actual Funds Held/Balance end of year came in at approximately \$110,000.

Forecast Budget for 2018/19

	2019	%
	\$	
INCOME		
Membership fees	525,000	97.6
Sales – manuals and training	4,000	0.7
Investment income	6,000	1.1
Change in net market value of investment	3,000	0.6
Total income	538,000	100
EXPENDITURE		
Accounting and audit	8,000	1.5
Advertising and sponsorship	30,000	5.5
Bank charges	2,000	0.4
Computer and website	10,000	1.8
Conferences, travel and accommodation	5,000	0.9
Consultants and technical support	118,602	21.6
Depreciation	1,200	0.2
Executive committee expenses	7,000	1.3
Insurance	5,000	0.9
IPWEA secretariat support	100,000	18.2
General	500	0.1
Printing and stationery	1,000	0.2
Salary and superannuation	260,000	47.4
Total expenditure	548,302	100
Deficit	(10,302)	
FUNDS HELD		
Balance beginning of year	110,302	
Deficit	(10,302)	
Balance end of year	100,000	

It is forecast that a Balance end of year of \$100,000 will be a sufficient 2 month safety margin going into 2019/20.

Office accommodation and secretariat support are provided by the IPWEA Australasia Office.

Once again we are pleased that our accounts for 2017/18 have been approved by the auditors.

Member councils are welcome to request a copy of the financial statements and/or the auditor's report for 2017/18. The audited financial statements will be presented at the AGM on 15 November 2018 and subsequently published on our website for members to view.

MEMBERS BY REGION

Orana Region

Bogan Shire Council
Bourke Shire Council
Brewarrina Shire Council
Central Darling Council
Cobar Shire Council
Coonamble Shire Council
Dubbo Regional Council
Gulgandra Shire Council
Mid Western Regional Council
Narromine Shire Council
Walgett Shire Council
Warren Shire Council
Warrumbungle Shire Council

South West Region

Albury City Council
Balranald Shire Council
Berrigan Shire Council
Bland Shire Council
Carrathool Shire Council
Cootamundra - Gundagai Regional Council
Edward River Council
Federation Council
Goldenfields Water County Council
Greater Hume Council
Griffith City Council

Hay Shire Council
Hilltops Council
Junee Shire Council
Leeton Shire Council
Lockhart Shire Council
Murray River Council
Murrumbidgee River Council
Narrandera Shire Council
Riverina Water County Council
Snowy Valleys Council
Temora Shire Council
Wagga Wagga City Council

Central West Region

Bathurst Regional Council
Blayney Shire Council
Cabonne Shire Council
Central Tablelands Water
Cowra Shire Council
Forbes Shire Council
Lachlan Shire Council
Lithgow City Council
Oberon Council
Orange City Council
Parkes Shire Council
Weddin Shire Council

New England Region

Armidale Regional Council
Glen Innes Severn Council
Gunnedah Shire Council
Gwydir Shire Council
Inverell Shire Council
Liverpool Plains Shire Council
Moree Plains Shire Council
Narrabri Shire Council
Tamworth Regional Council
Tenterfield Shire Council
Uralla Shire Council
Walcha Council

North Coast Region

Ballina Shire Council
Byron Shire Council
Clarence Valley Council
Kyogle Council
Lismore City Council
Richmond Valley Council
Rous County Council
Tweed Shire Council

Mid North Coast Region

Bellingen Shire Council
Coffs Harbour City Council
Kempsey Shire Council
MidCoast Council
Nambucca Shire Council
Port Macquarie-Hastings Council

Hunter Region

Muswellbrook Shire Council
Singleton Shire Council
Upper Hunter Shire Council

Illawarra Region

Shoalhaven City Council
Wingecarribee Shire Council

South East Region

Bega Valley Shire Council
Eurobodalla Shire Council
Goulburn Mulwaree Council
Queanbeyan-Palerang Regional Council
Snowy Monaro Regional Council
Upper Lachlan Shire Council
Yass Valley Council

2017/2018 HIGH PRIORITY ACTIONS AT A GLANCE



PUBLICATIONS



EVENTS



AWARDS

September 17

- Third Party Infrastructure on Water Supply Reservoirs Guidelines Part 1 – Engineering Aspects**
- Water Directorate Forum at LGNSW Water Management Conference at Dubbo**
- Inaugural Sam Samra Award for most improved local water utility. Winner Gunnedah Shire Council.**

October 17

- Chair Water Stream at IPWEA NSW Div Conference in Hunter Valley**
- LGNSW Excellence in the Environment Awards, Water Conservation Award. Winner: Parkes Shire Council for the Parkes Integrated Water Infrastructure Renewal Project.**
- Inaugural International WaterCentre NSW Water Leader Program Scholarship Award. Winner: Laljibhai Rathod, Kempsey Shire Council**

November 17

- Report on Smart Metering Technology**
- IPWEA NSW Conference Excellence Awards – Innovation in Water Supply and Wastewater Award at Hunter Valley. Winner: Eurobodalla Shire Council for their Rosedale and Guerilla Bay Pressure Sewerage Scheme.**

February 18

- Third Party Infrastructure on Water Supply Reservoirs Guidelines Part 2 – Legal Aspects**

April 18

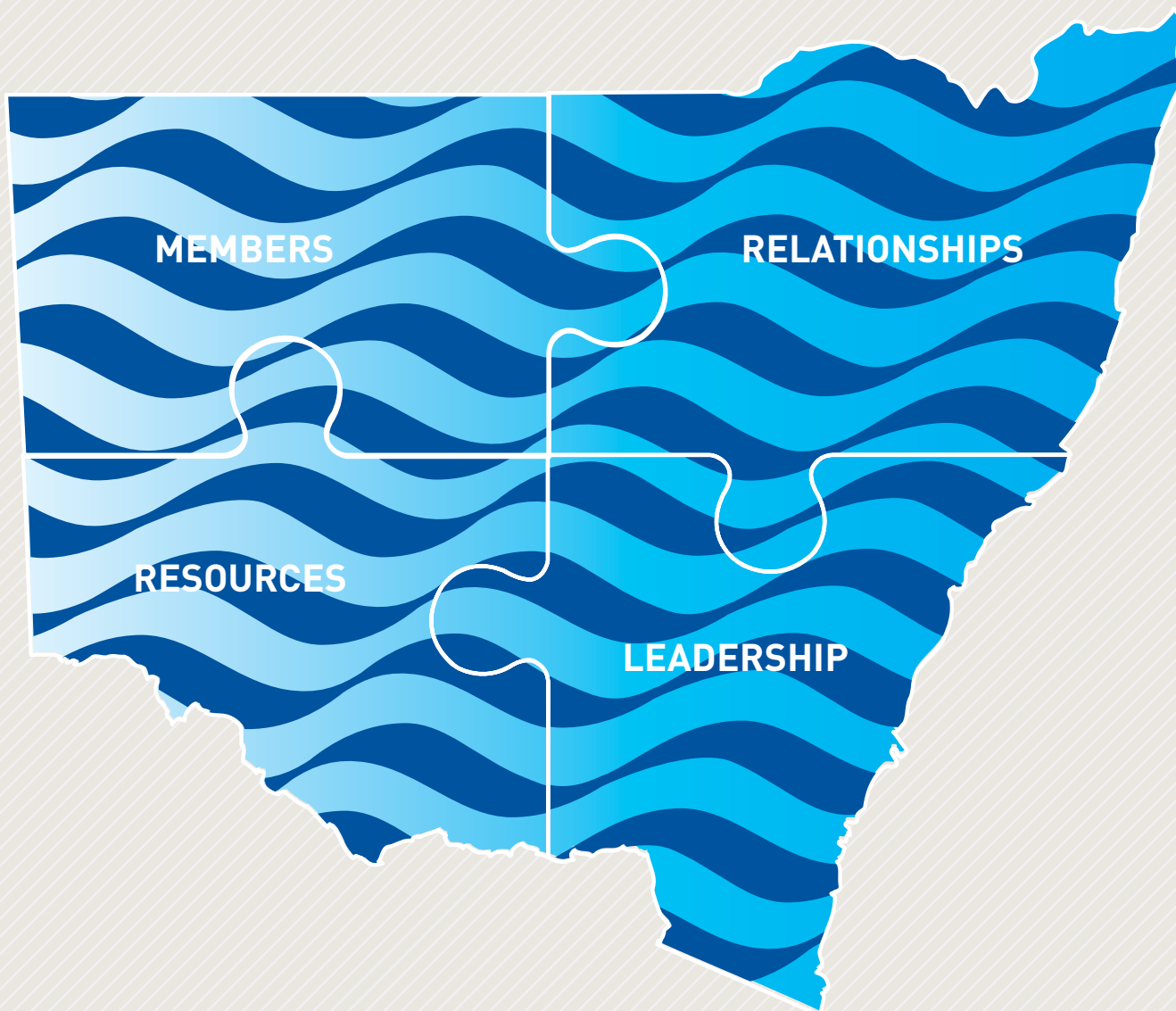
- O&M Manual for Water Pumping Stations Update**
- WIOA Operator of the Year Award. Winner: Dave Cashen, Bathurst Regional Council.**

May 18

- Cutting, Handling and Disposal of Asbestos Cement (AC) Pipe Guidelines Update**
- Ozwater '18 Conference Attendance Award. Winner: Tamarin Taylor, Riverina Water County Council.**



The image displays a collection of 60 book covers from the 'Water Directories' series, arranged in a 6x10 grid. The covers are organized into six rows and ten columns. The first row features covers for 'Blue Green Algae Action Plan Chart', 'Operations & Planning', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', and 'Blue Green Algae Management Protocols'. The second row includes 'Operations & Planning', 'Operations & Planning', 'Operations & Planning', 'Technical Conditions', 'Technical Conditions', 'Technical Conditions', 'Technical Conditions', and 'Water Loss Management'. The third row shows 'Technical Conditions', 'Technical Conditions', 'Technical Conditions', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', and 'Water Loss Management'. The fourth row contains 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', and 'Water Loss Management'. The fifth row features 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', and 'Water Loss Management'. The sixth row includes 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', 'Water Loss Management', and 'Water Loss Management'. The covers are designed with a blue and white color scheme, featuring the 'Water Directories' logo and various images related to water management.



WATER DIRECTORATE INCORPORATED

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**WATER
DIRECTORATE**

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