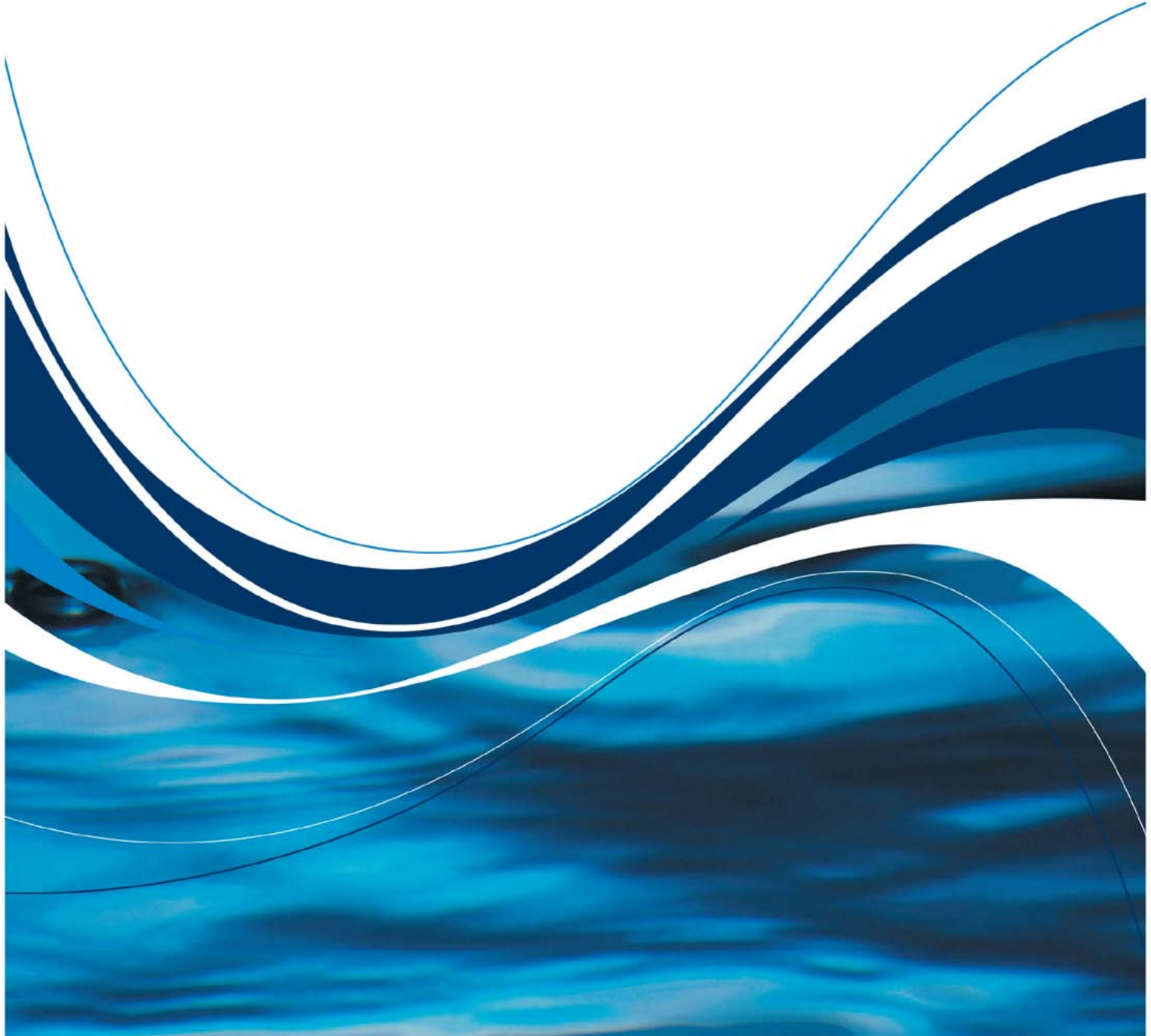


2009-10

NSW WATER SUPPLY AND SEWERAGE

BENCHMARKING REPORT



Local Government
Association of NSW



Shires Association
of NSW



Office
of Water

2009-10

NSW WATER SUPPLY AND SEWERAGE

BENCHMARKING REPORT

Publisher

NSW Office of Water

NSW Office of Water
Level 18, 227 Elizabeth Street
GPO Box 3889
Sydney NSW 2001

T 02 8281 7777 F 02 8281 7799

information@water.nsw.gov.au

www.water.nsw.gov.au

The NSW Office of Water is a separate office within the Department of Environment, Climate Change and Water. The Office manages the policy and regulatory frameworks for the State's surface water and groundwater resources to provide a secure and sustainable water supply for all users. The Office also supports water utilities in the provision of water and sewerage services throughout New South Wales.

Compiling editor:

Sam Samra, Senior Manager, Water Utility Performance

Approved for issue:

Colin McLean, Executive Director, Urban Water



BEST PRACTICE MANAGEMENT

**2009-10 NSW WATER SUPPLY AND SEWERAGE
BENCHMARKING REPORT**

July 2011

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Foreword

Performance monitoring and benchmarking are becoming increasingly important tools for the efficient and effective management of water supply and sewerage utilities. The National Water Initiative has extended the 1994 *Strategic Framework for Water Reform* to provide for national performance reporting of pricing and service quality for water delivery. It commits water utilities to effective, efficient and accountable water management.

In line with the National Water Initiative, the NSW government has developed the *Best-Practice Management of Water Supply and Sewerage Guidelines*¹. These guidelines, which were updated in 2007, are the key driver for reform of planning and management and for continuing performance improvement by each utility. The guidelines require Local Water Utilities (LWUs) to undertake annual performance monitoring in accordance with the *National Water Initiative*², with the aim of improving the quality and efficiency of services to all NSW residents. Performance monitoring is also important for public accountability and has been strongly endorsed by the Independent Pricing and Regulatory Tribunal³.

This *2009-10 NSW Water Supply and Sewerage Benchmarking Report* discloses the full suite of NSW water supply and sewerage performance indicators for all NSW water utilities including Sydney and Hunter Water Corporations over the past six years, enabling each utility to monitor trends in its performance indicators and to improve its performance through benchmarking against similar utilities.

A summary of the key performance indicators for all NSW urban water utilities, together with the overall Statewide performance of the NSW non-metropolitan water utilities and comparison of that performance with interstate utilities, are provided in the companion report *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report*.

The *Benchmarking Report* has been prepared by the NSW Office of Water since 1986. To facilitate comparisons, the Minister for Primary Industries has made both the performance monitoring report and the benchmarking report available on the NSW Office of Water website (www.water.nsw.gov.au).

To provide a balanced view of the long-term sustainability of NSW water utilities, a triple bottom line (TBL) accounting focus has been adopted, with performance reported on the basis of social, environmental and economic performance indicators.

NSW performance monitoring and benchmarking also provide valuable data for continuous performance improvement by disclosing the present position and facilitating development of suitable information and responses to address the future water supply and sewerage needs for non-metropolitan NSW. This ensures an appropriate focus and targeting of responses and initiatives to address current and emerging issues. Page 1 provides a summary of such information and responses.

¹ *Best-Practice Management of Water Supply and Sewerage Guidelines*, Department of Water and Energy, August 2007.

² *National Performance Framework – 2009-10 Urban Performance Reporting Indicators and Definitions*, National Water Commission/Water Services Association of Australia, April 2010.

³ *Pricing Principles for Local Water Authorities*, Independent Pricing and Regulatory Tribunal NSW, 1996.

Acknowledgements

The Local Government Association of NSW and the Shires Association of NSW (LGA and SA) are acknowledged for their strong and continuing support for the NSW annual water supply and sewerage performance monitoring system since its commencement in 1986.

The contribution of NSW Health is acknowledged for providing additional water quality data (from the NSW Water Quality Database) and water quality monitoring compliance data. This data has been incorporated into Tables 5 and 12 and Appendix D1.

The NSW Local Government Water Directorate is also acknowledged for its support and significant contributions.

The success of the NSW performance monitoring system is contingent on full participation by all NSW Local Water Utilities (LWUs). The continuing participation of each LWU in the performance monitoring system and each LWU's significant efforts in providing current, accurate and timely data on its performance for each of the past six years are therefore particularly acknowledged.

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1. Introduction

This *NSW Water Supply and Sewerage Benchmarking Report* discloses the full suite of NSW water supply and sewerage performance indicators and benchmarking data for all NSW urban water utilities over the past six years. The data is presented in the form of 66 figures and 18 tables and provides comparative information to enable each local water utility (LWU) to benchmark its performance against that of similar LWUs.

A companion report, the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report* (available at www.water.nsw.gov.au), provides the key performance indicators for the NSW water utilities together with the overall Statewide performance of the NSW non-metropolitan water utilities and compares that performance with interstate utilities. To avoid duplication, these matters are not repeated in this *Benchmarking Report*.

The NSW component of the *National Performance Report 2009-10 for Urban Water Utilities* is shown in Appendix F [page 248] of this Benchmarking Report while national performance comparisons are shown in Appendix A [page 182].

This Benchmarking Report discloses the NSW results for all 117 NWI Performance Indicators as shown in Note 20 on page 34.

In addition, the Benchmarking Report is a valuable annual **resource kit** and continuous improvement tool for the NSW utilities by reporting a broad range of current and emerging issues and providing information and suggested responses to assist the utilities. These include:

- Statewide medians [pages 103, 104, 108, 109]
- Performance percentiles on a % of LWUs basis [page 234,235]; including National Reporting medians
- Risk-based drinking water quality management plan [page 9]
- Achievement of microbiological compliance [page 8]
- Boil water alerts and lessons learnt [page 10]
- Effective disinfection of a water supply distribution system [page 246]
- Water quality sampling locations and frequency [page 204]
- Performance of each water treatment works [page 236] and sewage treatment works [page 241]
- Best-practice management [page 5], NSW Best-Practice Management Framework [page 6] and best-practice management compliance [page 105]
- Renewals [page 11]
- Leakage [page 12]
- Benefits of strong pricing signals [page 11]
- Achieving full cost recovery [page 19]
- Achieving efficient water use [page 11]
- Greenhouse gases [page 14] and greenhouse gas calculator [page 267]
- Improving performance [page 15]
- Triple bottom line (TBL) Performance Report [pages 3, 28, 230, 232]
- Action plan [pages 3, 19, 26]
- NSW Performance monitoring database [page 189]
- Economic efficiency indicators for four sizes of LWUs [page 18]
- Local Government Integrated Planning and Reporting Framework, 2010 [page 8]
- Software, guidelines, tools and assistance available from the NSW Office of Water [pages 8, 11, 12, 17, 21, 34]
- Contents of tables 5 to 18 [page 35]
- General notes [page 30]

2. NSW water utilities

This report discloses performance indicators for all NSW urban water utilities, comprising the 106 non-metropolitan local water utilities (LWUs) together with four metropolitan utilities (Sydney Water, Hunter Water, Sydney Catchment Authority and Hawkesbury Council). All utilities are listed in the table below in alphabetical order. To facilitate comparisons with similar sized LWUs, tables 5 to 18 of this report are sorted in order of the number of connected properties served. The number shown beside each utility in the table below is its rank in terms of connected properties for water supply. For example, the table shows '11 Albury City', indicating that Albury City is the 11th LWU in the water supply tables. LWUs are grouped in four size ranges: over 10,000, 3,001 to 10,000, 1,501 to 3,000, and 200 to 1,500 connected properties.

NSW water utilities (non-metropolitan and metropolitan) in alphabetical order

| | | | | | | | |
|-----|-----------------------------|-----|-----------------------|-----|-------------------------|-----|----------------------------|
| 11 | Albury City | 54 | Deniliquin | 59 | Lachlan | 3 | Shoalhaven |
| 29 | Armidale Dumaresq | 18 | Dubbo | 48 | Leeton | 35 | Singleton |
| | | | | 22 | Lismore (R) | 52 | Snowy River |
| 24 | Ballina (R) | | | 31 | Lithgow | | Sydney Catchment Authority |
| 100 | Balranald (DS) | 15 | Eurobodalla | 61 | Liverpool Plains | | Sydney Water |
| 21 | Bathurst Regional | | | 102 | Lockhart (NO WS) | | |
| 23 | Bega Valley | 12 | Fish River WS (BS) | | | 13 | Tamworth Regional |
| 47 | Bellingen | 51 | Forbes | 5 | MidCoast | 69 | Temora (NO WS) |
| 53 | Berrigan (DS) | | | 32 | Mid-Western Regional | 68 | Tenterfield |
| 72 | Bland (NO WS) | 84 | Gilgandra | 38 | Moree Plains | 93 | Tumbarumba |
| 78 | Blayney (NO WS) | 60 | Glen Innes Severn | 65 | Murray (DS) | 43 | Tumut |
| 89 | Bogan | 82 | Gloucester | 101 | Murrumbidgee | 6 | Tweed |
| 97 | Bombala | 28 | Goldenfields (NO SGE) | 41 | Muswellbrook | | |
| 104 | Boorowa | 1 | Gosford | | | 45 | Upper Hunter |
| 87 | Bourke (DS) | 20 | Goulburn Mulwaree | 34 | Nambucca | 73 | Upper Lachlan |
| 105 | Brewarrina | 80 | Greater Hume | 46 | Narrabri | 85 | Uralla |
| 27 | Byron (R) | 30 | Griffith | 63 | Narrandera | 107 | Urana (NO WS) |
| | | | | | | | |
| | | | | 94 | Gundagai | | |
| 91 | Cabonne | 44 | Gunnedah | | | 9 | Wagga Wagga (NO WS) |
| 92 | Carrathool | 90 | Guyra | 83 | Oberon (R) | 88 | Wakool (DS) |
| 103 | Central Darling (DS) | 81 | Gwydir | 19 | Orange | 98 | Walcha |
| 40 | Central Tablelands (NO SGE) | | | | | 79 | Walgett (DS) |
| | | 76 | Harden (R) | 71 | Palerang | 96 | Warren (DS) |
| 14 | Clarence Valley | 30A | Hawkesbury (NO WS) | 36 | Parkes | 55 | Warrumbungle |
| 67 | Cobar (R) | 86 | Hay (DS) | 7 | Port Macquarie-Hastings | 95 | Weddin (NO WS) |
| 66 | Cobar WB (BS) | | Hunter Water | | | 57 | Wellington |
| 10 | Coffs Harbour | | | 17 | Queanbeyan (R) | 74 | Wentworth (DS) |
| 99 | Coolamon (NO WS) | 37 | Inverell | | | 16 | Wingecarribee |
| 50 | Cooma-Monaro | | | 33 | Richmond Valley | 2 | Wyong |
| 75 | Coonamble | 106 | Jerilderie (DS) | 8 | Riverina (NO SGE) | | |
| 58 | Cootamundra (R) | 77 | Junee (NO WS) | 4 | Rous (BS) (NO SGE) | 56 | Yass Valley |
| 42 | Corowa | | | | | 49 | Young (R) |
| 26 | Country Energy | 25 | Kempsey | | | | |
| 39 | Cowra | 70 | Kyogle | | | | |

R – Reticulator; DS – Dual Supply; BS – Bulk Supplier; NO WS – No water supply; NO SGE – No sewerage

3. Performance monitoring

3.1 Performance reporting

Performance monitoring and benchmarking are required under National Competition Policy and the National Water Initiative, are important for public accountability and have been strongly endorsed by the Independent Pricing and Regulatory Tribunal (IPART).

The State Government promotes continuous performance improvement to improve the quality and efficiency of services to the NSW community. Performance benchmarking provides valuable comparative data which enables each local water utility (LWU) to review and improve its performance by examining trends in its performance indicators and by benchmarking its performance against that of similar utilities.

Water supply and sewerage data was obtained from each LWU's annual performance reports for their water supply and sewerage businesses. These reports are required to be lodged by each LWU on the NSW Performance Monitoring Database by 15 September each year in order to comply with the *Best-Practice Management of Water Supply and Sewerage Guidelines*. Financial data was obtained through the Division of Local Government from each LWU's Special Schedule Nos 3 to 6 and Notes 2 and 3 of the Special Purpose Financial Reports of their *2009-10 Annual Financial Statements*. The NSW Office of Water obtained the charging schedules on water supply, sewerage and trade waste fees and charges directly from each LWU.

3.2. Benchmarking

Each LWU can improve its performance in areas of apparent under-performance by benchmarking its key work processes in these areas with the work processes of one or two high-performing similar LWUs and implementing the best-practices thus identified. This will provide better customer service, reduced environmental impact and better value-for-money for the community.

In addition, each LWU should undertake 'Syndicate Benchmarking' with a group of LWUs with similar characteristics in order to determine current best-practice and to identify existing practices which each LWU can improve.

The syndicate benchmarking pilot project indicates that such process benchmarking should be highly cost effective for all NSW LWUs. The NSW Office of Water will be working with LWUs to facilitate appropriate syndicate benchmarking projects and will disseminate the results.

3.3 TBL performance reports and action plans

The NSW Office of Water provides each utility with an annual TBL Performance Report and a template for its Action Plan to Council for its water supply business and for its sewerage business. The TBL reports disclose the LWU's compliance with the requirements of the Best-Practice Guidelines and its performance for over 50 key performance indicators together with the Statewide medians and the LWU's relative performance against similar sized LWUs. TBL reports and action plans are discussed in section 5.3 on page 19. An example TBL report [page 28] and action plan [page 26] are provided to assist the LWUs.

LWUs that comply with the 19 requirements of the *Best-Practice Management of Water Supply and Sewerage Guidelines*. will have demonstrated effective, sustainable and safe water supply and sewerage businesses and compliance with National Competition Policy and the National Water Initiative (refer to section 4 on page 5).

To assist each LWU to gain a quick appreciation of its performance relative to similar sized LWUs, the LWU TBL Performance Report provides a ranking of each LWU's performance for each performance indicator (second shaded column). These rankings are based on the top 20 per cent of LWUs for each indicator being ranked 1 and the bottom 20 per cent being ranked 5 (LWUs in the range 40 per cent to 60 per cent are ranked 3). In addition, rankings are provided for each LWU's performance relative to all LWUs (third shaded column).

LWUs will appreciate that **each performance indicator is a 'partial' indicator only and therefore cannot be interpreted in isolation**. In addition, the rankings are indicative only and do not take into account the wide range of factors that can impact on an LWU's performance, as discussed in section 5.2 on page 16. The aim of ranking each LWU's performance is to assist the LWU in identifying any areas of under-performance in comparison with similar sized LWUs. It should also be noted that a low ranking for some performance indicators does not necessarily mean an LWU is not performing well as there are a number of factors that can impact performance as shown in section 5.2. For example, the rankings take no account of the impact of utility characteristics (eg. whether the water supply is fully filtered, whether the utility provides a bulk storage dam, whether the supply is a good quality groundwater etc.).

The second page of the TBL reports provide graphs with the LWU's performance over the past 10 years for 15 key indicators (pages 231 and 233). These graphs enable the LWU to review trends over time for each indicator, which provide the most meaningful assessment of performance. The graphs have been updated to include:

- Water usage charge (per kL)
- Residential revenue from usage charges (%)
- Revenue (per property)
- Effluent recycled (%)
- Biosolids reuse (%)
- Sewage that complied with licence (%)
- Net greenhouse gas emissions for water and sewerage (per property)

Each LWU needs to review its performance using its annual TBL performance reports for water supply and sewerage (pages 230 to 233) and to provide an Action Plan to Council (pages 26 and 27) which addresses any areas of under-performance, as outlined in section 5.3 on page 19.

4. Best-practice management

4.1 Regulatory framework

Through the NSW Government's Country Towns Water Supply and Sewerage Program, the *Local Government Act 1993* and the *Water Management Act 2000*, the Minister for Primary Industries is responsible for overseeing and monitoring the performance of NSW country LWUs in the sustainable provision of water supply and sewerage services to the community. The aim of NSW Government policy is for NSW country LWUs is to achieve effective, sustainable and safe water supply and sewerage services.

The State Government provides assistance to country towns in NSW through the Country Towns Water Supply and Sewerage Program, which is administered by the NSW Office of Water. This major reform program provides leadership, guidance and technical assistance in best-practice management, operation and maintenance for LWUs, as well as financial assistance towards the capital cost of backlog water and sewerage infrastructure.

The program was revised in 1996 to foster the development of best-practice management by LWUs in the strategic and operational management of water supply and sewerage systems. The role of Government and the Government's expectations of LWUs in the revised program were as follows:

- government will place increased emphasis on initiatives aimed at assisting LWUs improve their planning and operational management
- compliance with best practice management is a pre-requisite for financial assistance
- financial assistance will be directed towards the capital cost of backlog infrastructure
- government requires LWUs to put into place appropriate strategies to ensure that capital works needed to meet growth or renewals are self funded.

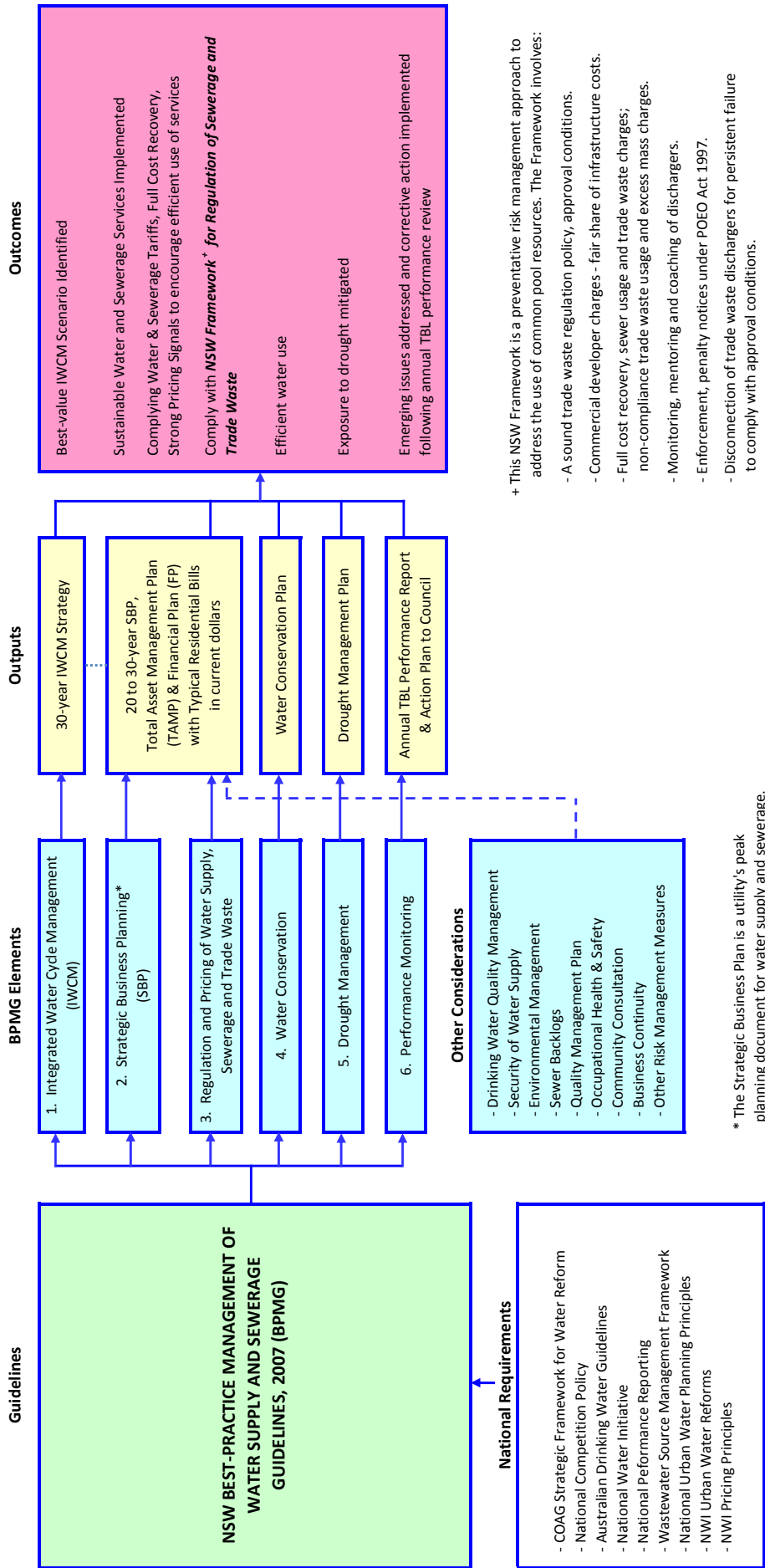
Subsequently, the Minister published the '*Best-Practice Management of Water Supply and Sewerage Guidelines*' in 2004. These guidelines consolidated a number of earlier initiatives and are the key driver for reform of planning and management and for continuing performance improvement by each utility. Compliance with the 19 requirements of the guidelines (page 105) is necessary for the eligibility of LWUs for:

1. the payment of a dividend from the surplus of their water and sewerage businesses to the Council's general revenue
2. financial assistance towards the capital cost of backlog infrastructure.

The Minister published revised *Best-Practice Management Guidelines* in August 2007 in order to update the Guidelines and address the requirements of the National Water Initiative.

Utilities which have met all of the requirements of the *Best-Practice Management Guidelines* are encouraged to pay an 'efficiency dividend' from the surplus of their water supply and sewage businesses to the Council's general revenue. Refer also to the box on page 19.

The NSW Best-Practice Management of Water Supply and Sewerage Framework



Note that the *NSW Best-Practice Management of Water Supply and Sewerage Framework* is the practical means of implementing the Goal of the NSW Government's Country Towns Water Supply and Sewerage (CTWSS) Program by the non-metropolitan NSW local water utilities (LWUs), which are expected to comply with the Framework.

CTWSS PROGRAM GOAL:

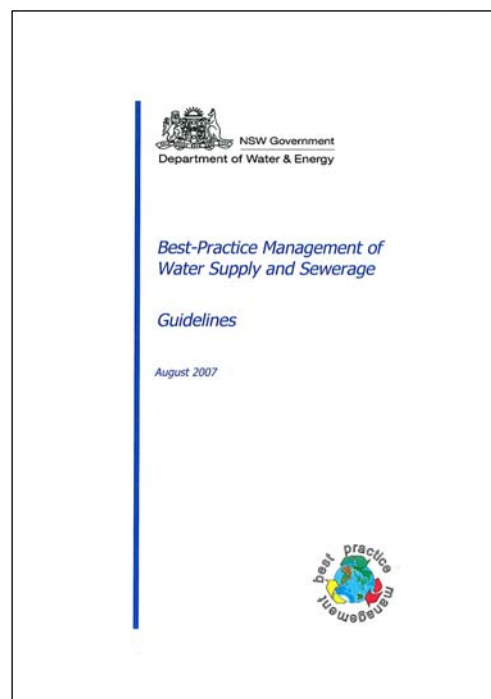
Appropriate, affordable and cost-effective water supply and sewerage services in urban areas of non-metropolitan NSW which meet community needs, protect public health and the environment and make best use of regional resources.

4.2 Best-practice management guidelines

The *Best-Practice Management of Water supply and Sewerage Guidelines* drive reform of planning and management and continuing improvement in performance of water and sewerage businesses in NSW. The guidelines identify the key elements in the delivery of water supply and sewerage services to the community and are available on the NSW Office of Water website (www.water.nsw.gov.au).

The *NSW Best-Practice Management of Water Supply and Sewerage Framework* is shown on page 6, which shows that utilities which comply with the *Best-Practice Management Guidelines* also comply with the 9 national urban water requirements, including:

- *The National Water Initiative (NWI)*;
- *National Urban Water Planning Principles*;
- *NWI Urban Water Reforms*; and
- *The NWI Pricing Principles*.



In summary, the guidelines require an LWU to prepare strategic business plans and financial plans setting out how it plans to manage these businesses over the next 20 to 30 years. This requires negotiation of appropriate levels of service with the community and development of the utility's 30-year asset management plan. This involves a cost-effective capital works program which discloses each of the growth, improved standards and renewals components, together with a sound operation plan and maintenance plan. The strategic business plan must include both the above asset management plan and a sound 20 to 30 year financial plan which identifies the resulting Typical Residential Bill (current dollars) over this period. 91 per cent of the NSW LWUs have now prepared such sound strategic business plans and financial plans, and implementation of these plans should ensure the long term sustainability of these services (Table 5 on page 110).

All utilities are expected to comply with the 19 requirements of the guidelines (Table 3 on page 105), which involve the following six criteria:

- strategic business planning
- pricing and regulation of water supply, sewerage and trade waste
- water conservation and demand management
- drought management
- performance monitoring
- integrated water cycle management.

The reported LWU compliance against each requirement of the Guidelines is shown in Table 3 on page 105 of this report. A summary of LWU compliance is provided on page 18 and Figures 21, 22 and 23 of the *2009-10 NSW Performance Monitoring Report*. Particular attention is required for strategic business planning and financial planning (column 1 of Table 3 on page 105), full cost recovery (column 14a of Table 6 on page 120, column 11a of Table 7 on page 132, page 19), residential water supply revenue from usage charges (column 13 of Table 6 on page 120), non-residential sewer usage charges (column 3a of Table 7 on page 132), liquid trade waste fees and charges (column 2 of Table 7C on page 139), trade waste regulation policy and approvals (columns (1) and (3) of Table 7C on page 139), and an IWCM evaluation (column 20 of Table 8C on page 149).

As noted on page 19 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report*, future IWCM Strategies will need to include assessment of the secure yield of the utility's water supply in accordance with new climate change guidelines to be released in late 2011.

The *Local Government Integrated Planning and Reporting Framework, 2010* has been designed to complement and avoid duplication with the *Best-Practice Management of Water Supply and Sewerage Guidelines*. The inter-relationship of this Framework with the Best-Practice Management Guidelines is shown on pages 4, 95 and 99 of the *NSW Water and Sewerage Strategic Business Planning Guidelines, 2011* (www.water.nsw.gov.au).

Comprehensive software and guidelines to assist LWUs in developing appropriate water supply and sewerage strategic business plans, financial plans, water supply tariffs, sewerage tariffs, liquid trade waste fees and charges, developer charges, asset management plans (capital works plan, operation plan and maintenance plan), asset valuation, greenhouse gas calculation and trade waste regulation policies continue to be available from the NSW Office of Water (Dilip Dutta on tel: (02) 8281 7372, fax: (02) 8281 7351, email: Dilip.Dutta@water.nsw.gov.au).

In addition an IWCM 'Generic Scope of Work' document and seven IWCM information sheets are now available on the NSW Office of Water website (www.water.nsw.gov.au) to provide guidance for LWUs and the requirements for developing a sound IWCM evaluation and IWCM strategy.

4.3 Managing drinking water quality

Australian Drinking Water Guidelines (ADWG) 2004

A **high priority** for each NSW local water utility is to provide a drinking water supply which:

1. Complies with ADWG for microbiological quality (health related).
2. Complies with ADWG for chemical quality (health related).
3. Minimises the incidence⁴ of 'boil water alerts' through providing appropriate water supply and treatment infrastructure and carrying out the necessary maintenance activities. These include adjusting treatment processes in response to changes in raw water quality and regular inspections of service reservoirs in order to detect and repair any breakdown in the bird and vermin proofing of the reservoir roof.
4. Maintains effective disinfection of the utility's water supply distribution system (including a minimum free chlorine residual of about 0.2 mg/L throughout the distribution system).

Guidance on items 3 and 4 above is available on pages 10 and 246 of this report.

In view of their importance for ensuring public health protection, any failures to achieve microbiological compliance in the last 2 financial years or any 'boil water alerts' in the last 18 months, the corrective action implemented and whether it was successful must be reported in your LWU's annual Action Plan to Council. Refer also to page 21.

In addition, utilities responsible for drinking water supplies are required to prepare implement a risk-based drinking water quality management plan in accordance with ADWG (*Public Health Act 2010*).

Assistance is available from your NSW Office of Water Regional Water and Sewerage Inspector (refer to page 34). Tools are being developed by NSW Health and the NSW Office of Water to assist LWUs and assistance is available from the Office of Water (Bill Ho on Tel (02) 8281 7326, fax (02) 8281 7351, e-mail Bill.Ho@water.nsw.gov.au).

Risk based drinking water quality management plan

A safe and reliable drinking water supply is the most essential and critical public health service provided by a Local Water Utility (LWU) to its community. Although 99 per cent of the 20,700 non-metropolitan NSW samples tested for *E. coli* in 2009-10 complied with the *Australian Drinking Water Guidelines 2004* (ADWG), it is a matter of concern that 11 per cent of LWUs did not comply with the guidelines (column 71 of Table 12 on page 161 and Figure 14 on page 50). **Achievement of microbiological compliance is a high priority for each LWU.** As noted on page 21, assistance is available from your NSW Office of Water Regional Water and Sewerage Inspector [contact details on page 34].

The risk of contamination of water supplies due to system failures therefore remains significant, as can be seen in the table overleaf, which indicates 22 boil water alerts were issued by LWUs over the period May 2006 to June 2008.

ADWG recommends a preventative risk management approach for assuring drinking water quality and protecting public health. This approach encompasses all steps in water production from catchments to the consumer and is set out in the Framework for Management of Drinking Water Quality, which includes development of a risk based drinking water quality management plan (refer to page 2-1 of the Guidelines). **Developing a risk based drinking water quality management plan is a high priority for each LWU** and is recommended in the *Best-Practice Management of Water Supply and Sewerage Guidelines, 2007*. NWI Indicator H6 reports on whether the utility has such a plan. It is disappointing to note that only forty-one LWUs have developed such a plan (column 69a of Table 12 on page 161). It is therefore strongly recommended that all LWUs develop a risk based drinking water quality management plan as a matter of priority. Such a plan is required under the *Public Health Act, 2010*. In addition, LWUs with over 10,000 properties should obtain third party accreditation of their plan (NWI Indicator H5 in column 69b of Table 12 on page 161).

Developing a risk based drinking water quality management plan

Chapter 3 of ADWG sets out *the Framework for Management of Drinking Water Quality*. The Framework involves 12 elements, based on a preventative risk management approach containing elements of ISO 9001 (Quality Management), AS/NZS 4360 (Risk Management) and the HACCP (Hazard Analysis & Critical Control Point) systems, which is applied in a drinking water supply context.

For small water supplies, Chapter 4 of ADWG sets out how a range of basic measures can be implemented by the water utility to provide reasonable assurance of safety.

The National Health and Medical Research Council has developed a tool (software), called '*Community Water Planner- A tool for small communities to develop drinking water management plans*'. A risk based management plan for small water supplies can be prepared by using this tool. This tool can also be used to quickly produce a "first cut" risk management plan for larger water supplies.

This tool and user assistance is available from the web link:

<http://www.nhmrc.gov.au/publications/synopses/eh39.htm> - The management plan produced using this tool identifies potential hazards associated with each element of the water supply that can represent public health risk; preventative measures to protect water quality; and operational monitoring and verification monitoring requirements.

⁴ While a boil water alert will be necessary to protect the community, for example if a LWU's raw water sources become highly turbid due to major flooding, over 80% of recent boil water alerts in non-metropolitan NSW were found to be avoidable through appropriate maintenance and chlorine residuals (page 10). LWUs need to follow the NSW Health response protocol if *E. coli* bacteria is found, or if there is failure of the disinfection system, or disinfection is otherwise ineffective eg. due to poor treated water quality. (http://www.health.nsw.gov.au/publichealth/environment/water/nswhrp_microbiological.asp).

Boil water alerts and lessons learnt

Information provided by the Water Unit of NSW Health has revealed that 22 boil water alerts were issued by LWUs over the period May 2006 to June 2008 (refer to the table below). These alerts were imposed due to the failure of the water utility to meet the microbiological water quality requirements of AWDG. The alerts were issued by LWUs of all sizes, with ten alerts issued by LWUs with over 10,000 connected properties, three by utilities with 3,001 to 10,000 properties and nine by utilities with under 3,000 properties. A total of 24,500 people (1.4 per cent of the 1.8 million people served) were affected by these boil water alerts.

Summary of boil water alerts in non-metropolitan NSW – May 2006 to June 2008

| No. of alerts | Reason for alert |
|---------------|---|
| 9 | Inadequate chlorine residual in the distribution system. |
| 8 | Failure of bird proofing which allowed bird entry through gap in reservoir roof contaminating the treated water. |
| 3 | Highly turbid raw water, no filtration plant, ineffective disinfection. ⁵ |
| 1 | Failure to properly clean and disinfect the main after replacement of valves and fittings. |
| 1 | Backflow in the mains due to inadequate backflow prevention device. |

Notes:

- The information in the above table was provided by NSW Health's Water Unit or obtained by the NSW Office of Water from the relevant LWU.
- Duration of boil water alerts generally ranged from two days to 25 days with a median of nine days.
- Total population affected by the 22 boil water alerts was 24,500.

These incidents highlight that almost 80% of the alerts were due to an **inadequate chlorine residual** in the water supply distribution system or bird entry through **failure of the bird proofing** of a reservoir roof. They also show that a number of LWUs have been using reactive measures to protect public health. Preventive management on the basis of a sound risk management plan, with associated work procedures and process controls would have avoided the need for 86% of these boil water alerts.

A number of important lessons have been learnt from the above boil water alerts as tabulated below:

Lessons learnt from the boil water alerts

| Practices | Lessons |
|------------------------------------|---|
| Management | <ul style="list-style-type: none"> Carry out regular preventative maintenance and calibration of chlorinators and associated equipment. |
| Disinfection | <ul style="list-style-type: none"> Maintain a minimum free chlorine residual of about 0.2 mg/L throughout the water supply system⁶ (including extremities). Continuous monitoring⁷ of the chlorination system to warn of any interruptions/failures of the chlorinator. Chlorine demand tests should be carried out on a regular basis. |
| Storage (service reservoirs/tanks) | <ul style="list-style-type: none"> Ensure entry hatches to service reservoirs are secure and that hatches are not left open; particular care is required if third parties (e.g. telephone companies) have been given access to your LWU's reservoirs. Regular inspection is essential to ensure the roof and the bird and vermin proofing of each service reservoir is effective and has not been damaged; early repairs must be effected to ensure integrity of the bird-proofing. |
| Backflow prevention | <ul style="list-style-type: none"> Ensure appropriate backflow prevention devices are installed and are properly maintained (including any rain water tanks used for toilet flushing). |
| Source monitoring | <ul style="list-style-type: none"> Monitor the raw water regularly and after storm events for evidence of changes in colour or turbidity. Chlorine demand tests should be carried out on a regular basis. Adjust chlorine dosing as necessary. |

⁵ Guidance on maintaining effective disinfection of a water supply distribution system is provided in Appendix E on page 246.

⁶ Maintaining such a **chlorine residual** is a key element in the recommended **multi-barrier approach** for assuring drinking water quality. Refer to the example in Table A10 on page A-21 of AWDG.

⁷ Monitoring requirements must be clearly documented by each LWU with appropriate responsibility and authority assigned to suitably **trained officers**.

However, it is important to acknowledge that 14% of the alerts were due to highly turbid raw water during flooding, which was beyond the control of the LWU.

Each LWU should learn from the above valuable lessons in order to minimise the risk of contamination of its drinking water supply. In addition, each LWU should develop and implement a sound risk based drinking water quality management plan.

4.4 Achieving efficient water use

Achieving efficient water use is a key responsibility for each water utility. As shown on page 8 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report* (available at www.water.nsw.gov.au) and Figure 25 on page 62, the non-metropolitan NSW utilities have reduced the average annual residential water supplied per property by 47 per cent over the past 19 years.

Many LWUs have reduced their average annual residential water supplied per property by over 50 per cent over this period through community education, water conservation, water efficient appliances and providing appropriate pricing signals to encourage efficient water use. In particular, as shown on graph 3 on page 183 and Figure 10 on page 46, the median water usage charge for the first step has risen to 163 c/kL. This provides a strong pricing signal and is among the highest of all the other Australian utilities.

LWUs are reminded that Circular LWU 11 of March 2011 (refer also to the box on page 19) has removed the need for use of inclining block tariffs by LWUs. **The NSW Government encourages⁸ LWUs to use a 2-part tariff with a uniform water usage charge per kL for all water use.** IPART has implemented such tariffs for Sydney, Hunter, Gosford and Wyong.

The median revenue from residential water usage charges was 73 per cent (Figure 29 on page 65). However, affordability has been maintained through the \$430 (Jan 2011\$) Typical Residential Bill for water supply, which has reduced slightly over the past 15 years (graph 4 on page 183).

The **strong pricing signals** provided by the NSW LWUs have enabled them to avoid over \$1B in capital expenditure over the last decade for augmenting water supply headworks and treatment capacity and the associated increases in their typical residential bills. The strategic benefits of the strong pricing signals implemented by the NSW water utilities are highlighted on page 5 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report* (available at www.water.nsw.gov.au).

Any LWU which is not achieving the required revenue from residential water usage charges (column 13 of Table 6 on page 120) or full cost recovery (refer to page 19) should develop complying tariffs in order to provide the necessary pricing signals to its customers and achieve the above benefits of efficient water use in its area. Assistance is available from the NSW Office of Water (Dilip Dutta on tel: (02) 8281 7372, fax: (02) 8281 7351, email: Dilip.Dutta@water.nsw.gov.au). Guidance is provided in the box on page 19.

The peak day water supplied per property is shown in Figure 7 on page 43. This affects the sizing of water treatment works, service reservoirs and trunk mains.

4.5 Asset management

Renewals

As noted on page 7, assessment of infrastructure renewals requirements is a critical element of a utility's asset management plan, which must be documented in each utility's 20 to 30-year strategic business plan and financial plan. Details of each LWU's asset rehabilitation activities and renewals expenditure are provided in Tables 10 and 15 on pages 155 and 170 respectively.

⁸ Refer to page 15 of the NSW Government's submission of May 2011 on the Productivity Commission Draft Report 'Australia's Urban Water Sector, April 2011' (available at www.pc.gov.au).

Renewals programs for LWUs vary in complexity from a reactive approach (no renewals, repairs (maintenance) undertaken as required) to development of a comprehensive asset management plan. An asset management plan is essential as it forms the foundation for an LWU's strategic business plan. LWUs are therefore strongly encouraged to continue to develop and update such a plan.

The asset management plan comprises an operation plan, maintenance plan and a capital works plan (involving works for improved levels of service, works to service growth and works for renewals of existing assets).

For a distribution system, for example, an operation plan would be required as part of the LWU's risk management. The operations review would include:

- **An economic analysis** – identifies pipelines where renewal is more economic than continuing with repairs. Takes into account the impact of pipe failure (eg. failure of a pipeline in the CBD has more impact than failure of a pipeline on the outer edge of the system).
- **A reliability analysis** – identifies pipelines where renewal is required for reliability (to ensure performance requirements with regard to supply interruptions can be achieved).
- **A capacity review** – identifies pipelines where augmentation or replacement is required (to maintain the required pressure or flow).
- **A leakage analysis** – identifies whether leakage reduction is economically warranted.

The driver of renewals expenditure is the ability to meet the LWU's performance requirements, i.e. the levels of service and the associated Typical Residential Bill (TRB) negotiated with the community. Other relevant considerations are the condition and age of the assets.

For water supply and sewerage, it is misleading to measure annual renewals expenditure on the basis of a percentage (say one or two per cent) of the current replacement cost of assets. Renewals expenditure will be required towards the end of the economic life of an asset (e.g. a new water main with an economic life of 80 years would be expected to have minimal renewal expenditure before year 80). Therefore, LWUs should ensure that their 30-year financial plan includes capital expenditure, including renewals, identified in a soundly based asset management plan. They should also annually monitor income and expenditure and update the financial plan to enable the LWU to address any new developments. Funding in the financial plan involves an appropriate mix of the utility's annual income, accumulated cash and investments and borrowings. As noted on page 21, your LWU's Action Plan must report on whether the Typical Residential Bill (TRB) is consistent with the projection in your LWU's 30-year strategic business plan and on any warranted corrective action.

As shown in Figure 20 on page 57 and graph 9 on page 184, water main breaks for NSW LWUs have remained much lower than all the other states and the capital city utilities, indicating good water main asset condition.

Further information on the development of a cost-effective asset renewal program can be obtained from the NSW Office of Water (Dilip Dutta, tel: (02) 8281 7372, fax (02) 8281 7351, email Dilip.Dutta@water.nsw.gov.au). Information on asset valuation and economic life can be obtained from the *'NSW Reference Rates Manual for Valuation of Water Supply, Sewerage and Stormwater Assets'*, updated in 2011 and guidance on asset management is provided in the *'Asset Management Guidelines for Water Supply and Sewerage'* NSW Office of Water, 2011.

Leakage

Water leakage and apparent losses are often poorly defined and poorly understood and, in general, water utilities have a relatively limited awareness of the true value of these two parameters within their water supply systems. The International Water Association (IWA) has adopted the following terminology:

- Real losses are physical water losses from the distribution system up to the point of customer metering. They can occur through leaks, bursts and reservoir overflows. Recent LWU results are shown in column 41e of Table 10 on page 155.
- Apparent losses reflect errors in measurement and/or the documentation process. They generally consist of customer use which is not recorded due to metering error (mostly under-registration of worn customer meters), incorrect assumptions of unmeasured use or unauthorised consumption (illegal use), (Refer to columns 4 to 6 of Table 8A on page 145).
- Water losses are the sum of Real Losses (mostly leakage) and Apparent Losses (meter errors, illegal uses).
- Non-revenue water consists of Water Losses plus unbilled authorised consumption. Unbilled authorised consumption may or may not be metered and may include fire fighting and mains flushing. Any watering of parks and gardens should be metered and billed by each LWU.

Leakage management is an essential element of asset management. Leakage cannot be totally avoided due to the large number of connections in a water supply network. Small 'weeps' in connections result in unavoidable losses and these losses increase with higher system pressure.

Leakage and water losses have historically been reported as a percentage of water supplied. Although this identifies the significance of these parameters in relation to the total water supplied, it is not helpful in monitoring the effectiveness of a utility's performance in reducing losses and is perversely affected by reductions in water consumption and water restrictions due to drought. In addition, these indicators do not measure the efficient management of leakage in a distribution system because they take no account of multiple properties, density of service connections, length of mains, customer meter location in relation to the property boundary or the operating pressure. Water loss in L/d per connection is recommended by IWA as the best traditional basic technical indicator for real losses, although it does not account for other factors such as length of main or operating pressure. In particular, reductions in operating pressure have been shown to greatly reduce system leakage.

The Infrastructure Leakage Index (ILI) has been proposed as an indicator which measures how effectively real losses are being managed at current operating pressure while accounting for other influential factors such as length of mains, number of service connections and customer meter location. The ILI is calculated from the ratio of the Current Annual Real Losses (CARL) to the Un-Avoidable Real Losses (UARL). CARL is the annual real losses divided by the number of service connections and percent of time that the system is under pressure, while UARL is a function derived from the length of mains, number of service connections and the average system pressure.

An ILI of 1.0 indicates that only unavoidable losses are occurring and that optimum leakage management is in place. There is of course a significant cost associated with operating a system with an ILI of 1.0 and this may not be warranted. An ILI of less than 1.0 is meaningless while an ILI greater than 1.0 can identify areas where there may be leakage problems. For example, it has been suggested that an ILI in the range 1.0 to 2.9 indicates that substantial efforts are being made to manage and maintain infrastructure and that active leakage control on a continuous or semi continuous basis is being undertaken, while an ILI greater than 2.9 suggests that there may be poor or old infrastructure or a relatively relaxed active leakage control policy.

When interpreting ILI data it should be noted that many of the inputs are imprecise and therefore, while an ILI of 2.2 appears to be better than one of 2.5, in practice it is likely that they both represent similarly well managed systems.

The ILI is recommended by the International Water Association for international comparisons of water utilities. The National Performance Framework has adopted the ILI as a measure of leakage and the NSW Office of Water has reported the ILI for each LWU since 2005-06 (column 41b of Table 10 on page 155). The NSW Office of Water will also continue to report leakage as L/d per connection (the relevant measure for utilities with over 20 connections/km, which is the vast majority of NSW LWUs)

and kL/km of water main/d (columns 41 and 41a of Table 10 on page 155, Figure 26 on page 63), which are better measures for tracking an LWU's leakage performance over time. These indicators are also preferred in the National Performance Framework.

Analysis by the International Water Association has demonstrated that the Australian urban water utilities (based on the results reported in the National Performance Report 2007-08 for urban water utilities) are by far⁹ the best performing urban water utilities in the world for minimising leakage and real losses.

Previous leakage studies for over 40 NSW water utilities found an average leakage of 17 per cent of annual consumption (range six per cent to 35 per cent). It is suggested that at present, most water utilities do not have sufficient data to determine the true extent of leakage in their system. The best means of assessing leakage is to undertake a reservoir drop test, detailed waste metering or night flow analysis of district meter areas. It is encouraging that Table 10 on page 155 shows that 48 NSW utilities have reported they have recently undertaken a reservoir drop test or night flow analysis in order to determine their present real losses and opportunities for leakage reduction. In addition, the LGA and SA and Water Directorate, Water Loss Management Program (Ian Maggs on tel: (02) 9242 4127) has reported that 74 of the 94 non-metropolitan NSW utilities responsible for providing reticulated water supply are participating in the Program. Refer also to note 14 on page 32.

Greenhouse gases

The National Water Initiative requires LWUs to report both direct and some indirect greenhouse gas (GHG) emission estimates (columns 35a to 35d of Table 5B on page 117). A greenhouse gas calculator has been developed by the NSW Office of Water to assist LWUs. The calculator has been provided to all LWUs and is included in Appendix G on page 267. Direct emissions are produced from sources within the boundary of an organisation and as a result of that organisation's activities. Direct emissions mainly arise from the following activities:

- Generation of energy, heat, steam and electricity.
- Manufacturing processes.
- Transportation of materials, products, waste and people.
- Fugitive emissions (e.g. Intentional or unintentional emissions from natural gas leaks, joints and seals).
- On-site waste management such as emissions from landfill sites.

For example, LWUs with a car fleet should report gas emissions from combustion of petrol in those motor vehicles as direct emissions.

Emission factors for calculating direct emissions are generally expressed in the form of mass of GHG emitted per unit of energy (kg CO₂/GJ). Emission factors are used to calculate GHG emissions by multiplying the factor (e.g. kg CO₂/GJ energy in petrol) with activity data (e.g. kL x energy density of petrol used).

Indirect emissions are emissions generated in the wider economy as a consequence of the LWU's activities, but which are physically produced by the activities of another organisation. For example, off-site waste disposal.

Emission factors and examples of the calculation of GHG emissions are provided by the Department of Climate Change – National Greenhouse Accounts (NGA) Factors (www.climatechange.gov.au/workbook/pubs/workbook-feb2008.pdf).

It is noted that many opportunities for reducing greenhouse gas emissions are often missed because their financial attractiveness is masked by not considering their full costs and benefits.

⁹ Alan Lambert "The Future of Leakage Indicators" presentation to the National Performance Report 2008-09 Definitions Review and Planning Workshop, 11 February 2010.

5. Improving performance

5.1 Performance review

A utility's **overall aim** for its water supply and sewerage businesses should be to provide the levels of service negotiated with its community at the lowest sustainable Typical Residential Bill (TRB). This is done by setting cost-reflective developer charges, non residential charges and liquid trade waste fees and charges and then minimising its TRB in current dollars on a sustainable basis. As noted on pages 6 and 19, utilities which have complied with the *Best-Practice Management Guidelines (BPMG)* are encouraged to pay an 'efficiency dividend' to the Council's general revenue and should also include the dividend amount.

In practice this means reviewing whether your performance indicators under 'Social', 'Environmental' and 'Economic' are satisfactory. If they are not, you need to develop options to raise your levels of service and consult the community to establish the option which provides the best value for money.

The typical residential bill is the principal indicator of the overall cost of a water supply or sewerage system (column 13b of Table 5 on page 110, Figure 1 on page 36, column 8 of Table 6 on page 120, Figure 8 on page 44, column 8 of Table 7 on page 132, Figure 40 on page 76) and is the annual bill paid by a residential customer using the utility's average annual residential water supplied (column 14 of Table 6 on page 120, Figure 25 on page 62). A critical element in minimising the typical residential bill and providing value for money for the community is to ensure each utility's operating cost (OMA – operation, maintenance and administration) (column 67 of Table 11 on page 158, Figures 31, 32, 33 on pages 67, 68, 69) is efficient.

The steps that each LWU should follow to review performance are:

1. **Check compliance with BPMG** and highlight areas of non-compliance. Any non-compliances must be addressed as a priority.
2. **Review performance** using the indicators shown on the first page of the TBL performance report for each of water supply and sewerage (example review and Action Plan is on pages 26 and 27, example reports are on pages 28 and 29). Particular note should be taken of indicators that appear to be less than satisfactory ie. with a ranking of 4 or 5.
3. **Identify any trends** over the past ten years in the selected performance indicators shown on the second page of your TBL performance report, and compare with the latest values shown for the Statewide median values and the top 20%.

In undertaking a review of indicators and trends in performance, LWUs should take note of the many factors that may contribute to the apparent under-performance (see also section 5.2 on page 16). If further analysis is warranted (eg. if the ranking of the performance indicator is low and remains unexplained or other factors suggest apparent under-performance), then the following may also be required.

4. **Compare selected performance indicators** with those of similar sized utilities using Figures 1 to 66 showing performance trends for four utility size ranges over the past six years.

Where in-depth investigation is warranted for selected indicators, the LWU can also undertake process benchmarking.

5. **Process benchmarking** for selected indicators for areas of apparent under-performance, e.g. where the LWU has a low ranking relative to LWUs with similar characteristics.

5.2 Factors impacting performance

When comparing reported performance, utilities should take account of the wide range of factors which can impact on their performance and typical residential bill, which is the principal indicator of the overall cost of a water or sewerage system. Such factors can produce a fundamental difference in performance.

For example, in the case of water supply, a utility which provides full water treatment and has its own bulk storage dam will have a much higher capital and operating cost structure than a utility which has a good quality groundwater supply. Each utility can improve its performance by taking account of such factors and comparing its performance with utilities having similar characteristics.

Other factors include the extent of the services provided by each utility, geography, climate etc. An understanding of these factors is vital for valid interpretation of performance data. Each utility can improve its performance by taking account of such factors and comparing its performance with utilities having similar characteristics (refer to pages 16 and 17).

The most meaningful performance indicators are the trends over time for each utility. This involves analysis along the lines of Items 3 and 4 on page 15. However, even with such analysis, care needs to be exercised due to changes in the factors over time. For comparison between utilities, each utility should benchmark its performance with utilities having similar characteristics.

Some of the factors which can affect the performance of a water supply system are outlined below.

Utility characteristics

1. **Climate** – the variability of rainfall is a key driver of water supply costs in relation to water demand and drought security. This will affect both capital and operation and maintenance costs. For example, the average annual residential water supplied in inland NSW is over 60% higher than coastal NSW
2. **Geography** – Geology, geography and topography can significantly affect water transportation costs.
3. **Asset life cycle** – Recently constructed systems have much lower maintenance and renewals costs compared to older systems. They also have higher Typical Residential Bills and loan payments. Refer also to page 11.
4. **Development density** – Distribution networks are a major investment component of a water supply system. The density of urban development has a large effect on the infrastructure cost (e.g. the number of properties served per km of main has a Statewide median of 33, but has a range of 5 to 90 (column 26 of Table 9 on page 152, Figure 5 on page 40)). A further key factor is the number of small discrete urban water supply systems operated by the utility which tend to greatly increase both the capital cost¹⁰ and the operating cost per property.
5. **Water resources availability and proximity** – can incur significant capital and operating costs. Such costs would not apply for utilities relying on groundwater or those receiving a regulated supply from a State Water dam (Note 17 on page 33). Such costs would not apply for utilities relying on groundwater or those receiving a regulated supply from a State Water dam.
6. **Size of LWU** – there are significant economies of scale for large utilities, particularly the capital cost of infrastructure and the operation and maintenance costs of water treatment works (Figure 35 on page 71). Refer also to footnote 10 below.

¹⁰ The lack of economy of scale and the lower development density in small towns result in a **capital cost per property** for providing water supply trunk mains to a town of 300 properties being typically over **3 times** that required for servicing a contiguous city of 15,000 properties. The capital cost per property for other structures such as water treatment works, service reservoirs, pumping stations and dams is similarly affected. This highlights the importance of Government financial assistance towards the capital cost of servicing backlog areas and why appropriate standards should be used, such as those in the *Handbook for Affordable Water Supply and Sewerage for Small Communities, 1999*.

Social – levels of service

7. **Service standards** – Increasingly stringent standards for water quality and environmental health may result in additional capital and operation and maintenance costs to the utility. Similarly, requirements for minimum pressures or rates of flow can also affect costs.
8. **Filtered supply** – will incur both a high capital cost and a high treatment cost per property for small water supply systems (utilities without ‘unfiltered’ or ‘groundwater’ after their name in Tables 3, 5 and 6 have water treatment involving at least filtration and disinfection for over 50 per cent of their water supply) (Note 18 on page 33).

Environmental

9. **High average annual residential water supplied per property** (column 56a of Table 10 on page 155, Figure 25 on page 62) – such utilities should examine opportunities for reducing the water supplied through water conservation and implementation of best-practice water pricing. Achieving efficient water use is a key responsibility for a water utility. As shown on Figure 25, the non-metropolitan NSW utilities have reduced the average annual residential water supplied per property by 47 per cent over the past 19 years. Many utilities with 3,000 to 10,000 connected properties are providing relatively weak pricing signals to their residential customers through their water usage charges. These utilities should review their tariff structure to provide appropriate pricing signals. Assistance is available from the NSW Office of Water in this regard (page 8). Refer also to section 4.4 on page 11.

Economic

10. **High loan payment per property** – indicates a relatively high capital cost per property, recent construction of significant capital works or use of short-term loans. Twenty-year loan terms are recommended in order to minimise the required Typical Residential Bill (TRB), which avoids unfairly burdening existing customers and facilitates inter-generational equity.
11. **High pumping cost** (columns 94 to 99 of Table 13 on page 164, Figure 36 on page 72) – is influenced mainly by topography and geography. As noted on page 25, the LWU may be able to achieve significant savings in energy cost.

Similar considerations to those listed in this section apply to sewerage. In addition, a significant cost impactor is whether the LWU is operating nutrient removal facilities at its treatment works or providing filtration and disinfection of its treated sewage effluent.

Median economic efficiency indicators for four sizes of LWUs – Water Supply 2009-10

| Size of LWU | Over 10,000 connected properties | 3,001 to 10,000 connected properties | 1,501 to 3,000 connected properties | 200 to 1,500 connected properties |
|--|--|--|---|---|
| Performance indicator | (25 LWUs) | (29 LWUs) | (19 LWUs) | (21 LWUs) |
| Operating cost/property (\$) | 336 | 453 | 384 | 484 |
| Operating cost (c/kL) | 121 | 106 | 106 | 74 |
| Operating cost/100 km (\$'000) | 1,150 | 1,027 | 1,026 | 844 |
| Management cost/property (\$) | 133 | 151 | 116 | 138 |
| Treatment cost ¹ /property (\$) | 37 | 102 | 123 | 139 |
| Pumping cost/property (\$) | 26 | 26 | 52 | 71 |
| Energy cost ² /property (\$) | 18 | 14 | 23 | 44 |
| Water Main cost/property (\$) | 56 | 67 | 67 | 87 |
| No. of employees/1,000 properties | 1.4 | 1.6 | 1.8 | 2.5 |
| Economic Real Rate of Return | 0.7 | 0.9 | 1.2 | -0.5 |
| Capital expenditure (\$ per property) | 417 | 195 | 153 | 153 |
| Properties served/km of main | 38 | 28 | 28 | 22 |

Notes:

1. Only LWUs with a treatment works with at least filtration and disinfection for over 50 per cent of supply have been considered.
2. A component of pumping cost.

Median economic efficiency indicators for four sizes of LWUs – Sewerage 2009-10

| Size of LWU | Over 10,000 connected properties | 3,001 to 10,000 connected properties | 1,501 to 3,000 connected properties | 200 to 1,500 connected properties |
|--|--|--|---|---|
| Performance indicator | (21 LWUs) | (27 LWUs) | (24 LWUs) | (28 LWUs) |
| Operating cost/property (\$) | 366 | 381 | 292 | 294 |
| Operating cost (c/kL) | 161 | 161 | 158 | 130 |
| Operating cost/100 km (\$'000) | 1,567 | 1,230 | 952 | 880 |
| Management cost/property (\$) | 127 | 120 | 107 | 69 |
| Treatment cost/property (\$) | 110 | 115 | 111 | 107 |
| Pumping cost/property (\$) | 49 | 59 | 38 | 40 |
| Energy cost ¹ /property (\$) | 26 | 22 | 24 | 23 |
| Sewer main cost/property (\$) | 37 | 59 | 33 | 30 |
| No. of employees/1,000 properties | 1.4 | 1.8 | 1.5 | 2.0 |
| Economic Real Rate of Return | 1.5 | 1.1 | 0.5 | 0.4 |
| Capital expenditure (\$ per property) | 363 | 176 | 116 | 99 |
| Properties served/km of main | 42 | 36 | 33 | 31 |

Note:

1. A component of pumping and treatment costs.

5.3 Action plan

Each LWU is required to prepare an annual Action Plan to Council, based on its review of the LWU's TBL Performance Report for its water supply business and for its sewerage business. The Action Plan should address any areas of under-performance and should also document any target dates for remedial actions. It should also report results for the financial year for the key actions set out in the utility's Strategic Business Plan.

A key role for the Action Plan is to 'close the planning loop' with the utility's strategic business plan. The utility's TRB must therefore be compared with the projection in its strategic business plan and any necessary corrective action documented in the Action Plan (indicator 14 on page 26).

An example Action Plan is shown on pages 26 and 27. In order to assist LWUs, the NSW Office of Water will continue to provide a template for each LWU's Action Plan together with the annual TBL reports for each LWU.

The template will show the LWU's results, the drivers for each indicator and the LWU's ranking relative to similar sized LWUs followed by the ranking relative to all LWUs. Space is provided for the LWU to indicate proposed actions and its findings (the right hand column on pages 26 and 27).

ACHIEVING FULL COST RECOVERY FOR WATER SUPPLY

Some NSW utilities have been using a long-term financial model where they input water supply access and usage charges and projected volumes of water supplied to determine the required future revenue. A number of these utilities have experienced significant revenue shortfalls in recent years as a result of reduced water sales due to more efficient water use by residents and/or drought water restrictions.

Accordingly, it is recommended that utilities do not use models involving access and usage charges in order to avoid such revenue shortfalls as well as potentially misleading customers on the required future access and usage charges. Rather, utilities should use a model such as the NSW Financial Planning Model (FINMOD) which determines the required future typical residential bill and annual revenue in current dollars.

Your utility can then set each year's water supply tariff in accordance with Circular LWU 11 of March 2011 using an evidence based estimate of the residential water to be supplied in the next financial year, together with the access and usage charges required to yield the Typical Residential Bill and annual revenue in accordance with your 20 to 30-year financial plan.

Such an approach is transparent as the financial modelling discloses the required Typical Residential Bill (and annual revenue) in current dollars as required by Items 1 and 16 of the Check List in Appendix F of the *NSW Water and Sewerage Strategic Business Planning Guidelines, 2011*. In addition, annually setting your water supply tariff in accordance with Circular LWU 11 will minimise the risk of revenue shortfalls while maintaining Typical Residential Bills in accordance with your LWU's financial plan. Assistance is available from the Office of Water (Dilip Dutta on Tel (02) 8281 7372, fax (02) 8281 7351, e-mail Dilip.Dutta@water.nsw.gov.au).

In addition, each LWU which meets all the requirements of the *Best-Practice Management Guidelines* is encouraged to pay a dividend from the surplus of its water and sewerage businesses to the council's general revenue. A LWU which pays such an 'efficiency dividend' will be moving towards **upper bound pricing**, which is required under the National Water Initiative, where practicable. Refer also to section 4.4 on page 11 and to the box on page 5 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report* which highlights the strategic benefits of strong pricing signals and the resulting efficient water use.

In order to prepare an Action Plan, it will be necessary for each LWU to review its performance. In practice this means reviewing whether the performance indicators under 'Health', 'Levels of Service', 'Environmental' and 'Economic' are satisfactory, taking into account factors that may affect performance outlined below. If the indicators are unsatisfactory, the LWU will need to develop suitable options to improve performance.

Guidance for councillors on quickly understanding and using your TBL Performance Report and Action Plan is provided in Appendix G of the *NSW Water and Sewerage Strategic Business Planning Guidelines, July 2011* (www.water.nsw.gov.au). This appendix will also assist the water and sewerage manager in preparing a sound Action Plan to Council.

Compliance with best practice management guidelines

Compliance with each of the key requirements (Table 3 on page 105) of the guidelines is shown on the TBL Report (page 28). LWUs should review these results and address any areas of non-compliance. For each instance of non compliance, the Action Plan should briefly outline the strategy and target date for achieving compliance. LWUs that achieve the outcomes required by the guidelines will have effective, sustainable and safe water supply and sewerage businesses and will comply with the National Water Initiative. As noted on page 6 compliance with the 19 requirements of the guidelines is also a prerequisite for payment of a dividend from the surplus of the LWU's water supply or sewerage business and for financial assistance towards the capital cost of backlog infrastructure under the Country Towns Water Supply and Sewerage Program.

Performance based on triple bottom line

LWUs should review the Performance indicators shown in the TBL Report and investigate those indicators where performance is below the median. In particular, for those indicators with a ranking of 4 or 5, LWUs should investigate the reasons for the ranking and if appropriate, develop a strategy for improvement. It should be noted that a low ranking does not necessarily imply poor performance as there are a number of factors that can impact performance as shown in section 5.2 on page 16. For example, the rankings take no account of the impact of utility characteristics (e.g. whether the water supply is fully filtered or whether it is a good quality groundwater, whether the LWU provides bulk storage etc). The Action Plan should take account of these characteristics.

As noted above, the rankings are based on statewide medians. While all LWUs should strive to raise their performance to at least the statewide 80 percentile (Tables 1 and 2 on pages 103 and 104), it is also useful to compare your LWU's performance with LWUs of a similar size. To assist LWUs in such comparisons, the medians for the relevant indicators have been shown in Tables 5 to 18 for each LWU size grouping. In addition, LWUs may benchmark their performance against LWUs with similar characteristics (section 3.3 on page 3).

Of particular importance is for the Action Plan to identify trends in your LWU's performance indicators over the last 10 years (using the second page of the TBL Performance Report). This analysis of the trends in your utility's performance indicators is a powerful tool for monitoring and improving your performance.

Further factors that may assist LWUs in their assessment of performance are listed below.

Utility characteristics

- **Renewals** – LWUs should ensure that their TRB in current dollars (i.e. adjusted for inflation) is consistent with the projection in its 30 year financial plan in order to ensure it is raising sufficient revenue for the required infrastructure. LWUs should also examine their asset management plan and ensure that the necessary funds are directed to maintenance and renewals. Refer to page 11.
- **Employees** – the number of employees per 1,000 properties is a good indicator of operating and management costs (column 32 of Table 9 on page 152, Figure 8 on page 44, column 14 of Table 14 on page 167, Figure 39 on page 75). If the number of employees per 1,000 properties is significantly higher than the median shown in the tables on page 18 for the size of LWU, you should examine the management structure and identify the reasons for the difference and provide a brief explanation or your proposed remedial action in the Action Plan. Refer also to the comment on management cost on page 24.
- **Properties served per km** – the density of urban development has a large effect on the infrastructure cost. For LWUs with >10,000 properties the median is 39 properties per km (range 17 to 69), while for LWUs with 200 to 1,500 properties the median is 20 (range 2 to 36) (column 26 of Table 9 on page 152, Figure 5 on page 40, column 9 of Table 14 on page 167, Figure 38 on page 74).

Social factors

Affordability

- **Typical residential bill (TRB)** – as noted on page 15, this is the principal indicator of the overall cost of a water supply or sewerage system (it is the annual bill paid by a residential customer using the utility's average annual residential water supplied). A critical element of the TRB is the operating cost (OMA – operation, maintenance and administration) (column 67 of Table 11 on page 158, Figures 31, 32, 33 on pages 67, 68, 69) as noted on page 24 under Economic Factors – Efficiency. As noted on page 19, your LWU's Action Plan must report on whether the TRB is consistent with the projection in your LWU's 30-year strategic business plan and on any warranted corrective action.
- **Residential water usage charge (c/kL)** – Higher usage charges have been ranked '1' because they provide a strong pricing signal, while lower charges have been ranked '5'. However, this indicator should be viewed in conjunction with the TRB and whether the LWU is achieving full cost recovery, in which case a lower water usage charge may be a good result. The **strategic benefits of strong pricing signals** and the resulting efficient water use are highlighted on page 5 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report*.

Health

- **Microbiological water quality compliance (per cent)** – This is the most important water supply health indicator and **achievement of microbiological compliance is a high priority for each LWU**. Microbiological non-compliance and boil water alerts must be reported in the annual Action Plan to Council in accordance with the box on page 8. As shown in Figure 14 on page 50, 89 per cent of LWUs complied with the microbiological water quality requirements in 2009-10 (also refer to column 8 of Table 5 on page 110). The 11 LWUs with less than 98 per cent do not comply with the Australian Drinking Water Guidelines, 2004. These LWUs, which each serve between 500 and 7,200 connected properties should identify the reasons for non-compliance. This and the remedial action implemented must be reported in your LWU's Action Plan to Council (refer to pages 8 to 11 and to Appendix E on page 246). Assistance is available from your NSW Office of Water Regional Water and Sewerage Inspector (refer to page 34 for the contact details of each inspector).

As indicated in section 4.3 on pages 8 and 9, each LWU should develop and implement a sound risk-based drinking water quality management plan as a matter of priority. Assistance is available from the NSW Office of Water (Bill Ho on tel: (02) 8281 7326).

- **Public health incidents** – Where this indicator is significantly higher than the statewide median, your LWU's Action Plan should provide a brief explanation together with proposed remedial action if appropriate.
- **Capital investment on improving public health** – If a LWU reported zero for this indicator, investigate to ensure that this indicator is not under reported.

Customer service

- **Water quality complaints** – LWUs with a high number of complaints (in the bottom 20 per cent of LWUs) should investigate the reasons for the complaints, including past performance and trends indicated in page two of the TBL Report. Provide a brief explanation together with proposed remedial action in your LWU's Action Plan. Note that the result for this indicator will be influenced by the type of business (e.g. Unfiltered supply, groundwater etc) (column 8b of Table 5 on page 110, Figure 18 on page 54).
- **Odour complaints** – This is a critical indicator for providing appropriate sewerage levels of service. LWUs with a high number of complaints (in the bottom 20 per cent of LWUs) should investigate the reasons for the complaints; including past performance and trends indicated in page two of the TBL Report. Provide a brief explanation together with proposed remedial action in your LWU's Action Plan (column 11 of Table 5 on page 110, Figure 45 on page 82).
- **Number of main breaks** – LWUs should annually monitor their breaks/100km of main, paying close attention to any sections of main with a high incidence of breaks (say treble the statewide median of nine breaks per 100 km). LWUs with a high incidence of breaks should investigate the likely reasons for the breaks, including the past performance and trends indicated in page two of the TBL Report. Provide a brief explanation together with proposed remedial action in your LWU's Action Plan (column 3a of Table 5 on page 110, Figure 20 on page 57). Refer also to section 4.5 on page 11.
- **Average duration of unplanned interruptions (water)** – where this indicator is significantly higher than the statewide median, your LWU's Action Plan should provide a brief explanation together with proposed remedial action if appropriate (column 3b of Table 5 on page 110).
- **Average break/choke repair time (sewerage)** – where this indicator is significantly higher than the statewide median of 120 minutes, your LWU's Action Plan should provide a brief explanation together with proposed remedial action if appropriate (column 65 of Table 17 on page 176).

Environmental factors

- **Average annual residential water supplied** – This indicator is heavily influenced by the location and type of LWU (e.g. an inland LWU would expect to have high residential water supplied while an LWU with a dual supply would expect to have a very high value) and any applied water restrictions. Inland LWUs have significantly higher residential water supplied due to their hotter and drier climate and the use of evaporative coolers. Note that the median residential water supplied for inland LWUs in 2009-10 was 245 kL/property compared to 150 kL/property for coastal LWUs (column 14 of Table 6 on page 120, Figure 25 on page 62). Refer also to Item 9 on page 17.
- **Real Losses** – LWUs should monitor their Real Losses (column 41 of Table 10 on page 155) in L/d /connection. These should be minimised if the LWU is facing drought water restrictions or the need for augmenting the capacity of its water supply headworks system or its water treatment works. Such reduction of Real Losses will provide major economic benefits through deferral of the need for capital investment for upgrading of infrastructure. As noted on page 14, for almost all LWUs,

monitoring your leakage in “L/d per connection” is the relevant measure for tracking your LWU’s leakage performance.

- **Water Losses (ILI)** – The real losses above are the principal indicators of leakage performance. The ILI may provide some additional information. ILI values of less than about 1.5 indicate excellent management of real losses, while an ILI close to 1.0 means that the real losses are close to the unavoidable or technical minimum losses. Such low ILI values are only likely to be economically justified where marginal costs of water supply are relatively high (e.g. desalination) or where water is scarce. An ILI of less than 1.0 is meaningless and may indicate errors in the input data. An ILI greater than three may indicate old or poor infrastructure or a relatively relaxed active leakage control policy (column 41b of Table 10 on page 155).
- **Recycled water** – The volume of recycled water use includes effluent reuse for town water and for agricultural uses. The volume reported for town water should equal the recycled volume shown in the water supply report. In 2009-10 25 per cent of LWUs reused over 50 per cent of their effluent (columns 13 to 14b of Table 8 on page 141 and Figures 54 and 55 on pages 91 and 92). As shown on Figure 54 on page 91, the highest volume recycled by a utility was 3,590 ML and a further eight utilities each recycled over 1,000 ML.
- **Compliance with BOD in licence** – where compliance is low (e.g. below 90 per cent), provide a brief explanation together with proposed remedial action in the Action Plan (column 55 of Table 17 on page 176, Figure 47 on page 84).
- **Compliance with SS in licence** – where compliance is low (e.g. in the bottom 20 per cent of LWUs), provide a brief explanation together with proposed remedial action in the Action Plan if appropriate (column 57 of Table 17 on page 176, Figure 48 on page 85).
- **Sewer main breaks and chokes** – sections of sewer main with a high incidence of breaks and chokes (say treble the statewide median of 44 per 1,000 connected properties) warrant close attention. Provide a brief explanation together with proposed remedial action in the Action Plan (column 59 of Table 17 on page 176, Figure 51 on page 88).
- **Sewer overflows to the environment** – where this indicator is significantly higher than the statewide median, provide a brief explanation together with proposed remedial action in the Action Plan (column 60 of Table 17 on page 176, Figure 53 on page 90).
- **Environmental incidents** – where this indicator is significantly higher than the statewide median, provide a brief explanation together with proposed remedial action in the Action Plan.

Economic factors

Financial

- **Residential revenue from usage charge (per cent)** – The revised Best Practice Management Guidelines require LWUs with greater than 4,000 properties to have at least 75 per cent of residential revenue generated through usage charges, while LWUs with less than 4,000 properties, including LWUs with a dual supply must have at least 50 per cent of residential revenue generated through usage charges. This is a key demand management measure to ensure customers receive a sufficiently high pricing signal to encourage careful water use (column 13 of Table 6 on page 120, Figure 29 on page 65). As noted in Section 4.4 on page 11, the statewide median residential revenue from water usage charges was 73 per cent. Refer also to item 9 on page 17 and the residential water usage charge on page 21.
- **Economic real rate of return (ERRR)** – this reflects the rate of return generated from operating activities (i.e. excluding interest income, grants for acquisition of assets and gain/loss on disposal of assets). Water and sewerage charges should be sufficiently high to ensure continuing financial viability and provide for asset renewals and a positive rate of return, but not so high that they

generate excessive monopoly profits. The ERRR is a good indicator of the financial health of a business (column 12 of Table 6 on page 120, Figure 30 on page 66, column 11 of Table 7 on page 132, Figure 59 on page 95). The recent drought has had a significant effect on the rate of return for many LWUs, as a reduced volume of water supplied has reduced their income from water usage charges and these LWUs have not set their tariff taking in to account this reduced volume. LWUs should set each year's tariff to raise the required revenue on the basis of its careful estimate of the water to be supplied in the next financial year as indicated in the box on page 19. This is particularly important during drought periods. Refer also to Figures 13 and 14 of the *2009-10 NSW Performance Monitoring Report*.

- **Return on assets** – this ratio is similar to the ERRR. It indicates the earnings generated before interest and tax (EBIT) for the assets controlled by the business. It is calculated as the operating profit before dividends divided by the difference between total assets and total liabilities. All LWUs should aim to achieve a positive return on assets (column 11 of Table 6 on page 120, column 9 of Table 7 on page 132, column 24c of Table 5A on page 114).
- **Net Debt to equity**¹¹ – net debt is the sum of long and short term borrowings less cash and investments. Equity is the total assets less total liabilities. In 2009-10 the NSW median net debt to equity for water supply and sewerage was -7% (column 19a of Table 5 on page 110). LWUs facing significant capital investment are encouraged to make greater use of borrowings to reduce their required TRB. Twenty year loan terms are recommended in order to avoid an unfair financial burden on existing customers and to facilitate inter-generational equity.
- **Loan payment (\$/property)** – this indicator shows the component of the TRB applied to meet debt payments. A high loan payment per property indicates a relatively high capital cost per property, recent construction of significant capital works or use of short-term loans (column 66a of Table 11 on page 158 and column 51a of Table 16 on page 173). The median loan payment in 2009-10 for water supply was \$52 per connected property (Table 1 on page 103).
- **Interest cover** – this ratio is an indicator of the LWU's ability to meet interest commitments. It is calculated as the earnings before interest and tax (EBIT) divided by net interest (interest expense less interest income). The interest cover is nil for a loss making business (column 27 of Table 5A on page 114). As a general guide, an interest cover >2 is a good interest cover position. For 2009-10, the median interest cover for sewerage was 2.

Efficiency

The operating cost (OMA – operation, maintenance and administration) per property is a prime indicator of the performance of an LWU and should be reviewed carefully by each LWU to ensure it has an efficient operating cost (column 67 of Table 11 on page 158, Figure 31 on page 67). The components of operating cost are:

- **Management cost** – this includes administration, engineering and supervision and is typically almost 40 per cent of the total operating cost (column 68a of Table 11 on page 158, Figure 34 on page 70). The number of employees per 1,000 properties can be a good indicator of the operating and management costs and hence the efficiency of an LWU. However, LWUs with a number of non-contiguous (i.e. separate) water supply systems and those with small water treatment works or small sewage treatment works will need a higher level of employees/1000 properties in order to effectively manage their systems (refer also to page 21). Similarly, LWUs with a low development

¹¹ It is important to note that most NSW LWUs have relatively little borrowings at present. In 2009-10 the Statewide median net debt/equity for LWU water and sewerage was -7% (range -75% to 30%). The 2009-10 debt/equity for major Australian utilities include 120% for Sydney Water, 85% for ACT Electricity and Water, 75% for Melbourne Water, 40% for Water Corporation (WA) and 39% for Hunter Water (National Performance Report 2009-2010 for Urban Water Utilities). Refer also to graph 21 on page 61. Providing your utility has a soundly based asset management plan and financial plan (including sensitivity analysis), debt/equity of up to 50% when financing a major capital works program for growth and/or improved levels of service, would be satisfactory for NSW LWUs.

density, under about 20 properties served / km of water main (column 26 of Table 9 on page 152) will need a higher level of employees.

- **Treatment cost (water)** – (columns 104 to 107 of Table 13 on page 164, Figure 35 on page 71) this is dependent on the type and quality of the water source and the extent of treatment provided. In addition, as shown in the Table on page 18, there are great economies of scale for the operation of water treatment works (ie. facilities involving at least filtration and disinfection).
- **Treatment cost (sewage)** – (columns 90 to 92 of Table 18 on page 179, Figure 64 on page 100) this is dependent on the type of treatment and the discharge requirements. Where the discharge licence conditions are stringent, involving for example a low level of phosphorus, treatment costs will be high.
- **Pumping cost (water)** – (columns 94 to 99 of Table 13 on page 164, Figure 36 on page 72) this is dependent on topography and, for water supply, the location of the water source. For example, Country Energy has a high pumping cost due to the distance required to pump from the water source, while Fish River is almost a fully gravitational supply, with negligible pumping costs. For water supply, there are significant economies of scale in pumping cost per property.
- **Energy cost** – (columns 98 and 99 of Table 13 on page 164) this is mainly a consequence of pumping requirements and is a component of pumping cost for water supply. Energy cost may be reduced by maximising pumping in off peak periods or by obtaining a competitive energy rate from the energy supplier (e.g. maximising off peak pumping has provided annual savings in energy costs of over \$200,000 for a number of large water supplies).

For sewerage, energy cost is a component of pumping and treatment costs (columns 83 and 84 of Table 18 on page 179). Significant cost savings may be available by optimising energy use in the treatment process (e.g. such optimising of energy use has provided annual savings of over \$100,000 for a number of large sewage treatment works).

- **Water and Sewerage mains cost** – (column 84 of Table 13 on page 164, Figure 37 on page 73, column 70 of Table 18 on page 179, Figure 66 on page 102) this is dependent on the age and condition of the mains, the ground conditions and the number of connected properties per km of main.

5.4 Example TBL report and action plan – Shoalhaven City Council

An example TBL Performance Report is shown on pages 28 and 29 for Shoalhaven Council. An example analysis and Action Plan is shown below.

Shoalhaven City Council Water Supply – Action Plan Page 1

Summary

In 2009-10, Shoalhaven City Council complied with all requirements of the *NSW Best-Practice Management Guidelines* and its performance has continued to be at the higher end of the scale in comparison to other similar size water utilities throughout Australia. Shoalhaven achieved 100% compliance with the 60 auditable indicators of the National Performance Report for Urban Water. Shoalhaven achieved 100% compliance in chemical, physical and microbiological drinking water requirements.

Key actions from Council's Strategic Business Plan:

- Commencement of a significant Meter Replacement Program
- Commencement of Hydro-electrical Generation Project

| INDICATOR | | RESULT ² | | DRIVER | ACTION/FINDING |
|-----------------------------------|---|---|--------------------|--|---|
| | Best-Practice Management Guidelines | Complied with all the Best Practice Requirements ¹ | Very good | Compliance demonstrates effectiveness and sustainability of water supply business. 100% compliance is required for eligibility to pay an 'efficiency dividend'. | |
| CHARACTERISTICS | | | | | |
| 5 | Connected property density | 30 per km of main Low ranking (4, 2) | | A connected property density below 30 can significantly increase the cost per property of providing services, as will also a high number of small discrete water supply schemes. | |
| 9 | Renewals expenditure | 0.2% Lowest ranking (5, 4) | May require review | Adequate funds must be programmed for works outlined in the Asset Management Plan – page 2 of Performance Monitoring Report. | Council has reviewed and updated its Asset Management Plan and significant funds have been allocated on water supply renewals over the next 20yrs (\$257m). Less renewal expenditure has been required in the short term due to the asset profile. This result is consistent with Council's previous forecasts. |
| 10 | Employees | 1.3 per 1,000 props High ranking (2, 2) | Good | The number of employees per 1,000 properties is a good indicator of operating and management costs. | |
| SOCIAL - CHARGES | | | | | |
| 12 | Residential water usage charge | 145 c/kL Median ranking (3, 2) | Satisfactory | Benefits of strong pricing signals are shown on page 5 of the Performance Monitoring Report. | |
| 13 | Residential access charges | \$75 per assessment Highest ranking (1, 1) | Very good | ≥ 75% of residential revenue should be generated through usage charges (≥ 50% for LWUs with < 4,000 properties). | |
| 14 | Typical residential bill ³ (TRB) | \$286 per assessment Highest ranking (1, 1) | Very good | TRB should be consistent with projection in the financial plan. Drivers – OMA Management Cost and Capital Expenditure. | The TRB is satisfactory as it is within 2% of the projected TRB of \$280 (2010-11\$) in Council's Strategic Business Plan. |
| 15 | Typical developer charges | \$6200 per ET High ranking (2, 2) | Good | Disclose any cross subsidy in Development Servicing Plan (DSP). | |
| SOCIAL - HEALTH | | | | | |
| 19 | Physical quality compliance | 100% Highest ranking (1, 1) | Very good | | |
| 19a | Chemical quality compliance | 100% Highest ranking (1, 1) | Very good | | |
| 20 | Microbiological compliance ⁴ | 100% Highest ranking (1, 1) | Very good | Critical indicator. LWUs should develop a risk based water quality management plan. | Council has prepared a risk based water quality management plan. |
| SOCIAL – LEVELS OF SERVICE | | | | | |
| 25 | Water quality complaints | 1 per 1,000 props High ranking (2, 2) | Good | Critical indicator of customer service. Can be influenced by the type of business – e.g. unfiltered supply. | |
| 26 | Service complaints | 0 per 1,000 props Highest ranking (1, 1) | Very good | Key indicator of customer service. | |

1. Review of Council's TBL Performance Report and Preparation of an **Action Plan** to Council required annually.

Strategic Business Plan review and update required after 4 years. **Financial Plan** update and report to Council required annually. **New IWCW Strategy** required after 8 years. **Liquid Trade Waste Regulation Policy** in accordance with the 'NSW Liquid Trade Waste Regulation Guidelines, 2009' required by June 2011. **Development Servicing Plan** review and updating is required after 5 years.

2. The ranking relative to similar size LWUs is shown first (Col. 2 of TBL Report) followed by the ranking relative to all LWUs (Col. 3 of TBL Report).

3. Review and comparison of the 2010-11 **Typical Residential Bill (Indicator 14)** with the projection in your Strategic Business Plan is **mandatory**. In addition, if both indicators 43 and 44 are negative, you must report your proposed 2011-12 typical residential bill to achieve full cost recovery.

4. **Microbiological compliance (Indicator 20)** is a high priority for each NSW LWU. Corrective action for non-compliance (<=97%), or any 'boil water alerts' **must be reported** in your Action Plan.

Shoalhaven City Council Water Supply – Action Plan Page 2

| INDICATOR | | RESULT | | DRIVER | | ACTION/FINDING | |
|---|--|---|--------------------|---|--|----------------|--|
| SOCIAL – LEVELS OF SERVICE (continued) | | | | | | | |
| 27 | Average frequency of unplanned interruptions | 39 per 1,000 props Median ranking (3, 4) | Satisfactory | Key indicator of customer service, condition of network and effectiveness of operation. | Whilst the result was marginally higher than the State Median (37), it is largely reflective of the size of the supply system and enhanced/ accurate reporting mechanisms. The result is significantly less than the National median of other auditable non-major utilities- large (52). | | |
| 30 | Number of main breaks | 9 per 100km of main Median ranking (3, 2) | Satisfactory | Drivers – condition and age of water mains, ground conditions. | The result is less than the National median of other auditable non-major utilities-large (12). Recent organisational changes have also recently been made to aim at further improving this performance level. | | |
| 32 | Total Days Lost | 2.4% Low ranking (4, 4) | May require review | | This has remained high over the last 10 yrs and is reflective of the aging workforce. Targeted actions eg the inclusion of a % limit of the total workforce made up with trainees is likely to address this benchmark. | | |
| ENVIRONMENTAL | | | | | | | |
| 33 | Average annual residential water supplied | 145 kL per prop Highest ranking (1, 1) | Very good | Drivers – available water supply, climate, location (Inland or coastal), pricing signals (Indicator 12), restrictions. | | | |
| 34 | Real losses (leakage) | 70 L/c/d Low ranking (4, 2) | May require review | Loss reduction is important where an LWU is facing drought water restrictions or the need to augment its water supply system. | Result is consistent with the State median. Commencement of a significant water meter replacement strategy in 2011-12 will also impact this indicator. | | |
| ECONOMIC | | | | | | | |
| 41 | Residential revenue from usage charges | 73% of residential bills Median ranking (3, 2) | Satisfactory | See 13. | | | |
| 43 | Economic Real Rate of Return (ERRR) | 0.4% Median ranking (3, 3) | Satisfactory | Reflects the rate of return generated from operating activities (excluding interest income and grants) An ERRR or ROA of > 0% is required for full cost recovery. | | | |
| 44 | Return on assets | 0.9% High ranking (2, 3) | Good | Reflects the rate of return generated from operating activities (including interest income) An ERRR or ROA of >0% is required for full cost recovery. | | | |
| 45 | Net debt to equity | -4% Low ranking (4, 2) | May require review | LWUs facing significant capital investment are encouraged to make greater use of borrowings – page 12 of Performance Monitoring Report. | The NDE is projected to increase further within the 20-year financial plan to accord with increased capital spending. | | |
| 46 | Interest cover | >100 Highest ranking (1, 1) | Very good | Drivers – in general, an interest cover > 2 is satisfactory. | | | |
| 47 | Loan payment | \$14 per prop Median ranking (3, 3) | Satisfactory | The component of TRB required to meet debt payments. Drivers – expenditure on capital works, short term loans. | | | |
| 49 | Operating cost (OMA) | \$274 per prop Highest ranking (1, 1) | Very good | Prime indicator of the financial performance of an LWU. Drivers – development density, level of treatment, management cost, topography, number of discrete schemes and economies of scale. | | | |
| 51 | Management cost | \$124 per prop Median ranking (3, 3) | Satisfactory | Typically about 40% of the OMA. Drivers – No. of employees. No. of small discrete water schemes. | | | |
| 52 | Treatment cost | \$39 per prop Low ranking (4, 2) | May require review | Drivers – type and quality of water source. Size of treatment works | Consistent with the State median. Treatment costs will be reviewed by June 2012. | | |
| 53 | Pumping cost | \$26 per prop Median ranking (3, 2) | Satisfactory | Drivers – topography, development density and location of water source. | | | |
| 55 | Water main cost | \$47 per prop Median ranking (3, 2) | Satisfactory | Drivers – age and condition of mains. Ground conditions. Development density. | | | |
| 56 | Capital expenditure | \$348 per prop High ranking (2, 2) | Good | An indicator of the level of investment in the business. Drivers – age and condition of assets, asset life cycle and water source. | | | |

Shoalhaven City Council water supply (TBL performance report pg 1)

Shoalhaven City Council TBL Water Supply Performance 2009-10

WATER SUPPLY SYSTEM - Shoalhaven City Council serves a population of 90,700 (45,860 connected properties). Water is drawn from the Porters Creek and Shoalhaven River to supply Nowra, Bomaderry, St. Georges Basin, Shoalhaven Heads and Sussex Inlet. Bamarang, Cambewarra, Danjera and Porters Creek Dams have a total storage capacity of 13,360 ML. The Shoalhaven City Council system comprises 2 conventional water treatment works (103 ML/d), 1 microfiltration works at Kangaroo Valley (1.3 ML/d) and 1 direct filtration (10.5 ML/d), 44 service reservoirs (201 ML) 25 pumping stations, 114.8 ML/d delivery capacity into the distribution system, 519 km of transfer and trunk mains and 1042 km of reticulation. 70% of the supply is fully treated (Northern areas) and 30% is unfiltered (chlorinated - Southern areas).

PERFORMANCE - Shoalhaven City Council achieved 100% compliance with Best Practice requirements. The typical residential bill was \$286 which was much less than the statewide median of \$430 (Indicator 14). The economic real rate of return was 0.4% which was less than the statewide median (Indicator 43). The operating cost (OMA) per property was \$274 which was less than the statewide median of \$350 (Indicator 49). Water quality complaints were less than the statewide median of 4 (Indicator 25). Compliance with microbiological water quality was 100% with 4 of 4 zones compliant (Indicator 20), physical compliance was 100% (Indicator 19) and chemical compliance was 100% with 4 of 4 zones compliant (Indicator 19b). Current replacement cost of system assets was \$472M (\$9,500 per assessment), cash and investments were \$14.9M, debt was \$2M and revenue was \$19.7M (excluding capital works grants).

COMPLIANCE WITH BEST- PRACTICE MANAGEMENT GUIDELINES REQUIREMENTS

| | | | |
|--|-----|--|-------------|
| (1) Complete Current Strategic Business Plan & Financial Plan | YES | (3) Sound water conservation implemented | YES |
| (2) (2a) Pricing - Full Cost Recovery, without significant cross subsidies | Yes | (4) Sound drought management implemented | YES |
| (2b) & (2c) Pricing - Complying Residential Charges | Yes | (5) Complete performance reporting (by 15 September) | YES |
| (2c) Pricing - Complying non-Residential Charges | Yes | (6) Integrated water cycle management strategy | YES |
| (2d) Pricing - DSP with Commercial Developer Charges | Yes | COMPLIANCE WITH ALL REQUIREMENTS | 100% |

TRIPLE BOTTOM LINE (TBL) PERFORMANCE INDICATORS

| Category | Indicator | Description | Unit | LWU RESULT | RANKING | | STATEWIDE MEDIAN |
|---|--|--|------------------------------|------------|--------------------|----------|------------------|
| | | | | | >10,000 properties | All LWUs | |
| | | | | Col 1 | Note 1 | Note 2 | Note 3 |
| NWI No. | | | | | | | |
| UTILITY CHARACTERISTICS | C1 | Population served: 90700 | | | | | |
| | C4 | Number of connected properties: 45860 | Number of assessments: 49850 | | | | |
| | C2 | Residential connected properties (% of total) | | 92 % | | | 91 |
| | 4 | New residences connected to water supply (%) | | 1.0 % | 3 | 2 | 1.0 |
| | A3 | Properties served per kilometre of water main | | 30 | | | 32 |
| | 6 | Rainfall (% of average annual rainfall) | | 69 % | 5 | 5 | 104 |
| | W11 | Total urban water supplied at master meters (ML) | | 15,200 ML | | | 6,800 |
| | 8 | Peak week to average consumption (%) | | 126 % | 2 | 1 | 145 |
| | 9 | Renewals expenditure (% of current replacement cost of system assets) | | 0.2 % | 5 | 4 | 0.3 |
| | 10 | Employees per 1000 properties | | 1.3 | 2 | 2 | 1.4 |
| SOCIAL CHARGES & BILLS - 2009-10 | P1 | Residential tariff structure: inclining block; independent of land value | | | | | |
| | 12 | Residential water usage charge (c/kL) for usage <450 c/kL (Note 5) | | 145 c/kL | 3 | 2 | 163 |
| | 13 | Residential access charge per assessment (\$) | | \$ 75 | 1 | 1 | 130 |
| | P3 | Typical residential bill per assessment (\$) | | \$ 286 | 1 | 1 | 430 |
| | 15 | Typical developer charge per equivalent tenement (\$) | | \$ 6,200 | 2 | 2 | 4,700 |
| | 18 | Urban population without reticulated water supply (%) | | 1.0 % | 4 | 2 | 0.8 |
| | H6 | 18a Risk based drinking water quality plan? | | Yes | | | |
| | 19 | Physical water quality compliance (%) | | 100 % | 1 | 1 | 100 |
| | 19a | Chemical water quality compliance (%) | | 100 % | 1 | 1 | 100 |
| | H4 | 19b Number of zones with chemical compliance | | 4 of 4 | | | |
| 20 | Microbiological (E. coli) water quality compliance (%) | | 100 % | 1 | 1 | 100 | |
| H3 | 20a % population with microbiological compliance | | 100 % | 1 | 1 | 100 | |
| SOCIAL HEALTH | C9 | Water quality complaints per 1000 properties | per 1,000 prop | 1 | 2 | 2 | 4 |
| | C10 | Water service complaints per 1000 properties | per 1,000 prop | 0 | 1 | 1 | 3 |
| | C17 | Average frequency of unplanned interruptions per 1000 properties | per 1,000 prop | 39 | 3 | 4 | 37 |
| | C15 | Average duration of interruption (min) | min | 112 | 1 | 2 | 159 |
| | A8 | Number of water main breaks per 100 km of water main | per 100km | 9 | 3 | 2 | 10 |
| | 31 | Drought water restrictions (% of time) | | 35 % | 3 | 3 | 87 |
| | 32 | Total days lost (%) | | 2.4 % | 4 | 4 | 2.4 |
| | W12 | Average annual residential water supplied per property (kL) | | 145 kL | 1 | 1 | 175 |
| | 33a | Average annual residential water supplied - COASTAL (kL/property) | | 145 kL | 2 | 1 | 150 |
| | 33b | Average annual residential water supplied - INLAND (kL/property) | | kL | | | 252 |
| A10 | Real losses (leakage) (L/service connection/day) | L/connect/d | 70 | 4 | 2 | 70 | |
| ENVIRONMENTAL NATURAL RESOURCE MANAGEMENT | 35 | Energy consumption per Megalitre (kiloWatt hours) | kWh | 683 | 3 | 4 | 670 |
| | 36 | Renewable energy consumption (% of total energy consumption) | % | | | | 0 |
| | E12 | 36a Net greenhouse gas emissions - WS & Sge (net tonnes CO2 - equivalents per 1000 properties) | | 380 | 3 | 3 | 390 |
| | F5 | Revenue per property - water (\$) | \$ | 430 | 1 | 1 | 647 |
| | F4 | Residential revenue from usage charges (% of residential bills) | % | 73 % | 3 | 2 | 73 |
| | F17 | Economic real rate of return - Water (%) | % | 0.4 % | 3 | 3 | 0.7 |
| | 44 | Return on assets - Water (%) | % | 0.9 % | 2 | 3 | 0.9 |
| | F22 | Net Debt to equity - Water (%) | % | -4 % | 4 | 2 | -1.0 |
| | F23 | Interest cover - Water | | >100 | 1 | 1 | 4.5 |
| | 47 | Loan payment per property - Water (\$) | \$ | 14 | 3 | 3 | 55 |
| ECONOMIC FINANCE | F24 | 47b Net profit after tax - WS & Sge (\$'000) | \$'000 | 7,320 | 1 | 1 | 0 |
| | 48 | Operating cost (OMA) per 100km of main (\$'000) | \$'000 | 827 | 2 | 2 | 1,140 |
| | F11 | Operating cost (OMA) per property (\$ (Note 6)) | \$/prop | 274 | 1 | 1 | 350 |
| | 50 | Operating cost (OMA) per kilolitre (cents) | c/kL | 82 | 1 | 2 | 116 |
| | 51 | Management cost per property (\$) | \$/prop | 124 | 3 | 3 | 134 |
| | 52 | Treatment cost per property (\$) | \$/prop | 39 | 4 | 2 | 39 |
| | 53 | Pumping cost per property (\$) | \$/prop | 26 | 3 | 2 | 31 |
| | 54 | Energy cost per property (\$) | \$/prop | 19 | 3 | 2 | 18 |
| | 55 | Water main cost per property (\$) | \$/prop | 47 | 3 | 2 | 56 |
| | F14 | Capital Expenditure per property (\$) | \$/prop | 348 | 2 | 2 | 282 |

NOTES :

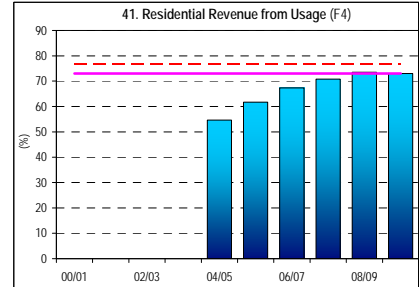
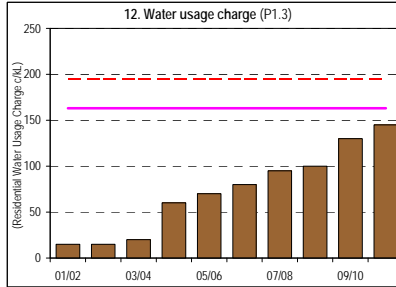
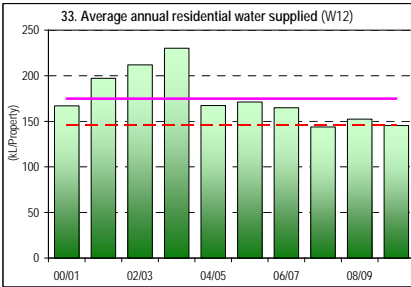
- The ranking compared with LWUs with >10,000 properties connected properties (Col 2) is on a % of LWUs basis - relevant for comparing performance with similar sized LWUs - see attachment.
- The ranking compared with all LWUs (Col 3) is on a % of LWUs basis - relevant for comparing performance with all other LWUs - see attachment.
- The Statewide Median (Col 4) is on a % of connected properties basis. It best reveals statewide performance by giving due weight to larger LWUs & reducing the effect of smaller LWUs- see attachment.
- Annual review of key projections and actions in LWU's Strategic Business Plan (SBP) are required, together with annual updating of LWU's financial plan. The SBP should be updated after 4 years.
- Non-residential Tariff: Access Charge based on Service Connection Size(40mm:\$300), Inclining Block ; For usage up to 450 kL = 145 c/kL; for usage >450 kL = 195 c/kL.
Water supplied to non-residential customers was 46% of potable water supplied excluding non-revenue water.
Non-residential customers provided 37% of the revenue from annual charges and usage charges.
- The operating cost (OMA)/property was \$274. Components were: management (\$124), operation (\$84), maintenance (\$36), energy (\$19) & chemical (\$10).

Shoalhaven City Council water supply (TBL performance report pg 2)

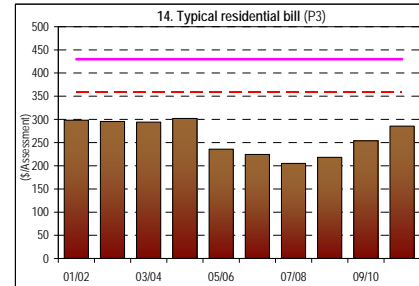
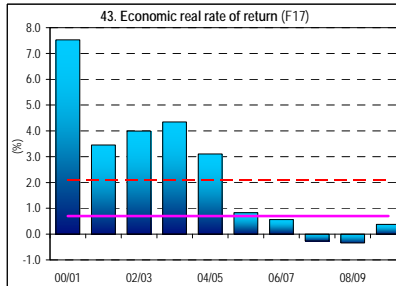
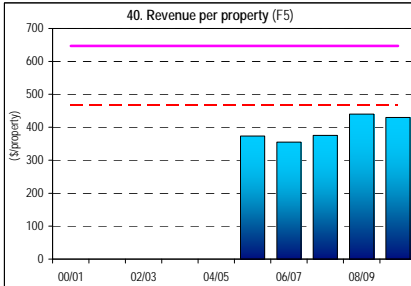
Shoalhaven City Council **TBL Water Supply Performance (page 2)** **2009-10**

(Results shown for 10 years together with 2009-10 Statewide Median and Top 20%)

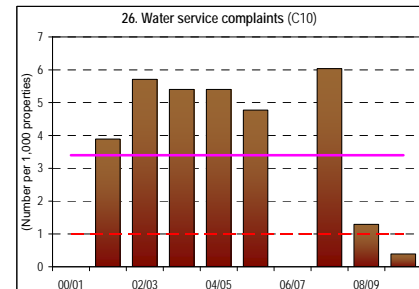
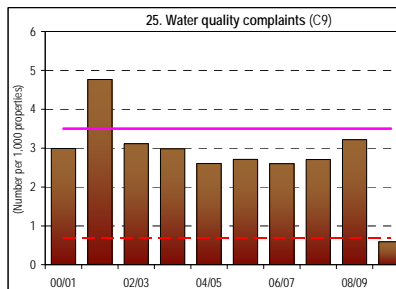
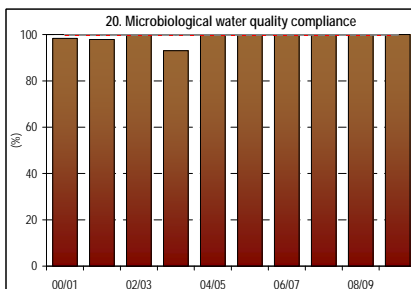
RESIDENTIAL USE/REVENUE FROM USAGE



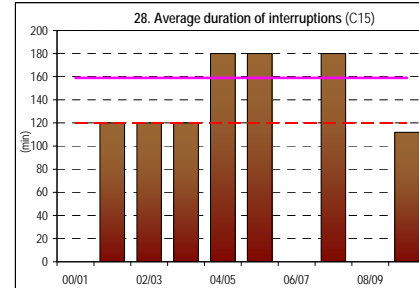
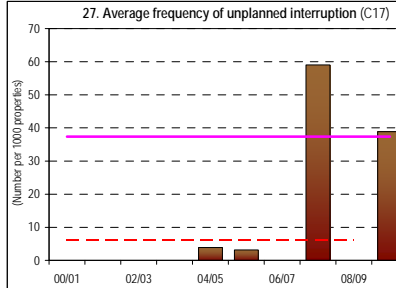
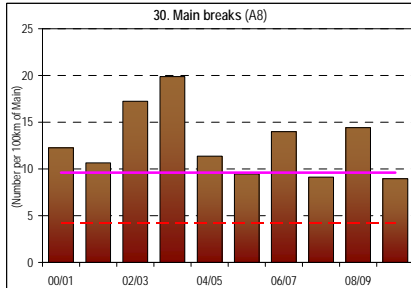
COST RECOVERY



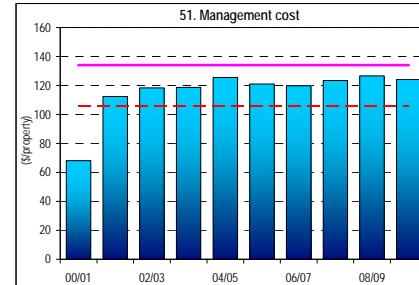
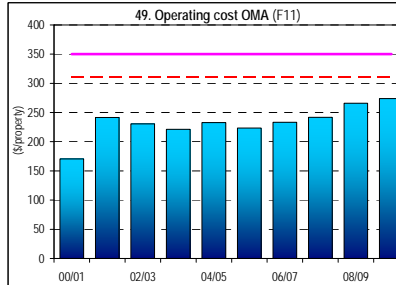
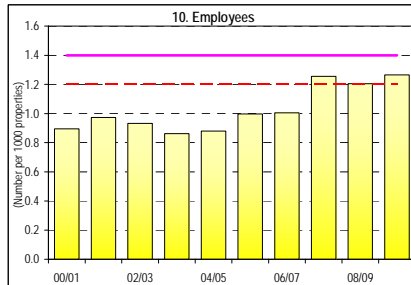
WATER QUALITY/CUSTOMER SERVICE



RELIABILITY



EFFICIENCY



NOTES:

- Costs are in Jan 2010\$.
- Microbiological water quality compliance 1999-00 to 2003-04 was on the basis of 1996 NHMRC/ARMCANZ Australian Drinking Water Guidelines for E. coli; from 2004-05 compliance was on the basis of the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines.

LEGEND
 2009-10 State Median ————
 2009-10 Top 20% - - - - -

6. General notes

This 2009-10 NSW Water Supply and Sewerage Benchmarking Report provides the full suite of performance indicators and benchmarking data to enable each LWU to benchmark its performance against that of similar LWUs. The benchmarking report is available on the NSW Office of Water website (www.water.nsw.gov.au)

To provide a balanced view of the long-term sustainability of NSW LWUs, a TBL accounting focus has been adopted, with performance reported on the basis of social, environmental and economic performance indicators.

Statewide performance indicators are calculated on a 'percentage of connected properties basis'. This is a weighted median on the basis of connected properties, which best reveals Statewide performance by giving due weight to larger LWUs and reducing the effect of smaller LWUs on the data.

To facilitate comparisons, the performance indicators in this report have been prepared for each LWU's aggregated water supply businesses and aggregated sewerage businesses, rather than for individual water supply and sewerage systems.

Data validation – the comprehensive data validation procedures for the NSW Performance Monitoring System are shown in Appendix G of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report* (www.water.nsw.gov.au). These procedures include matters such as:

- Aggregated businesses (section G4.1 on page 81)
- Assessments (section G4.2 on page 81)
- Connected properties (section G4.2 on page 81)
- Charges, bills and cost recovery (section G4.3 on page 82)
- Urban water supplied (section G4.4 on page 82)
- Operating cost and management cost (section G4.5 on page 82)
- Drinking water quality compliance (section G4.6 on page 83)
- Sewage treatment works compliance (section G4.7 on page 83)
- Compliance with Best-Practice Management Guidelines (section G5 on page 83)

6.1 Figures and tables

Most of the figures in this report show performance indicators for each of the last six years to enable review of trends and to facilitate benchmarking and 'yardstick' comparisons. The figures show ranked results for LWUs grouped into four size ranges in order to enable each LWU to compare its performance against similar sized LWUs. The better performing LWUs are shown at the left of each group.

Table 5 and Tables 6 to 18 show water supply and sewerage performance indicators for each of the 110 NSW water utilities (106 LWUs plus Sydney Water Corporation and Hunter Water Corporation, Sydney Catchment Authority and Hawkesbury Council).

As noted on page 2, these tables are sorted in order of the number of connected properties served in order to facilitate comparisons with similar size LWUs. The table on page 2 shows each LWU's ranking in terms of water supply connected properties. For example, the table shows '11 Albury City', indicating that Albury City is the 11th LWU in the water supply tables. To facilitate comparisons, the tables are also grouped into the same four size ranges as for the figures. Also, the median for many of the indicators are shown for each size grouping.

6.2 General notes

1. **TBL focus** – To provide a balanced view of the long-term sustainability of Local Water Utilities (LWUs), a triple bottom line (TBL) accounting focus has been adopted, with performance reported on the basis of **Social, Environmental and Economic** indicators.
2. **Data not reported** – Where an LWU has not reported a key performance indicator for 2009-10, the value previously reported has been used where appropriate. Such values are shown in **italics bold** in Tables 5 to 18. Refer also to page 80 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report* (www.water.nsw.gov.au).
3. **Properties vs assessments** – This report has been prepared on a '**per connected property**' basis for consistency with national performance reporting. A connected property is a property that is connected to the water supply or sewerage system, as opposed to an assessment which is a bill issued by a water utility. Factors that influence this indicator are the number of vacant blocks (with no connection but which are billed as an assessment) and the number of multiple dwellings (e.g. blocks of flats or units) with a single assessment.
4. **Calculation of connected properties** – The number of connected properties is calculated as the product of the number of assessments times the ratio of the number of connected properties per assessment for each of water supply and sewerage. For any utility there is minimal change in this ratio of the number of connected properties per assessment from year to year. The NSW Office of Water has worked with LWUs to establish these ratios. Where warranted for a particular LWU, these ratios are updated from time to time.
5. **Statewide medians** – This report refers to statewide medians which are calculated on a 'percentage of connected properties' basis rather than a 'percentage of LWUs' basis. This is a weighted median on the basis of connected properties, which best reveals statewide performance by giving due weight to larger LWUs and reducing the effect of smaller LWUs. LWU rankings on a 'percentage of LWUs' basis are also provided where appropriate (e.g. for comparison of LWUs in the 'Ranking' columns of the two page TBL Performance Report for each utility (example on page 28 and in Appendix C on page 230). The statewide medians are shown in Tables 1 and 2 on pages 103 and 104.
6. **Aggregated businesses** – To facilitate comparisons, the performance indicators in this report have been prepared for each LWU's aggregated water supply or sewerage businesses, rather than for individual water supply or sewerage systems.
7. **Typical residential bill (TRB)** – The typical residential bill per assessment is the annual bill paid by a residential customer using the LWU's average annual residential water supplied and is the **principal indicator of the overall cost** of a water or sewerage system. Pensioners pay a lower amount due to the \$87.50 pensioner rebate as do owners of vacant lots as they pay no water usage charges. Refer also to page 15.

Calculation of TRB – The 2009-10 typical residential bill is based on a customer of the LWU's principal water supply or sewerage system using the LWU's 2009-10 average annual residential water supplied (see Tables 6 and 7 on pages 120 and 132). The typical residential bill for 2009-10 and previous years is based on the reported average annual residential water supplied for that year (2009-10 residential water supplied is shown in column 3 of Table 5 on page 110).

8. **Full cost recovery** – Full cost recovery is achieved if either the Economic Real Rate of Return or the Return on Assets is ≥ 0 . In addition, many utilities have significantly increased their 2009-10 charges in order to achieve full cost recovery (shown as “Y*” in column 14a of Table 6 on page 120 and column 11a of Table 7 on page 132). Refer also to the box on page 19.
9. **Drinking Water Quality Guidelines** – These have become more stringent. Compliance is now determined from the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines (National Health & Medical Research Council/National Resource Management Ministerial Council).
- An LWU has complied with the guidelines for microbiological water quality (i.e. it had 100 per cent compliance) if the required number of samples was tested and at least 98 per cent of the samples contained no E. coli. For LWUs which did not comply, the percentage of samples complying is reported. Refer also to page 21.
10. **Total water supplied** – Total annual water supplied comprises the sum of the potable water supplied plus the non potable water supplied. Recycled water is a component of the non-potable supply which also includes raw water.
11. **Average annual residential water supplied** – The average annual residential water supplied per connected property (col 3 of Table 5) includes both potable and non-potable water supplied. Where an LWU has not separately reported its residential water supplied, it has been estimated using the Statewide average of 57 per cent of the LWU’s total potable water supplied. The potable water supplied and the total water supplied (potable + non-potable) have been separately reported for the 11 LWUs with a dual water supply (see Note 12 below).
12. **Dual supplies** – Eleven LWUs had a dual water supply to over 50 per cent of their residential customers in June 2008 (ie. with a potable supply for indoor use and a non potable supply for outdoor use).

The total annual residential water supplied (i.e. potable + non-potable) kilolitres per property for those LWUs with a dual water supply is shown below, together with their potable residential water supplied in brackets. These volumes were: Balranald 958 (241), Berrigan 292 (173), Bourke 3,169 (539), Central Darling 526 (145), Hay 1,140 (184), Jerilderie 1,033 (245), Murray 260 (156), Wakool 839 (153), Walgett 938 (195), Warren 352 (164) and Wentworth 376 (119).

The typical residential bill (TRB) has been calculated for those LWUs with a dual supply using the above volumes. The TRB for Brewarrina, Carrathool, Deniliquin and Moree Plains has also taken into account the significant volumes of non-potable supply provided by these LWUs.

13. **Water losses** – For consistency with national performance reporting, water losses comprise real losses (mostly leakage) plus apparent losses (unauthorised consumption and under-registration of customer meters). Unbilled water supplied (fire fighting and mains flushing) is not a water loss but is a component of non revenue water.
14. **Minimum real losses** – Leakage studies for over 40 NSW LWUs indicate an average leakage from water supply distribution systems of 17 per cent of annual consumption (range six per cent to 35 per cent). Therefore, a minimum real loss (i.e. leakage) of six per cent of the potable water supplied has been adopted for this report. Reported real losses of less than six per cent have only been accepted where the utility has provided evidence to support the adoption of a lower value. Table 10 on page 155 discloses that 48 LWUs have recently carried out a reservoir drop test, waste metering or night flow analysis in order to determine their present real losses and opportunities for leakage reduction.

Minimum non-revenue water – Similarly, statewide analysis of non revenue water (water losses plus unbilled water supplied) for NSW water utilities other than bulk water suppliers, indicates a minimum of 10 per cent of annual water supplied. Reported non revenue water of less than

10 per cent of total water supplied has only been accepted where the utility has provided evidence to support the adoption of a lesser value. Where the reported non revenue water has not been accepted, the reported values of total potable town water supplied have been increased as a result of increasing the reported non revenue water component to 10 per cent. These adjusted values are shown in ***italics bold*** in column 10 of Table 8 on page 141.

15. **OMA costs for reticulators** – The operation, maintenance and administration (OMA) costs for water supply reticulators include the OMA cost for the bulk supplier on the basis of the volume of water supplied to the reticulator divided by the total volume supplied by the bulk supplier to all customers. For example for Cootamundra, the OMA cost of \$245/property comprises \$109/property for the bulk supply from Goldenfields (bulk supplier) plus \$136 for the reticulator (Cootamundra).
16. **Sydney Water, Hunter Water and Sydney Catchment Authority** – The performance indicators for Sydney Water Corporation, Hunter Water Corporation and Sydney Catchment Authority were obtained from the *National Performance Report 2009-10 for Urban Water Utilities*.
17. **Bulk storage** – Utilities that provide bulk storage dams for their water supply incur significant capital and operating costs for these facilities, resulting in a higher typical residential bill and operating cost per property (refer to item 5 on page 16). The following 45 non-metropolitan utilities provided such bulk storage: Armidale, Ballina, Bathurst, Bega Valley, Bourke, Brewarrina, Byron (Mullumbimby), Cabonne, Central Tablelands, Clarence Valley, Cobar, Coffs Harbour, Country Energy, Eurobodalla, Fish River, Glen Innes-Severn, Gosford, Goulburn Mulwaree, Guyra, Inverell, Kempsey, Kyogle, Lachlan, Leeton, Lithgow, MidCoast, Mid Western Regional, Moree Plains, Orange, Palerang, Parkes, Port Macquarie-Hastings, Richmond Valley, Rous, Shoalhaven, Tamworth, Tenterfield, Tweed, Upper Hunter, Upper Lachlan, Uralla, Warrumbungle, Wingecarribee, Wyong, Yass Valley.
18. **Unfiltered** – A utility with over 50 per cent of its supply comprising an unfiltered surface water supply ie. the utility does not have a water treatment works providing filtration and disinfection for >50 per cent of its supply.

Groundwater – A utility with >50 per cent of its supply comprising good quality unfiltered groundwater.

Reticulator – A utility which purchases >70 per cent of its source water from a bulk supplier and reticulates water to householders in its area.

Bulk supplier – A utility which provides a bulk water supply to other utilities, rather than reticulating water to householders.

Dual supply – A utility with a potable reticulated water supply for indoor uses and a separate non-potable supply reticulated for outdoor uses to over 50 per cent of its residential customers (refer to Note 12 on page 32).

19. **National Water Initiative (NWI) Indicators** – There are 32 NSW water utilities with >10,000 connected properties including three metropolitan utilities and 29 non-metropolitan utilities. These utilities have reported their performance in the *National Performance Report 2009-10* based on a nationally agreed framework of indicator definitions. The reported NWI performance indicators (including key financial performance indicators) have been independently audited. The results that have met the rigorous NWI auditing requirements have been published in the *National Performance Report 2009-10* and are shown in Appendix F. Appendix F discloses the NSW results for all the 117 NWI performance indicators. Some of the reported non-financial performance indicators failed to meet the NWI auditing requirements. These results have been excluded from both the *National Performance Report 2009-10* and Appendix F. However they have been included in the Figures and in Tables 5 to 18 of this report.

In addition, the reported values for the 30 NWI financial performance indicators have been independently audited for all the NSW utilities.

20. **Reported NWI Indicators** – This report discloses the performance of each of the 106 NSW Local Water Utilities (LWUs) for each of the 117 NWI performance indicators on the following basis:

Table 5 on page 110 reports results for NWI indicators C4, W11, W12, A8, C15, F1, H4, H2, H3, C9, F2, E4, E13, W27, W26, F24, P8, F13 F19, F22 & F16.

Table 5A on page 114 reports the results for NWI indicators F13, F7, F3, F19, F22, F23, F20, F21, F25, F8, F24 and F30.

Table 5B on page 117 reports the results for NWI indicators C12, C14, E9, E10, E11, E12, W6, W13 and W15.

Table 6 on page 120 reports indicators P1, P2, P3, F17, F4, W12 and C4.

Table 7 on page 132 reports indicators P5, P6, F18 and C8.

Table 8 on page 141 reports the results for NWI indicators W8, W10, W11, W20, W21, W26, W27, W14, W1, W2, W3, W4, W5, W6 and W7.

Table 9 on page 152 reports the results for NWI indicators C4, C2, C1, A2, A3, A1, F14 and F26.

Table 10 on page 155 reports the results for NWI indicators A10, A11, A9, A8, C17, W11 and W12.

Table 11 on page 158 reports the results for NWI indicators F1, F5, F4, F9, F22, F17 and F11.

Table 12 on page 161 reports the results for NWI indicators H6, H5, H4, H2, H3, C9, C10, C18, C19, C14, C17 and C15.

Table 14 on page 167 reports the results for NWI indicators C8, C6, C5, A5, A6, A4, F15 and F27.

Table 15 on page 170 reports the results for NWI indicators A12, E13, W18, W17, E4, E5, E1, E2, E3, W19, E8, W26 and W27.

Table 16 on page 173 reports the results for NWI indicators F2, F6, F10, F22, F18 and F12.

Table 17 on page 176 reports the results for NWI indicators E7, C11, C13 and C16.

The results for NWI indicators P8; F3, F16 and F19; A3 and A5 and A2; W11; P3; C9; A8; W12; A10; F17; F12; F11; A6; P4; A12; E10; F18 and F12 are shown on Figures 1, 2, 5, 7, 9, 18, 20, 25, 26, 29, 30, 31, 38, 40, 45, 51, 53, 59 and 60 respectively.

The following NWI indicators have not been shown in the tables but can be determined as follows: W16 from (W18–W17), C3 from (C4–C2), C7 from (C8–C6). Indicator A7 is nil for all LWUs and indicator H1 refers to the 2004 ADWG for all LWUs.

Regional Water and Sewerage Inspectors – NSW Office of Water

| Area | Name | Mobile | Email |
|-------------|-----------------|--------------|--|
| Albury | Patrick Freeman | 0429 308 954 | Patrick.Freeman@water.nsw.gov.au |
| Alstonville | Terry Call | 0412 283 768 | Terry.Call@water.nsw.gov.au |
| Cootamundra | Bernie Barnes | 0429 604 409 | Bernie.Barnes@water.nsw.gov.au |
| Dubbo | Bruce Lamont | 0458 268 453 | Bruce.Lamont@water.nsw.gov.au |
| Newcastle | Graham Campbell | 0419 620 990 | Graham.Campbell@water.nsw.gov.au |
| Orange | Paul Beed | 0419 624 576 | Paul.Beed@water.nsw.gov.au |
| Tamworth | Trent Betts | 0417 458 247 | Trent.Betts@water.nsw.gov.au |
| Wollongong | Geoff Parish | 0427 248 007 | Geoff.Parish@water.nsw.gov.au |

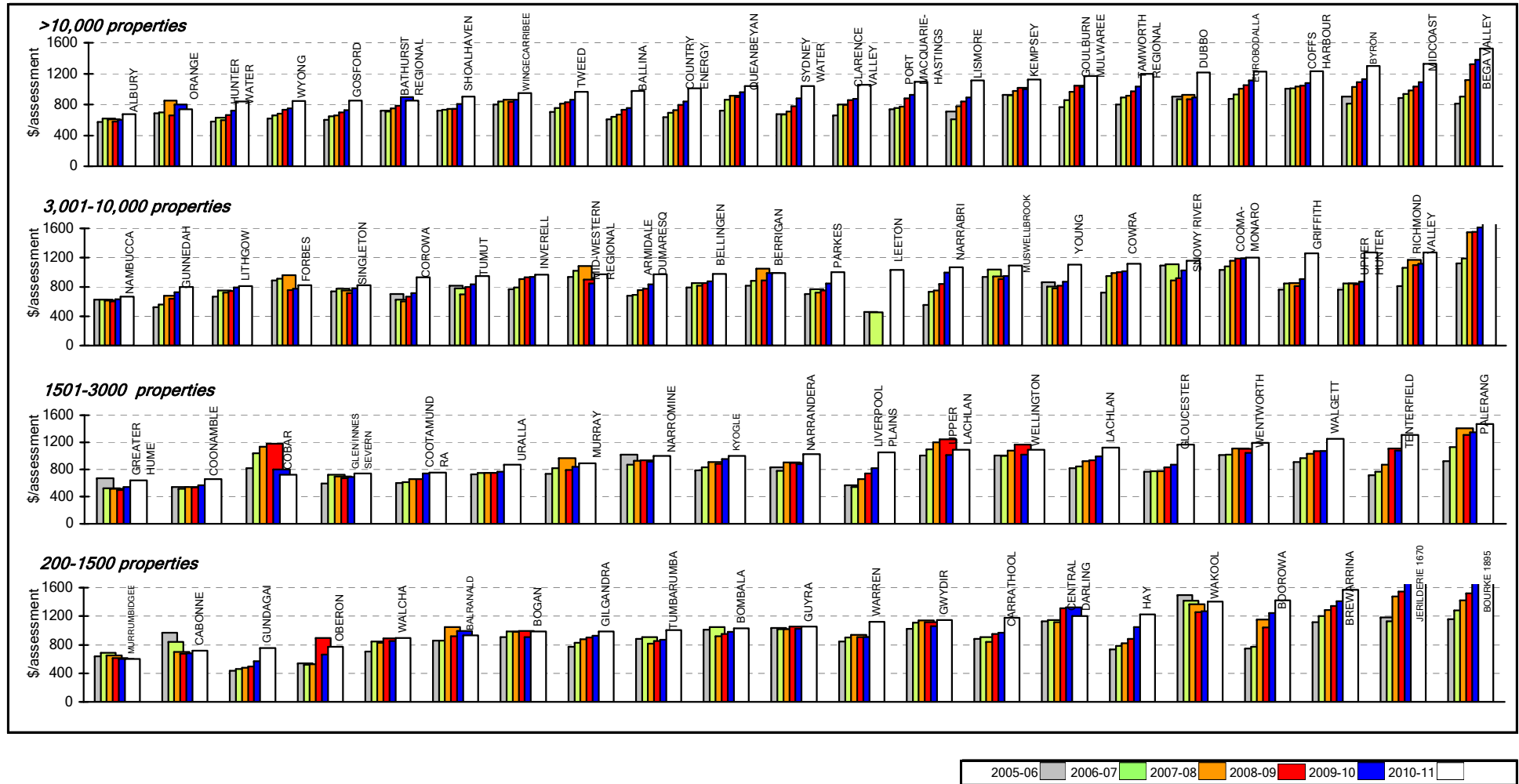
As noted on pages 8 and 21, assistance is available from your NSW Office of Water Regional Water and Sewerage Inspector for achieving microbiological water quality compliance and for addressing other water and sewage treatment issues.

6.3 Contents of tables 5 to 18

| | |
|-----------------|---|
| Table 5 | 2009-10 NSW water utility performance summary – Overview of each water utility's key water supply and sewerage performance indicators. |
| Table 5A | Water supply and sewerage – financial – Combined water supply and sewerage indicators. |
| Table 5B | Water supply and sewerage – levels of service – Combined water supply and sewerage indicators. |
| Table 6 | Water supply – residential charges, bills, cost recovery – Type of tariff, residential charges, bills, cost recovery, average annual residential water supplied and number of connected properties |
| Tables 6A to 6B | Water supply – 2010-11 residential inclining block or multiple tariffs, non-residential tariffs |
| Table 7 | Sewerage – residential charges, bills, cost recovery – Residential charges, bills, non-residential sewer usage charge, cost recovery and number of connected properties for each water utility's sewerage business |
| Tables 7A to 7C | Sewerage – 2010-11 residential multiple tariffs, non-residential tariffs, liquid trade waste fees and charges |
| Table 8 | 2009-10 NSW urban water supplied – Water supplied by customer category, water losses, leakage, total potable and non-potable water supplied, recycled water use and surface and groundwater use |
| Table 8A | 2009-10 Water losses and non-revenue water |
| Table 8B | 2009-10 Water consumptions from source catchments in non-metropolitan NSW – Shows details of water consumptions by customer category for each source catchment |
| Table 8C | 2009-10 Water conservation initiatives |
| Table 9 | Water supply – utility characteristics – Population, no. of assessments, connected properties, new residential dwellings connected, assets employed, capital investment, workforce employed, outsourcing, days lost |
| Table 10 | Water supply – asset management, water resource management – Leakage, main breaks, interruptions to supply, rehabilitations, renewals and maintenance expenditure, total annual and average residential water supplied, recycled water use, drought and demand management policies |
| Table 11 | Water supply – financial, efficiency – Revenue, residential revenue and water supplied, current replacement cost, debt to equity, cross subsidies, operating result, externalities, loan payment, operating cost (OMA) and management cost |
| Table 12 | Water supply – health, levels of service – Physical, chemical and e. coli water quality compliance, water quality complaints, Water Service Complaints, Customer Interruption Frequency and Drought Water Restrictions |
| Table 13 | Water Supply – benchmarking cost data – Disaggregated benchmarking cost data including operating cost, management cost, retail/wholesale cost, pumping cost, treatment cost and water main cost |
| Table 14 | Sewerage – utility characteristics – Population, no. of assessments, connected properties, new residential dwellings connected, assets employed, capital investment, workforce employed, outsourcing, days lost |
| Table 15 | Sewerage – asset management, resource management – Infiltration, interruptions to service, rehabilitations, renewals, maintenance expenditures, volume of sewerage collected, treated, biosolids reused, per cent effluent reclaimed |
| Table 16 | Sewerage – financial, efficiency – Revenue, current replacement cost, debt to equity, cross subsidies, operating result, externalities, loan payment, operating cost (OMA) and management cost |
| Table 17 | Sewerage – environmental, levels of service – BOD and SS compliance, sewer main chokes and collapses, sewer overflows to the environment, odour complaints, service complaints, total complaints and average sewerage interruption |
| Table 18 | Sewerage – benchmarking cost data – Disaggregated benchmarking cost data including operating cost, management cost, retail / wholesale cost, pumping cost, treatment cost and sewer main cost |

7. Water supply and sewerage figures

Figure 1: Typical residential bill – water supply and sewerage



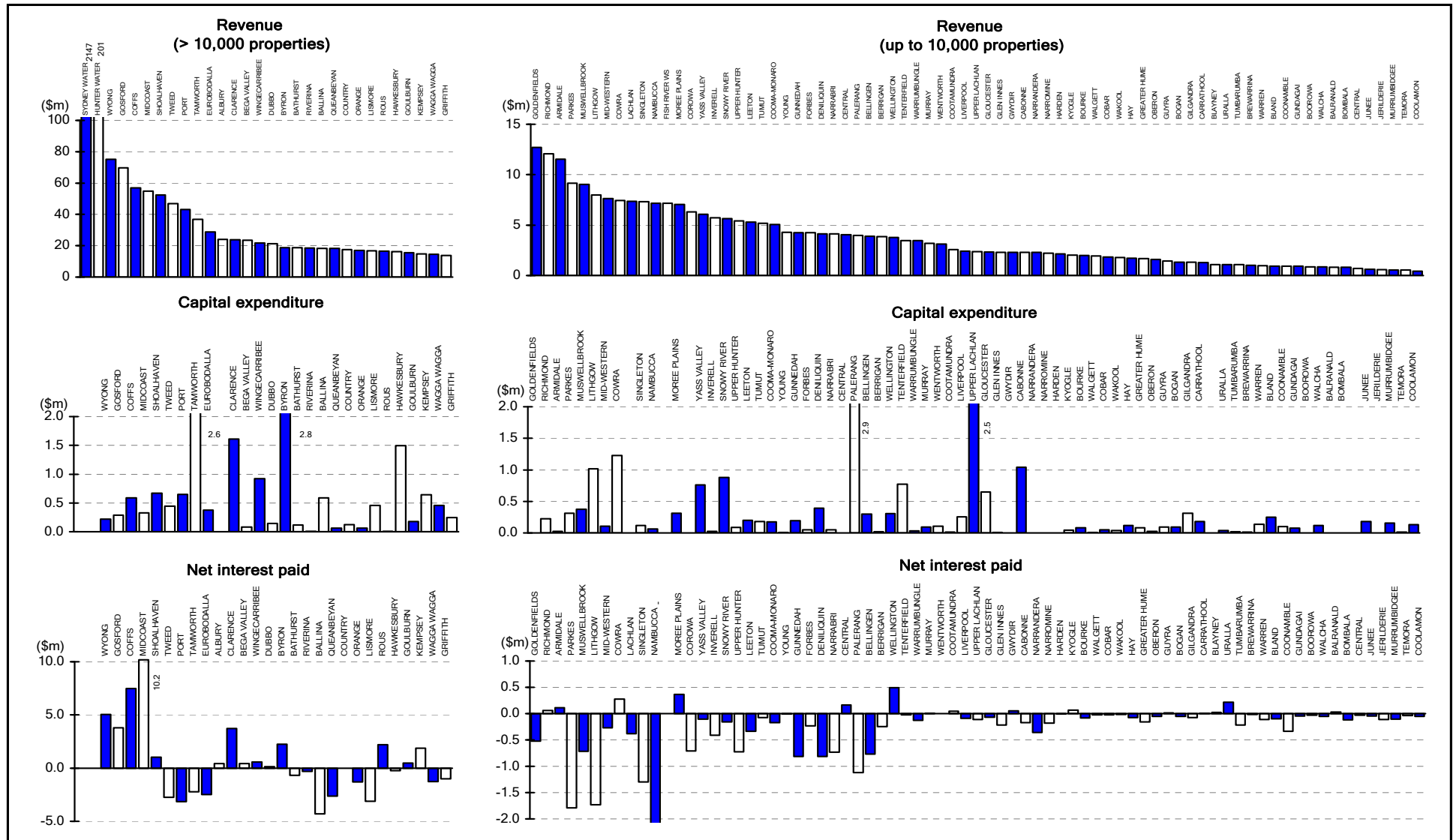
Parameter:

$(2009-10 \text{ Average Residential Water Supplied} \times 2010-11 \text{ Water Usage Charge}) + 2010-11 \text{ Water and Sewerage Access Charges}$

Notes:

1. This figure shows ranked values of the 2010-11 typical residential water bill for water supply and sewerage for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2010-11 typical residential water bill for water supply and sewerage for the 24 LWUs shown ranges from \$671 to \$1730. Results for the previous 5 years are also shown in Jan 2010\$.
2. The 2010-11 Statewide median typical residential bill for water supply and sewerage is \$960 per assessment.
3. Refer also to pages 6 and 27 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report*.
4. For general notes see page 30.

Figure 2: Revenue, capital expenditure, net interest paid – water supply and sewerage



Parameter: [Total revenue (W13 +S14) - grants for acquisition of assets (W11a + S12a)] ÷ 1,000,000

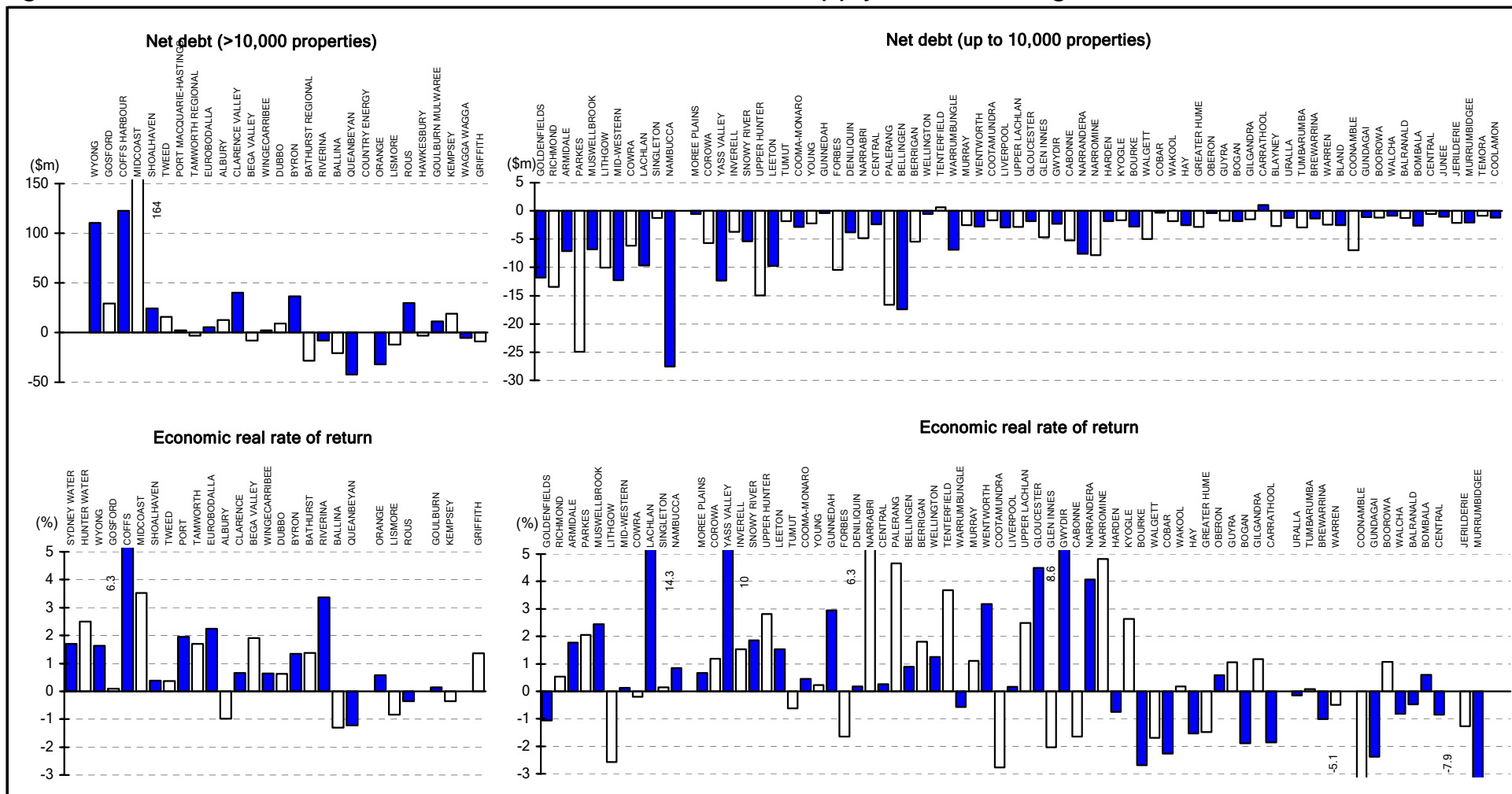
Parameter: Acquisition of fixed assets (W16 + S17)

Parameter: Interest expense (W4a + S4a) - interest income (W9 + S10)

Notes:

1. Utilities are ranked on the basis of revenue (see the top graph). Revenue for Sydney Water was \$2,147M and Hunter Water's revenue in 2008-09 was \$201M.
2. For general notes see page 30.

Figure 3: Net debt, economic real rate of return – water supply and sewerage



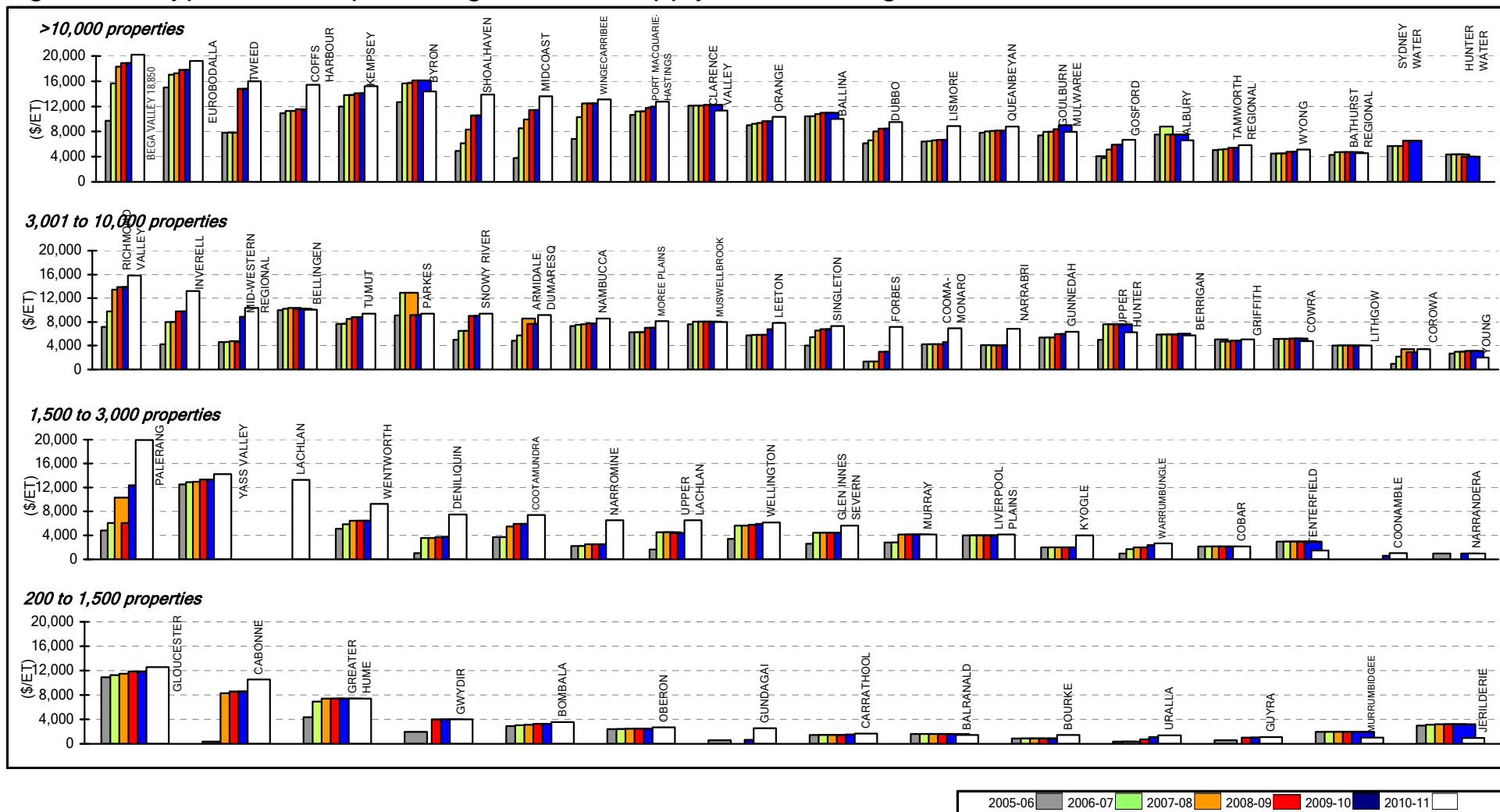
Parameter: [Borrowings (W39 + S40) + bank overdraft (W37 + S38)] - cash and investments (W30 + S31)

Parameter: [Operating result (W15) + interest expense (W4a) - interest income (W9) - grants for acquisition of assets (W11a)] x 100
Written down replacement cost of system assets, plant & equipment (W33)

Notes:

1. Utilities are ranked on the basis of revenue (see the top graph). Revenue for Sydney Water was \$2,147M and Hunter Water's revenue in 2008-09 was \$201M.
2. For general notes see page 30.

Figure 4: Typical developer charge – water supply and sewerage



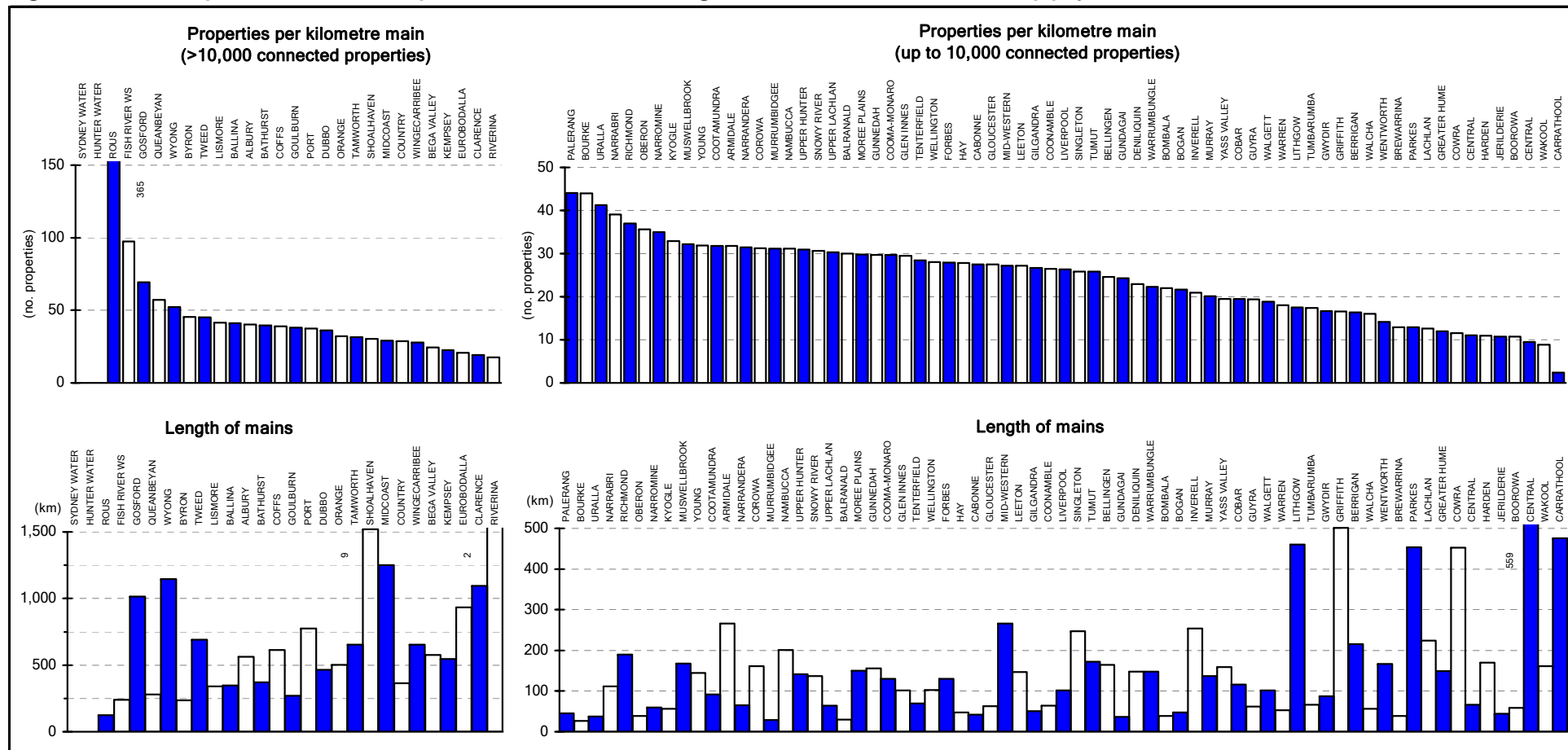
Parameter: Typical Water Supply Developer Charge (Q36) + Typical Sewerage Developer Charge (Q36)

Notes:

1. This figure shows ranked values of the 2010-11 typical developer charge for water supply and sewerage for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the typical developer charge for water supply and sewerage for the 24 LWUs shown ranges from \$15800 to \$20000. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median typical developer charge for water supply and sewerage is \$8900 per Equivalent Tenement (ET).
3. For general notes see page 30.

8. Water supply figures

Figure 5: Properties served per km of main, length of mains – water supply



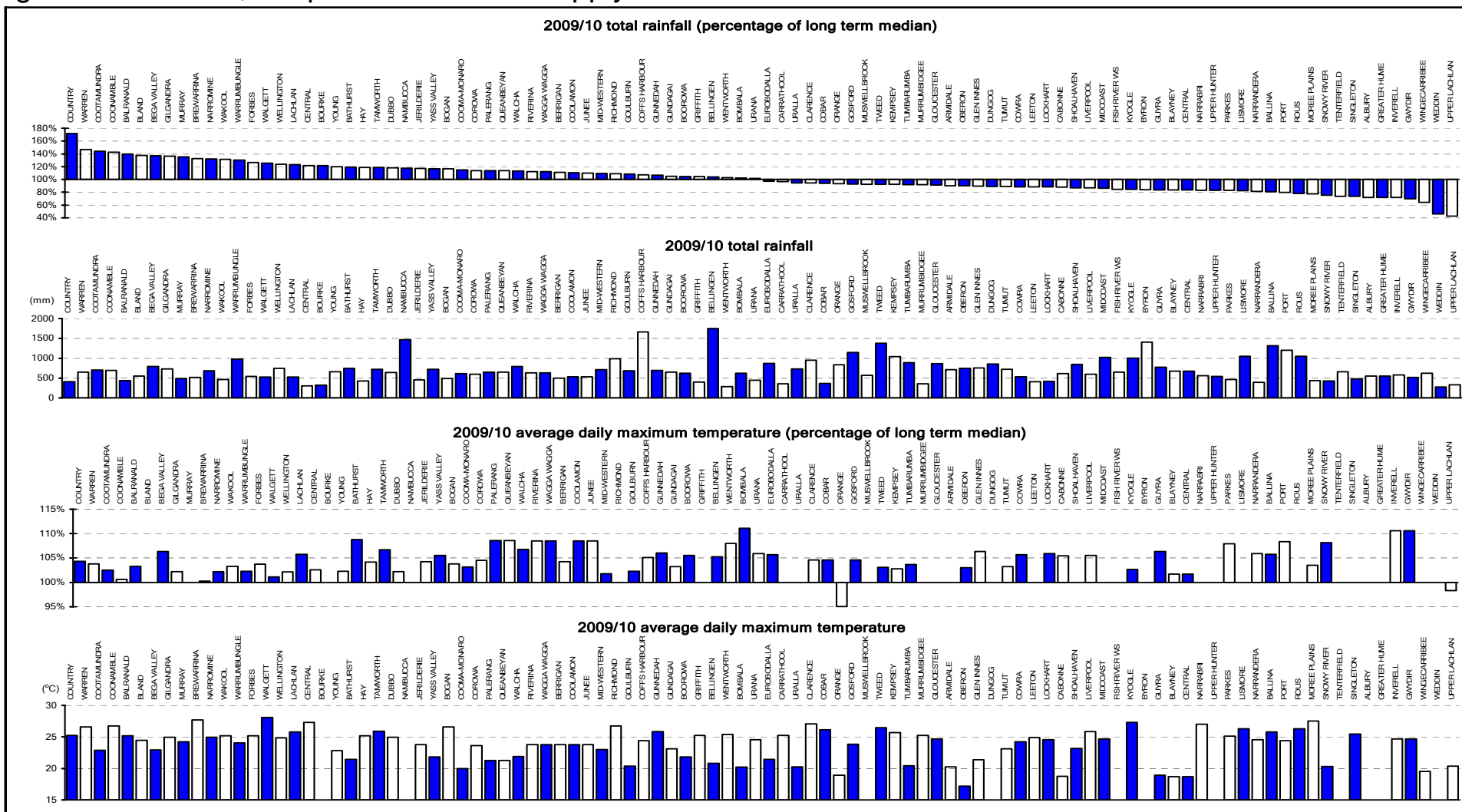
Parameter: $\frac{\text{No. of residential assessments (Q34)} + \text{No. of non-residential assessments (Q35)} \times \text{No. of connected properties per assessment}}{\text{Length of headworks transfer mains (Q20a)} + \text{length of trunk mains (Q20)} + \text{length of reticulation mains (Q21)}}$

Parameter: Length of headworks transfer mains (Q20a) + length of trunk mains (Q20) + length of reticulation mains (Q21)

Notes:

1. The top graph shows the ranked values of number of connected properties per km of water main for each Local Water Utility (LWU). Each bar represents one LWU. The bottom graph of this figure shows the total length of mains for the corresponding LWUs.
2. The Statewide median water supply connected properties per km of main is 32.
3. For general notes see page 30.

Figure 6: Rainfall, temperature – water supply



Parameter: $\frac{2009/10 \text{ total rainfall}}{\text{Long term median annual rainfall}} \times 100$

Parameter: 2009/10 total rainfall

Parameter: $\frac{2009/10 \text{ average daily maximum temperature}}{\text{Long term median daily maximum temperature}} \times 100$

Parameter: 2009/10 average daily maximum temperature

Notes:

1. Data provided by the Bureau of Meteorology. Averages and long term medians not available for some localities.
2. Temperature and rainfall figures are only shown where weather stations returned complete records
3. For general notes see page 30.

Figure 7: Total water supplied – water supply

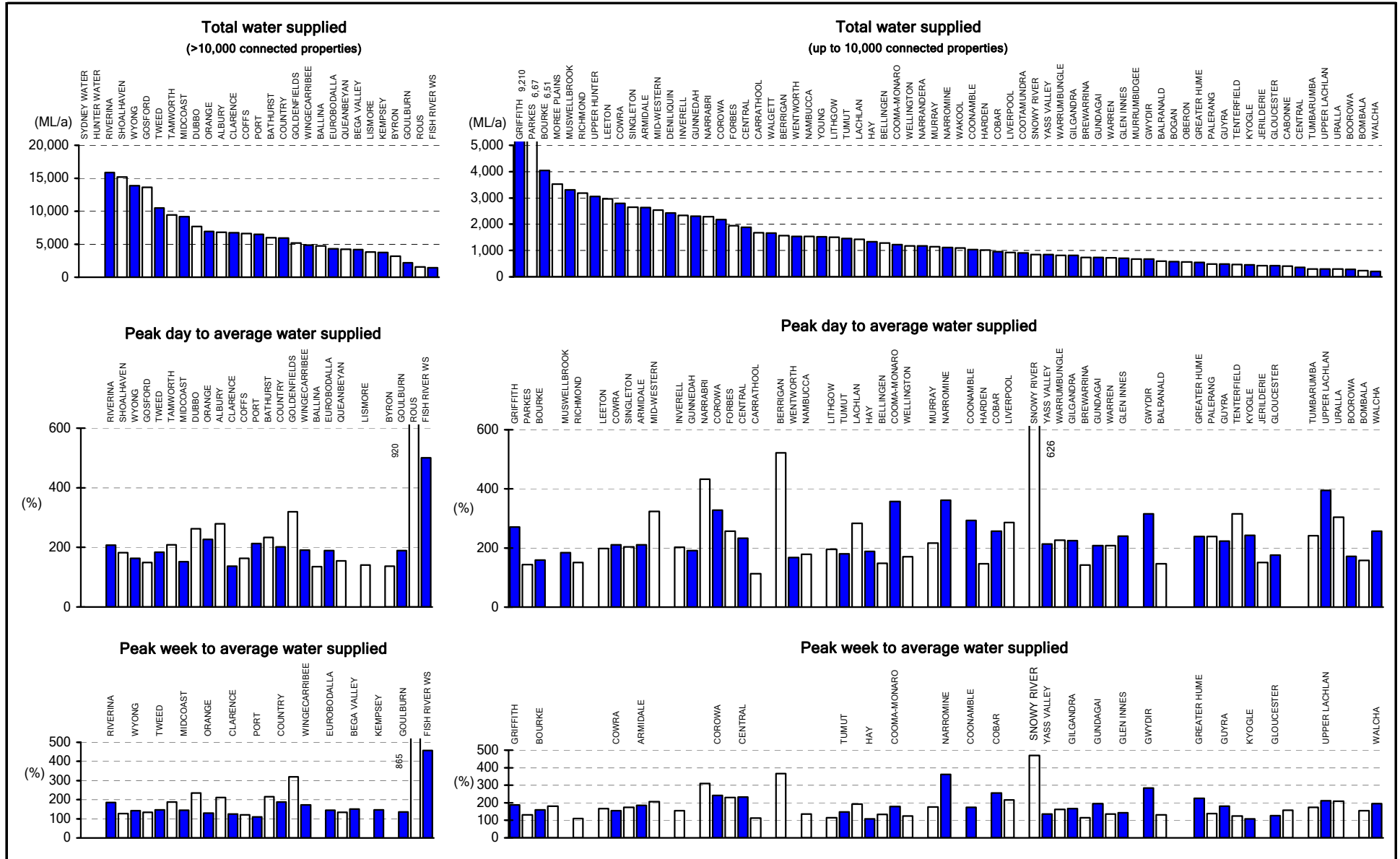


Figure 7: Total water supplied – water supply (continued)

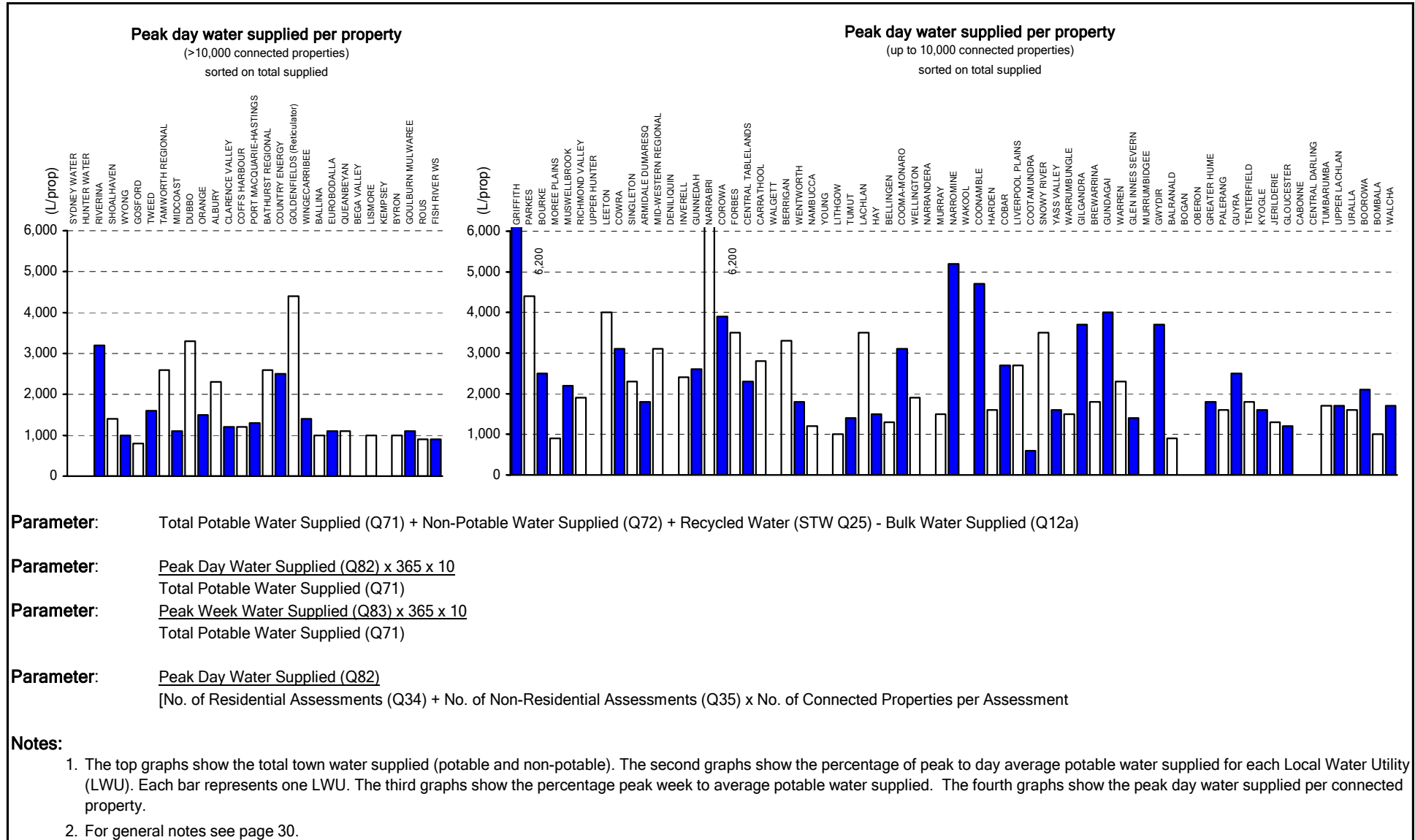
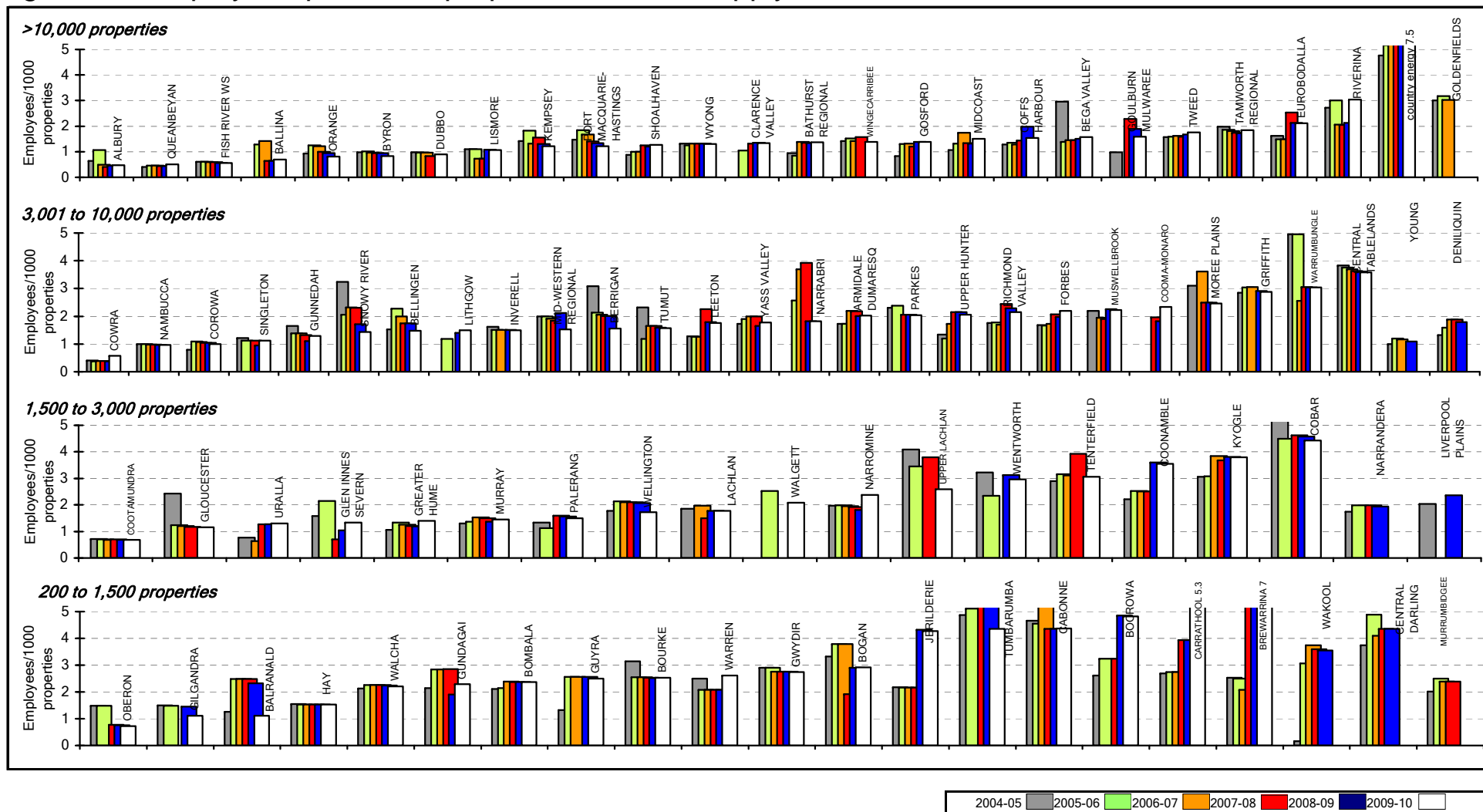


Figure 8: Employees per 1,000 properties – water supply



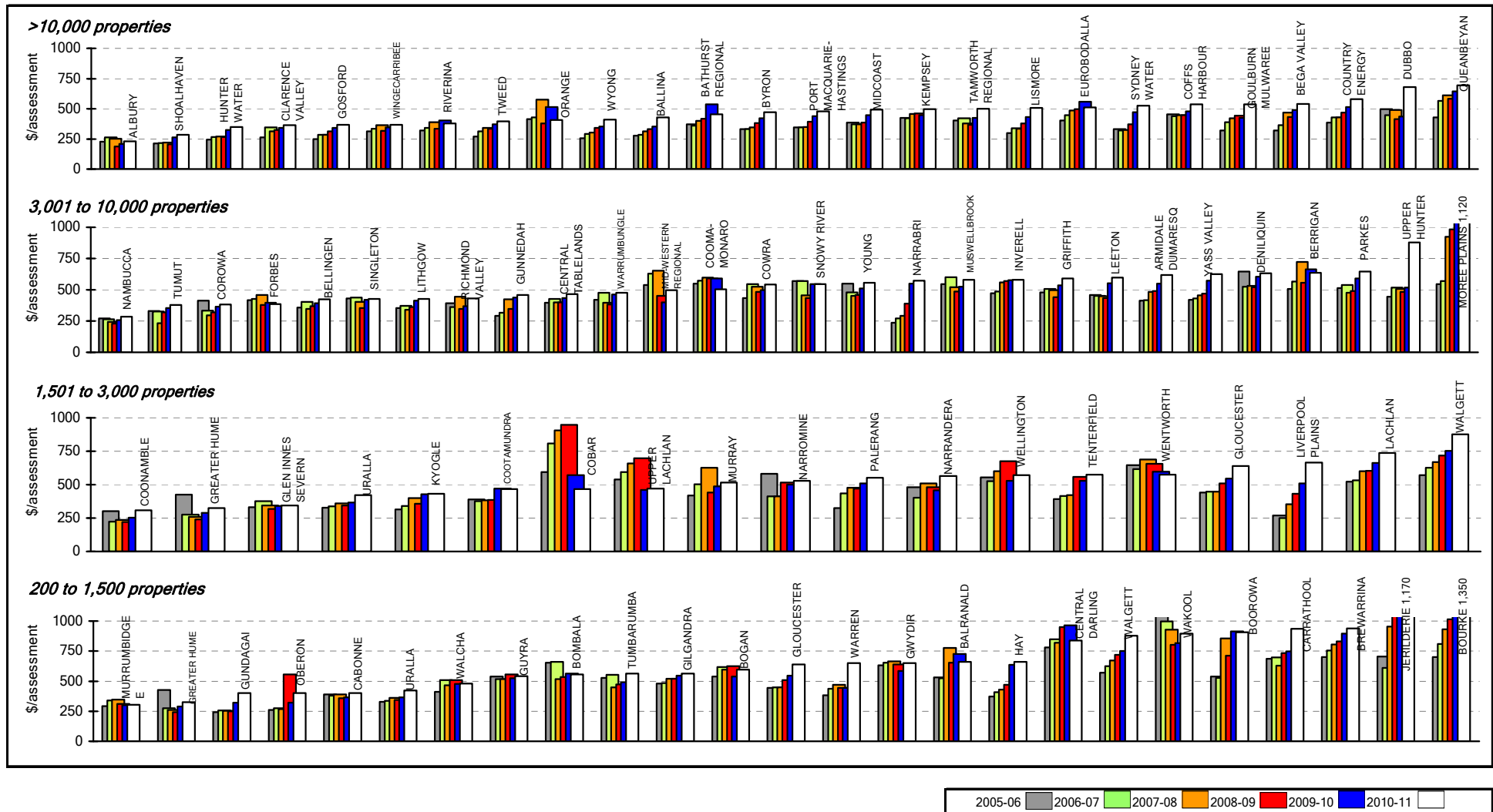
Parameter: Equivalent Full-time Employees (Q120) x 1000

[No. of Residential Assessments (Q34) + No. of Non-Residential Assessments (Q35) x No. of Connected Properties per Assessment

Notes:

1. This figure shows ranked values of the 2009-10 number of water supply employees per 1000 properties for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the water supply employees per 1000 connected properties for the 28 LWUs shown ranges from 0.6 to 3.6. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown.
2. The Statewide median number of water supply employees is 1.4 per 1000 connected properties.
3. For general notes see page 30.

Figure 9: Typical residential bill – water supply

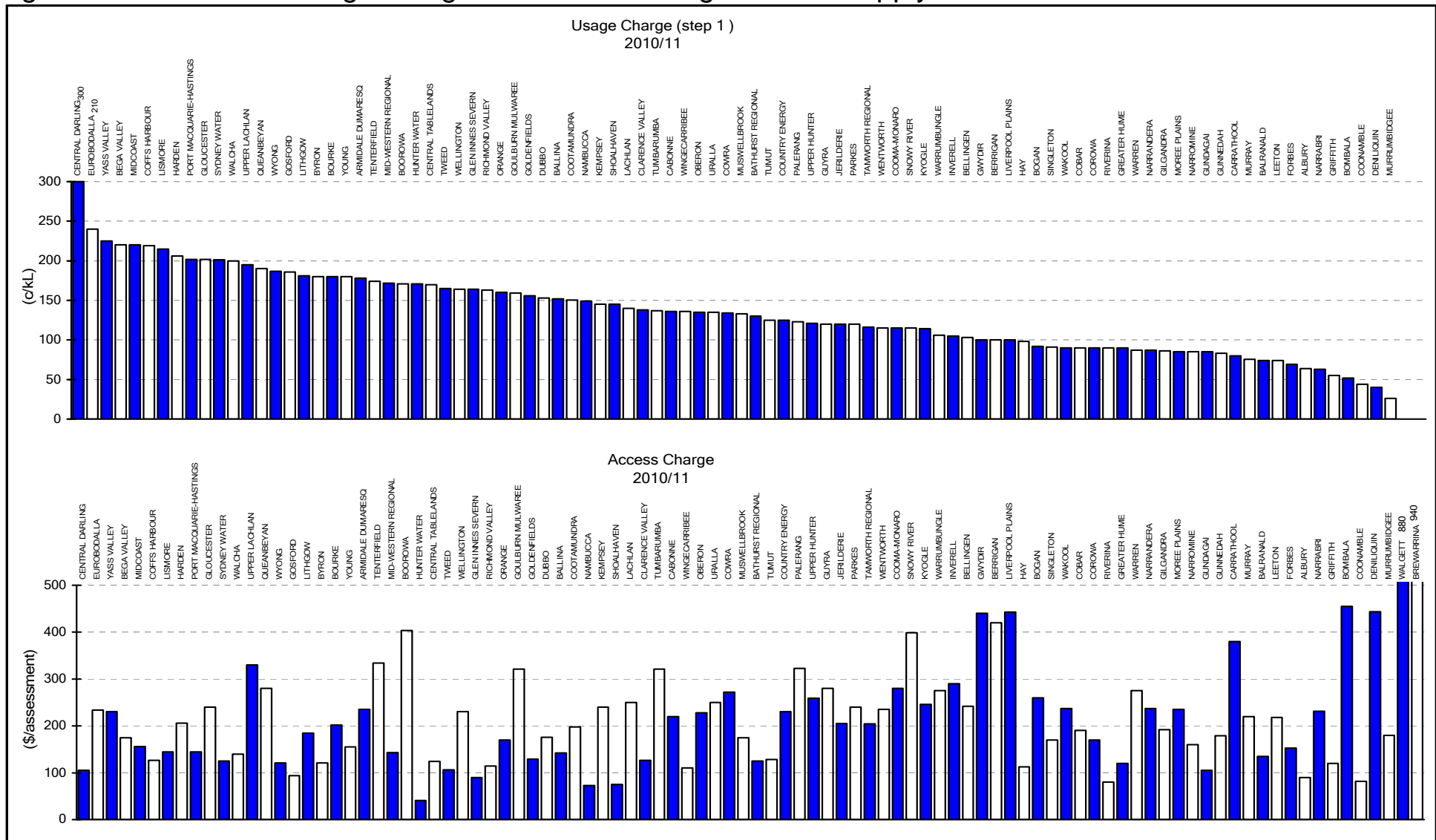


Parameter: (2008-09 Average Residential Water Supplied x 2009-10 Water Usage Charges) + 2009-10 Access Charge

Notes:

1. This figure shows ranked values of the 2010-11 typical residential bill for water supply for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the typical residential bill in 2010-11 for the 28 LWUs shown ranges from \$290 to \$1120 per assessment. Results for the previous 5 years are also shown in Jan 2010\$.
2. The 2010-11 Statewide median typical residential bill for water supply is \$430 per assessment.
3. For general notes see page 30.

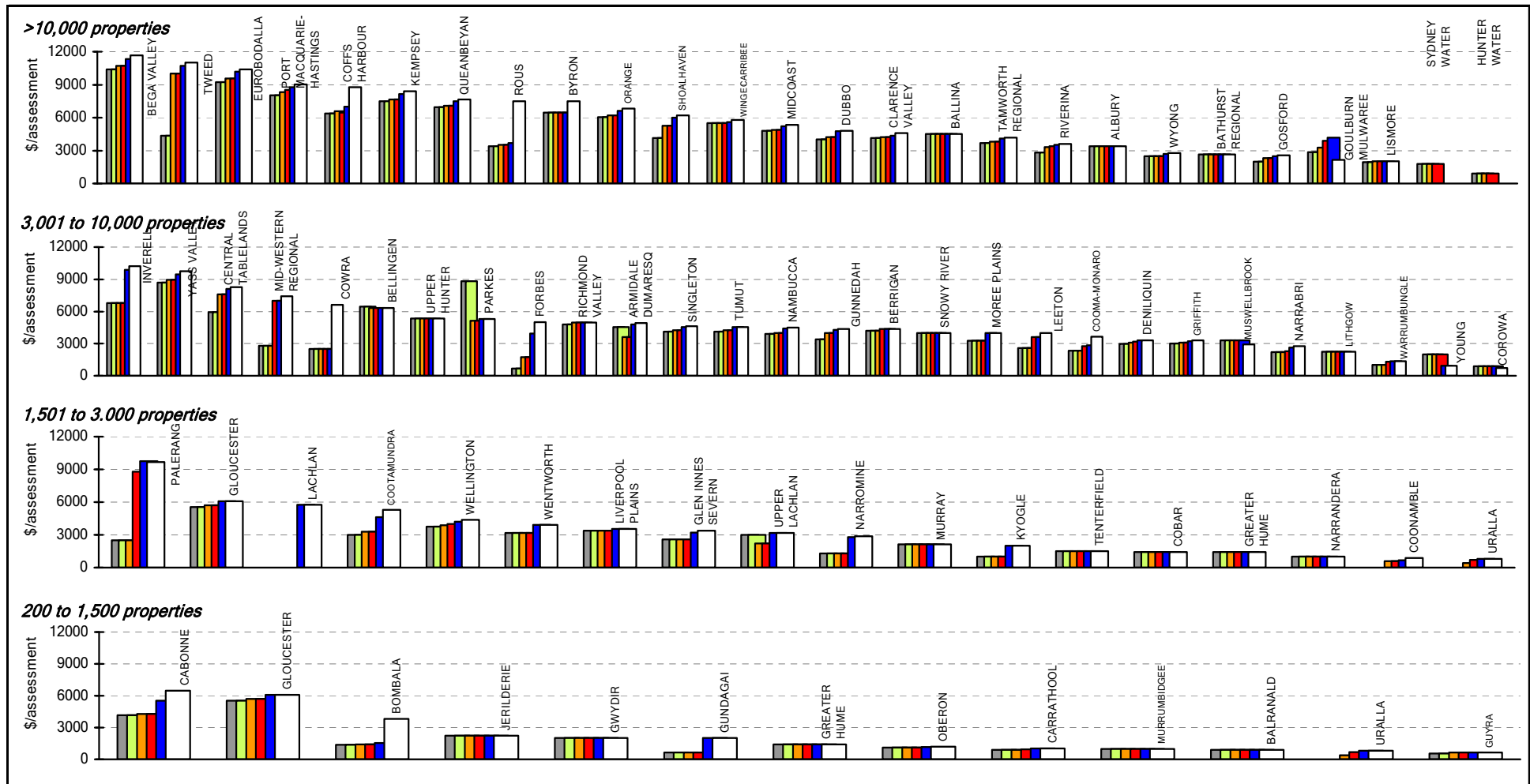
Figure 10: Residential usage charge and access charge – water supply



Notes:

1. ALL LWUs have now abolished their free water allowance for potable water supply. 1 LWU did not have domestic water metering.
2. The first step residential water usage charge is shown above. Further information on water supply tariff structures is shown in Tables 6, 6A and 6B.
3. The Statewide median water usage charge for the first step was 163 c/kL. 20% of LWUs had a usage charge greater than 180 c/kL. 80% of LWUs had a usage charge greater than c/kL. Approximately 75% of LWUs had step pricing in place for discretionary water use, with a higher charge per kL for usage over 200 to 600 kL/a (Table 6).
4. For general notes see page 30. Refer also to page 11.

Figure 11: Typical developer charge – water supply



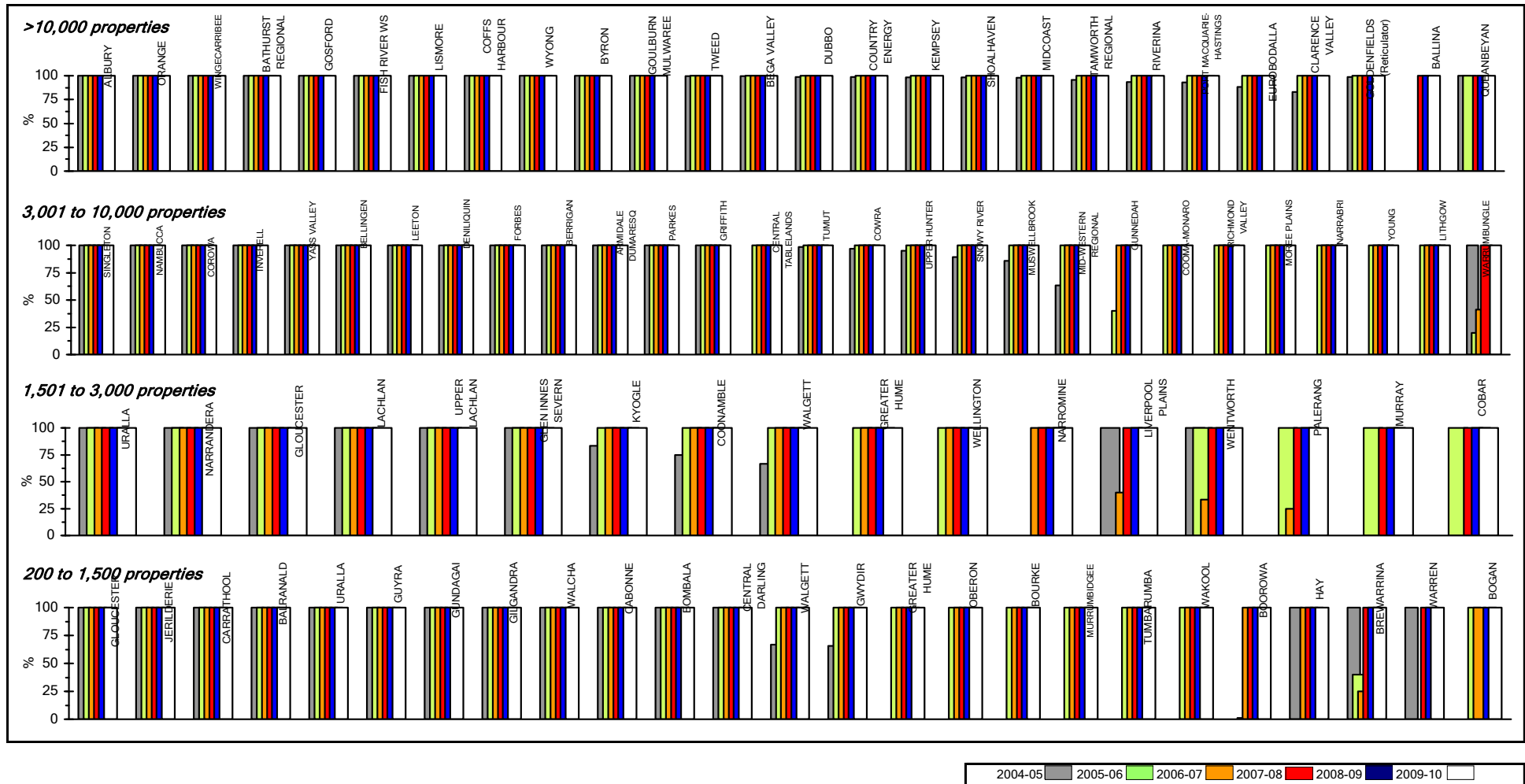
Parameter: Typical Water Supply Developer Charge (Q136)



Notes:

1. This figure shows ranked values of the 2010-11 typical developer charge for water supply for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the typical developer charge for water supply for the 28 LWUs shown ranges from \$10200 to \$700. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median typical developer charge for water supply is \$4700 per equivalent tenement (ET), which is 39% of the median current replacement cost of water supply system assets of \$11900 per assessment.
3. 83 LWUs levied water supply developer charges.
4. For general notes see page 30.

Figure 12: Physical water quality compliance – water supply

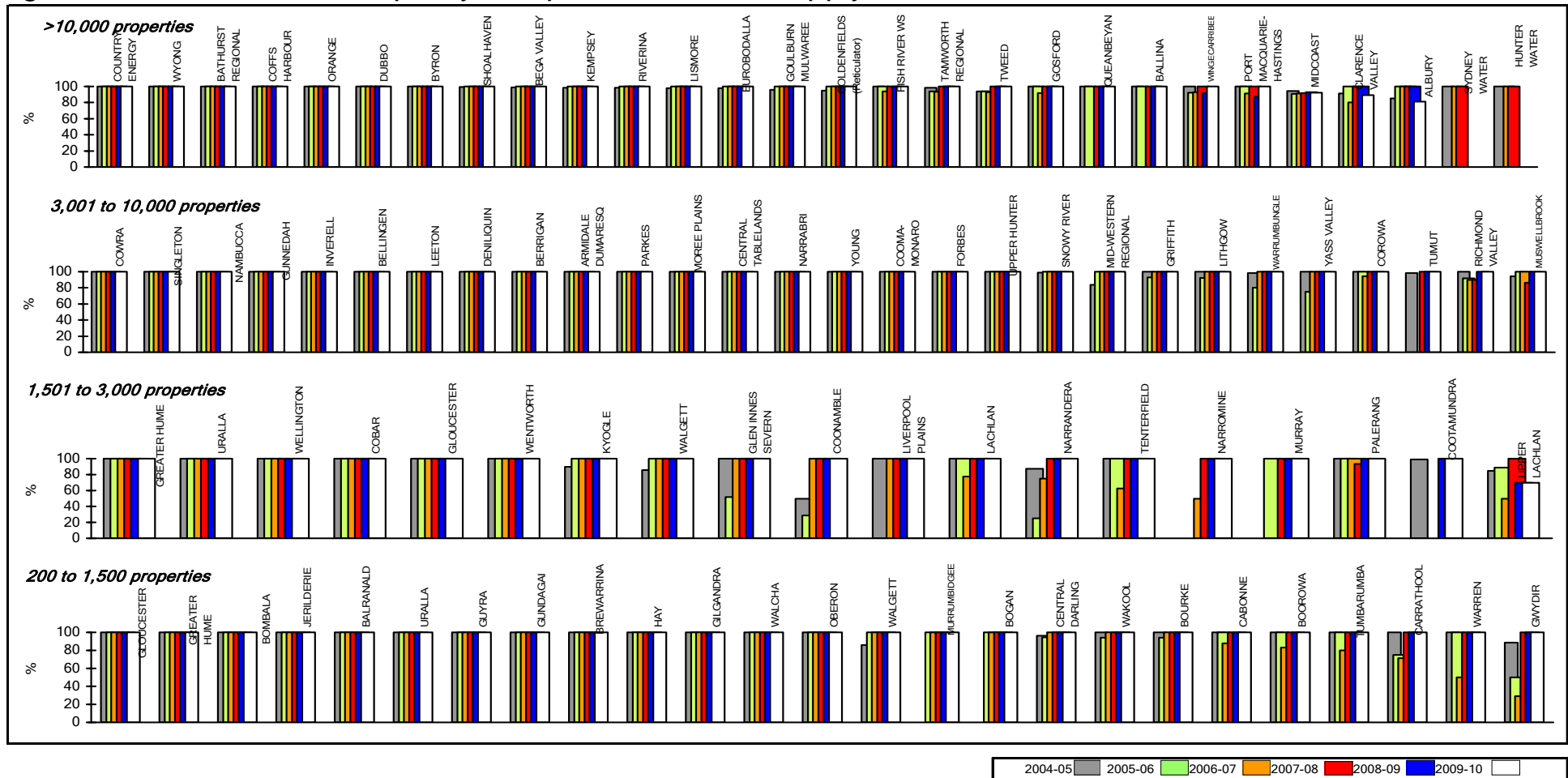


Parameter: Percentage of distribution system water samples complying with physical criteria of the NHMRC/NRMMC Australian Drinking Water Guidelines 2004.

Notes:

1. This figure shows ranked values of the 2009-10 distribution system compliance with the NHRMC/NRMMC Australian Drinking Water Guidelines 2004 for physical water quality for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the physical water quality compliance for the 28 LWUs shown are all 100%. Results for the previous 5 years are also shown.
2. For an LWU to comply with the 2004 Australian Drinking Water Guidelines for physical water quality, the required number of samples must be tested (refer to page 204) and at least 50% of samples (not health related) must comply with the guideline limits. Non-potable water supplies are excluded.
3. 98% of the 24,000 samples tested in 2009-10 achieved 100% compliance with these guidelines. 100% of LWUs complied with the guidelines in 2009-10.
4. For LWUs with more than one water treatment works, the reported compliance has been pro-rated on the basis of the number of samples tested at each treatment works. Appendix D1 provides the 2009-10 results for each treatment works.
5. The Statewide median physical water quality compliance is 100%.
6. For general notes see page 30.

Figure 13: Chemical water quality compliance – water supply

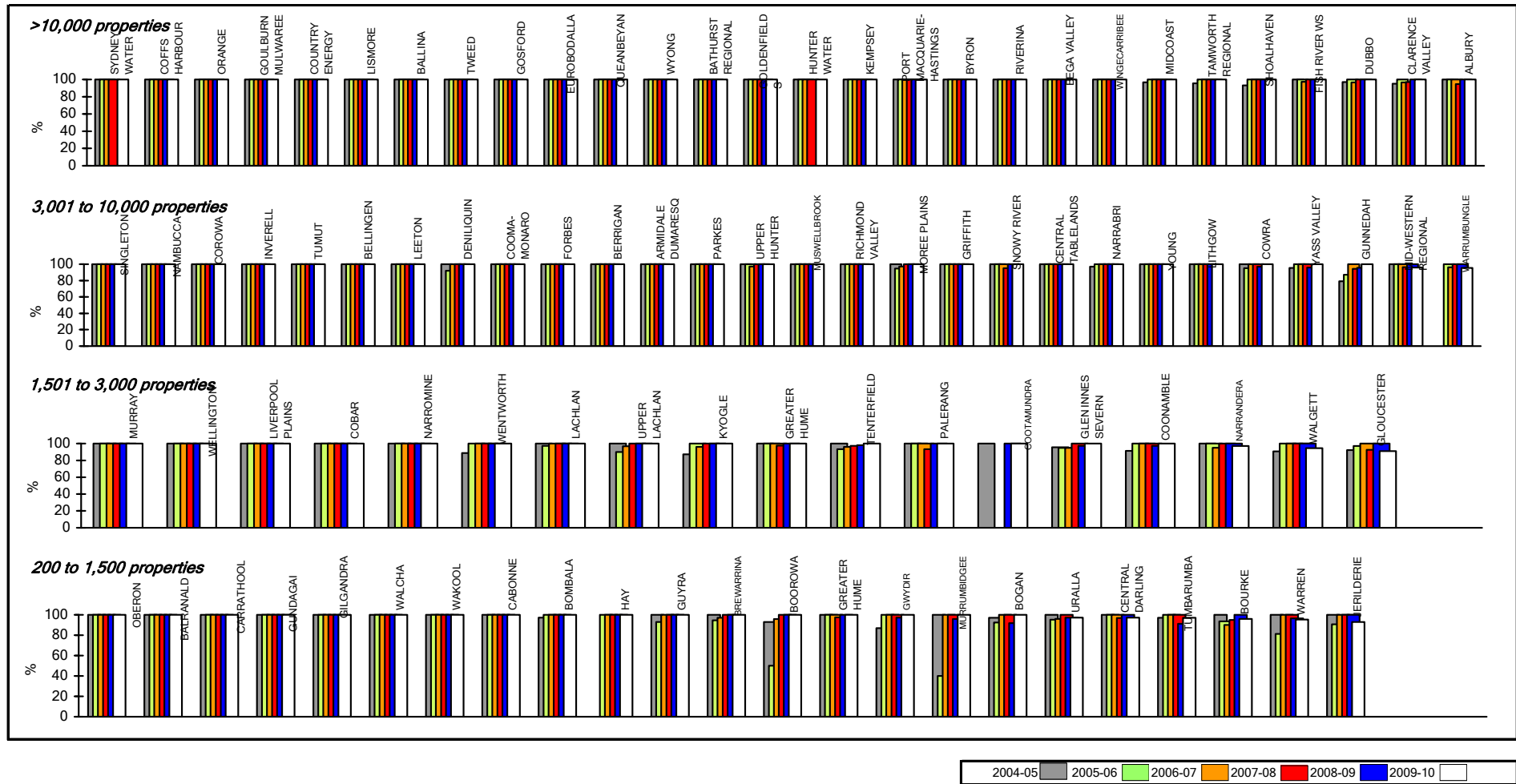


Parameter:
Notes:

Percentage of distribution system water samples complying with chemical criteria of the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines.

1. This figure shows ranked values of the 2009-10 distribution system compliance with the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines for chemical water quality for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the chemical water quality compliance for the 28 LWUs shown ranges from 100% to 100%. The utility on the right did not report on this indicator for 2006/07. Results for the previous 5 years are also shown.
2. 98% of the 21,400 samples tested in 2009-10 achieved 100% compliance with 2004 Guidelines. 96% of the LWUs complied with the Guidelines in 2009-10.
3. For an LWU to comply with the 2004 Australian Drinking Water Guidelines for chemical water quality, the required number of samples must be tested (refer to page 204) and at least 95% of samples (health related) must comply with the guideline limits. Non-potable water supplies are excluded. For LWUs with more than one water treatment works, the reported compliance has been pro-rated on the basis of the number of samples tested at each treatment works. Appendix D1 provides the 2009-10 results for each treatment works.
4. Most of the non-compliances above are not health-related and involve parameters such as hardness, iron and manganese.
5. The Statewide median chemical water quality compliance is 100%.
6. For general notes see page 30.

Figure 14: Microbiological water quality compliance – water supply

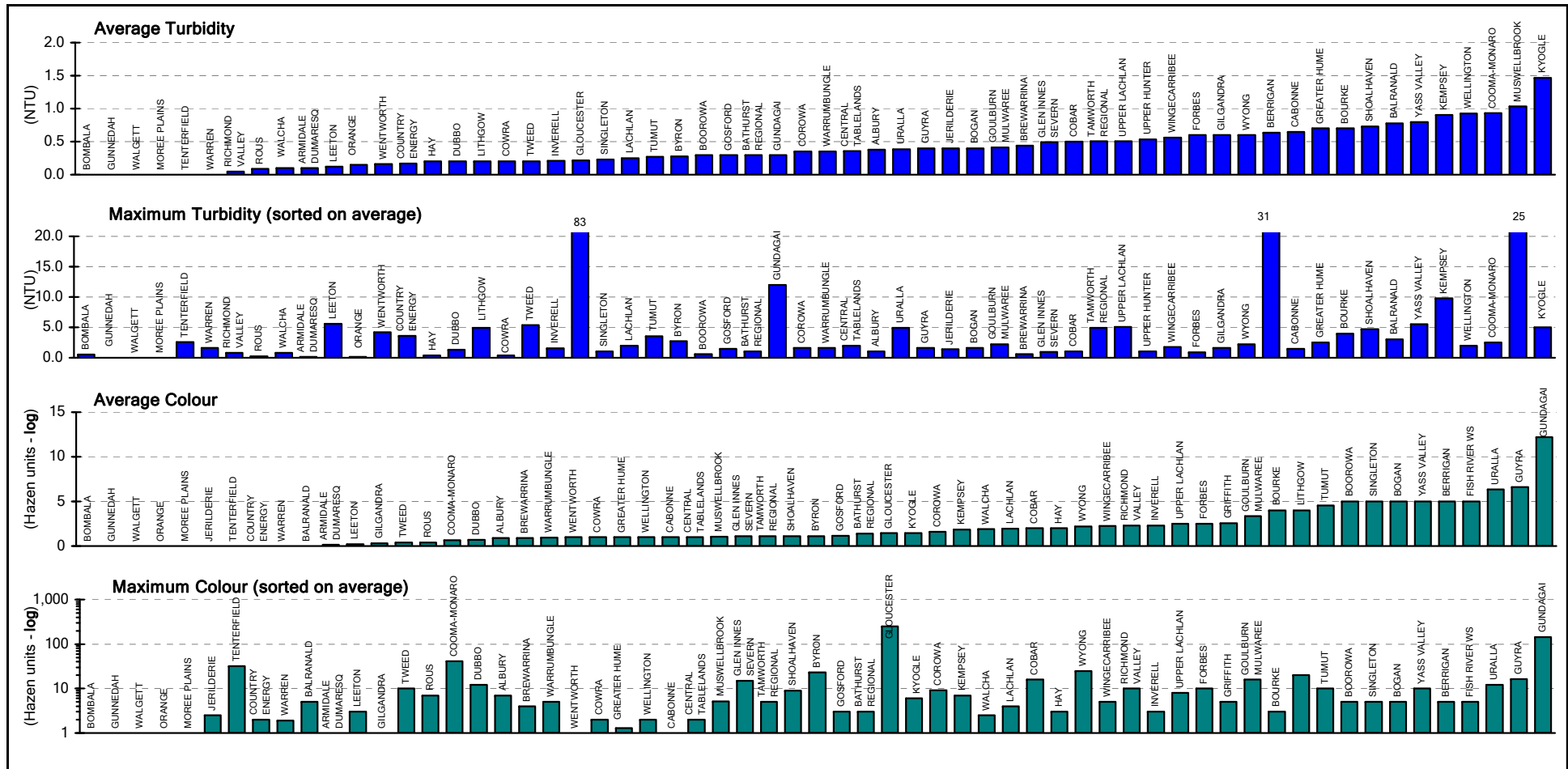


Parameter: Percentage of distribution system water samples complying with E. coli criteria of the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines

Notes:

1. This figure shows ranked values of the 2009-10 distribution system compliance with the 2004 NHRMC/NRMMC Australian Drinking Water Guidelines for E. coli for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the microbiological water quality compliance for the 28 LWUs shown ranges from 100% to 95%. Results for the previous 5 years are also shown.
2. For an LWU to comply with the 2004 Australian Drinking Water Guidelines for microbiological water quality, the required number of samples must be tested (refer to page 204) and at least 98% of the samples must contain no E.coli. Non-potable water supplies are excluded. 99% of the 20,700 samples tested in 2009-10 contained no E. coli. 89% of the LWUs complied with the 2004 Guidelines for E. coli in 2009-10. The 11 non-complying LWUs each served between 500 and 7,200 connected properties. Refer also to page 20.
3. For LWUs with more than one water treatment works, the reported compliance has been pro-rated on the basis of the number of samples tested at each treatment works.
4. The Statewide median microbiological water quality compliance is 100%.
5. For general notes see page 30.

Figure 16: Turbidity and colour for filtered supplies – water supply

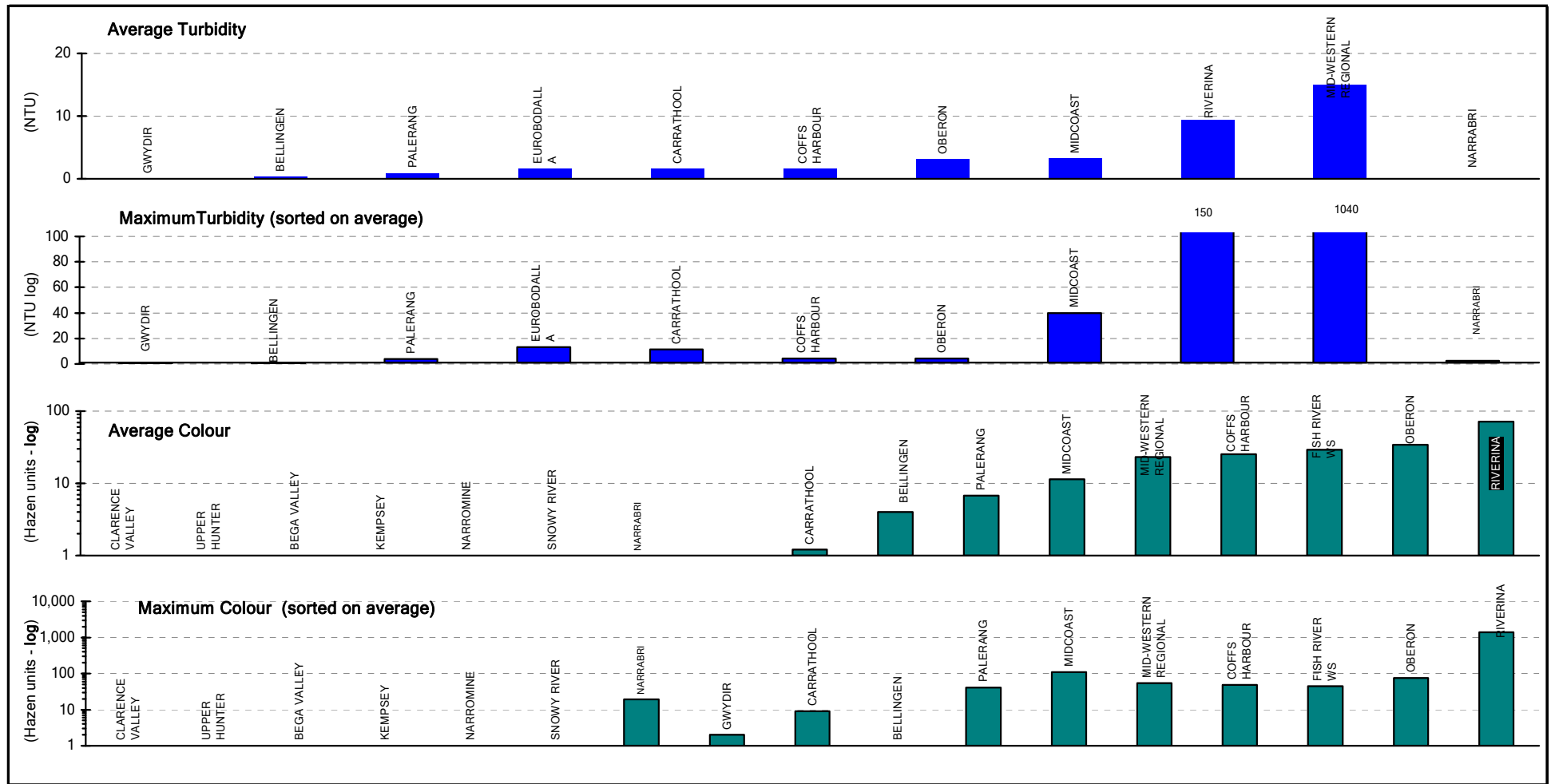


Parameter: Treated Water Average Turbidity (WTW Q15), Maximum Turbidity (WTW Q14), Treated Water Average Colour (WTW Q11), Maximum Colour (WTW Q10)

Notes:

1. Only Local Water Utilities (LWUs) with at least filtration and disinfection for over 50% of their supply have been considered. The reported results are the weighted average on the basis of volume treated for each LWU's water treatment work. A number of LWUs have some unfiltered supplies (<50% of their total supply) which increases the reported colour and turbidity values.
2. All 65 reporting LWUs had average turbidity not exceeding 2 turbidity units. 97% of these LWUs had average turbidity not exceeding 1 turbidity unit.
3. 98% of the 61 reporting LWUs had average colour not exceeding 8 colour units. 85% of these LWUs had average colour exceeding 5 colour units.
4. For general notes see page 30.

Figure 17: Turbidity and colour for unfiltered supplies – water supply

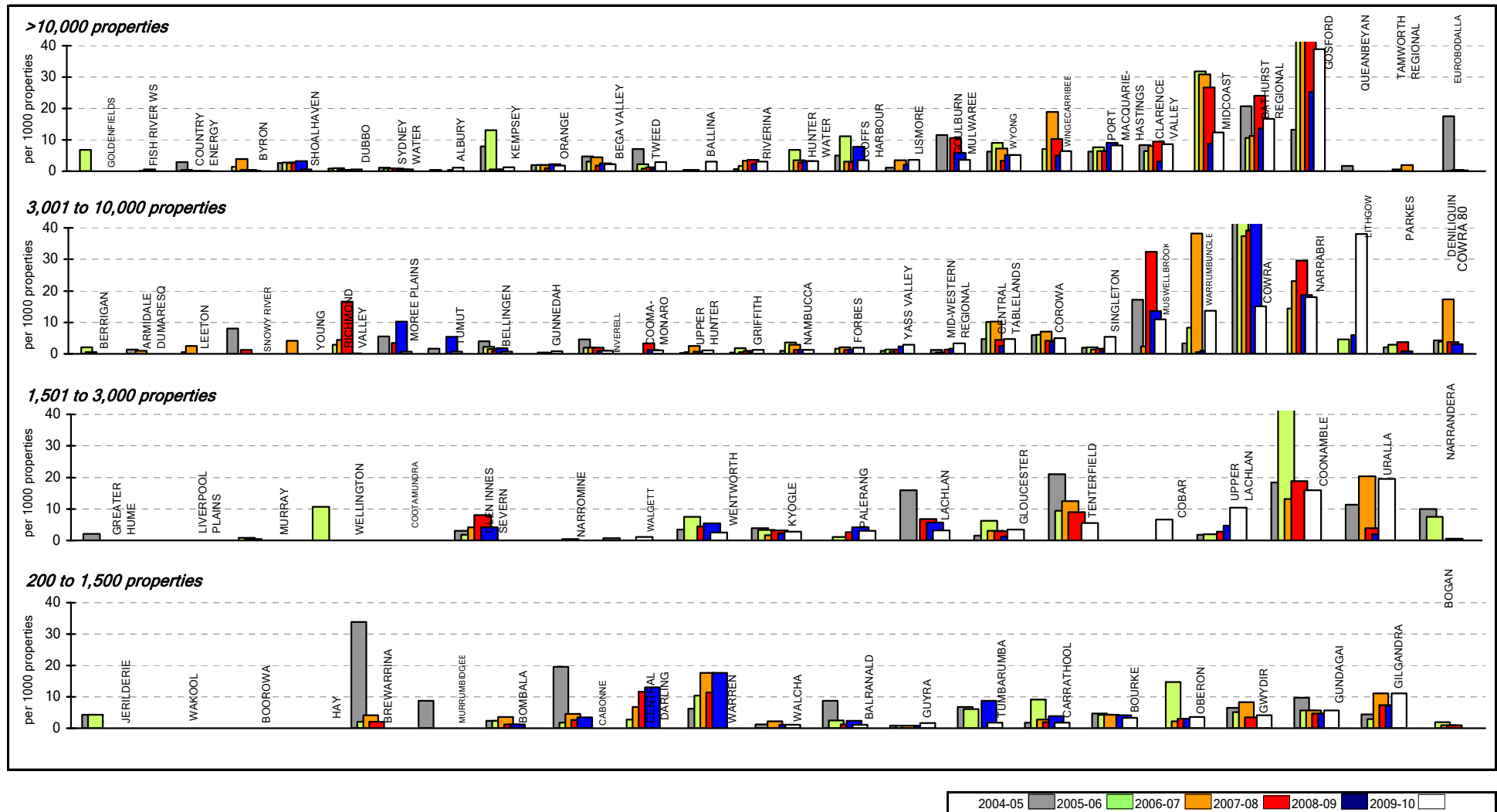


Parameter: Raw Water Average Turbidity (WTW Q13), Maximum Turbidity (WTW Q12), Raw Water Average Colour (WTW Q9), Maximum Colour (WTW Q8)

Notes:

1. Only unfiltered reporting supplies have been considered
2. 60% of the 10 reporting LWUs had average turbidity not exceeding 2 turbidity units. 50% of these LWUs had average turbidity not exceeding 1 turbidity unit.
3. 71% of reporting LWUs had average colour not exceeding 15 colour units. 83% of these LWUs had average colour not exceeding 5 colour units.
4. For general notes see page 30.

Figure 18: Water quality complaints – water supply

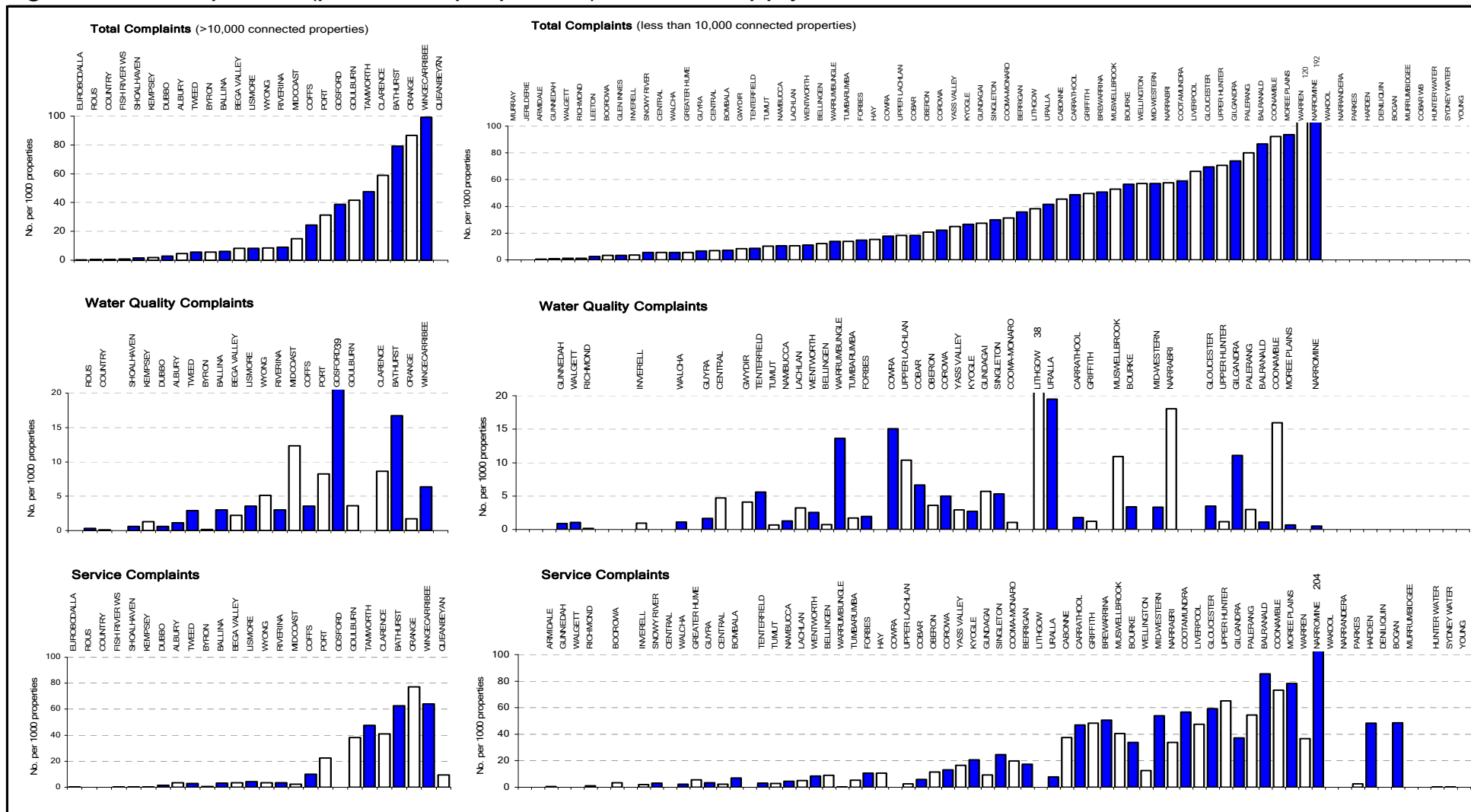


Parameter: No. of Water Quality Complaints (Q101) x 1000
 [No. of Residential Assessments (Q34) + No. of Non-Residential Assessments (Q35)] x No. of Connected Properties per Assessment

Notes:

1. This figure shows ranked values of the 2009-10 number of water quality complaints per 1000 connected properties for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the water quality complaints for the 26 LWUs shown ranges from nil to 38 per 1000 connected properties.
2. The Statewide median number of water quality complaints is 4 per 1000 properties.
3. For general notes see page 30.

Figure 19: Complaints (per 1,000 properties) – water supply



Parameter: $\frac{\text{Total No. of Complaints } [(Q96)+(Q99)+(Q100)+(Q101)] \times 1000}{[\text{No. of Residential Assessments (Q34)} + \text{No. of Non-Residential Assessments (Q35)}] \times \text{No. of Connected Properties per Assessment}}$

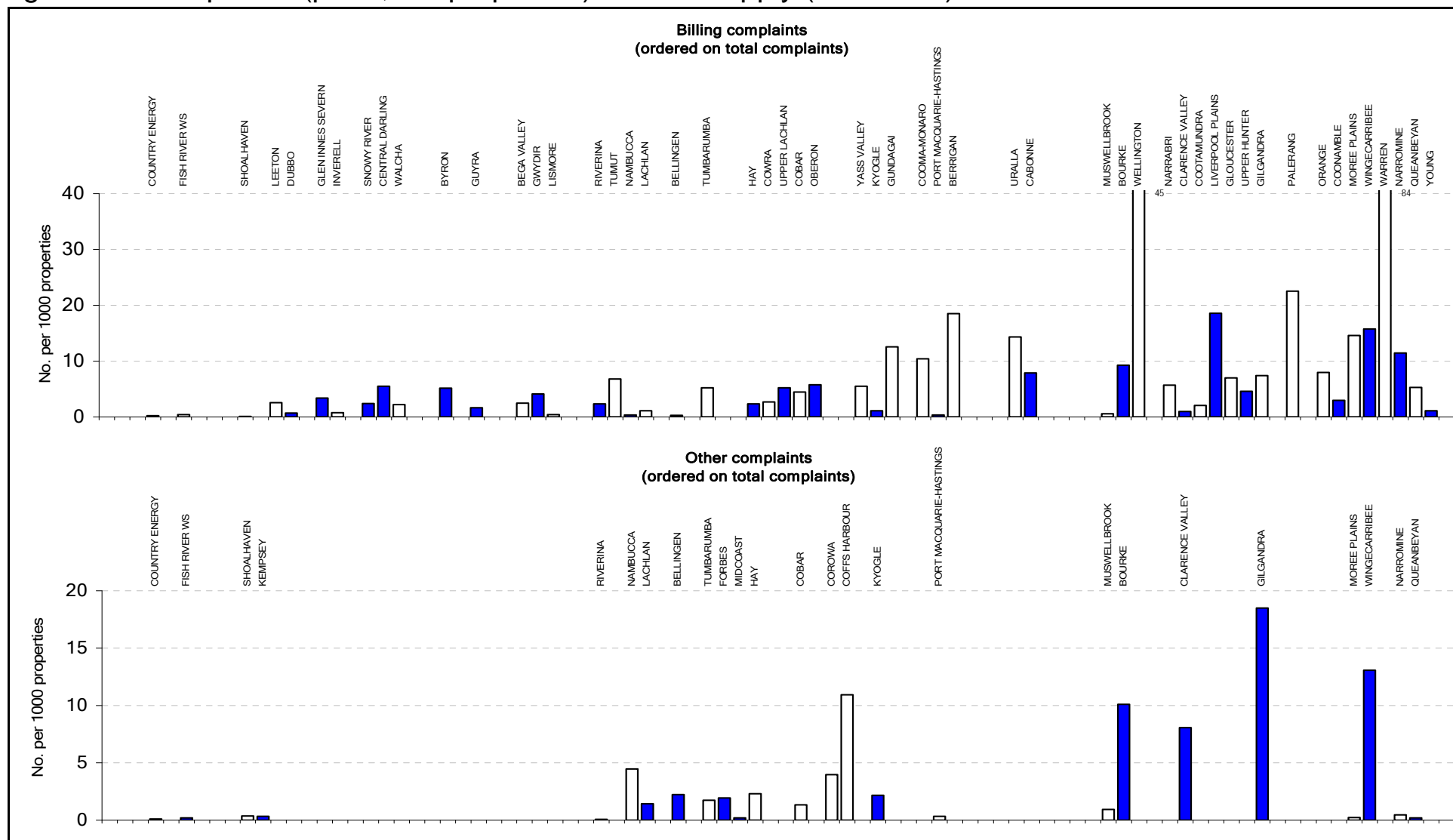
Parameter: $\frac{\text{No. of Water Quality Complaints (Q42a)} \times 1000}{[\text{No. of Residential Assessments (Q34)} + \text{No. of Non-Residential Assessments (Q35)}] \times \text{No. of Connected Properties per Assessment}}$

Parameter: $\frac{\text{No. of Water Service Complaints (Q19a)} \times 1000}{[\text{No. of Residential Assessments (Q34)} + \text{No. of Non-Residential Assessments (Q35)}] \times \text{No. of Connected Properties per Assessment}}$

Note:

1. For general notes see page 30.

Figure 19: Complaints (per 1,000 properties) – water supply (continued)

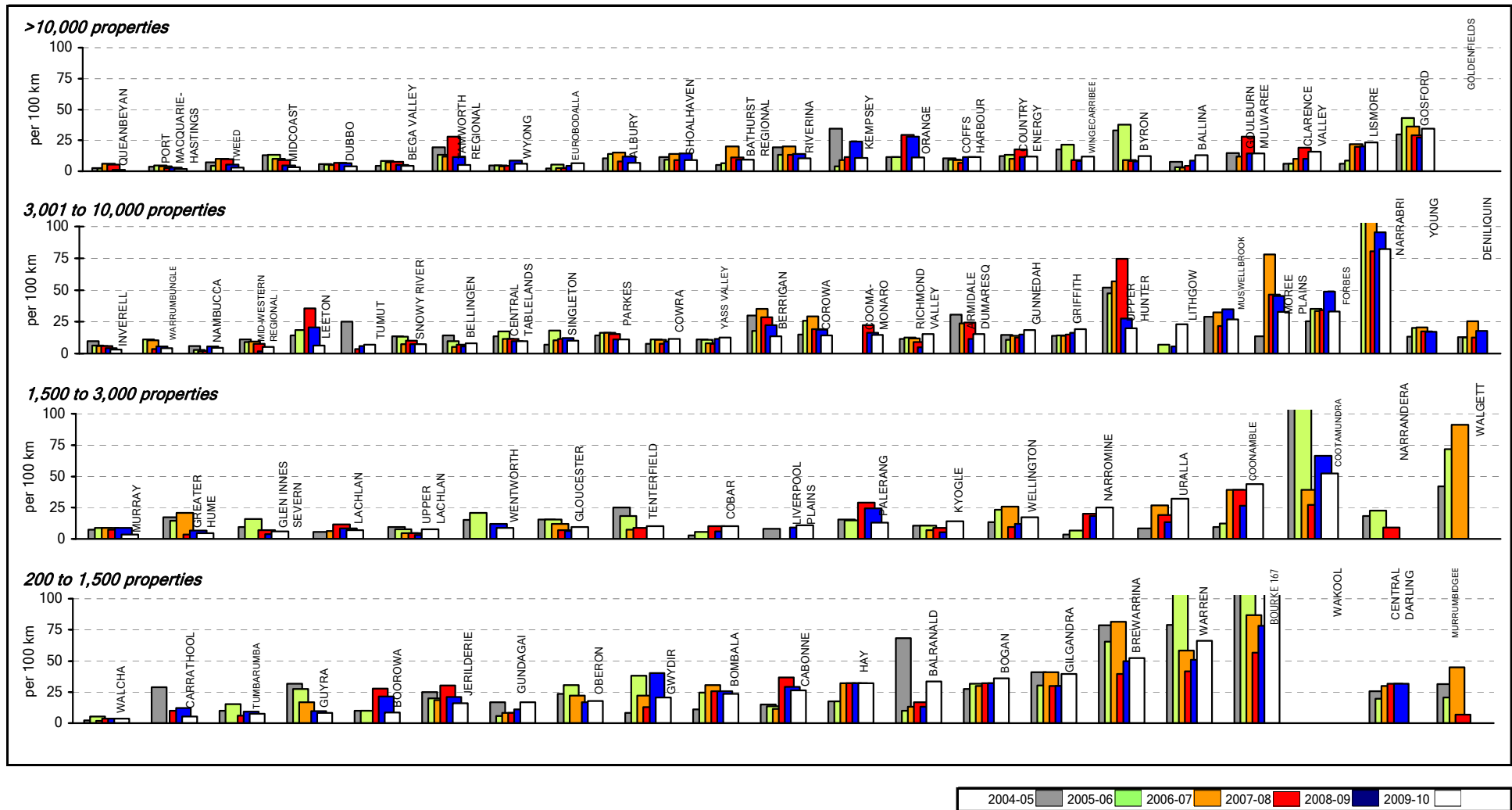


Parameter: $\frac{\text{No. of Billing Complaints (Q99)} + x 1000}{[\text{No. of Residential Assessments (Q34)} + \text{No. of Non-Residential Assessments (Q35)}] \times \text{No. of Connected Properties per Assessment}}$

Parameter: $\frac{\text{No. of Other Complaints (Q100)} \times 1000}{[\text{No. of Residential Assessments (Q34)} + \text{No. of Non-Residential Assessments (Q35)}] \times \text{No. of Connected Properties per Assessment}}$

Note:
1. For general notes see page 30.

Figure 20: Number of water main breaks – water supply

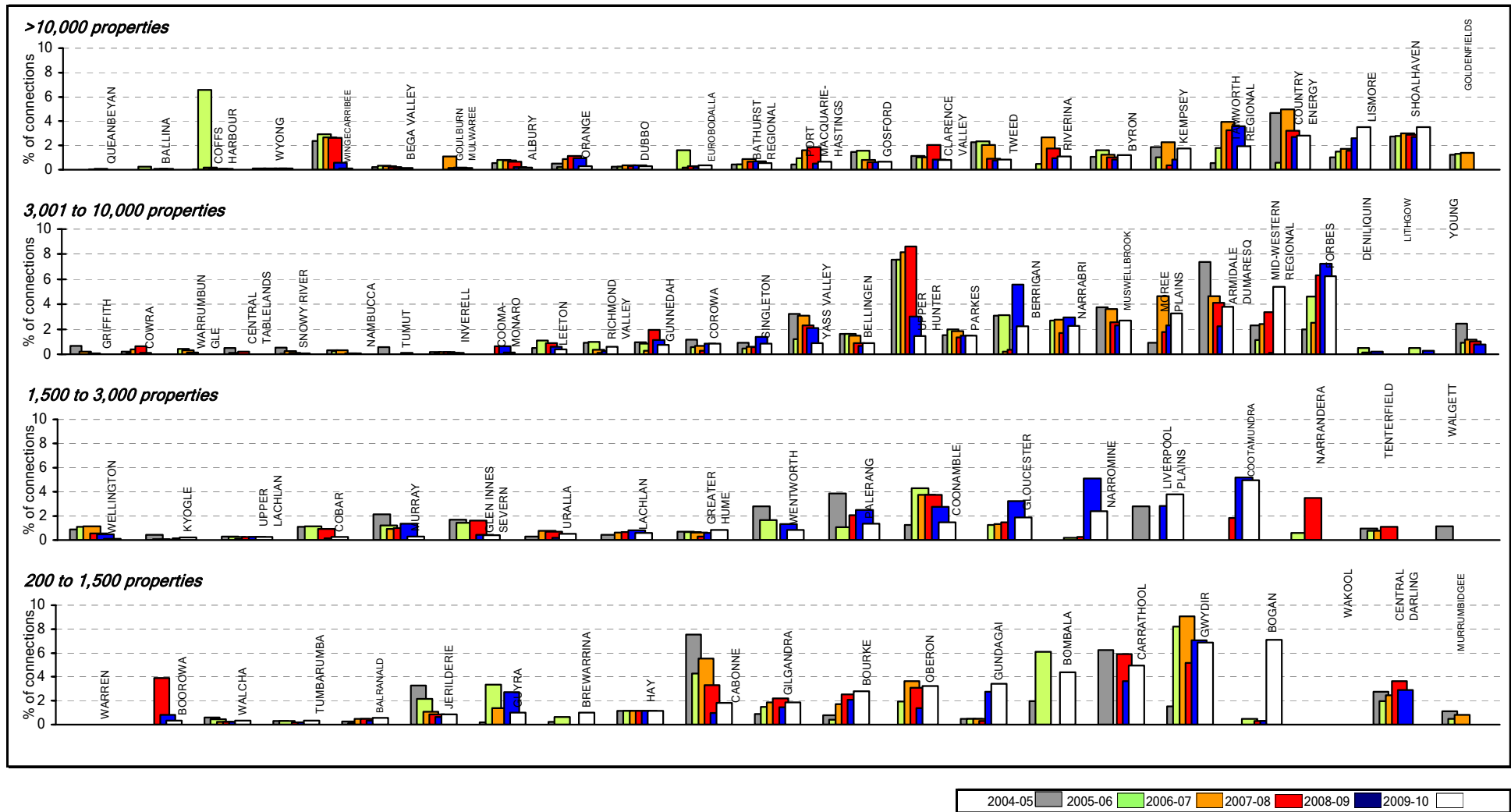


Parameter: No. of Pipeline Breaks (Q104) x 100
Length of Distribution and Trunk Mains (Q22)

Notes:

1. This figure shows ranked values of the 2009-10 water supply main breaks for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the number of main breaks for the 28 LWUs shown ranges from 3.1 to 80 per 100km of water mains. Results for the previous 5 years are also shown.
2. The Statewide median number of water supply main breaks is 10 per 100km of water main. This has remained much lower than all the other states and capital city utilities, indicating good water main asset condition (graph 9 on page 184 of Appendix A).
3. For general notes see page 30.

Figure 21: Service connection failures – water supply

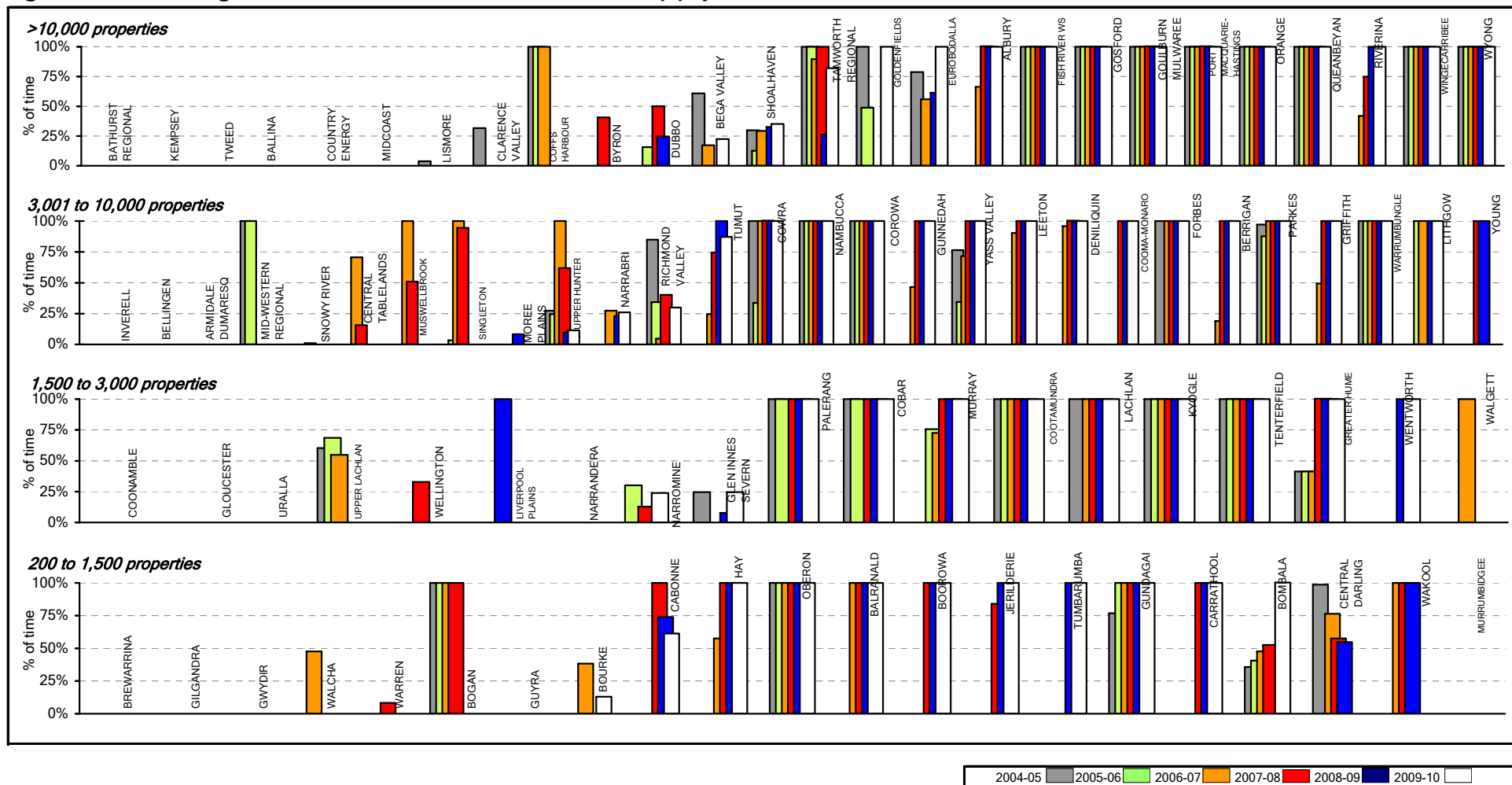


Parameter: $\frac{\text{No. of Service Connection Failures (Q105)} \times 100}{[\text{No. of Residential Assessments (Q34)} + \text{No. of Non-Residential Assessments (Q35)}] \times \text{No. of Connected Properties per Assessment}}$

Notes:

1. This figure shows ranked values of the 2009-10 water supply service connection failures for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the number of service connection failures for the 25 LWUs shown ranges from nil to 6%. The 3 LWUs on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown.
2. For general notes see page 30.

Figure 22: Drought water restrictions – water supply

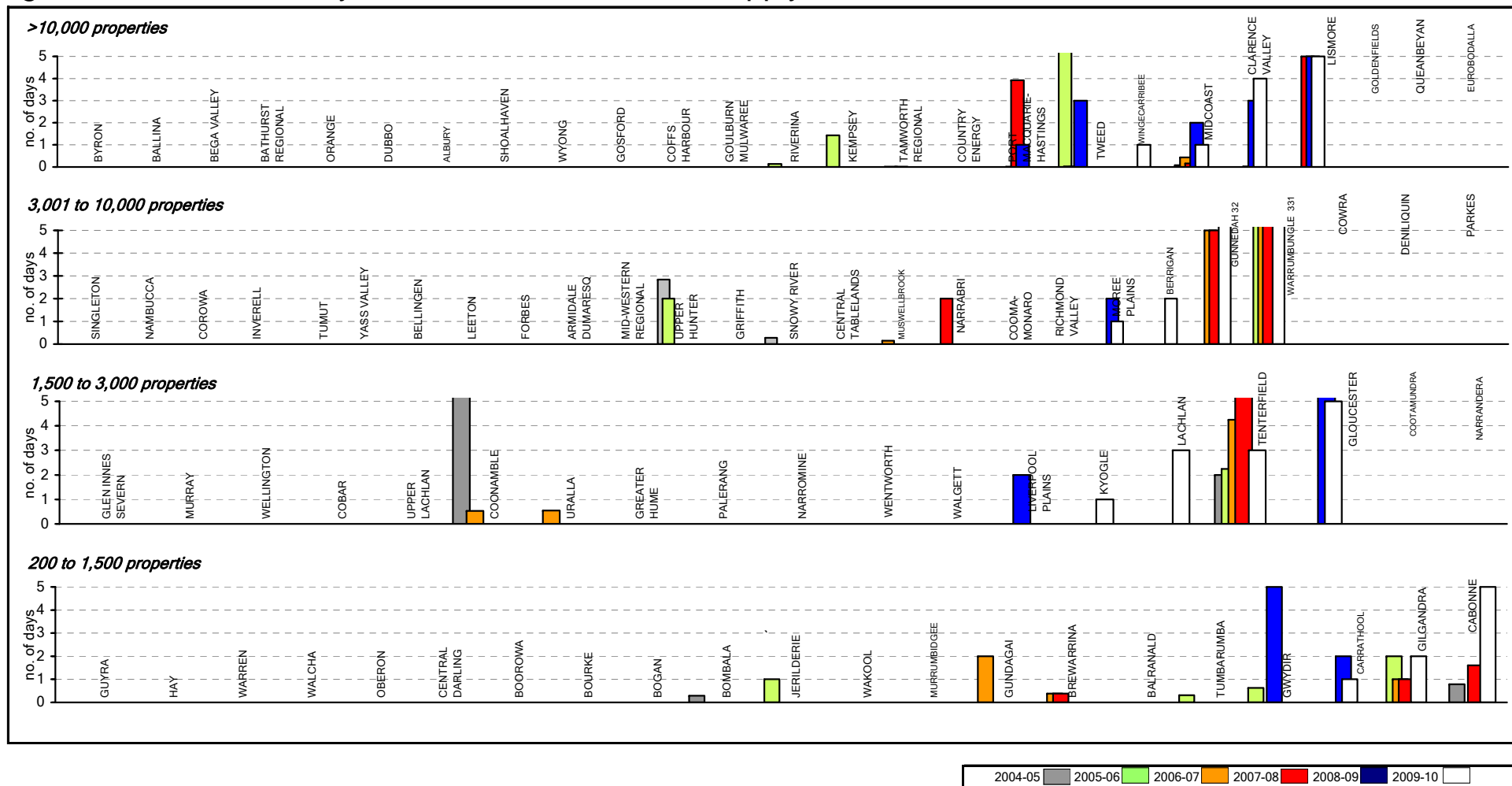


Parameter: No. of Days of Water Restrictions Due to Drought (Q95) x 100
366 Days

Notes:

1. This figure shows ranked values of the 2009-10 drought water restrictions due to drought for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), 18 of the 27 reporting LWUs reported restrictions ranging from 12% of the time to 100% of the time. 9 LWUs reported no drought water restrictions. Results for the previous 5 years are also shown.
2. Refer also to page 3 of the 2009-10 NSW Water Supply and Sewerage Performance Monitoring Report.
3. For general notes see page 30.

Figure 23: Chlorination system malfunction – water supply

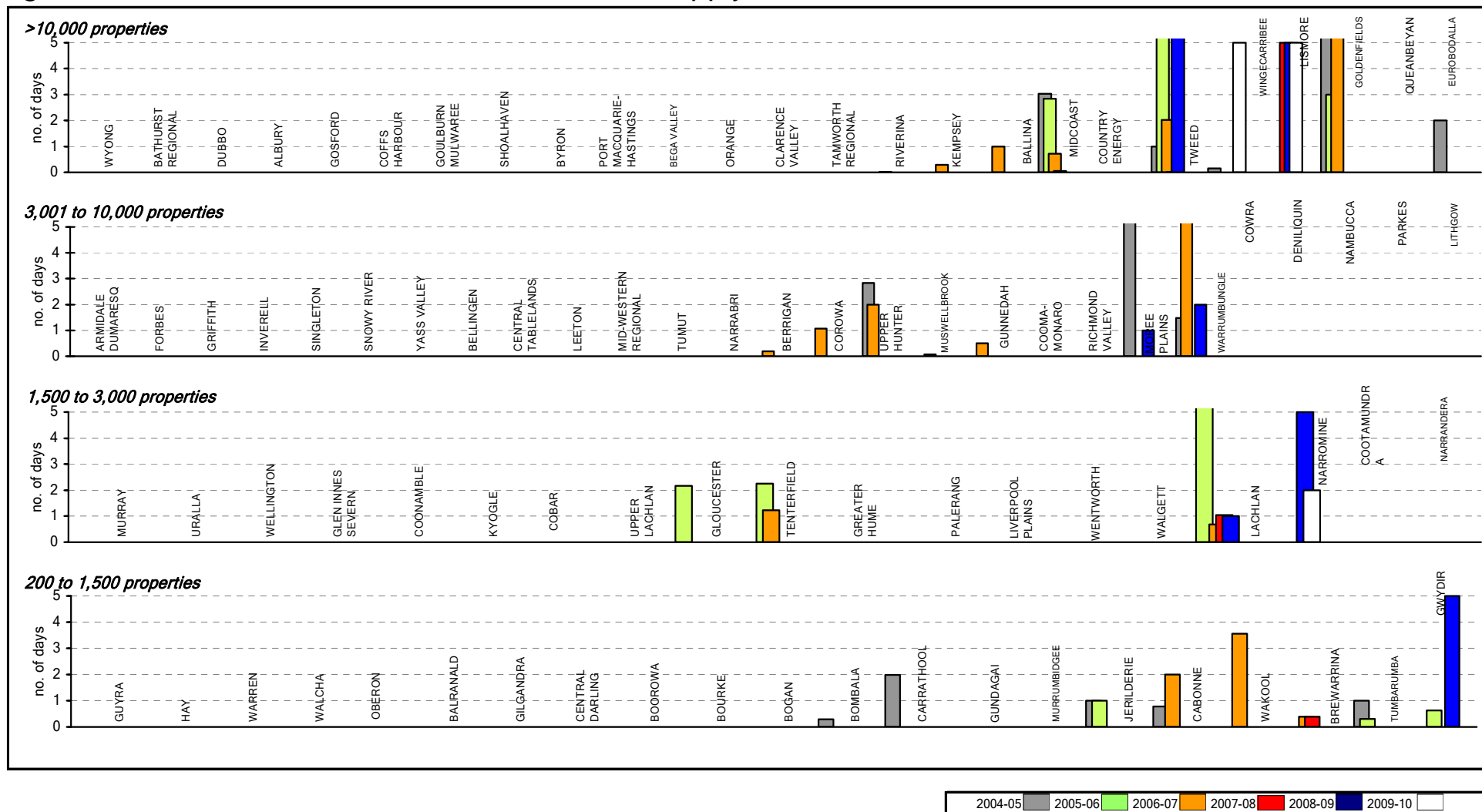


Parameter: Number of Days Chlorination System failed to Operate (Q44)

Notes:

1. The figure shows the 2009-10 ranked number of days a chlorination system for potable water did not operate for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the number of days the chlorination system did not operate for the 23 LWUs shown ranges from nil to 331 days. Results for the previous 5 years are also shown.
2. For LWUs with more than one chlorination system, the weighted average (based on capacity) of days was used.
3. For general notes see page 30.

Figure 24: Treatment works malfunction – water supply

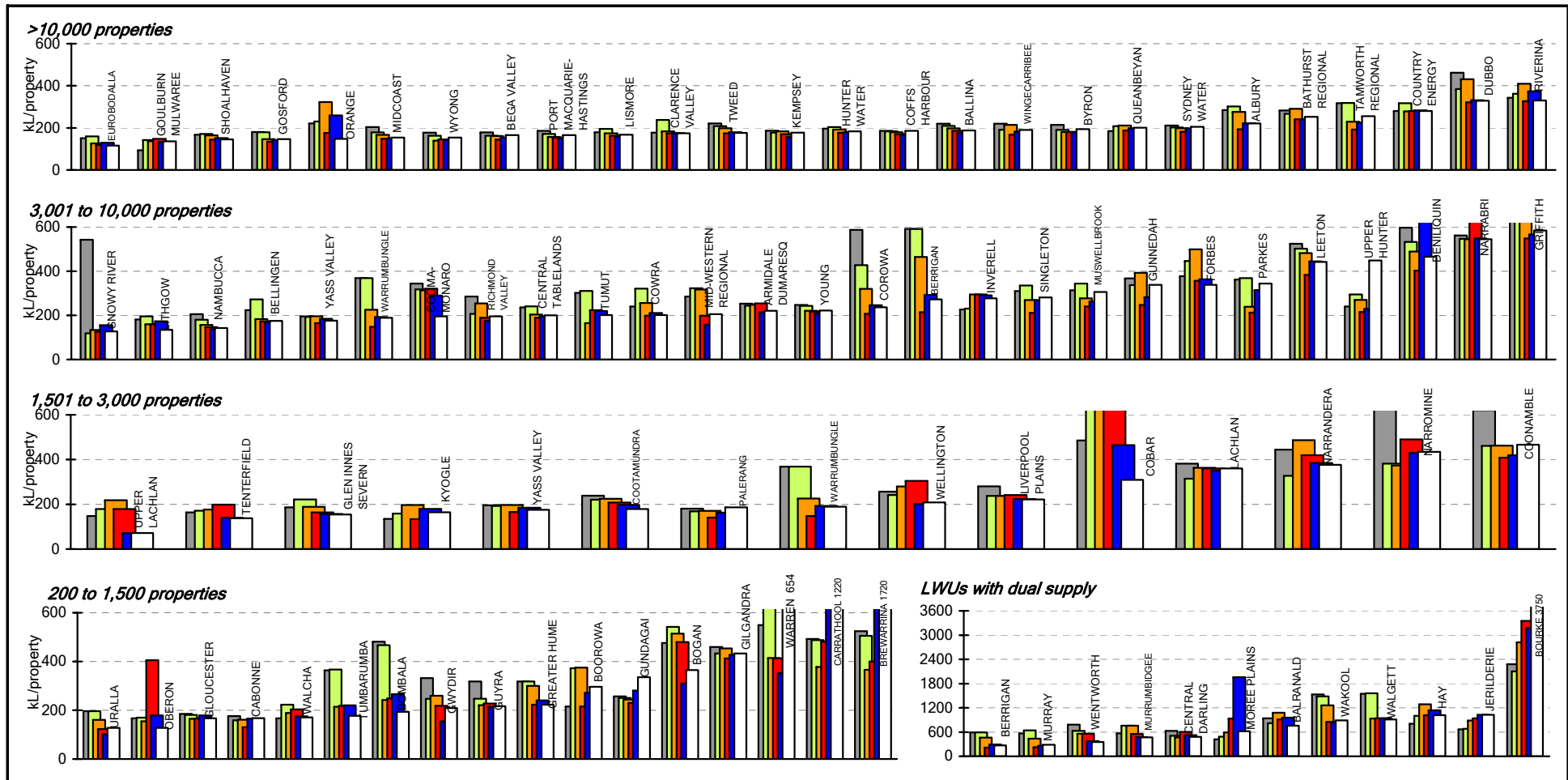


Parameter: Number of Days of major Malfunction of Treatment Processes (Q45)

Notes:

- The figure shows the 2009-10 ranked number of days of treatment works malfunction for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the number of days of treatment works malfunction for the 22 LWUs shown was nil. Results for the previous 5 years are also shown.
- For LWUs with more than one treatment works, the weighted average days of malfunction (based on treatment works capacity) was used.
- For general notes see page 30.

Figure 25: Average annual residential water supplied – water supply



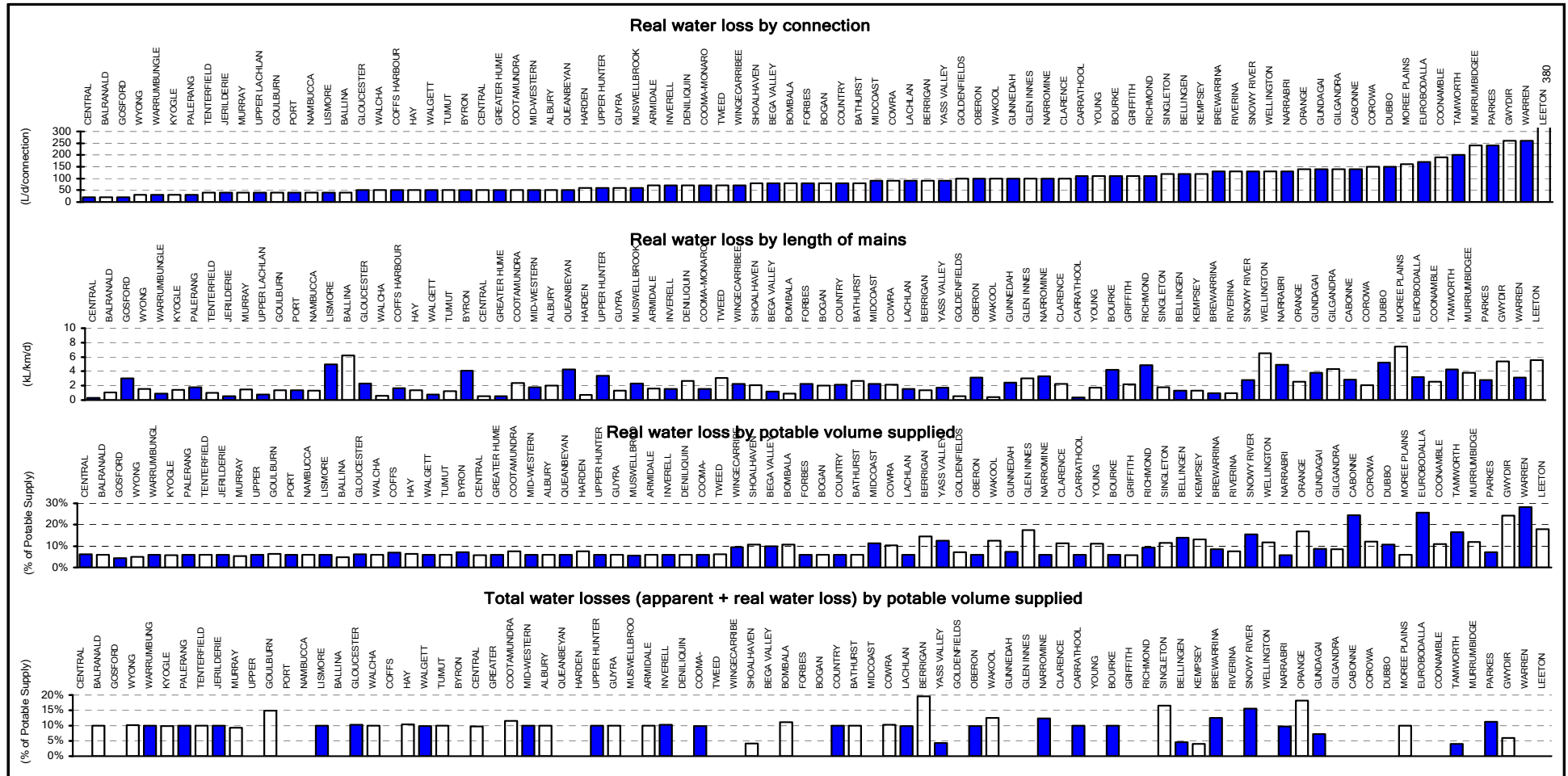
Parameter: Annual Residential Potable Supplied (Q54) x 1000
 No. of Residential Assessments (Q34) x No. of Connected Residential Properties per Residential Assessment

2004-05 2005-06 2006-07 2007-08 2008-09 2009-10

Notes:

1. This figure shows ranked values of the 2009-10 average annual residential water supplied per connected property for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 annual residential water supplied for the 27 LWUs shown ranges from 130 to 584 kL/a per connected property. Results for the previous 5 years are also shown.
2. Results for the 11 LWUs with a dual water supply (ie. A potable supply for indoor use and a non-potable supply for outdoor use) are shown as a separate group in the bottom right hand corner. All these LWUs have fewer than 3,000 properties. Refer to Note 12 on page 32 for further information.
3. The Statewide median annual residential water supplied is 175 kL/a per connected property. The median residential water supplied for coastal and inland LWUs is 150 and 252kL per connected property respectively.
4. Refer also to pages 8, 5 and 33 of the 2009-10 NSW Water Supply and Sewerage Performance Monitoring Report.
5. 60% of the LWUs needed to apply drought water restrictions in 2009-10.
6. For general notes see page 30.

Figure 26: Water losses (real loss (leakage) and apparent loss) – water supply



Parameter: $\frac{\text{Real water losses (Q68)} \times 1000}{[\text{No. of residential assessments (Q34)} + \text{No. of non-residential assessments (Q35)} \times \text{No. of connected properties per assessment}]}$

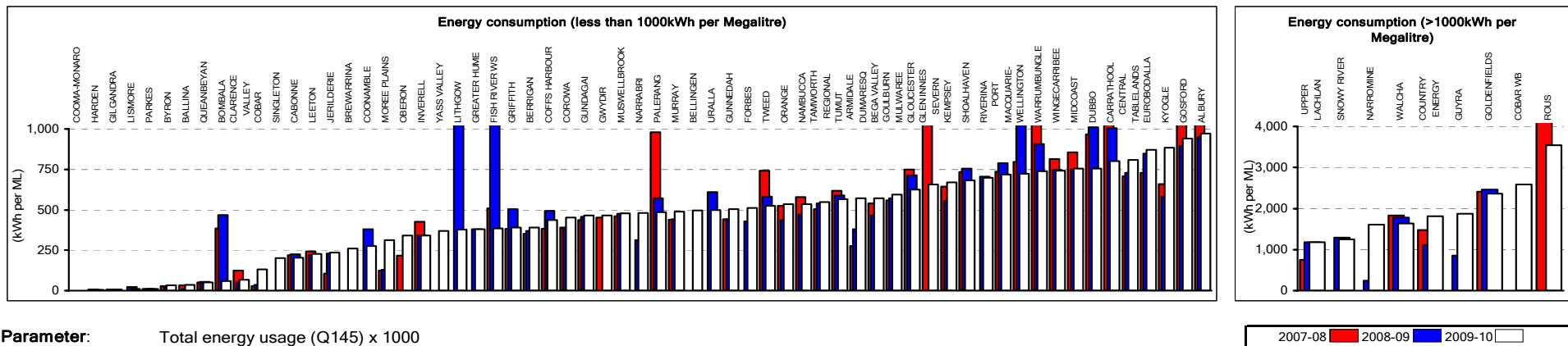
Parameter: $\frac{\text{Real water losses (Q68)} \times 100}{\text{Length of mains (Q22)}}$

Parameter: $\frac{\text{Real water losses (Q68)} \times 100}{\text{Total potable water supplied (Q12i)}}$

Parameter: $\frac{\text{Apparent \& real water losses (Q69)} \times 100}{\text{Total potable water supplied (Q62)}}$

- Notes:**
1. Refer to Note 13 of General Notes on page 32 for water losses.
 2. For general notes see page 30.

Figure 27: Energy consumption per ML – water supply

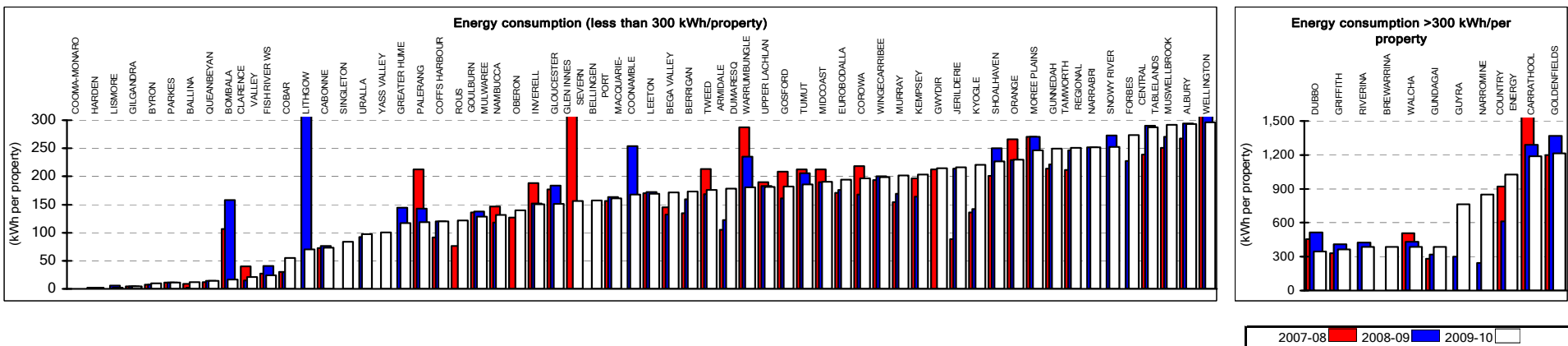


Parameter: $\frac{\text{Total energy usage (Q145)} \times 1000}{\text{Total potable water consumption ((Q62))}$

Notes:

1. This figure shows ranked values of the 2009-10 total energy consumption per ML. The energy consumption per ML for the 55 Local Water Utilities (LWUs) shown range from about 4 to 1870kWh per Megalitre. Results for the previous 2 years are also shown.
2. For general notes see page 30.

Figure 28: Energy consumption per property – water supply

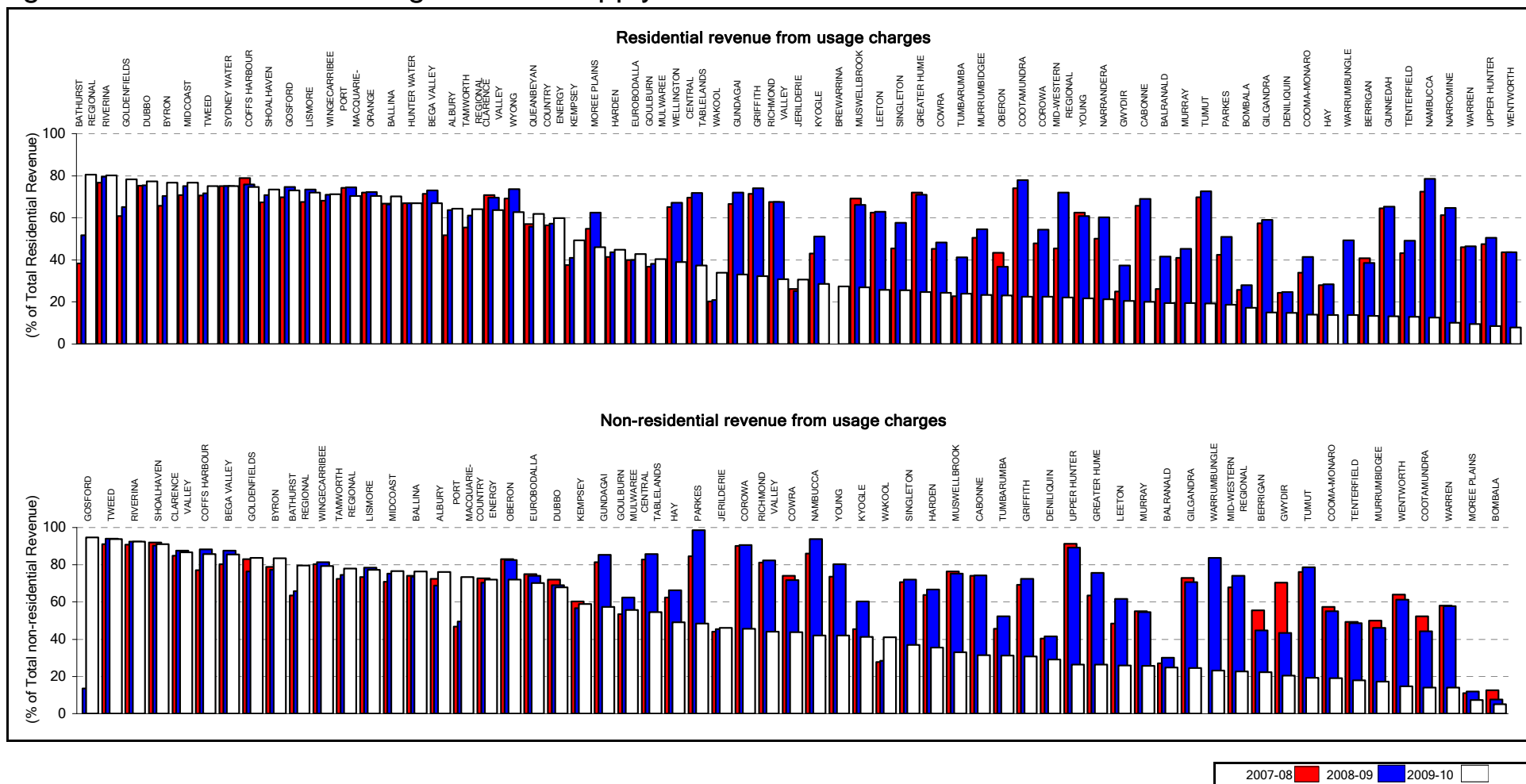


Parameter: $\frac{\text{Total energy usage (Q145)} \times 1000}{[\text{No. of residential assessments (Q34)} + \text{No. of non-residential assessments (Q35)}] \times \text{No. of connected properties per assessment}}$

Notes:

1. This figure shows ranked values of the 2009-10 total energy consumption per connected property. The energy usage per connected property for the 70 Local Water Utilities (LWUs) shown range from about 2 to 1210kWh per connected property. Results for the previous 2 years are also shown.
2. For general notes see page 30.

Figure 29: Revenue from usage – water supply



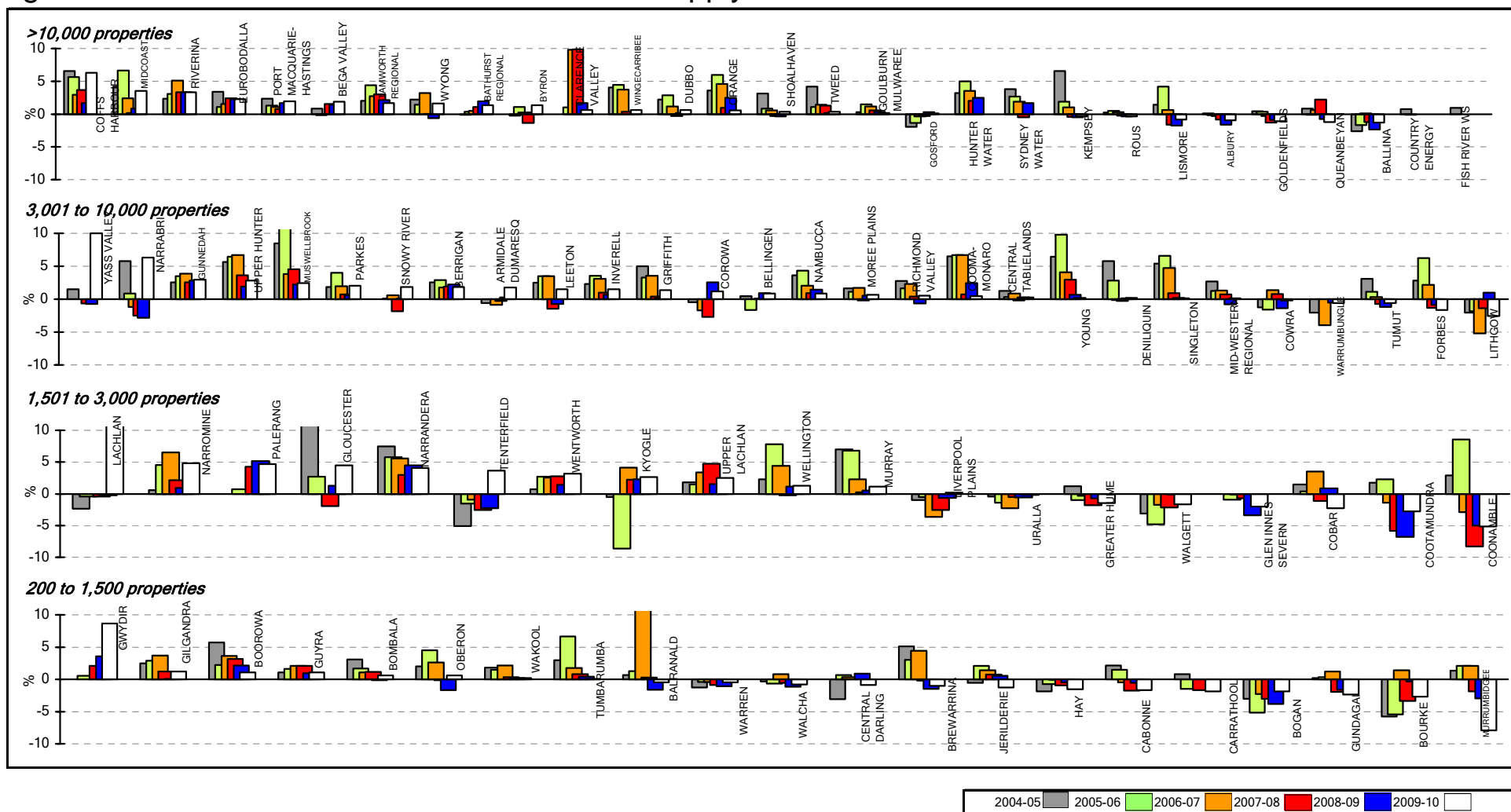
Parameter: $\frac{\text{Revenue from residential user charges (W6b)} \times 100}{\text{Revenue from residential access charges (W6a)} + \text{Revenue from residential user charges (W6b)}}$

Parameter: $\frac{\text{Revenue from non-residential user charges (W7b)} \times 100}{\text{Revenue from non-residential access charges (W7a)} + \text{revenue from non-residential user charges (W7b)}}$

Notes:

1. Many LWUs did not separately report their revenue from usage and access charges for each of residential and non-residential customers in Special Schedule No. 3 of their annual financial statements. All LWUs should do so in future.
2. The Statewide median residential revenue from water usage charges was 73%.
3. Refer also to page 5 of the 2009-10 Water Supply and Sewerage Performance Monitoring Report.
4. For general notes see page 30.

Figure 30: Economic real rate of return – water supply

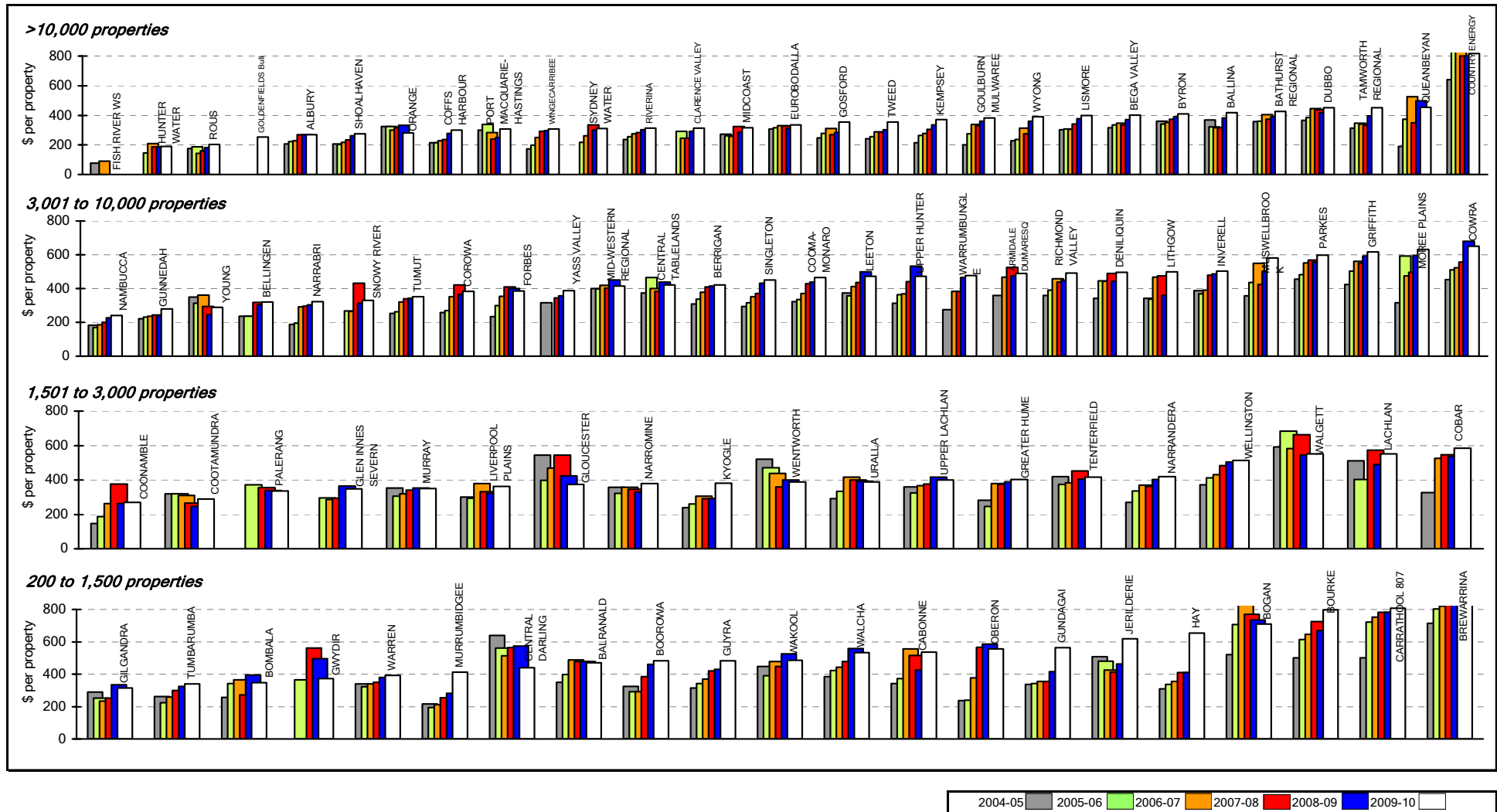


Parameter:
$$\frac{[\text{Operating result (W15)} + \text{interest expense (W4a)} - \text{interest income (W9)} - \text{grants for acquisition of assets (W11a)}] \times 100}{\text{Written down replacement cost of system assets, plant \& equipment (W33)}}$$

Notes:

1. This figure shows ranked values of the 2009-10 water supply economic real rate of return (ERRR) for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 water supply real rate of return for the 28 LWUs shown ranges from 10% to -3%. Results for the previous 5 years are also shown.
2. The statewide median water supply ERRR is 0.7%.
4. The ERRR includes developer provided assets and capital contributions from other LWUs.
5. For general notes see page 30.

Figure 31: Operating cost (OMA) per property – water supply

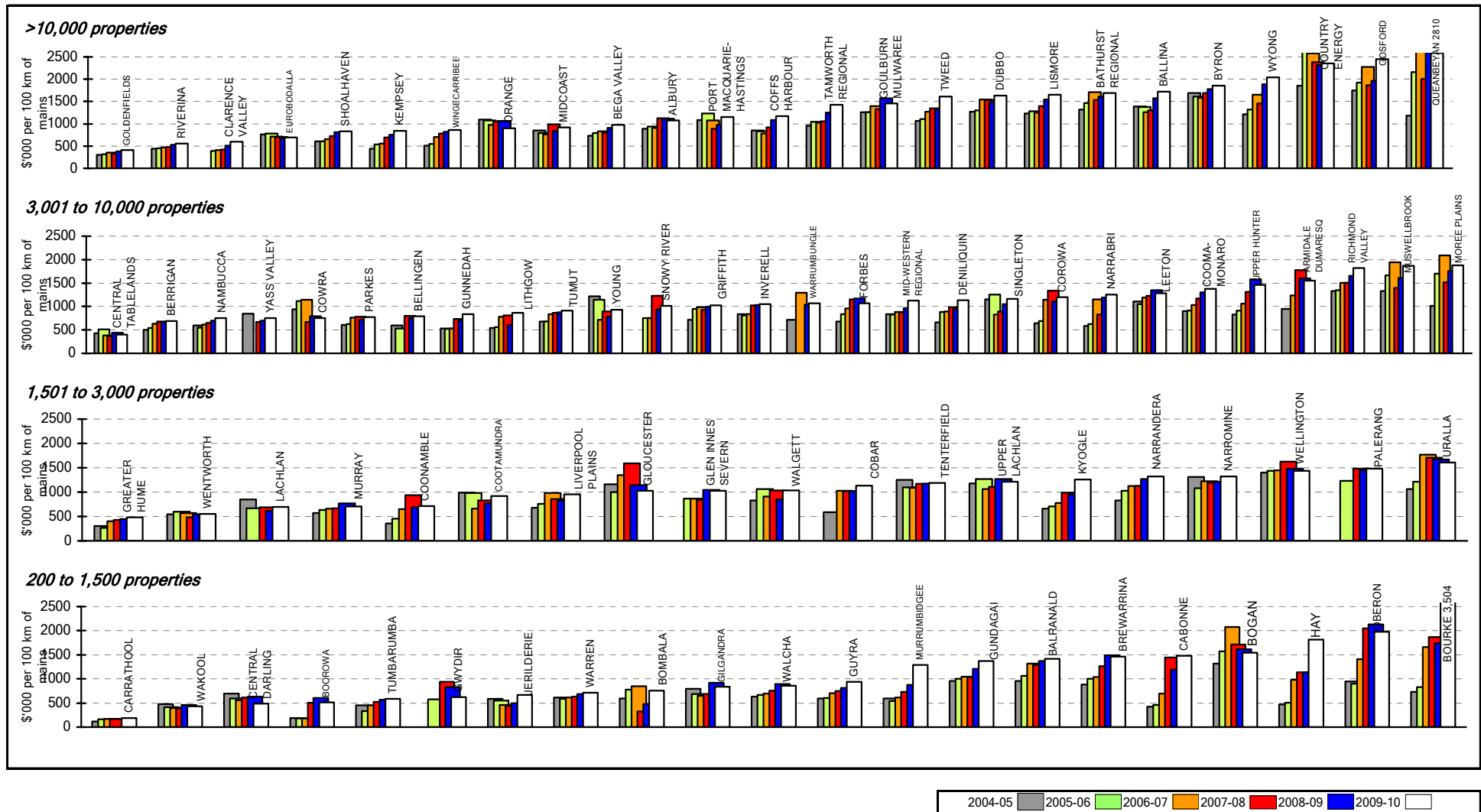


Parameter: Management Expenses (W1) + Total Operations Expenses (W2) - Purchase of Water + prorata Bulk Supplier's OMA
 [No. of Residential Assessments (Q34) + No. of Non-Residential Assessments (Q35)] x No. of Connected Properties per Assessment

Notes:

1. This figure shows ranked values of the 2009-10 water supply operating cost (OMA - operation, maintenance and administration) per property for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 water supply operating costs for the 28 LWUs shown ranges from \$242 to \$651 per connected property. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median operating cost per connected property is \$350.
3. For general notes see page 30.

Figure 32: Operating cost (OMA) per 100 km of main – water supply

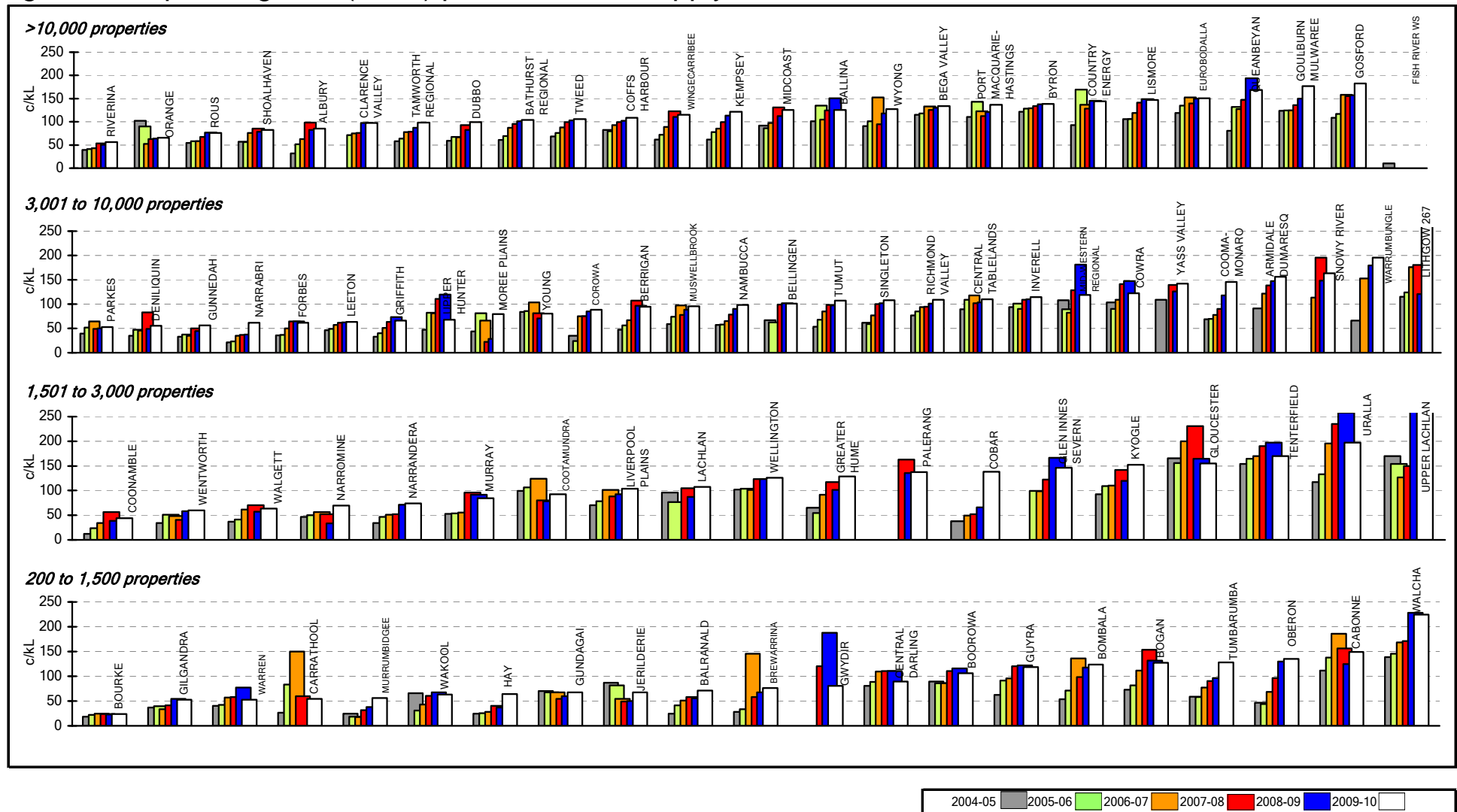


Parameter: Water Main Operation Expenses (W2c) + Water Main Maintenance Costs (W2d)
 Length of Distribution Mains (Q22) x 100

Notes:

1. This figure shows ranked values of the 2009-10 water supply operating cost (OMA - operation, maintenance and administration) per 100 km of main for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 operating costs for the 28 LWUs shown ranges from \$399,000 to \$1,880,000 per 100km of main. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median operating cost is \$1.14M per 100 km of Water Main.
3. For general notes see page 30.

Figure 33: Operating cost (OMA) per kL – water supply

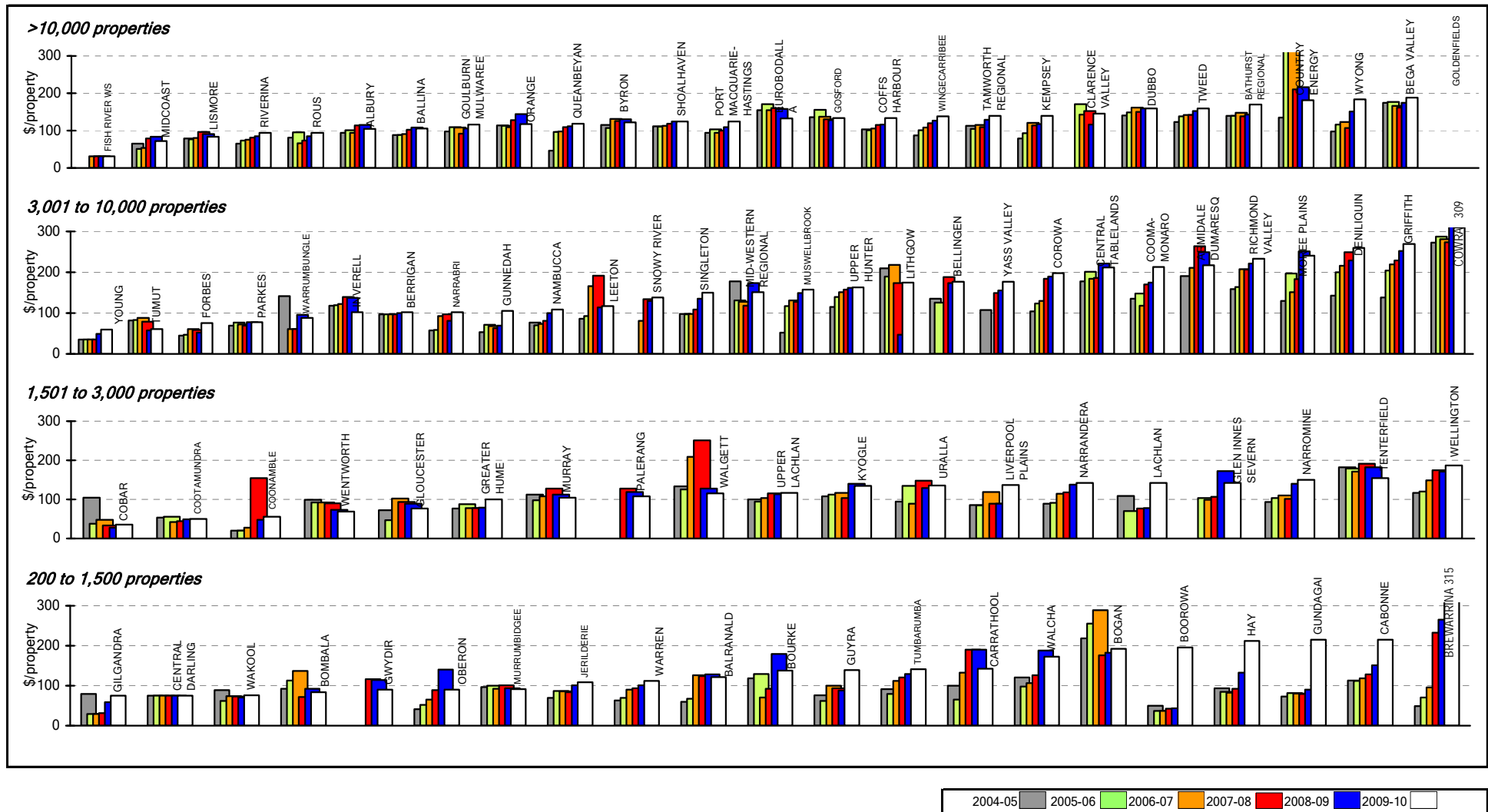


Parameter:
$$\frac{\text{Management Expenses (W1) + Total Operations Expenses (W2) - Purchase of Water (W2o)}}{\text{Total Potable Water Supplied (Q62)}}$$

Notes:

1. This figure shows ranked values of the 2009-10 water supply operating cost (OMA - operation, maintenance and administration) per kL for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 operating costs per kL for the 28 LWUs shown ranges from 52 to 267 c/kL. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median operating cost is 116c/kL.
3. For general notes see page 30.

Figure 34: Management cost per property – water supply

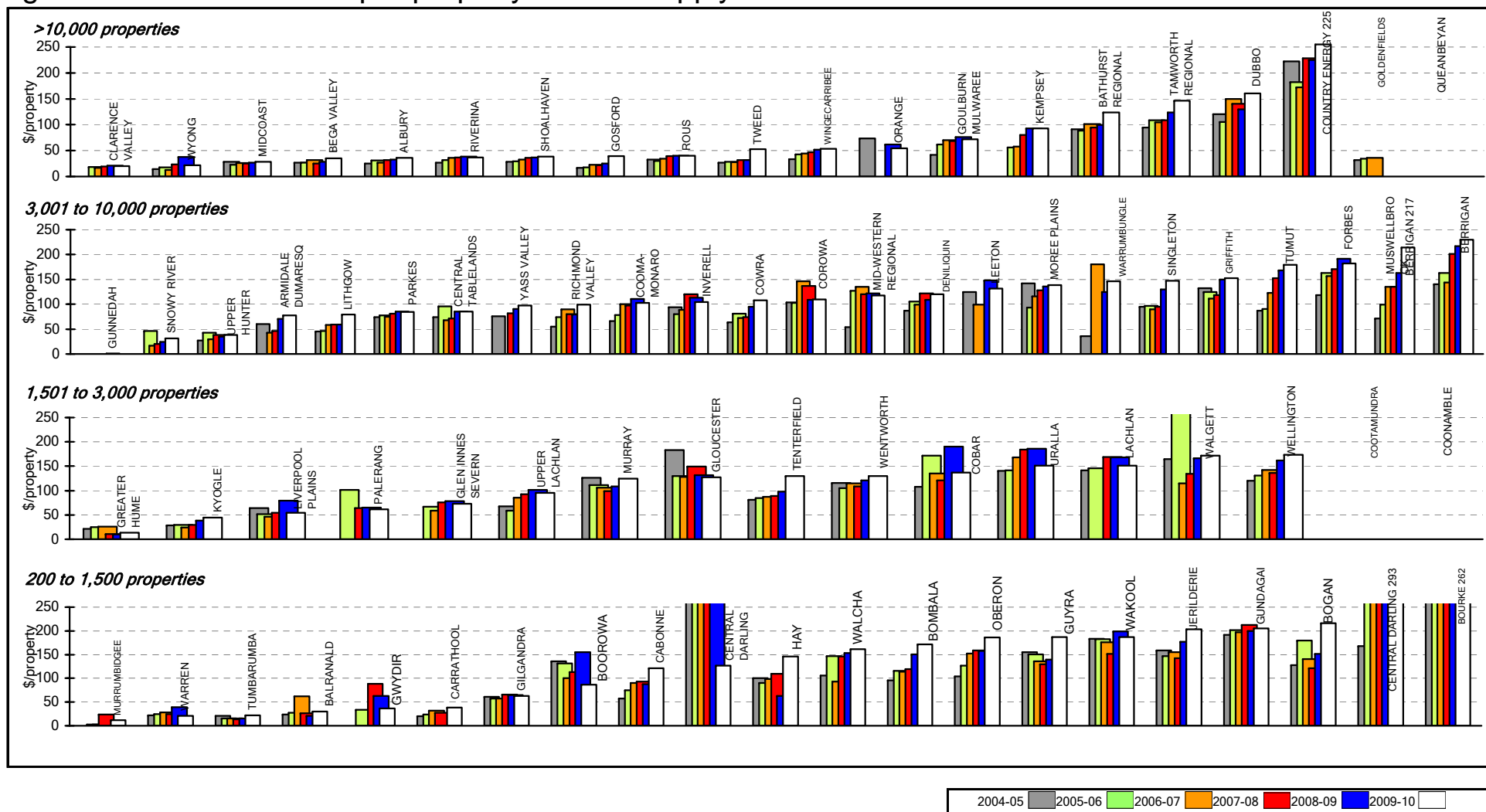


Parameter: Administration Cost (W1a) + Engineering Cost (W1b)
 [No. of Residential Assessments (Q34) + No. of Non-Residential Assessments (Q35)] x No. of Connected Properties per Assessment

Notes:

1. This figure shows ranked values of the 2009-10 water supply management cost per property for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 management costs per property for the 28 LWUs shown ranges from \$60 to \$309. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median management cost is \$134 per connected property.
3. For general notes see page 30.

Figure 35: Treatment cost per property – water supply

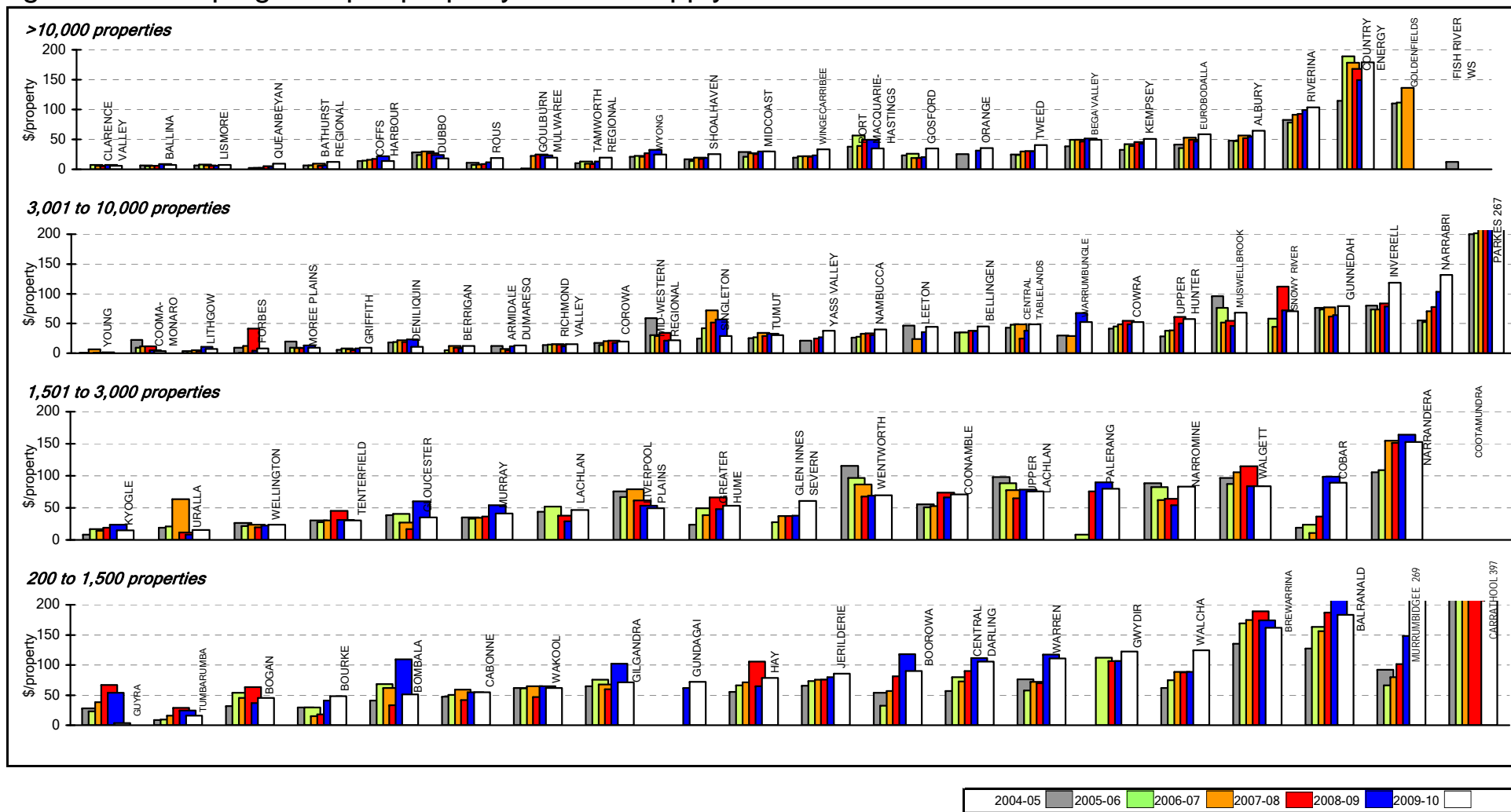


Parameter: Treatment Operation Expenses (W2i) + Treatment Chemical Cost (W2k) + Treatment Maintenance Expenses (W2l)
 [No. of Residential Assessments (Q34) + No. of Non-Residential Assessments (Q35) x No. of Connected Properties per Assessment

Notes:

1. This figure shows ranked values of the 2009-10 water treatment cost for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 treatment costs for the 24 LWUs shown ranges from \$0 to \$210 per connected property. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown in Jan 2010\$.
2. Only LWUs with a water treatment works involving at least filtration and disinfection for over 50% of their supply have been shown.
3. The Statewide median water treatment cost is \$39 per connected property.
4. For general notes see page 30.

Figure 36: Pumping cost per property – water supply

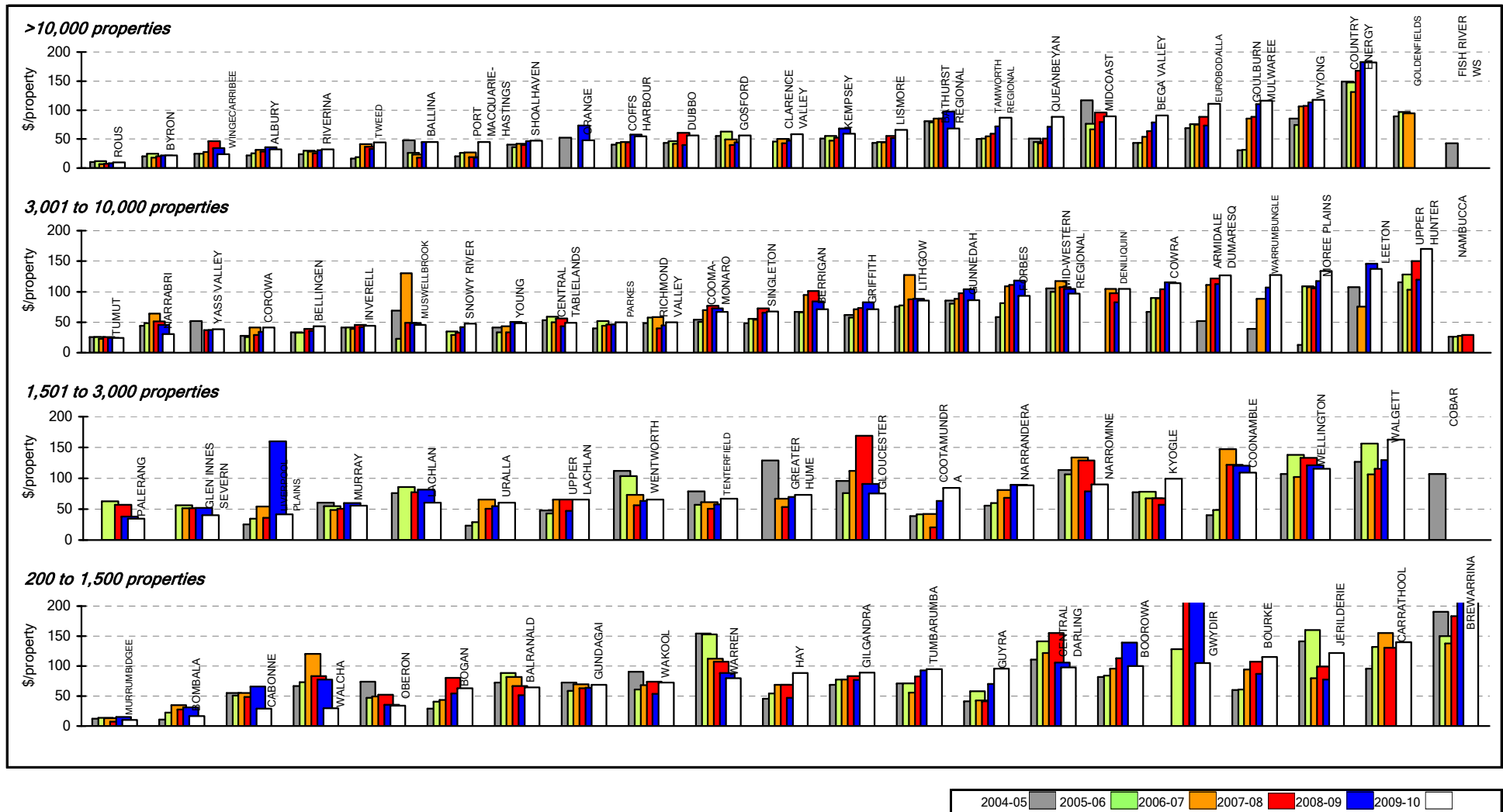


Parameter: Pumping Station Operation Expenses (W2g) + Pumping Station Energy Cost (W2h) + Pumping Station Maintenance Costs (W2i)
 [No. of Residential Assessments (Q34) + No. of Non-Residential Assessments (Q35) x No. of Connected Properties per Assessment]

Notes:

1. This figure shows ranked values of the 2009-10 water pumping cost for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 water pumping costs for the 28 LWUs shown ranges from \$2 to \$270 per connected property. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median water pumping cost (including energy costs) is \$31 per connected property.
3. For general notes see page 30.

Figure 37: Water main cost per property – water supply



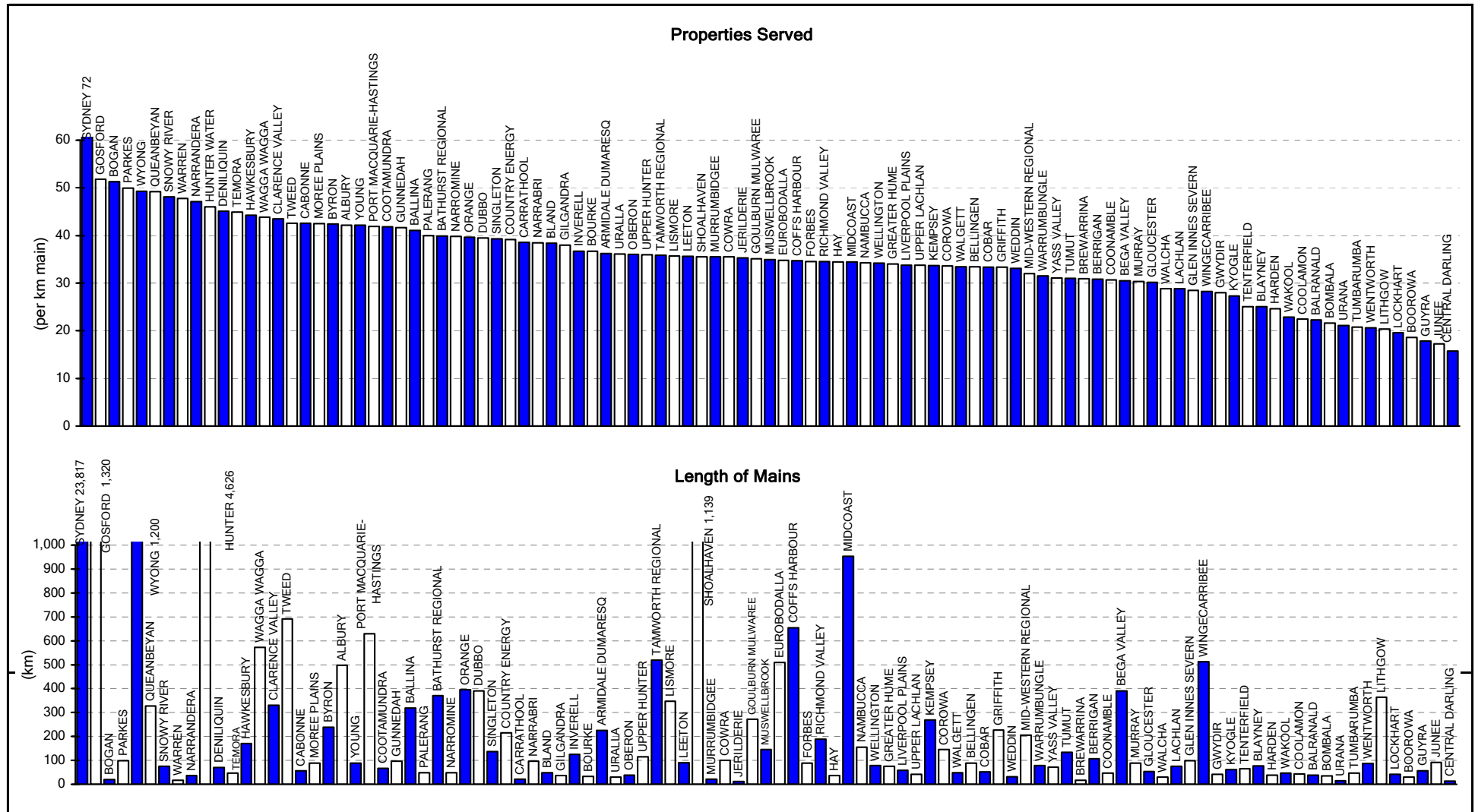
Parameter: $\frac{\text{Water main operation expenses (W2c)} + \text{water main maintenance costs (W2d)}}{\text{[No. of residential assessments (Q34) + No. of non-residential assessments (Q35)]} \times \text{No. of connected properties per assessment}}$

Notes:

1. This figure shows ranked values of the 2009-10 water main operating cost for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 water main costs for the 28 LWUs shown ranges from \$24 to \$170 per property. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median water main cost is \$56 per property.
3. For general notes see page 30.

9. Sewerage figures

Figure 38: Properties served per km of main, length of mains – sewerage

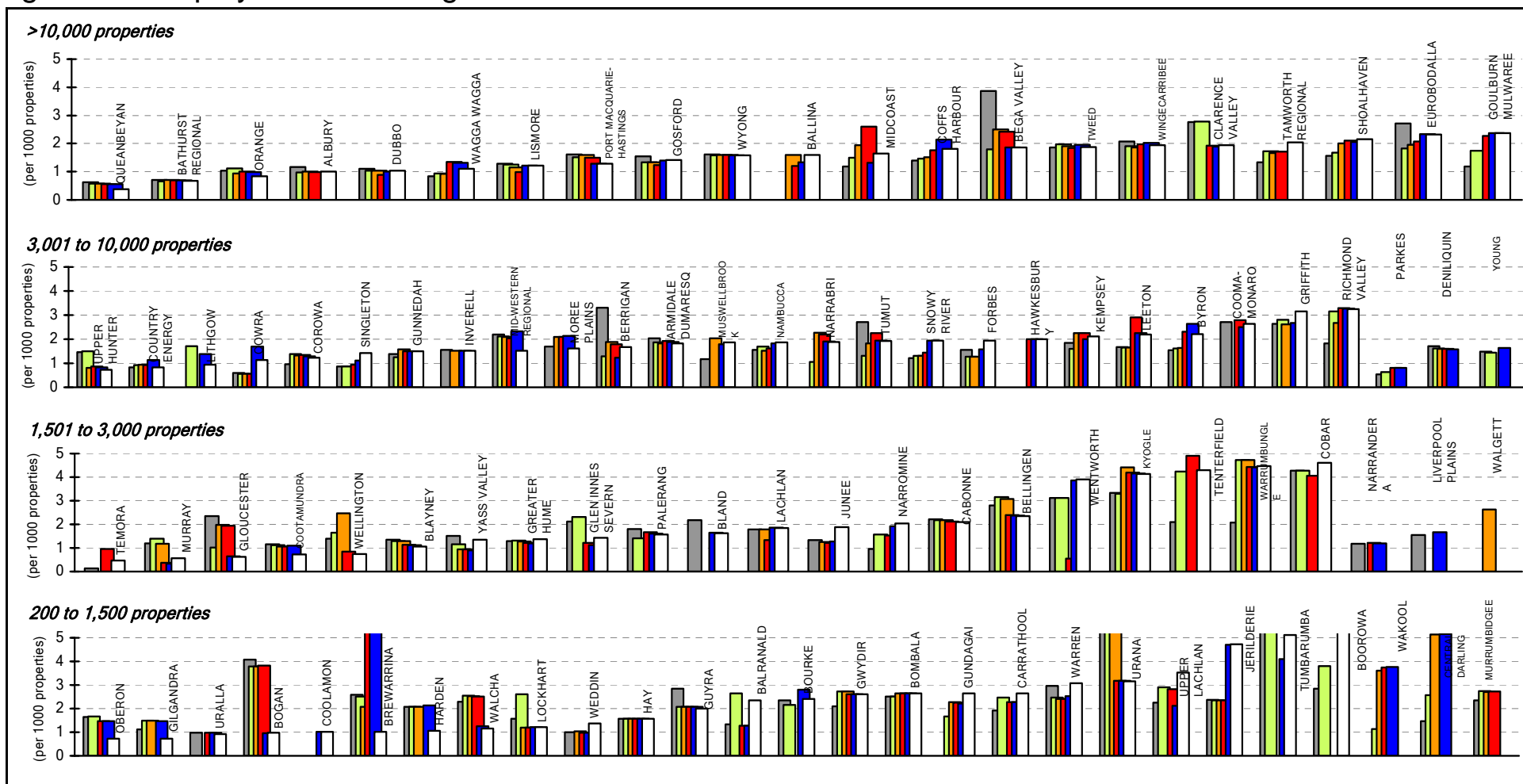


Parameter $\frac{[\text{No. of Residential Assessments (Q15)} + \text{No. of Non-Residential Assessments (Q16)}] \times \text{No. of Connected Properties per Assessment}}{\text{Length of Reticulation/Gravity Mains (Q7)} + \text{Length of Rising Mains (Q8)}}$

Note:

1. For general notes see page 30.

Figure 39: Employees – sewerage

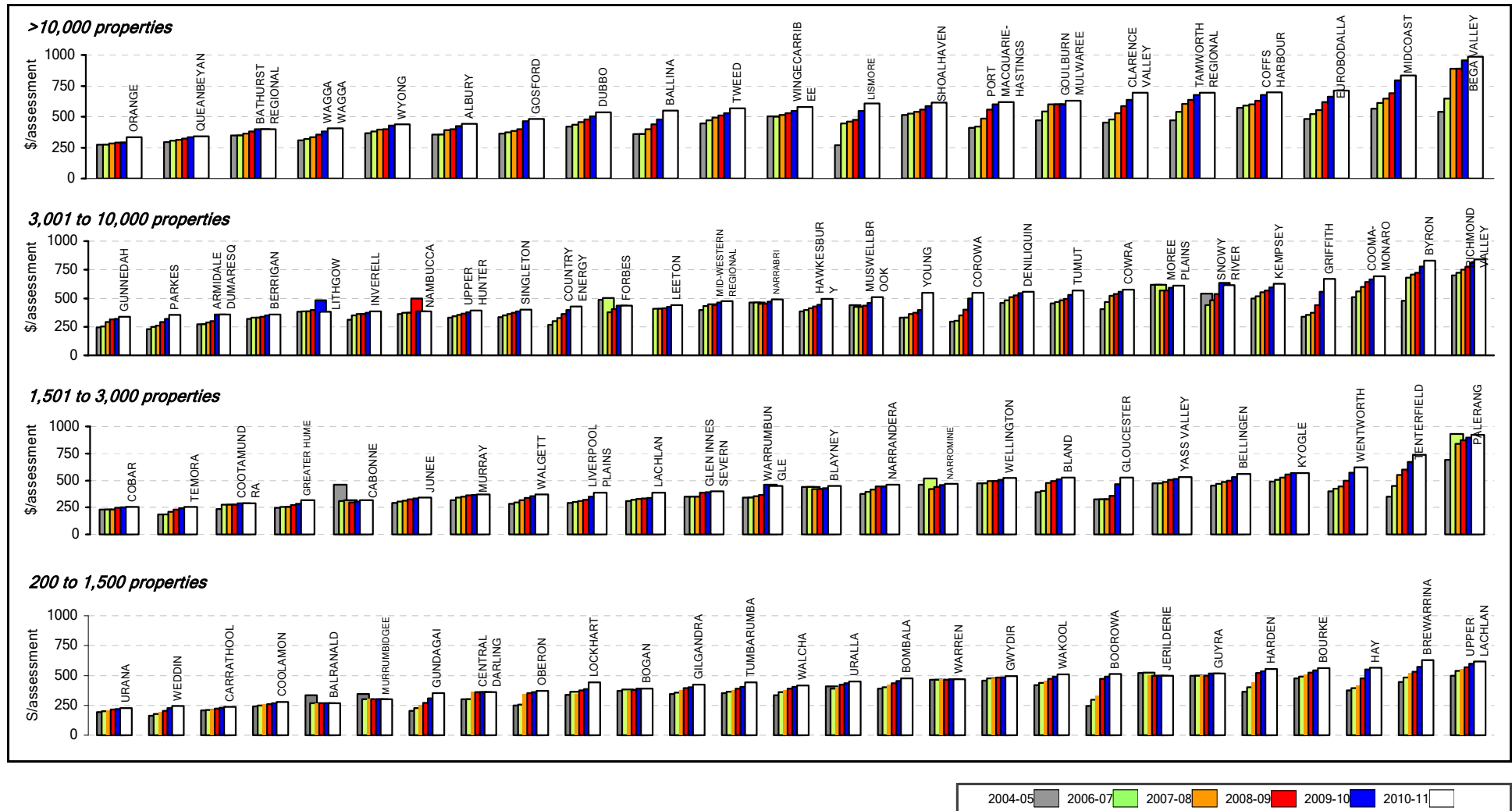


Parameter: Full-time Equivalent Employees (Q49) x 1000
 [No. of Residential Assessments (Q15) + No. of Non-Residential Assessments (Q16) x No. of Connected Properties per Assessment]

Notes:

1. This figure shows ranked values of the 2009-10 sewerage employees for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewerage employees for the 28 LWUs shown ranges from about 1 to 3 per 1000 connected properties. Results for the previous 5 years are also shown.
2. The 2009-10 Statewide median number of sewerage employees is 1.6 per 1000 connected properties.
3. For general notes see page 30.

Figure 40: Typical residential bill – sewerage

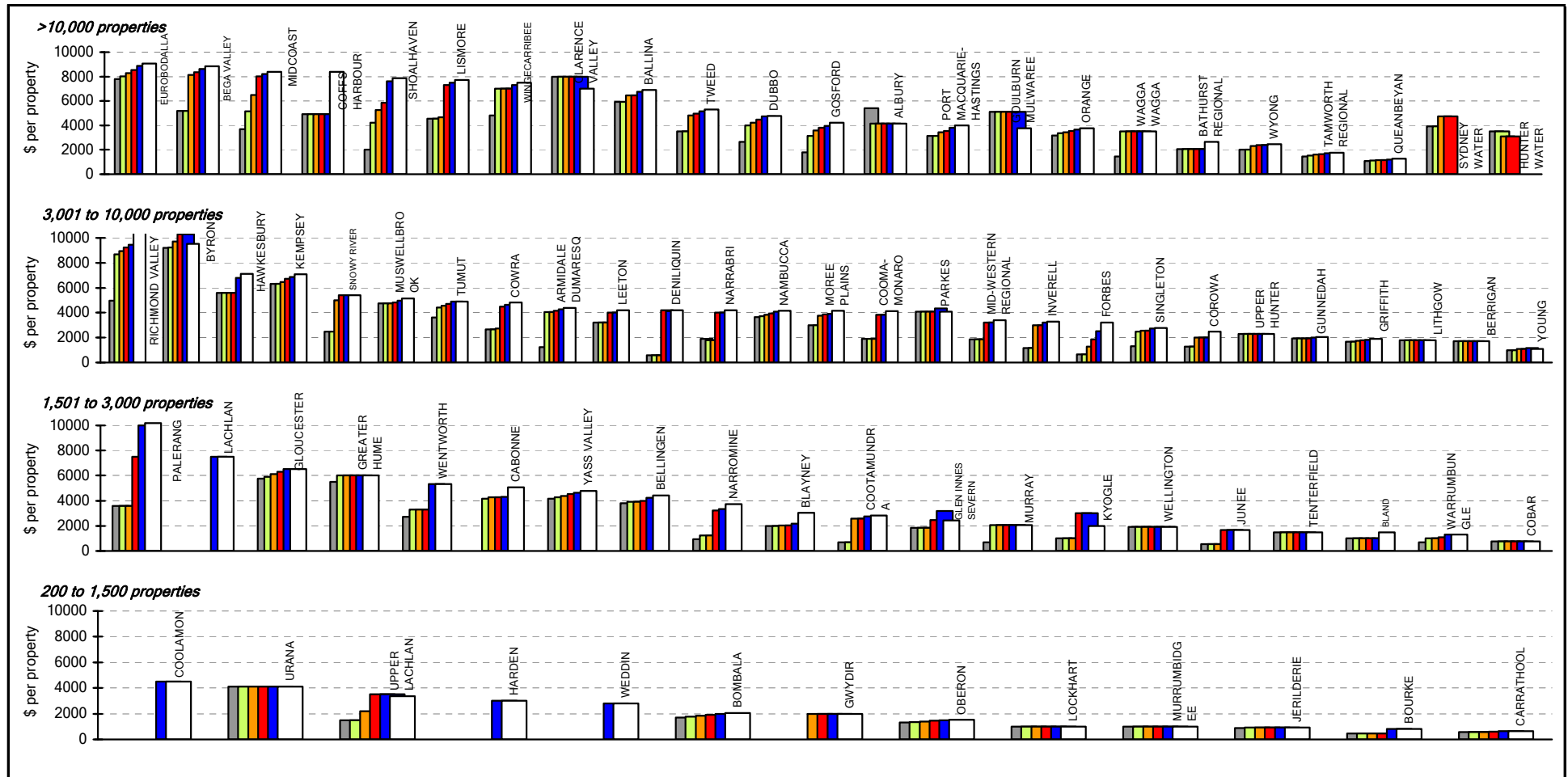


Parameter: Residential Access Charge

Notes:

1. This figure shows ranked values of the 2010-11 typical residential bill for sewerage for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2010-11 typical residential bill for sewerage for the 28 LWUs shown ranges from about \$340 to \$840. Results for the previous 5 years are also shown in Jan 2011\$.
2. The 2010-11 Statewide median typical residential bill for sewerage supply is \$530 per assessment.
3. For general notes see page 30.

Figure 41: Typical developer charge – sewerage



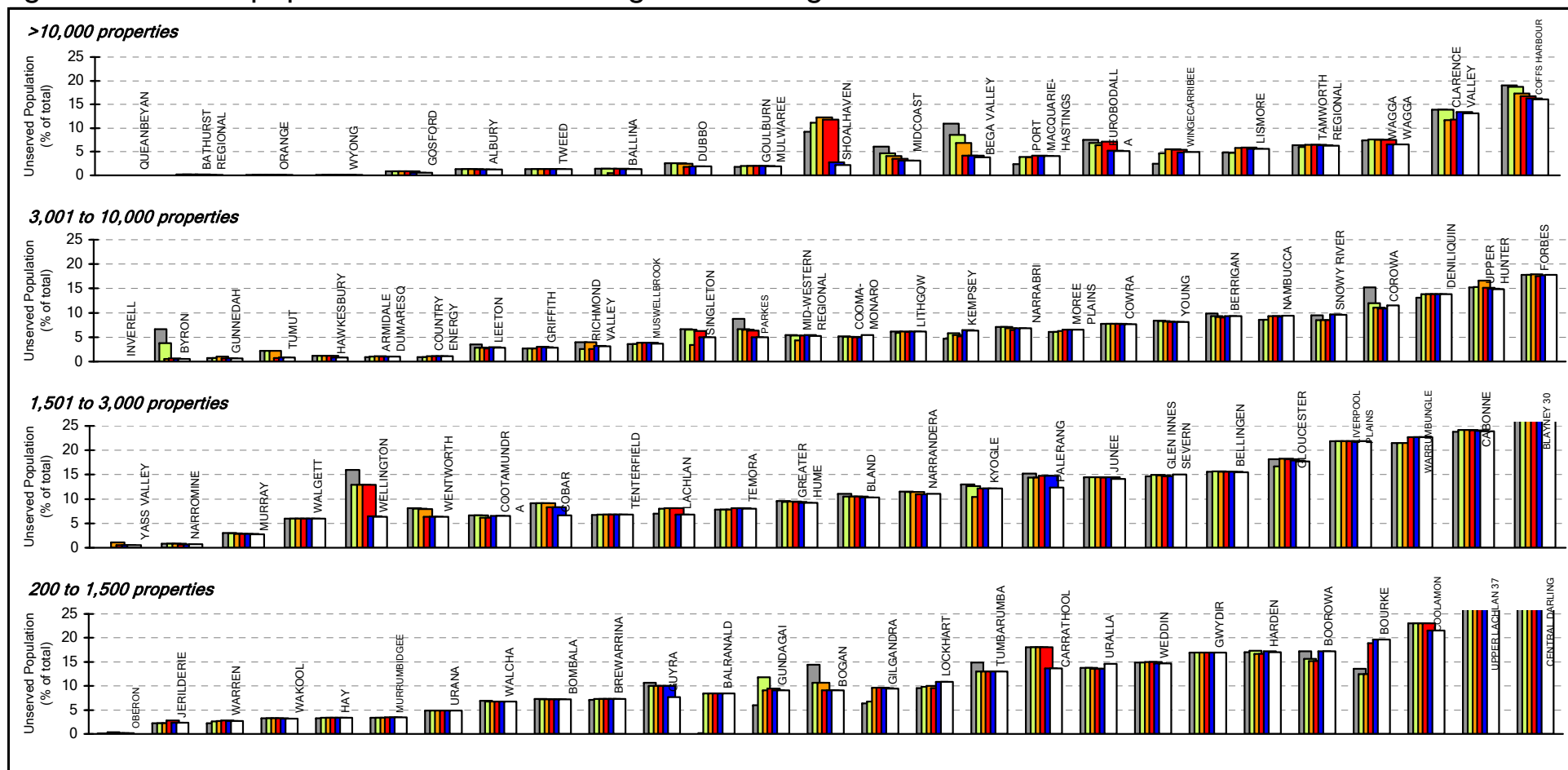
Parameter: Typical Sewerage Developer Charge (Q62)



Notes:

1. This figure shows ranked values of the 2010-11 typical developer charge for sewerage for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the typical developer charge for sewerage for the 28 LWUs shown ranges from from \$12600 to nil per equivalent tenement (ET). Results for the previous 5 years are also shown in Jan 2011\$.
2. The 2010-11 Statewide median typical sewerage developer charge was about \$4200 per ET.
3. 80 LWUs levied sewerage developer charges.
4. For general notes see page 30.

Figure 42: Urban population without sewerage – sewerage

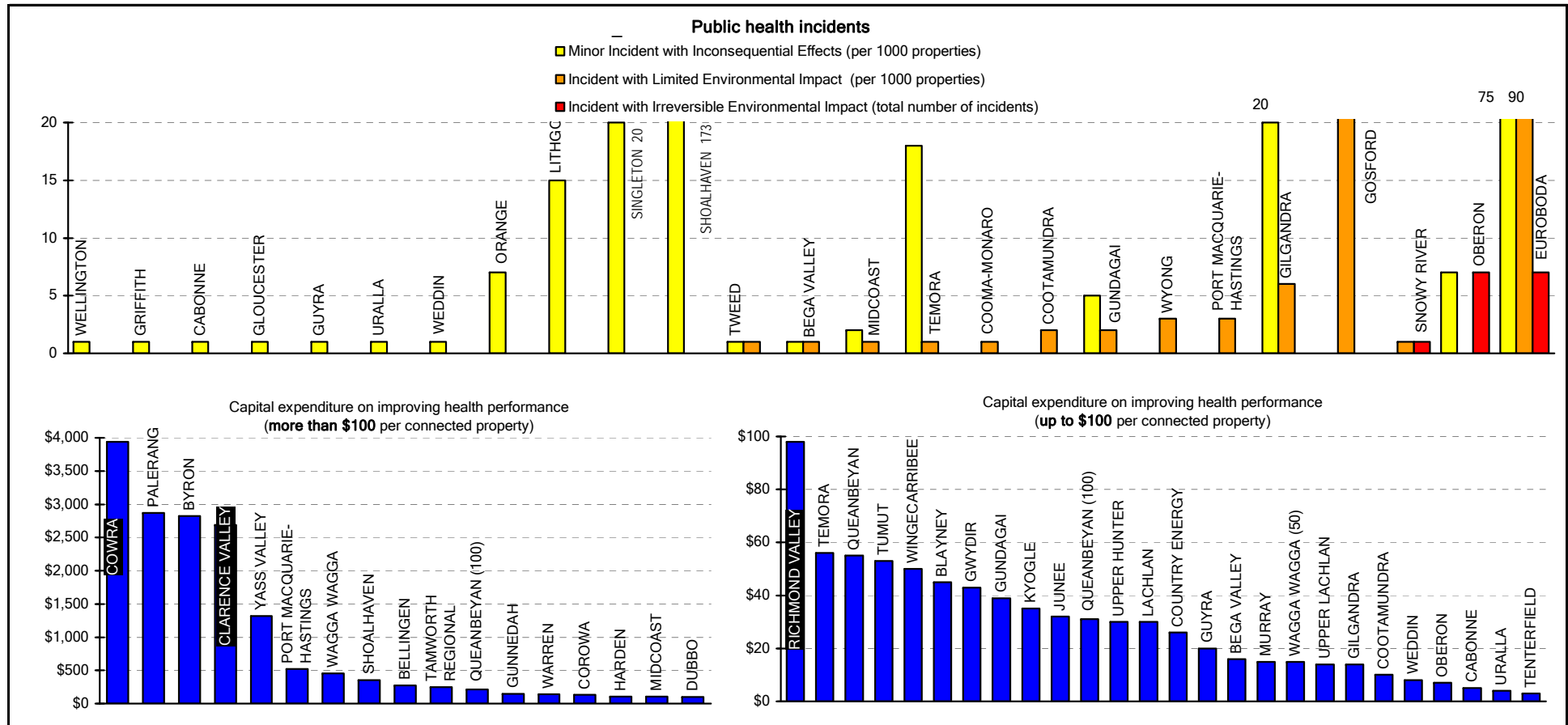


Parameter: Unsewered urban population (Q21)
 Population served (Q1) + unsewered urban population (Q21)

Notes:

1. This figure shows ranked values of the percentage of urban population without a reticulated sewerage service for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the urban population without a reticulated sewerage service for the 28 LWUs shown ranges from from nil to 18 %. Results for the previous 5 years are also shown.
2. The 2009-10 Statewide median urban population without a reticulated sewerage service was 3.9%.
3. The percentage of urban population without a reticulated sewerage service for the median LWU was 6%.
4. Overall, 95.3% of the urban population in non-metropolitan NSW (ie. 1.7 million people) received a reticulated sewerage service.
5. For general notes see page 30.

Figure 43: Public health incidents, capital expenditure – sewerage



Parameter: Total No. of minor incidents with inconsequential effects (Q44)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] x No. of connected properties per assessment

Parameter: Total No. of minor incidents with limited health impacts (Q45)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] x No. of connected properties per assessment

Parameter: Total No. of major incidents with major health impacts (Q46)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] x No. of connected properties per assessment

Parameter: Capital expenditure on improving health performance (S) x (Q48)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] x No. of connected properties per assessment

Notes:

- The following 7 utilities did not report public health incidents: Central Darling, Deniliquin, Liverpool Plains, Murrumbidgee, arrathool, Murrumbidgee, Richmond Valley, Wakool and Young. 25 Utilities reported incidents and are shown in the figure above, while 66 utilities reported zero health incidents.
- For general notes see page 30.

Figure 44: Complaints (per 1,000 properties) – sewerage

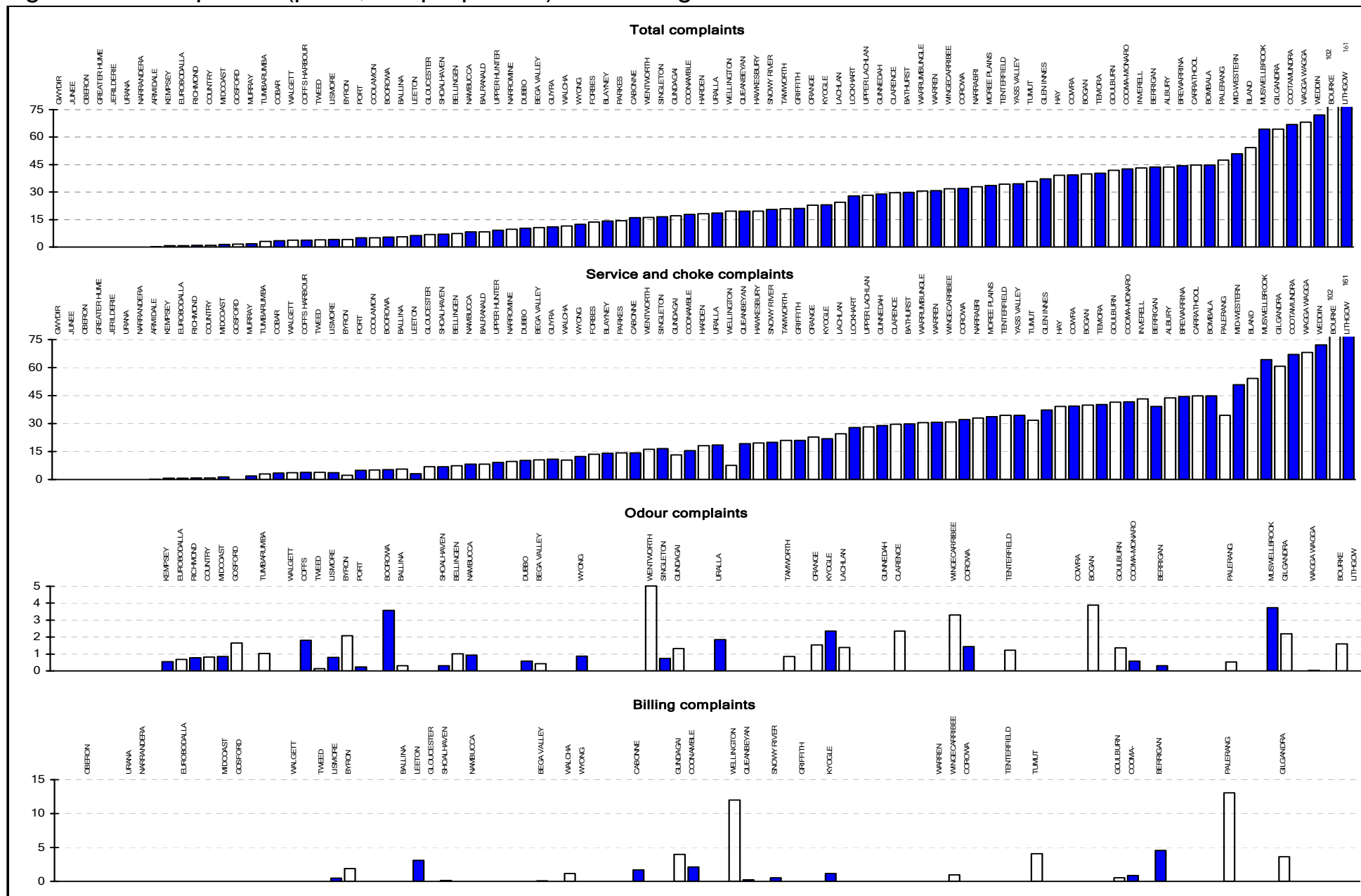


Figure 44: Complaints (per 1,000 properties) – sewerage (continued)

Complaints (per 1000 properties) - sewerage

Parameter:
$$\frac{[\text{Total no. of complaints (Q34) + (Q37) + (Q38) + (Q39)] \times 1000}{[\text{No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] \times \text{No. of connected properties per assessment}}$$

Parameter:
$$\frac{\text{No of service or choke complaints reported (Q34)}}{[\text{No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] \times \text{No. of connected properties per assessment}}$$

Parameter:
$$\frac{\text{No. of odour complaints reported (Q39)}}{[\text{No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] \times \text{No. of connected properties per assessment}}$$

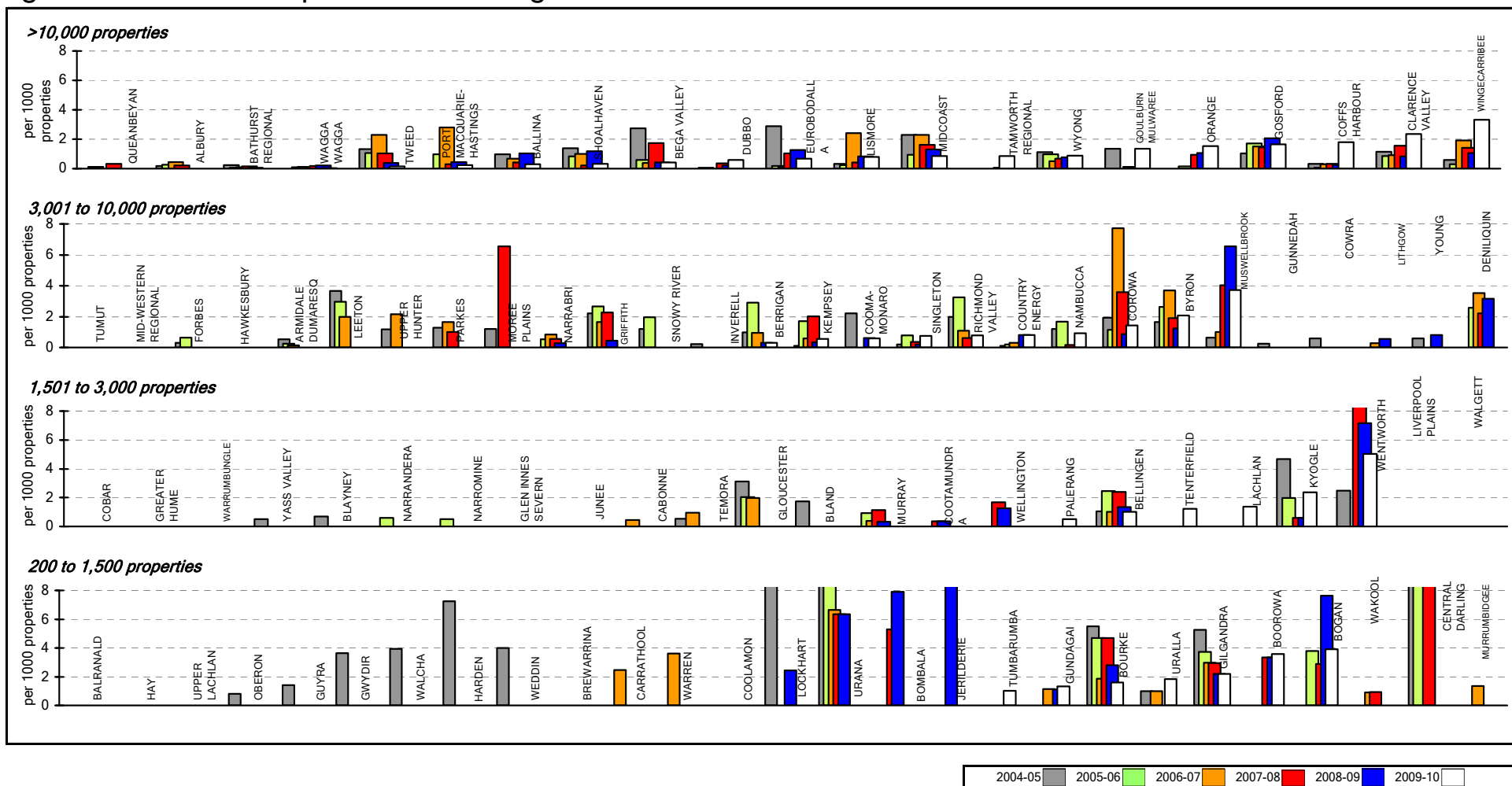
Parameter:
$$\frac{\text{No of billings complaints reported (Q37)}}{[\text{No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] \times \text{No. of connected properties per assessment}}$$

Parameter:
$$\frac{\text{No. of other complaints reported (Q38)}}{[\text{No. of residential assessments (Q15) + No. of non-residential assessments (Q16)] \times \text{No. of connected properties per assessment}}$$

Note:

1. For general notes see page 30.

Figure 45: Odour complaints – sewerage

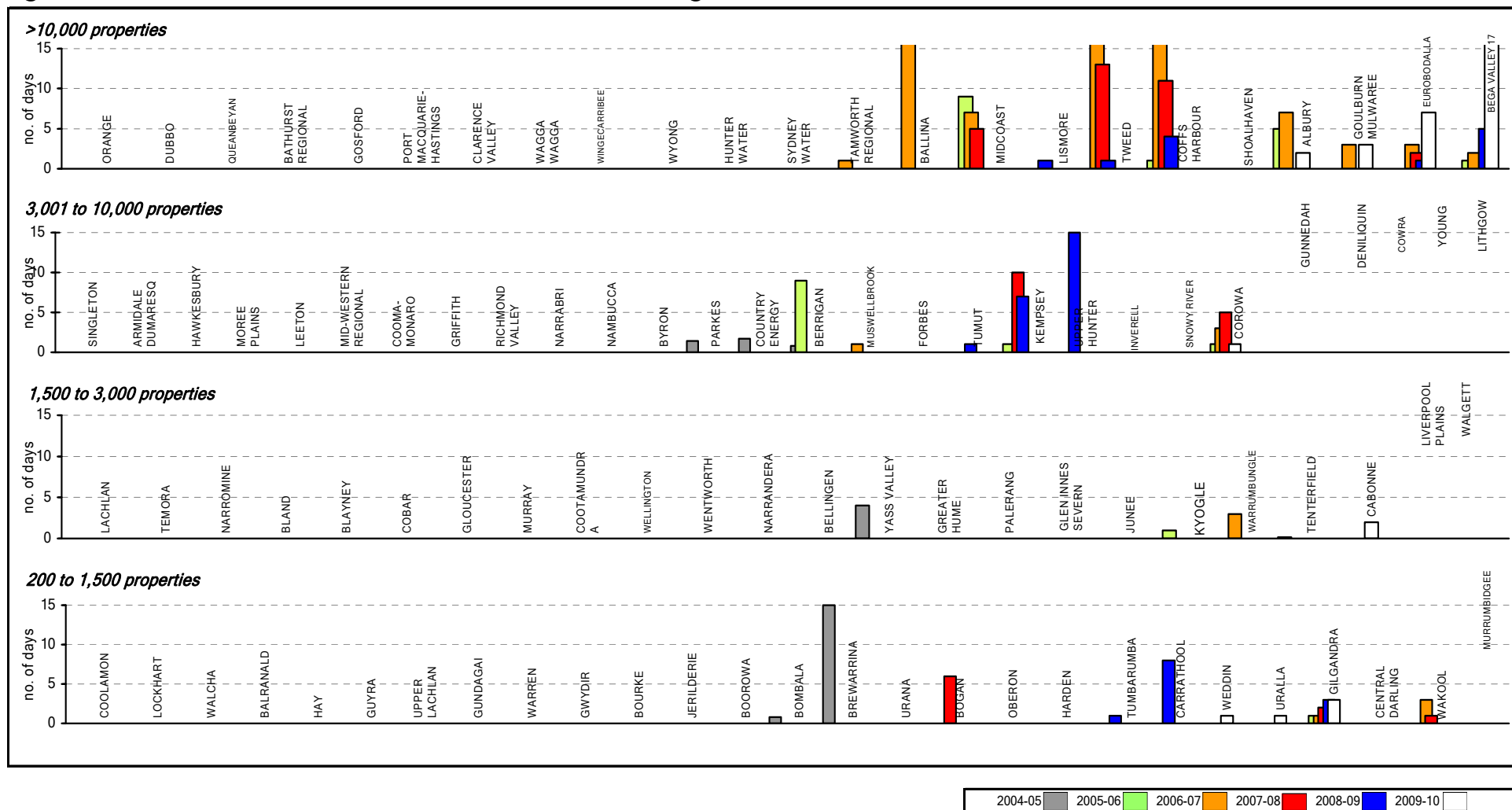


Parameter:
$$\frac{[\text{No. of Odour Complaints from Treatment Works and Pumping Stations (Q39)} \times 1000]}{[\text{No. of Residential Assessments (Q15)} + \text{No. of Non-Residential Assessments (Q16)}] \times \text{No. of Connected Properties per Assessment}}$$

Notes:

1. This figure shows ranked values of the 2009-10 number of sewage odour complaints for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the number of odour complaints for the 28 LWUs shown ranges from 0 to 3.7 complaints per thousand connected properties. The 2 LWUs on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown.
2. The 2009-10 Statewide median number of odour complaints is 0.6 per 1000 properties.
3. For general notes see page 30.

Figure 46: Treatment works malfunction – sewerage

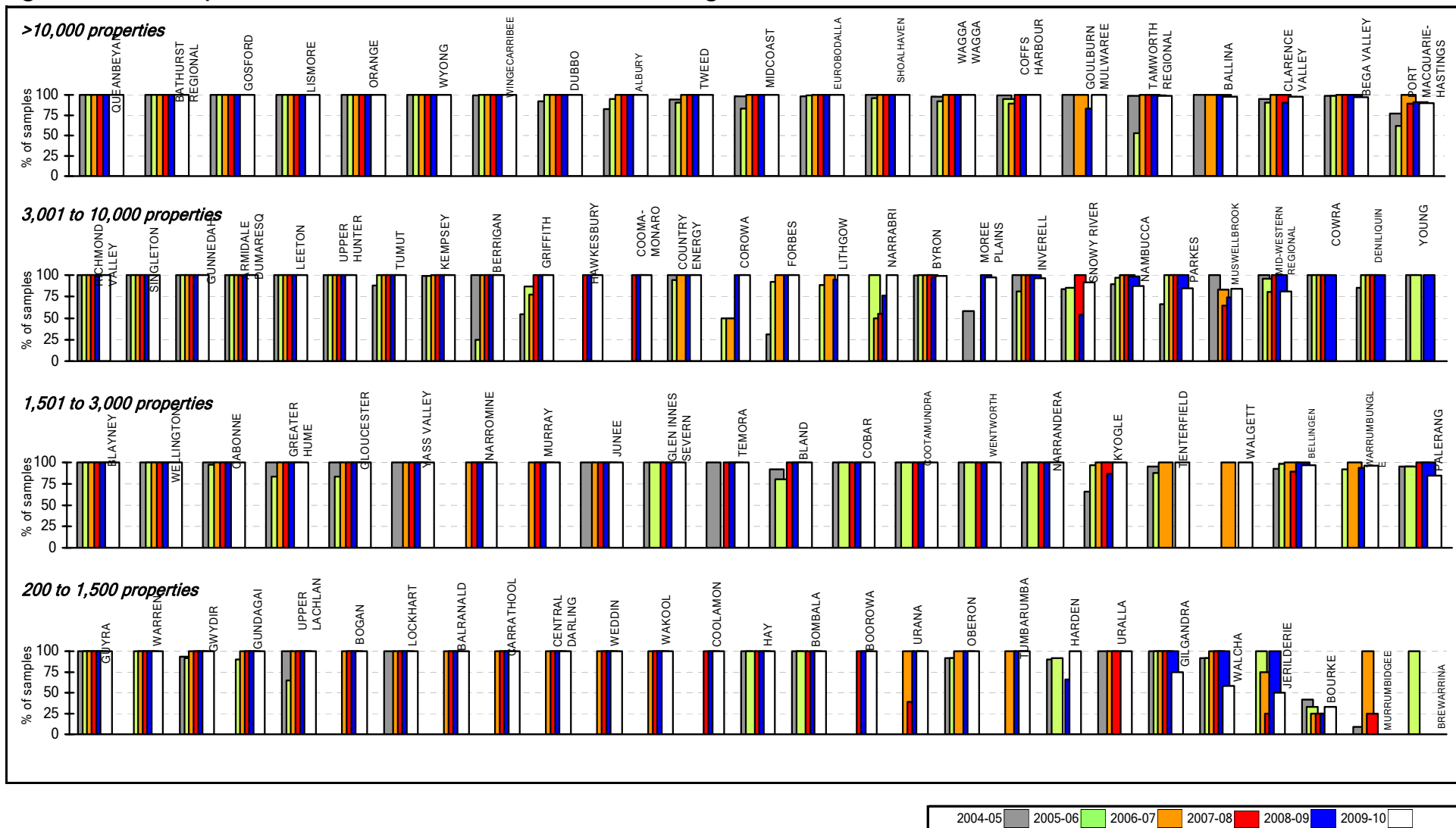


Parameter: Number of Days of major Malfunction of Treatment Processes (STW Q67)

Notes:

1. The figure shows the 2009-10 ranked number of days of treatment works malfunction for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the number of days of malfunction for the 28 LWUs shown ranges from nil to 15 days.
2. For LWUs with more than one treatment works, the weighted average (based on capacity) of days was used.
3. For general notes see page 30.

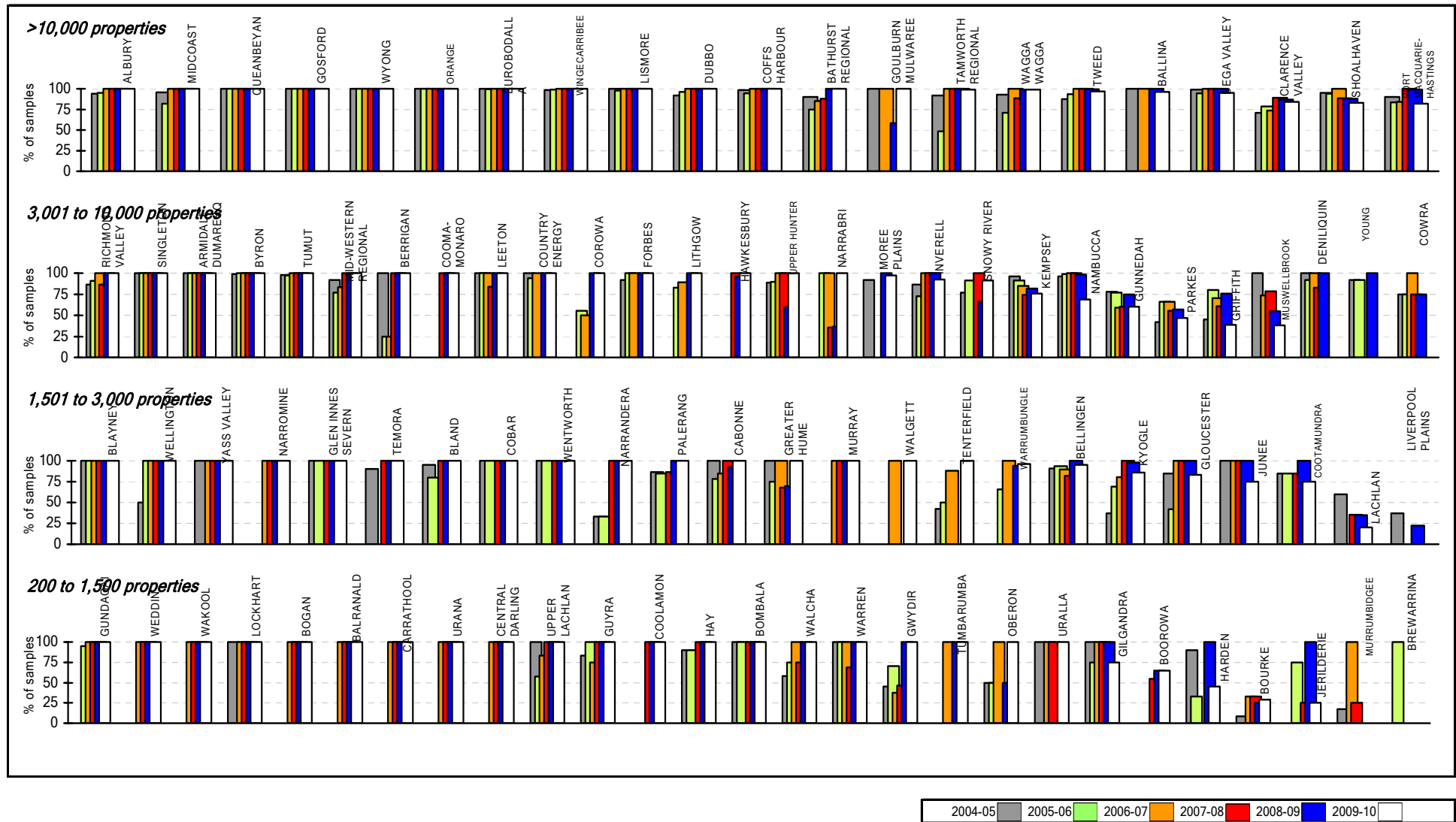
Figure 47: Compliance with BOD in licence – sewerage



Parameter: Percentage of samples complying with 90 percentile Department of Environment and Conservation (DEC) licence limits for Biochemical Oxygen Demand (BOD) (STW Q50)

Note:
1. For general notes see page 30.

Figure 48: Compliance with SS in licence – sewerage

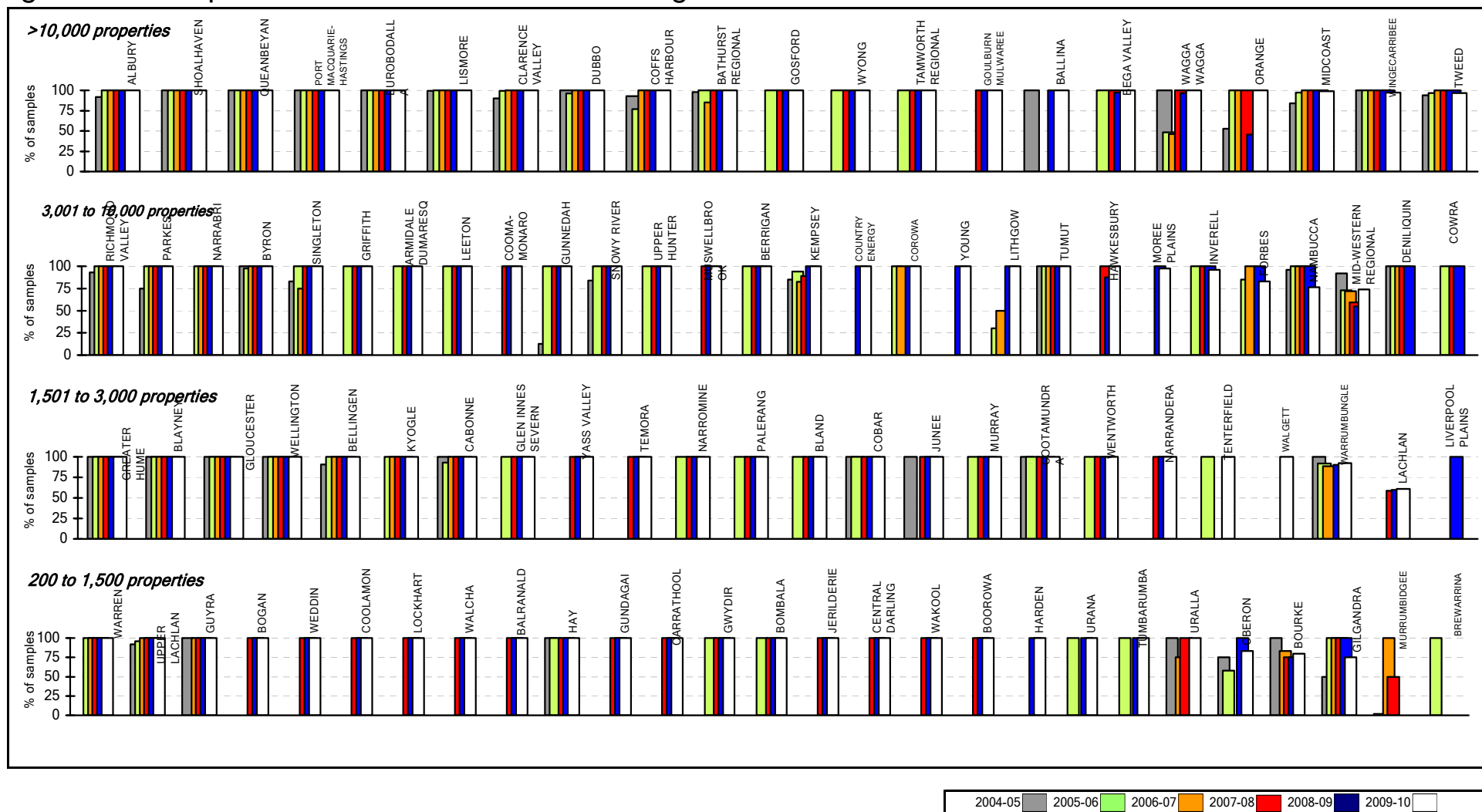


Parameter: Percentage of samples complying with 90 percentile Department of Environment and Conservation (DEC) licence limits for Suspended Solids (SS) (STW Q52)

Note:

1. For general notes see page 30.

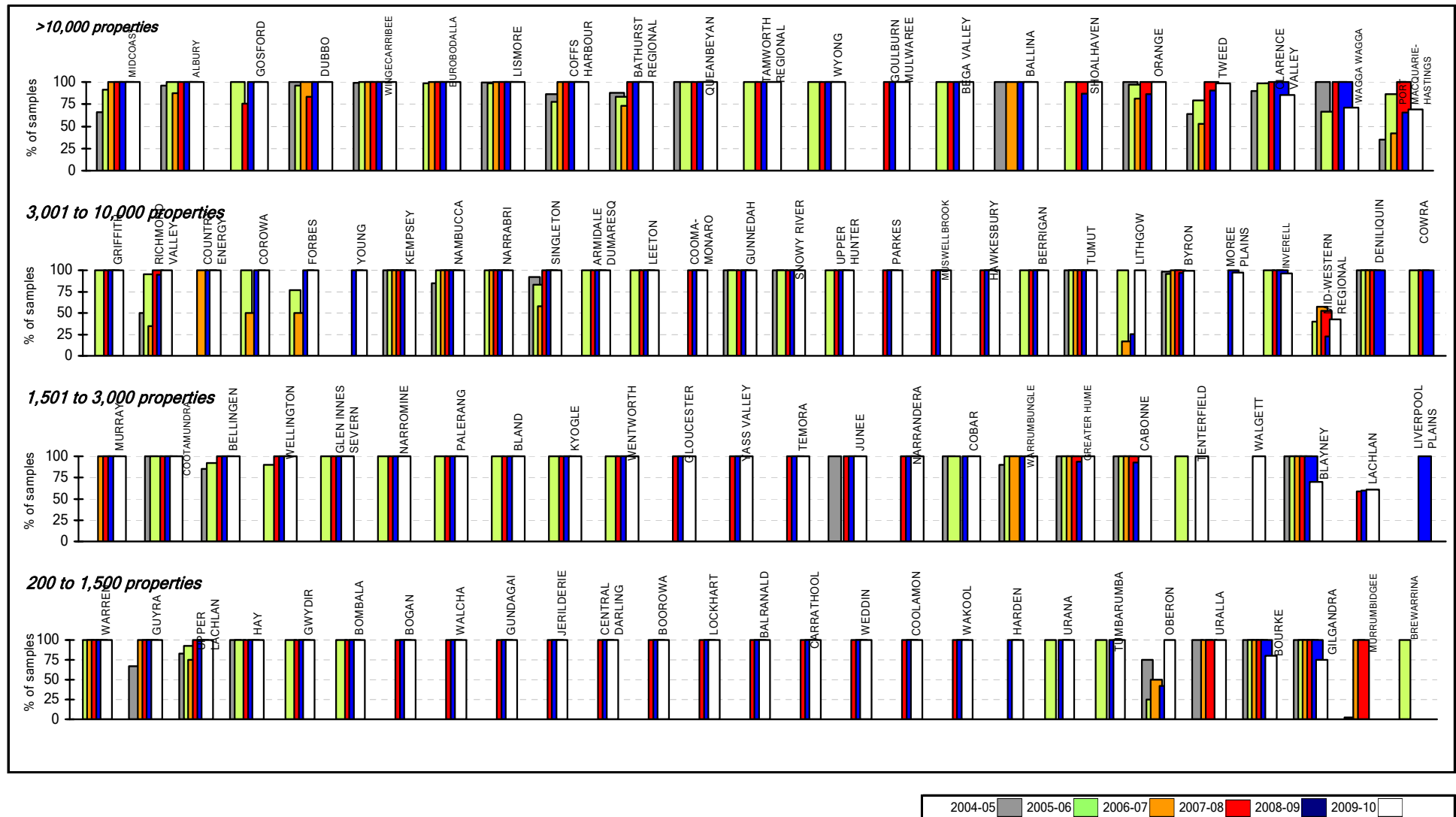
Figure 49: Compliance with N in licence – sewerage



Parameter: Percentage of samples complying with 90 percentile Department of Environment and Conservation (DEC) licence limits for Total Nitrogen (STW Q54)

Note:
1. For general notes see page 30.

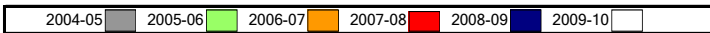
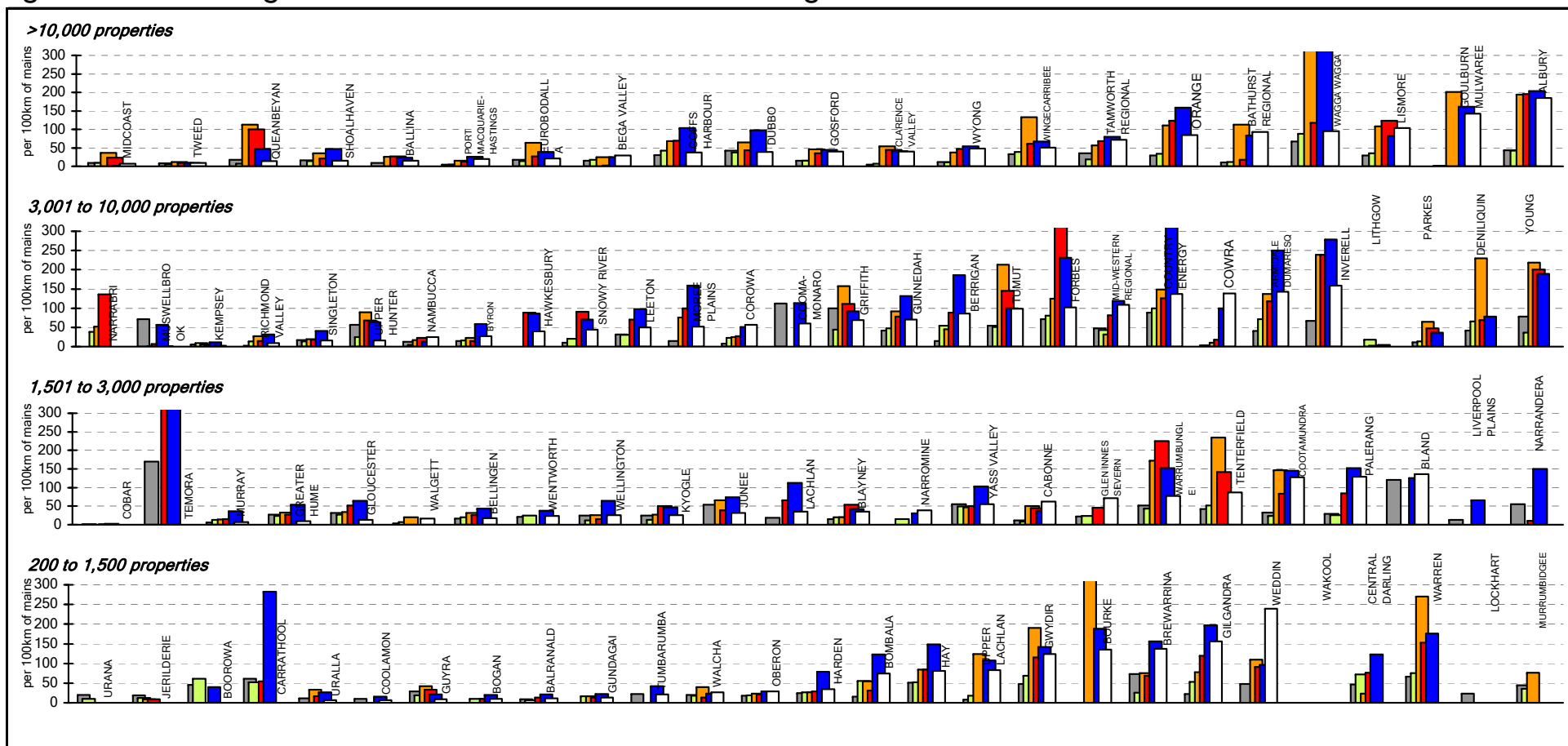
Figure 50: Compliance with P in licence – sewerage



Parameter: Percentage of samples complying with 90 percentile Department of Environment and Conservation (DEC) licence limits for Total Phosphorus (STW Q60)

Note:
1. For general notes see page 30.

Figure 51: Sewerage main breaks and chokes – sewerage

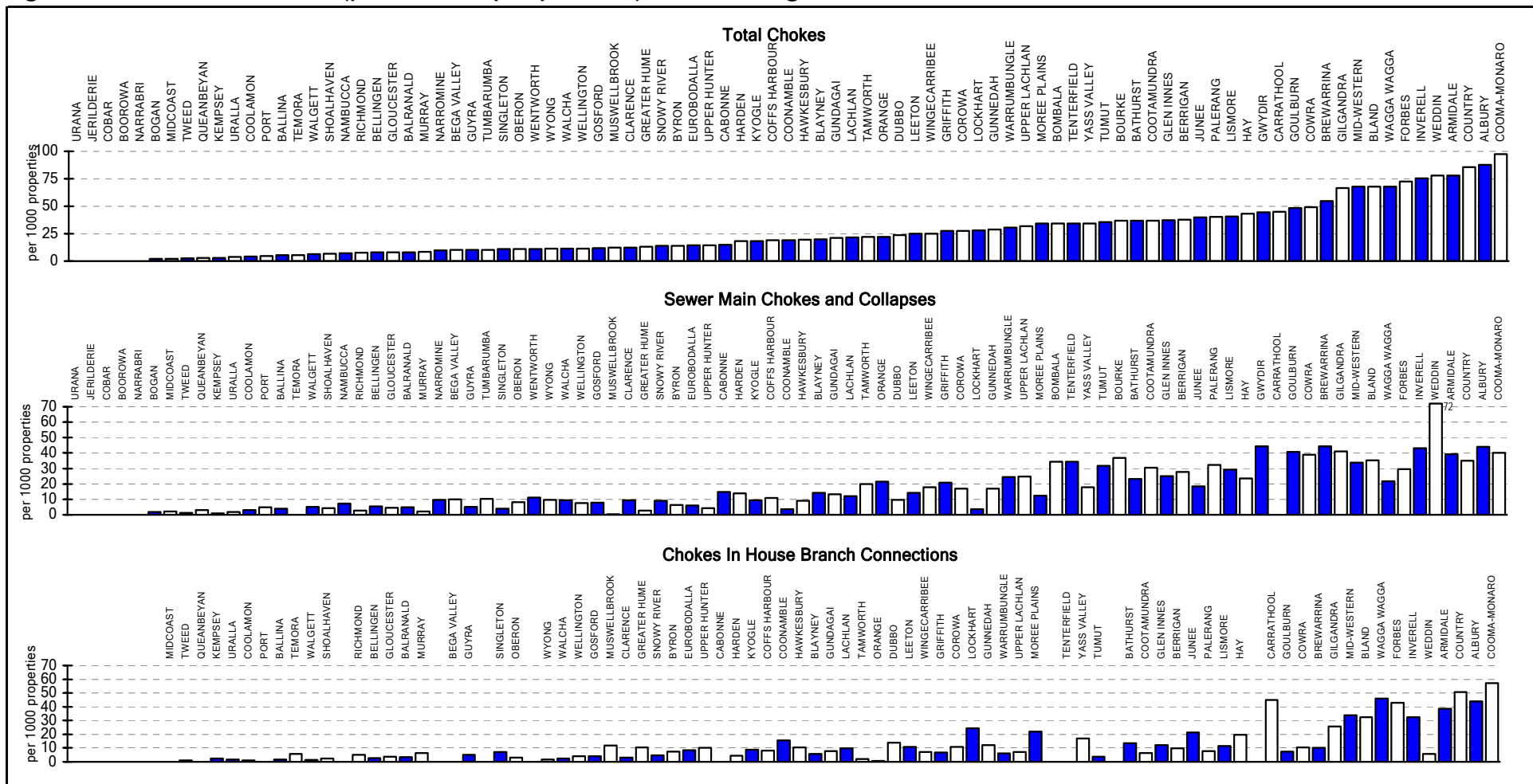


Parameter: $\frac{\text{Total No. of Sewerage Main Breaks and Chokes (Q64)} \times 100}{\text{Length of Reticulation/Gravity Mains (Q7) + Length of Rising Mains (Q8)}}$

Notes:

1. This figure shows ranked values of the 2009-10 sewerage main breaks and chokes for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewerage main breaks and chokes for the 24 LWUs shown ranges from nil to 159 chokes per 100 km of sewer mains. The 1 LWU on the right did not report this indicator for 2009-10 Results for the previous 5 years are also
2. Note NWI Indicator A14 (sewerage main breaks and chokes) was revised for 2009/10 to exclude property connection sewer breaks and chokes which were previously included in this indicator. The results shown for 2004/05 to 2008/09 are based on the previous definition which includes property connections sewer breaks and chokes.
3. The Statewide median sewerage main breaks and chokes is 39 per 100 km of sewer mains.
4. 9% of LWUs were unable to report on this item and those LWUs should institute a system to record and report such occurrences.
5. For general notes see page 30.

Figure 52: Total chokes (per 1,000 properties) – sewerage



Parameter: $\frac{\text{No. of Confirmed Sewer Chokes (Q64)} + \text{No. of Chokes in House Branch Connections (Q67)} + \text{No. of Chokes in House Drains (Q68)}}{[\text{No. of Residential Assessments (Q15)} + \text{No. of Non-Residential Assessments (Q16)}] \times \text{No. of Connected Properties per Assessment}}$ x 1000

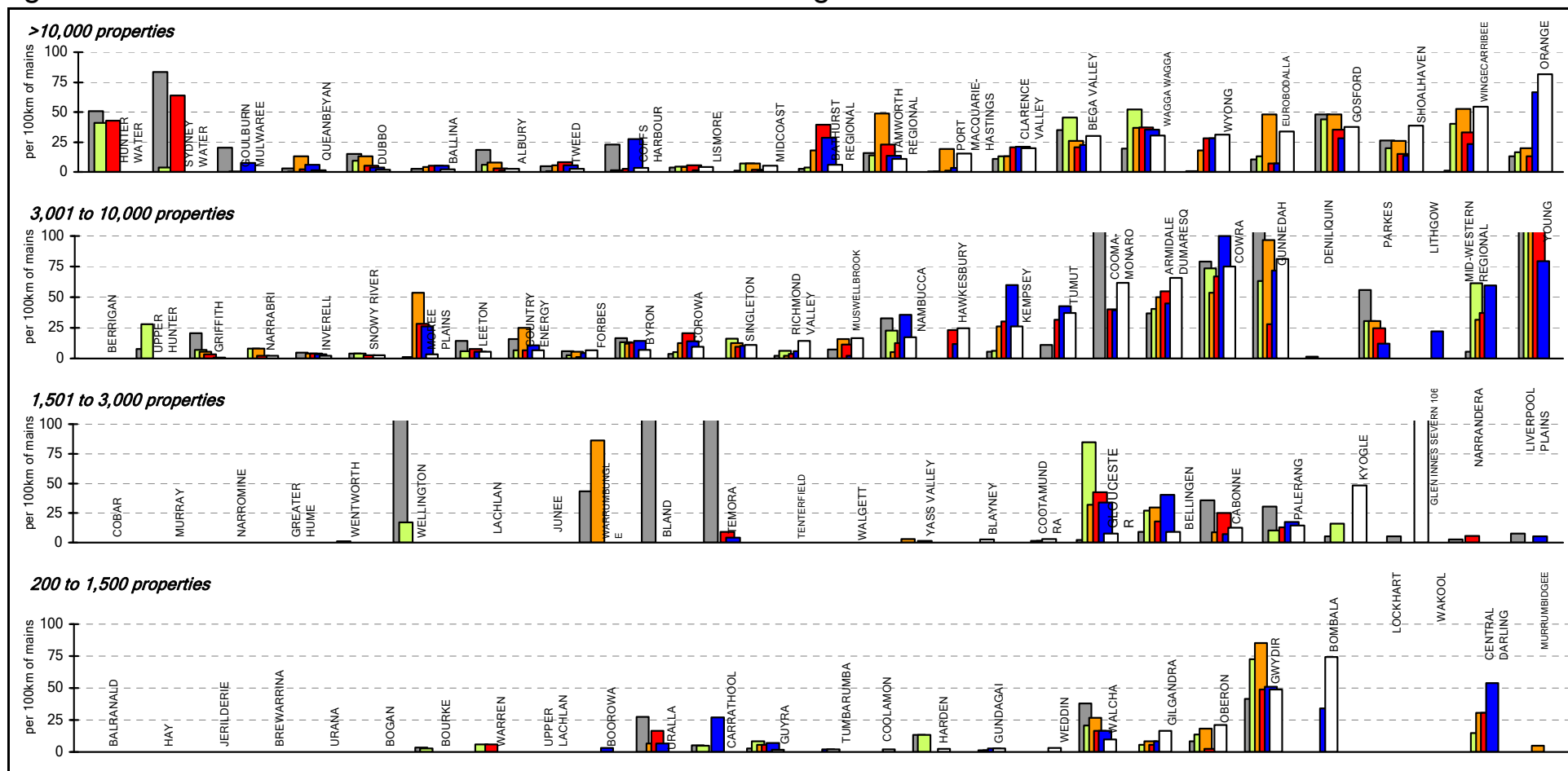
Parameter: $\frac{\text{No. of Confirmed Sewer Chokes (Q64)}}{[\text{No. of Residential Assessments (Q15)} + \text{No. of Non-Residential Assessments (Q16)}] \times \text{No. of Connected Properties per Assessment}}$ x 1000

Parameter: $\frac{\text{No. of Chokes in House Branch Connections (Q67)}}{[\text{No. of Residential Assessments (Q15)} + \text{No. of Non-Residential Assessments (Q16)}] \times \text{No. of Connected Properties per Assessment}}$ x 1000

Note:

1. For general notes see page 30.

Figure 53: Sewer overflows to the environment – sewerage

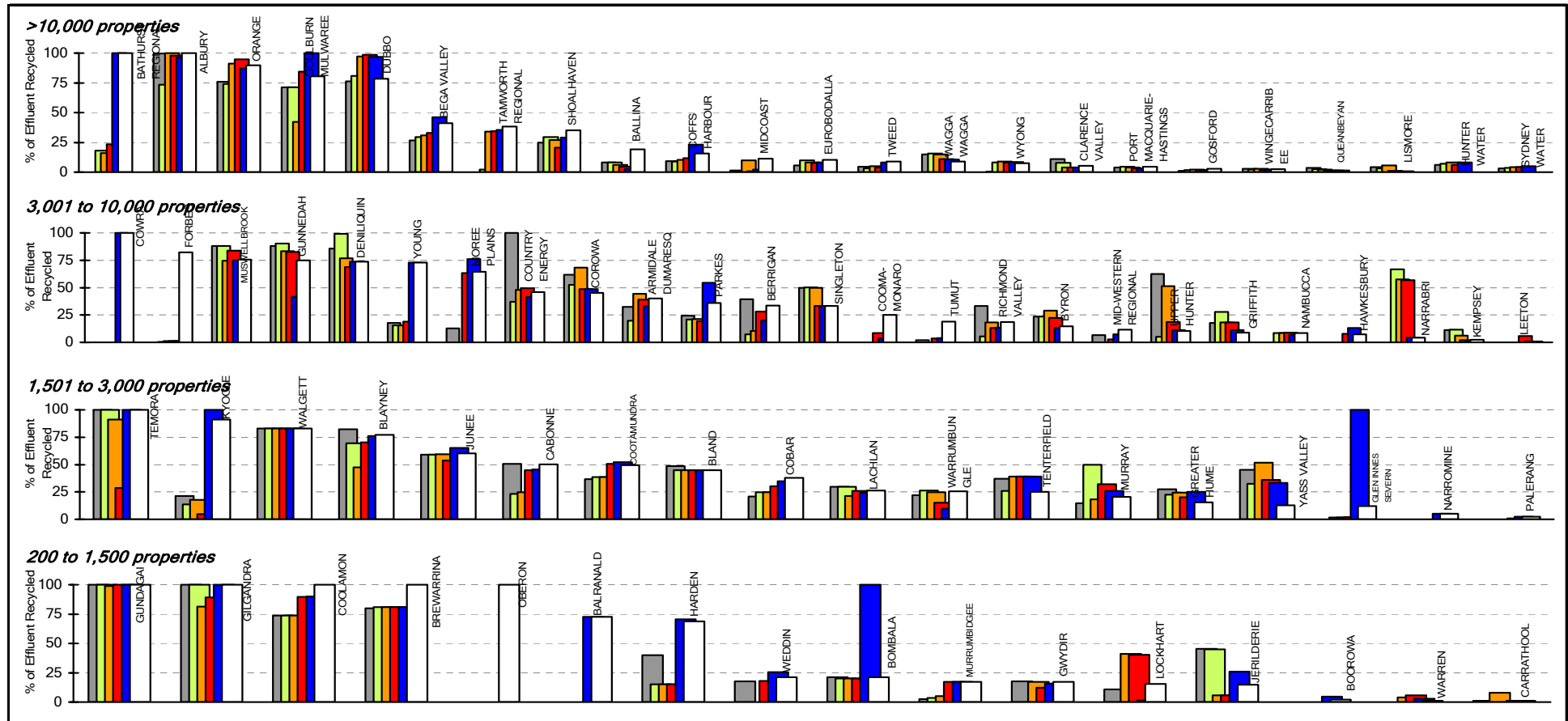


Parameter:
$$\frac{\text{Total No. of Sewage Overflows (Q63)} \times 100}{\text{Length of Reticulation/Gravity Mains (Q7)} + \text{Length of Rising Mains (Q8)}}$$

Notes:

1. This figure shows ranked values of the 2009-10 sewer overflows to the environment for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewer overflows to the environment for the 28 LWUs shown ranges from nil to 81 overflows per 100 km of sewer mains. The 5 LWUs on the right did not report this indicator for 2009-10 Results for the previous 5 years are also shown.
2. The Statewide median sewer overflows to the environment is 15 per 100 km of sewer mains.
3. 33% of reporting LWUs reported no sewer overflows.
4. For general notes see page 30.

Figure 55: Recycled water (% of effluent recycled) – sewerage



Parameter: $\frac{\text{Total Volume Recycled (STW Q25)} \times 100}{\text{Volume of Sewage Receiving Secondary Treatment (STW Q18)}}$



Notes:

1. This figure shows ranked values of the 2009-10 recycled water (% of sewage effluent recycled) for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 recycled water (% of sewage effluent recycled) for the 28 LWUs shown ranges from 100% to 0%. Results for the previous 5 years are also shown.
2. The 2008-09 result has been adopted for the 2 LWUs that did not report but historically report consistent effluent reuse (generally >25%). These LWUs are shown in **italics bold** in Table 5 on page 110.
3. The Statewide median reuse of recycled water is 11% of effluent recycled.
4. The total volume of recycled water for non-metropolitan NSW was 39,000 ML, which was 24% of the total volume of sewage collected. Re-use was carried out by 80% of LWUs. 25% of LWUs recycled over 50% of their effluent.
5. Refer also to page 9 of the 2009-10 NSW Water Supply and Sewerage Performance Monitoring Report.
6. For general notes see page 30.

Figure 56: Energy consumption per ML – sewerage

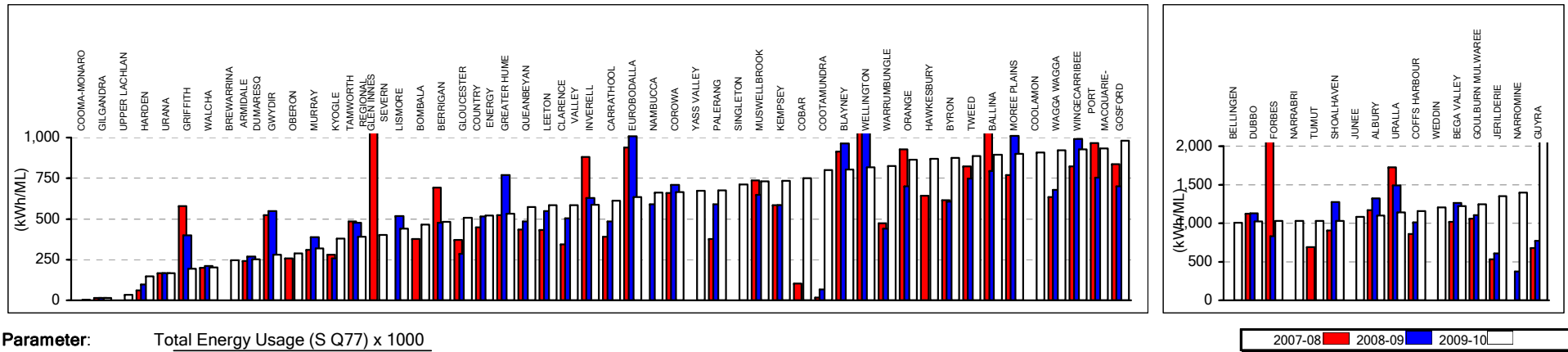


Figure 57: Energy consumption per property – sewerage

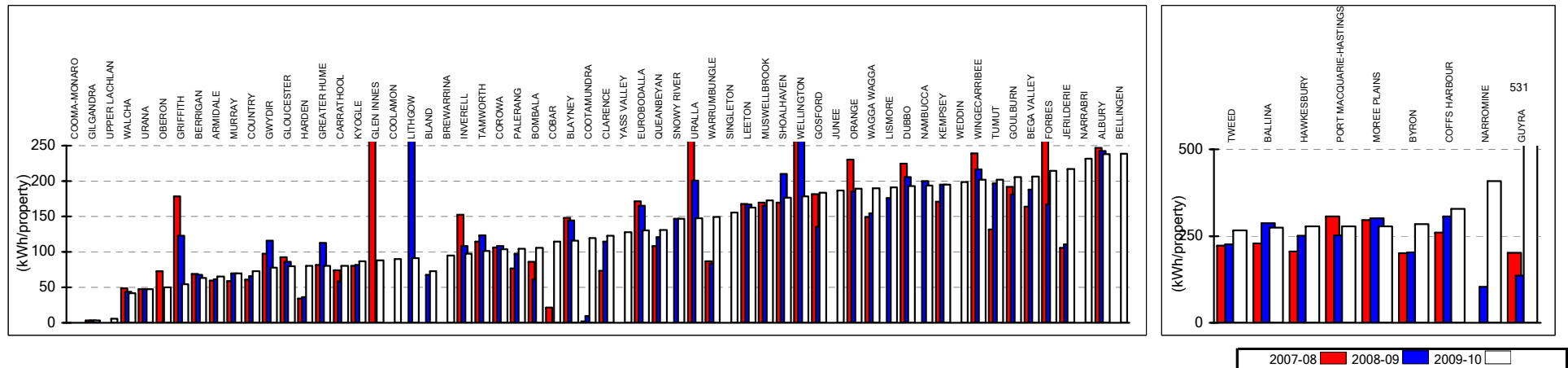
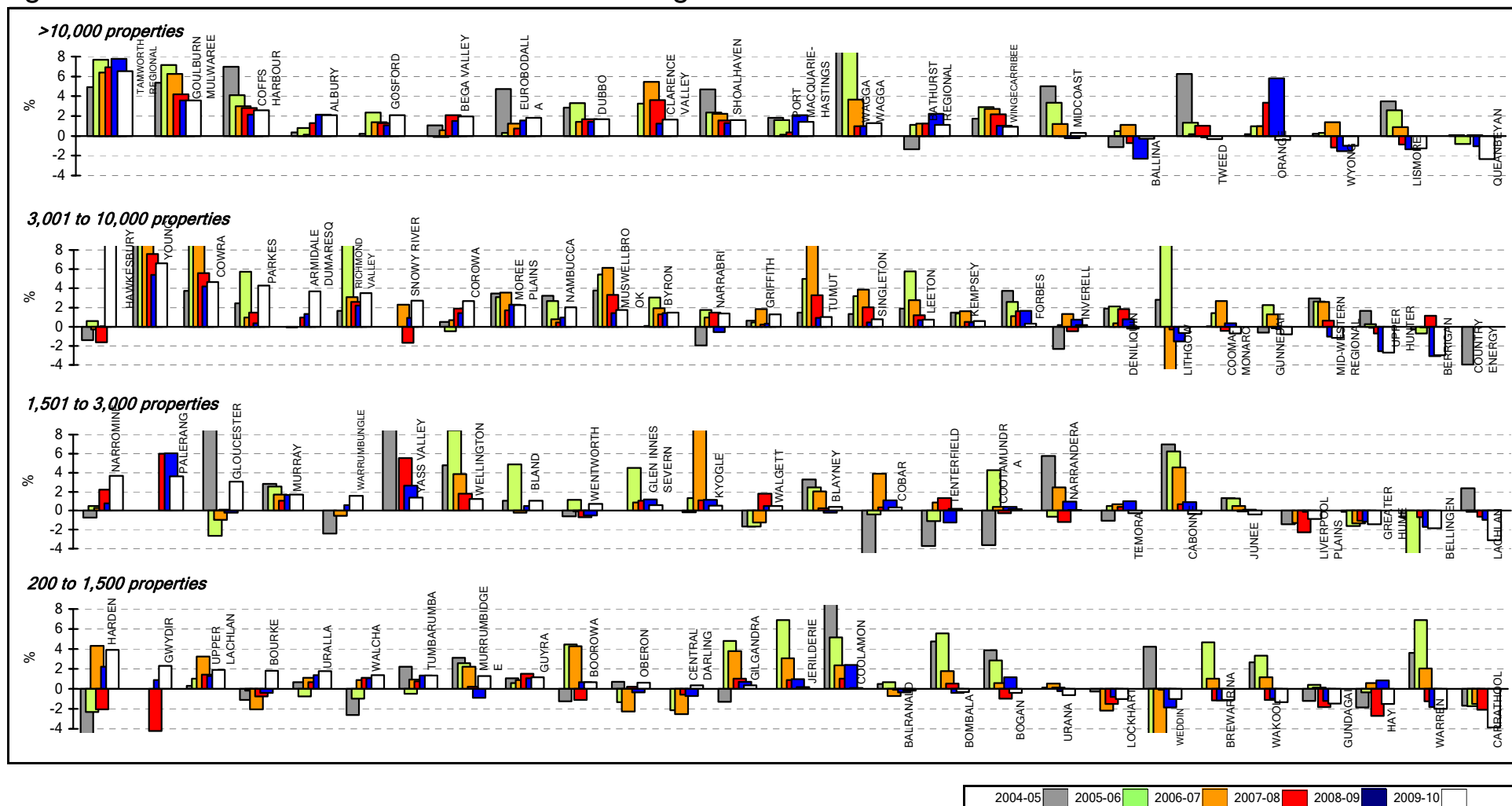


Figure 59: Economic real rate of return – sewerage

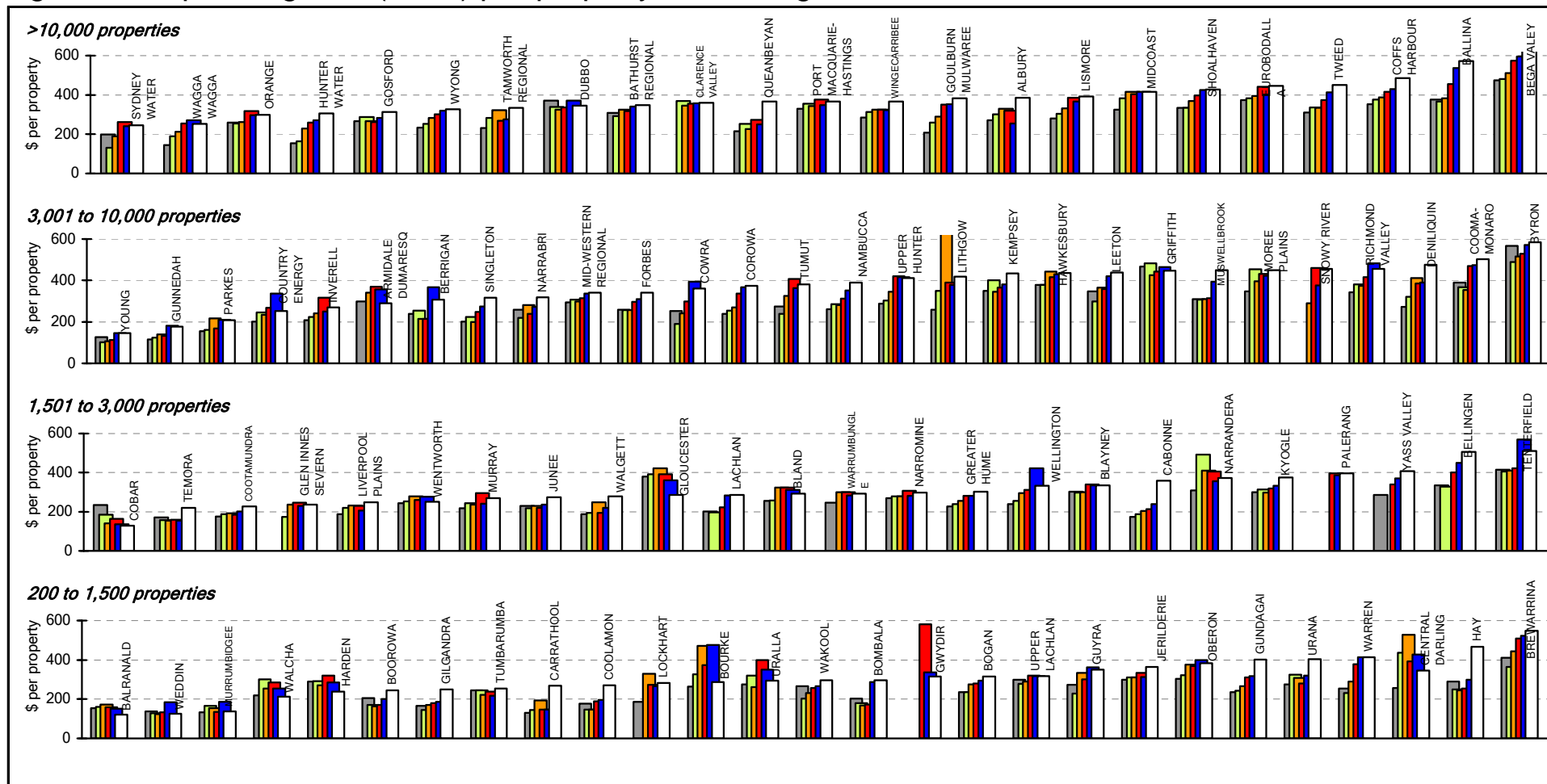


Parameter:
$$\frac{[\text{Operating Result (S16)} + \text{Interest Expense (S4a)} - \text{Interest Income (S10)} - \text{Grants for Acquisition of Assets (S12a)}] \times 100}{\text{Written Down Replacement Cost of System Assets, Plant \& Equipment (S34)}}$$

Notes:

1. This figure shows ranked values of the 2009-10 sewerage economic real rate of return (ERRR) for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewerage real rate of return for the 28 LWUs shown ranges from 14% to -3%. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown.
2. The Statewide median sewerage ERRR is 1.3%.
3. The ERRR includes developer provided assets and capital contributions from other LWUs.
4. For general notes see page 30.

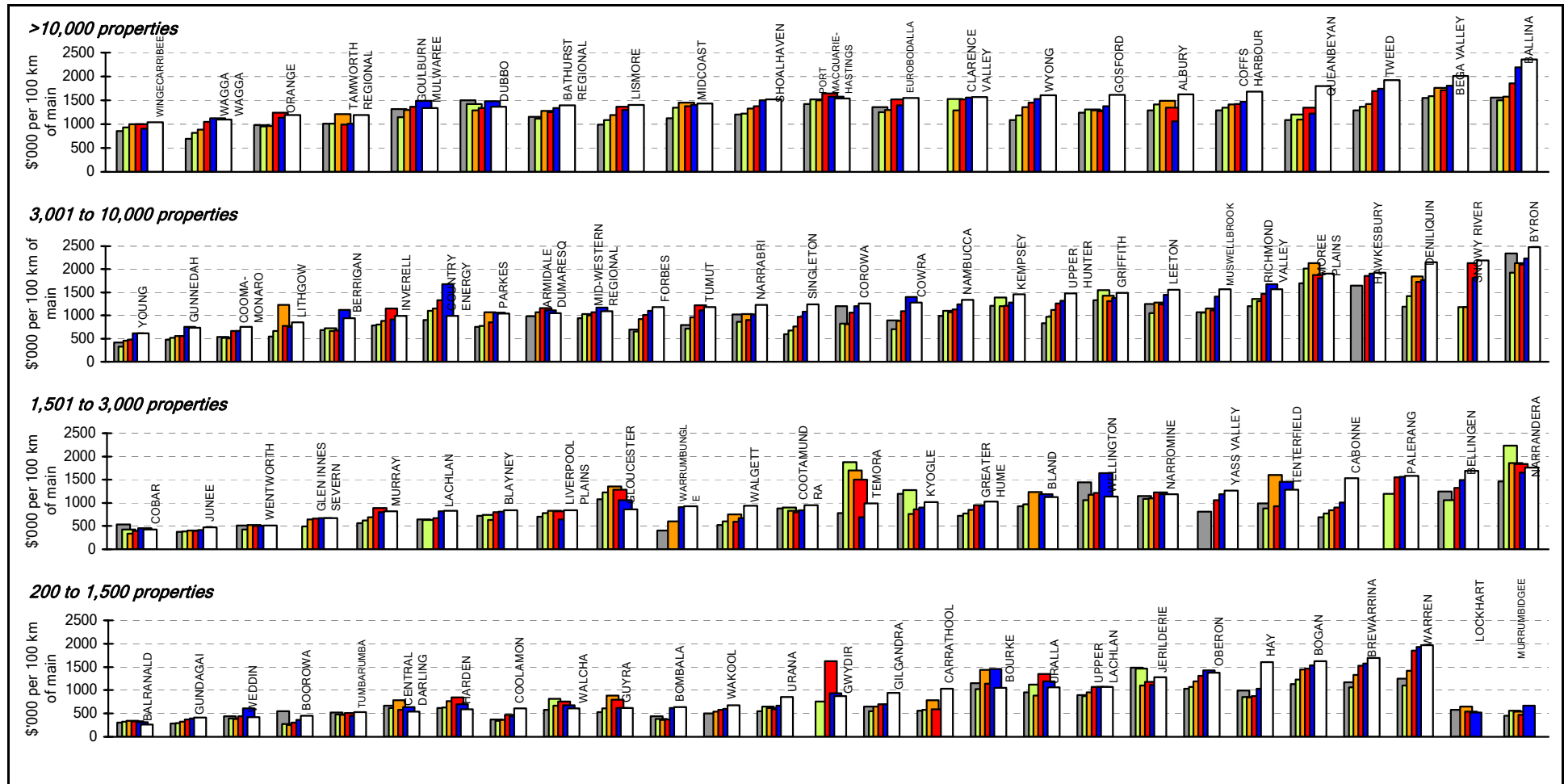
Figure 60: Operating cost (OMA) per property – sewerage



Parameter: Management Expenses (S1) + Total Operations Expenses (S2) - Purchase of Water + Bulk Supplier's OMA
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16) x No. of connected properties per assessment]

- Notes:**
1. This figure shows ranked values of the 2009-10 water supply operating cost (OMA - operation, maintenance and administration) per property for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the operating costs for the 28 LWUs shown ranges from \$145 to \$580 per connected property. Results for the previous 5 years are also shown in Jan 2010\$.
 2. The Statewide median operating cost per connected property is \$360.
 3. For general notes see page 30.

Figure 61: Operating cost (OMA) per 100 km of main – sewerage

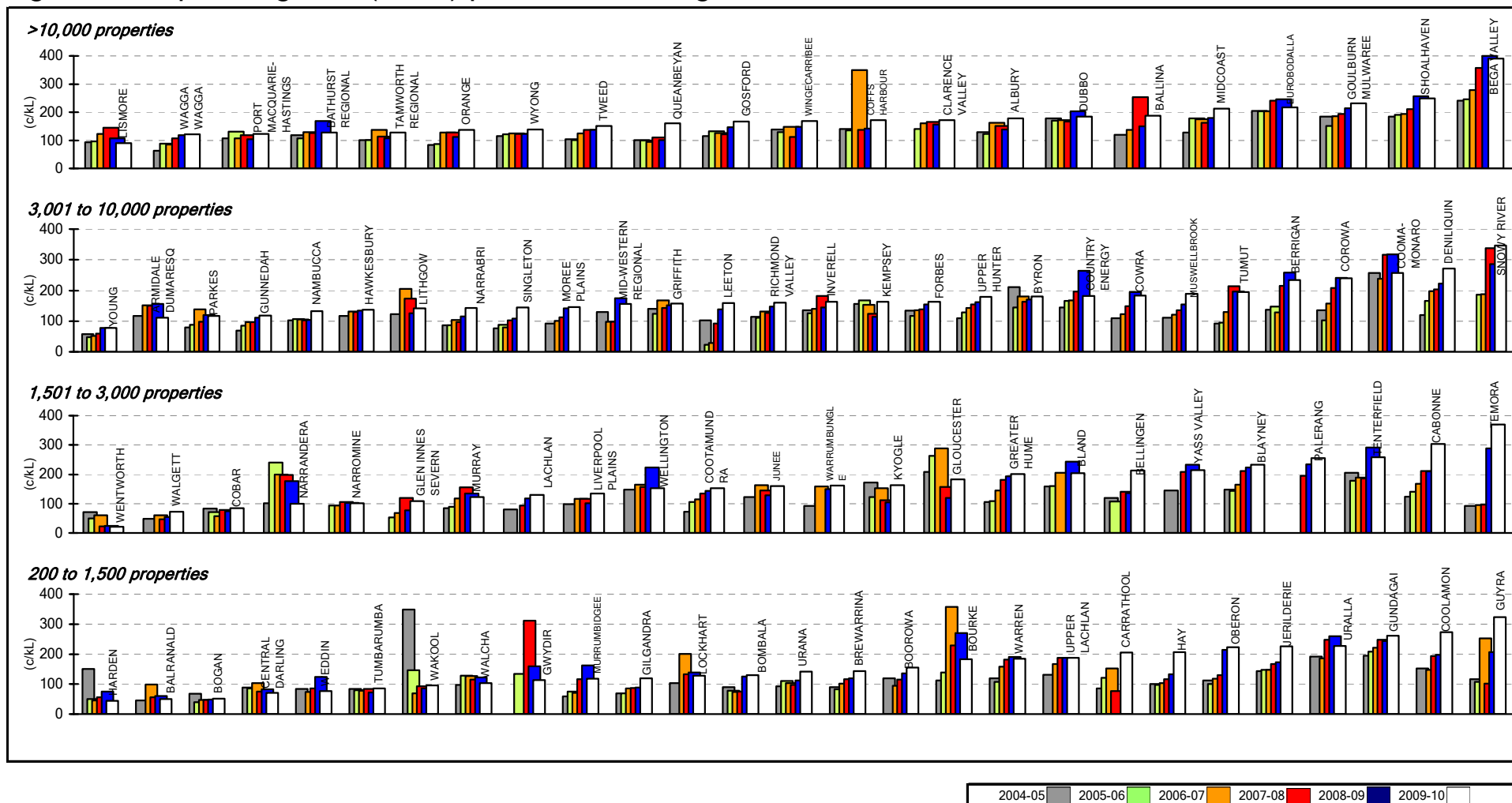


Parameter: $\frac{\text{Management Expenses (S1)} + \text{Total Operations and Maintenance Expenses (S2)}}{[\text{Length of Reticulation Mains (Q7)} + \text{Length of Rising Mains (Q8)}] \times 10}$

Notes:

1. This figure shows ranked values of the 2009-10 sewerage operating cost (OMA - operation, maintenance and administration) per 100 km of main for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the sewerage operating costs for the 28 LWUs shown ranges from \$0.61M to \$2.48M per 100 km of sewer main. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median operating cost is \$1.49M per 100 km of sewer main.
3. For general notes see page 30.

Figure 62: Operating cost (OMA) per kL – sewerage

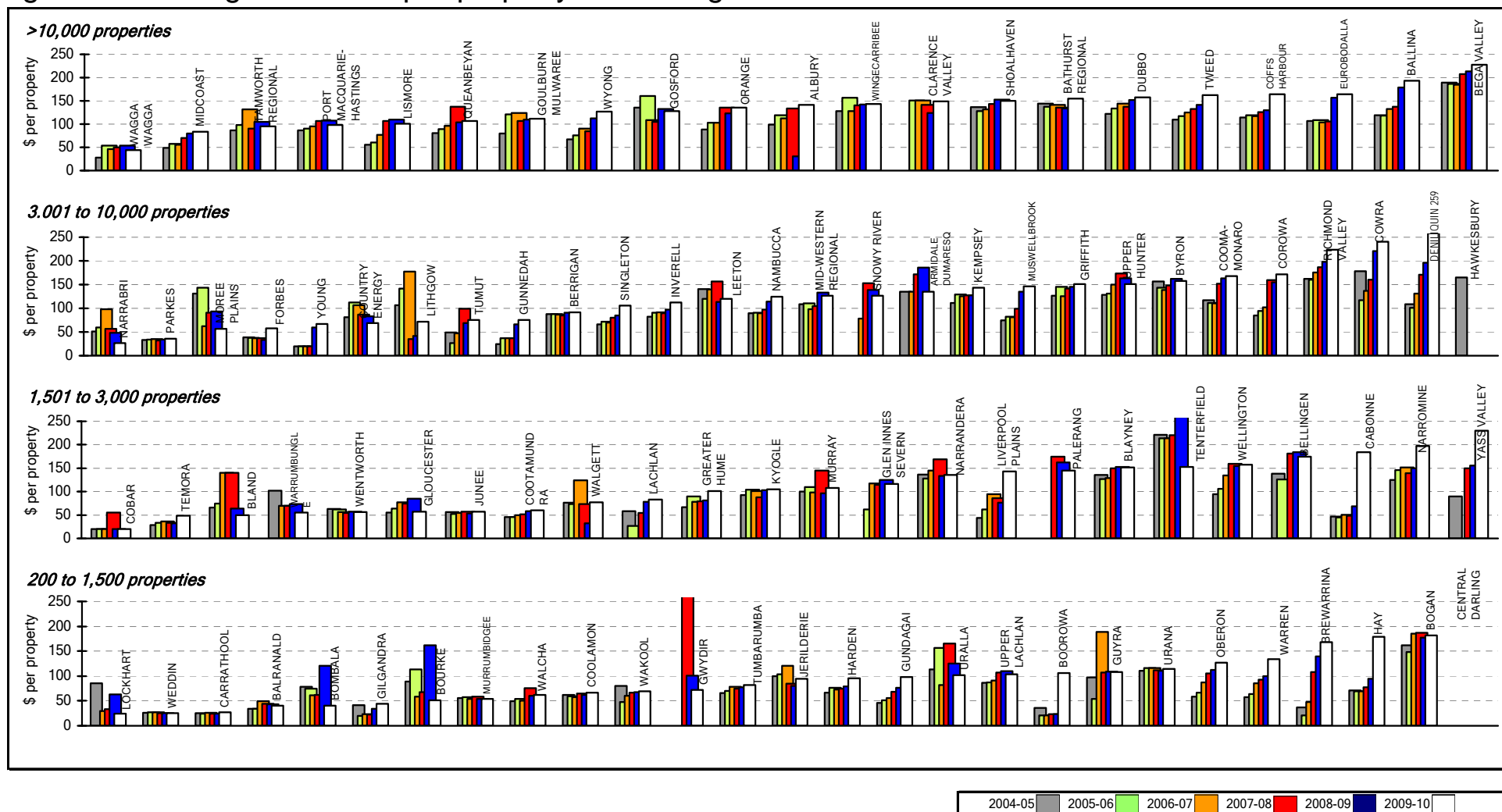


Parameter: Management Expenses (S1) + Total Operations and Maintenance Expenses (S2)
Volume of Sewerage Receiving Secondary Treatment (Q26) x 10

Notes:

1. This figure shows ranked values of the 2009-10 sewerage operating cost (OMA - operation, maintenance and administration) per 100 km of main for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the sewerage operating costs for the 28 LWUs shown ranges from 77c/kL to 346c/kL. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median operating cost is 164c/kL.
3. For general notes see page 30.

Figure 63: Management cost per property – sewerage

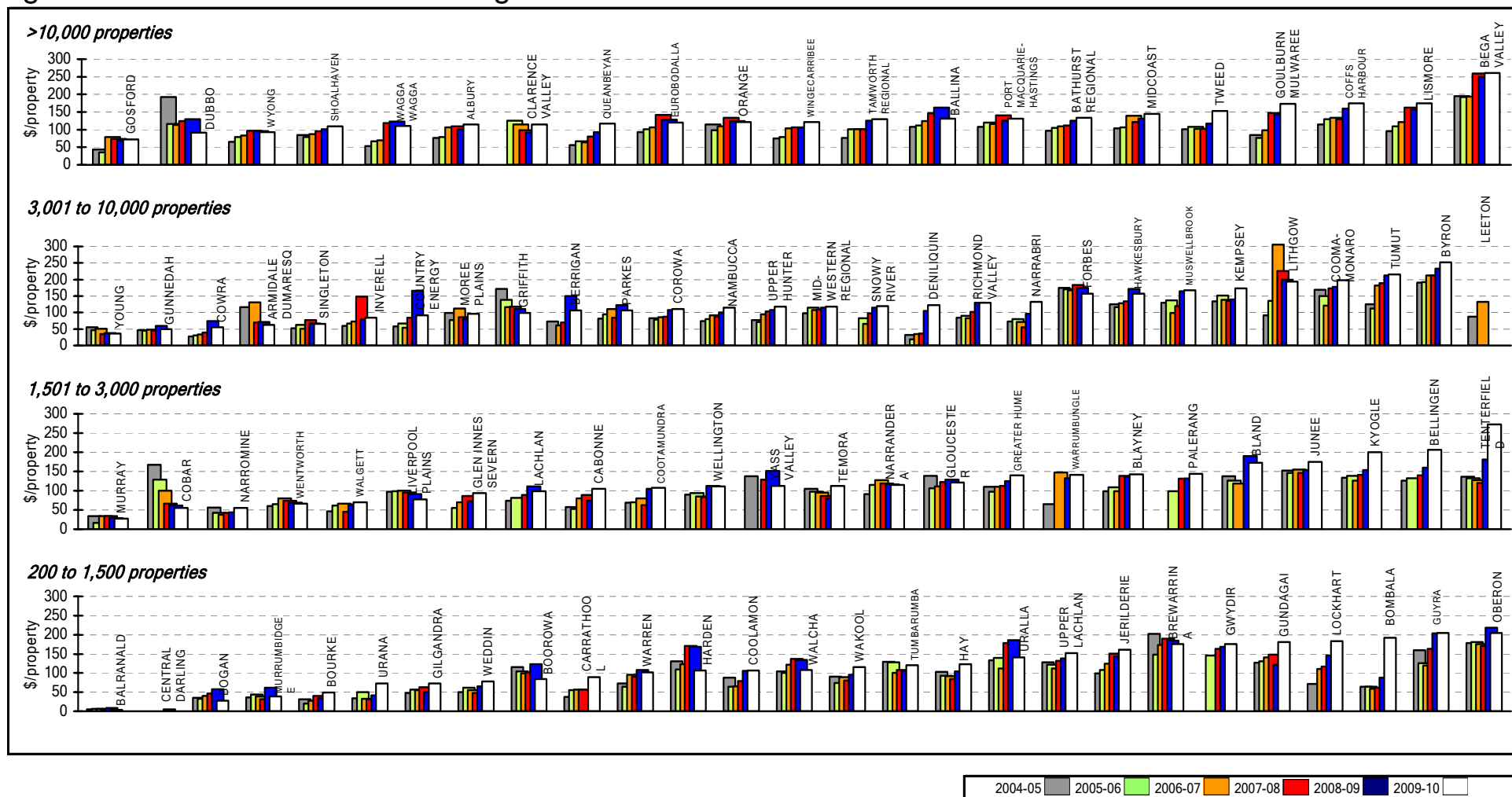


Parameter: Administration cost (S1a) + engineering cost (S1b)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16) x No. of connected properties per assessment]

Notes:

1. This figure shows ranked values of the 2009-10 water supply management cost per property for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 management costs for the 28 LWUs shown ranges from \$26 to \$259. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median management cost is \$128 per connected property.
3. For general notes see page 30.

Figure 64: Treatment cost – sewerage

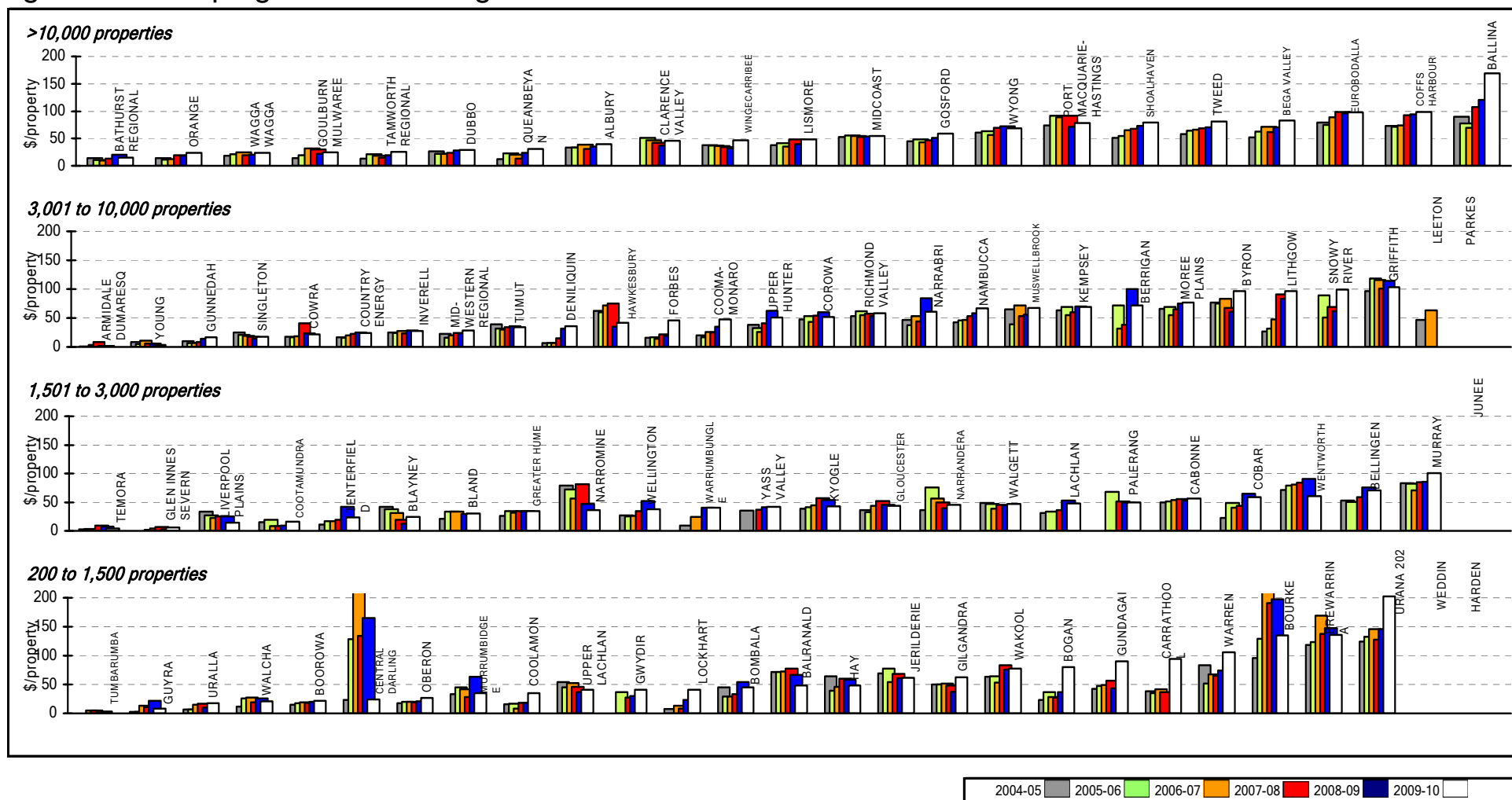


Parameter: Treatment Operation Expenses (S2f) + Treatment Chemical Cost (S2g) + Energy Cost (S2h) + Treatment Maintenance Expenses (S2k)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16) x No. of connected properties per assessment]

Notes:

1. This figure shows ranked values of the 2009-10 sewerage treatment cost for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewerage treatment cost for the 28 LWUs shown ranges from \$40 to \$252 per connected property. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown in Jan
2. The Statewide median sewerage treatment cost is \$115 per connected property.
3. For general notes see page 30.

Figure 65: Pumping cost – sewerage

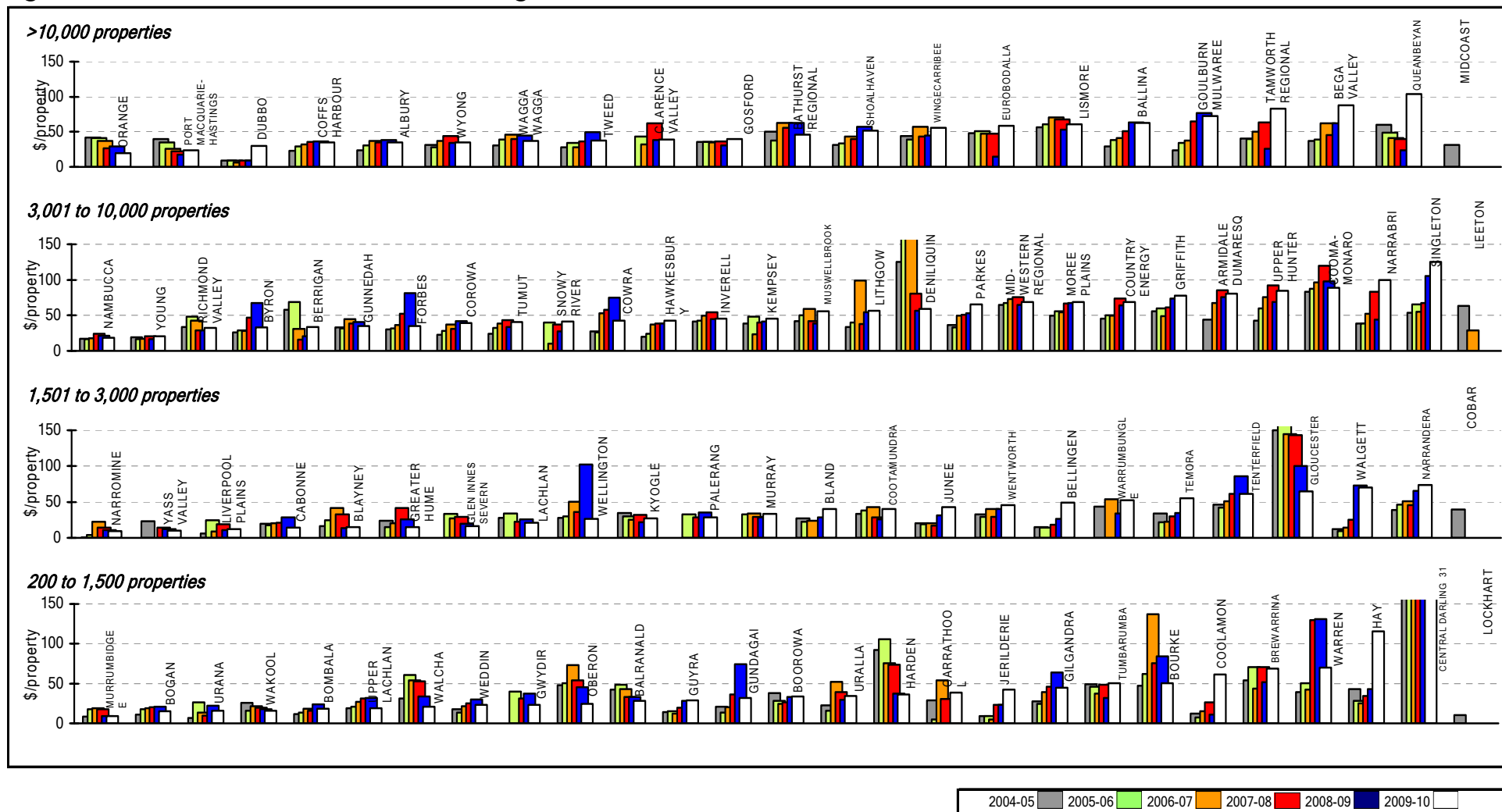


Parameter: Pumping station operation expenses (S2c) + energy cost (S2d) + treatment cost (S2e)
 [No. of residential assessments (Q15) + No. of non-residential assessments (Q16) x No. of connected properties per assessment

Notes:

1. This figure shows ranked values of the 2009-10 sewerage pumping cost for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewerage pumping cost for the 28 LWUs shown ranges from \$2 to \$103 per connected property. The 2 LWUs on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown in Jan
2. The Statewide median pumping cost is \$55 per connected property.
3. For general notes see page 30.

Figure 66: Sewer main cost – sewerage



Parameter: $\frac{\text{Sewer main operation cost (S2a)} + \text{sewer main maintenance cost (S2b)}}{[\text{No. of residential assessments (Q15)} + \text{No. of non-residential assessments (Q16)}] \times \text{No. of connected properties per assessment}}$

Notes:

1. This figure shows ranked values of the 2009-10 sewer main cost for each Local Water Utility (LWU) in 4 groups based on the number of connected properties served - over 10,000, 3,001 to 10,000, 1,501 to 3,000 and 200 to 1,500. Each white bar represents one LWU. As an example, for the second graph (property range from 3,001 to 10,000), the 2009-10 sewer main cost for the 28 LWUs shown ranges from \$19 to \$125 per connected property. The 1 LWU on the right did not report this indicator for 2009-10. Results for the previous 5 years are also shown in Jan 2010\$.
2. The Statewide median sewer main cost is \$40 per connected property.
3. For general notes see page 30.

10. Tables

Table 1: NSW water supply performance indicators 2009-10

| | Statewide Percentiles (% of properties) ³ | | |
|--|--|--------------|--------|
| | 20% | Median (50%) | 80% |
| UTILITY CHARACTERISTICS | | | |
| 3 Residential Assessments (% of total) | 95 | 91 | 89 |
| 4 New Residential Dwellings Connected to Water Supply (%) | 1.5 | 1.0 | 0.7 |
| 5 Properties Served per km of Main | 46 | 32 | 23 |
| 6 Rainfall (% of average annual rainfall) | 140 | 104 | 80 |
| 7 Total Urban Water Supplied (at Master Meters - ML) | 13,900 | 6,800 | 2,700 |
| 8 Peak Week to Average Consumption (%) | 130 | 145 | 190 |
| 9 Renewals Expenditure (% of current replacement cost of system assets) | 1.0 | 0.3 | 0.2 |
| 10 Employees (employees per 1000 properties) | 1.2 | 1.4 | 1.8 |
| SOCIAL - Charges/Bills (2010/11) | | | |
| 12 Residential Water Usage Charge (c/kL) | 195 | 163 | 120 |
| 13 Residential Access Charge (\$/assessment) | 90 | 130 | 230 |
| 14 Typical Residential Bill (\$/assessment) | 360 | 430 | 540 |
| 15 Typical Developer Charge (\$/equivalent tenement) | 8,300 | 4,700 | 2,800 |
| SOCIAL - Health | | | |
| 18 Urban Population without Reticulated Water Supply (%) | 0 | 0.8 | 2.4 |
| 19 Physical Water Quality Compliance (%) | 100 | 100 | 100 |
| 19a Chemical Water Quality Compliance (%) | 100 | 100 | 100 |
| 20 Microbiological (E. coli) Water Quality Compliance (%) | 100 | 100 | 100 |
| 20a Percent Population with Microbiological Compliance | 100 | 100 | 100 |
| SOCIAL - Levels of Service | | | |
| 25 Water Quality Complaints (per 1000 properties) | 1 | 4 | 11.1 |
| 26 Water Service Complaints (per 1000 properties) | 1 | 3 | 40 |
| 27 Customer Interruption Frequency (per 1000 properties) | 6 | 37 | 61 |
| 28 Average Duration of Interruption (minutes) | 120 | 159 | 220 |
| 30 Number of Main Breaks (per 100 km of main) | 4 | 10 | 18 |
| 31 Drought Water Restrictions (% of time) | 0 | 87 | 100 |
| 32 Total Days Lost (%) | 0.3 | 2.4 | 3.8 |
| ENVIRONMENTAL | | | |
| 33 Average Annual Residential Supplied (kL/property) | 145 | 175 | 260 |
| 33a Average Annual Residential Supplied COASTAL (kL/property) | 150 | 150 | 180 |
| 33b Average Annual Residential Supplied INLAND (kL/property) | 200 | 252 | 340 |
| 34 Real Loss (leakage) (L/service connection/day) | 45 | 70 | 115 |
| 35 Energy Consumption (kWh/ML) | 390 | 670 | 890 |
| 36 Renewable Energy Consumption (% of Total Energy) | 6 | 0 | 0 |
| 36a Net Greenhouse Gas Emissions - WS & Sge (net tonnes CO2 - equivalents/1000props) | 260 | 390 | 470 |
| ECONOMIC - Financial | | | |
| 40 Revenue per property - Water (\$) | 468 | 647 | 768 |
| 41 Residential Revenue from Usage Charges (% of total rates and charges) | 77 | 73 | 62 |
| 42 Current Replacement Cost per Assessment (\$) | 15,760 | 12,200 | 10,100 |
| 43 Economic Real Rate of Return (%) | 2.1 | 0.7 | 0.1 |
| 44 Return on Assets (%) | 2.5 | 0.9 | -0.7 |
| 45 Net Debt to Equity (%) | 12 | -1 | -8 |
| 46 Interest Cover | >100 | 4 | 1 |
| 47 Loan Payment (\$/property) | 170 | 55 | 0 |
| 47a Net Profit After Tax Ratio - WS & Sge (%) | 22 | 6 | -4 |
| 47b Net Profit After Tax - WS & Sge (\$) | 727 | 303 | 127 |
| ECONOMIC - Efficiency | | | |
| 48 Operating Cost (OMA) per 100 km of Main (\$'000) | 790 | 1,140 | 1,870 |
| 49 Operating Cost (OMA) per property (\$/property) | 310 | 350 | 450 |
| 50 Operating Cost (OMA) per kL (c/kL) | 81 | 116 | 147 |
| 51 Management Cost (\$/property) | 106 | 134 | 170 |
| 52 Treatment Cost (\$/property) | 21 | 39 | 108 |
| 53 Pumping Cost (\$/property) | 14 | 31 | 55 |
| 54 Energy Cost (\$/property) | 7 | 18 | 32 |
| 55 Water Main Cost (\$/property) | 45 | 56 | 97 |
| 56 Capital Expenditure - Water Supply (\$/property) | 864 | 282 | 120 |

Notes:

- 20% top 20% of properties
Median (50%) median of properties (Statewide)
80% bottom 20% of properties
- The above non-metropolitan NSW performance indicators are on a *percentage of connected properties* basis which is the most appropriate basis for judging Statewide performance by giving due weight to larger councils and reducing the effect of smaller LWUs.
- The Table on page 234 of Appendix C shows percentiles on a *percentage of LWUs* basis as this is the most appropriate basis for comparing the performance of one LWU with other LWUs.

Table 2: NSW sewerage performance indicators 2009-10

| | Statewide Percentiles (% of properties) ² | | |
|---|--|--------------|-------|
| | 20% | Median (50%) | 80% |
| UTILITY CHARACTERISTICS | | | |
| 3 Residential Assessments (% of Total) | 90 | 93 | 95 |
| 4 New Residential Dwellings Connected to Sewerage (%) | 1.6 | 0.9 | 0.5 |
| 5 Properties Served per km of Main | 50 | 40 | 35 |
| 6 Volume of Sewage Collected (ML) | 12,900 | 4,900 | 1,600 |
| 7 Renewals Expenditure (% of current replacement cost of system assets) | 0.7 | 0.3 | 0.0 |
| 8 Employees (per 1000 properties) | 1.1 | 1.6 | 2 |
| SOCIAL - Charges/Bills (2010/11) | | | |
| 11 Residential Access Charge (\$/assessment) | 400 | 525 | 630 |
| 12 Typical Residential Bill (\$/assessment) | 400 | 530 | 630 |
| 13 Typical Developer Charge (\$/equivalent tenement) | 8,380 | 4200 | 2,500 |
| 14 Non-residential sewer usage charge (c/kL) | 180 | 105 | 90 |
| SOCIAL - Health | | | |
| 16 Urban Properties without Reticulated Sewerage Service (%) | 0.4 | 3.9 | 7.4 |
| 17 Percent of sewage treated to a tertiary level (%) | 100 | 93 | 7 |
| 18 Percent of sewage volume treated that was compliant (%) | 100 | 99 | 83 |
| 19 | | | |
| SOCIAL - Levels of Service | | | |
| 21 Odour Complaints (per 1000 properties) | 0.0 | 0.6 | 1.6 |
| 22 Service Complaints (per 1000 properties) | 1 | 10 | 31 |
| 23a Average Duration of Interruptions (min) | 60 | 118 | 150 |
| 25 Total Days Lost | 0 | 2.5 | 3.7 |
| ENVIRONMENTAL | | | |
| 26 Volume of Sewage Collected per property (kL) | 285 | 220 | 190 |
| 26a Total recycled water supplied (ML) | 1,850 | 620 | 180 |
| 27 Effluent Reclaimed for Recycling (% of total effluent) | 45 | 11 | 4 |
| 28 Biosolids Reuse (%) | 100 | 100 | 0 |
| 30 Energy Consumption (kWh/ML) | 590 | 910 | 1,040 |
| 31 Renewable Energy Consumption (% of total energy consumption) | 0 | 0 | 0 |
| 32 Net greenhouse gas emissions - WS & Sge (net tonnes CO2 equivalents per 1000 properties) | 260 | 390 | 470 |
| 90 Percentile Licence Limits for Effluent Discharge: BOD 35 mg/L; SS 40 mg/L; Total N 25 mg/L; Total P 5 mg/L | | | |
| 34 Compliance with BOD in Licence (%) | 100 | 100 | 100 |
| 35 Compliance with SS in Licence (%) | 100 | 100 | 95 |
| 36 Sewerage Main Breaks and Chokes (per 100 km of main) | 14 | 39 | 85 |
| 37 Sewer Overflows to the Environment (per 100 km of main) | 2 | 15 | 37 |
| 38 Sewage treated that was compliant (%) | 100 | 99 | 83 |
| ECONOMIC - Financial | | | |
| 42 Revenue per property - Sge (\$) | 893 | 680 | 499 |
| 43 Revenue from Non-residential and Trade Waste Charges (% of total rates & charges) | 25 | 18 | 13 |
| 44 Revenue from Trade Waste Charges (% of total rates & charges) | 4 | 2 | 0 |
| 45 Current Replacement Cost per assessment (\$) | 16,400 | 12,600 | 9,600 |
| 46 Economic Real Rate of Return (%) | 2.1 | 1.3 | -0.4 |
| 46a Return on Assets (%) | 2.4 | 1.6 | -0.2 |
| 47 Net Debt to Equity (%) | 2 | -8 | -24 |
| 48 Interest Cover | >100 | 3 | 0 |
| 48a Loan Payment (\$/property) | 163 | 38 | 6 |
| 48b Net Profit After Tax Ratio WS & Sge (%) | 22 | 4 | -3 |
| 48c Net Profit After Tax WS & Sge (\$) | 3,954 | 1,492 | -480 |
| ECONOMIC - Efficiency | | | |
| 49 Operating Cost (OMA) per 100 km of Main (\$'000) | 1,100 | 1,490 | 1,610 |
| 50 Operating Cost (OMA) per property (\$/property) | 310 | 360 | 440 |
| 51 Operating Cost (OMA) per kL (c/kL) | 129 | 164 | 207 |
| 52 Management Cost (\$/property) | 95 | 128 | 158 |
| 53 Treatment Cost (\$/property) | 73 | 115 | 152 |
| 54 Pumping Cost (\$/property) | 24 | 55 | 75 |
| 55 Energy Cost (\$/property) | 19 | 26 | 39 |
| 56 Sewer Main Cost (\$/property) | 35 | 40 | 60 |
| 57 Capital Expenditure (\$/property) | 651 | 252 | 117 |

Notes:

1. 20% top 20% of properties
Median (50%) median of properties (Statewide)
80% bottom 20% of properties
2. The above non-metropolitan NSW performance indicators are on a percentage of connected properties basis which is the most appropriate basis for judging Statewide performance by giving due weight to larger LWUs and reducing the effect of smaller LWUs.
3. The Table on page 235 of Appendix C show percentiles on a *percentage of LWUs* basis as this is the most appropriate basis for comparing the performance of one LWU with other LWUs.

Table 3: 2009-10 best-practice management compliance

| WATER UTILITY (sorted on connected properties) | | WATER SUPPLY | | | | | | | | | | | SEWERAGE | | | | | | | | | | | | | |
|---|---------------------------------------|--|--|--|---|---|--|--|--|--|---|---|---|---|--|---|--|--|---|--|---|---|--|---------------------------------------|------|---------|
| | | WATER SUPPLY & SEWERAGE REVENUE (\$M) | COMPLIANCE WITH BPM CRITERIA (see Note 1) | | | | | | | | | | COMPLIANCE WITH BPM CRITERIA (see Note 1) | | | | | | | | | | | | | |
| | | | (1) Strategic Business Plan Complete Current 20 to 30-year SBP & FP (Yes/No) | (2) Pricing and Developer Charges (Yes/No) | | | | | (3) Sound Water Conservation Plan implemented (Yes/No) | (4) Sound Drought Management Plan implemented (Yes/No) | (5) Complete performance Reporting by 15 September each year (Yes/No) | (6) Integrated Water Cycle Management Strategy Commenced (Yes/No) | Overall compliance with all 10 required Criteria (Note 2) (%) | Proposed Dividend from Surplus \$'000 | (1) Strategic Business Plan Complete Current 20 to 30-year SBP & FP (Yes/No) | (2) Pricing and Developer Charges (Yes/No) | | | | | (3) Complete performance Reporting by 15 September each year (Yes/No) | (4) Integrated Water Cycle Management Strategy Commenced (Yes/No) | Overall compliance with all 9 required Criteria (Note 3) (%) | Proposed Dividend from Surplus \$'000 | | |
| (2a) Full cost-recovery, minimal cross subsidies | (2b) Complying Residential Charges | (2c) Revenue from Residential Usage Charges >=75% (Note 8) | (2d) Complying Non-Residential Charges | (2e) DSP with Commercial Developer Charges | (2f) Sound Water Conservation Plan implemented (Yes/No) | (2g) Sound Drought Management Plan implemented (Yes/No) | (2h) Complete performance Reporting by 15 September each year (Yes/No) | (2i) Integrated Water Cycle Management Strategy Commenced (Yes/No) | (2j) Overall compliance with all 10 required Criteria (Note 2) (%) | (2k) Proposed Dividend from Surplus \$'000 | (2l) (2a) Full cost-recovery, minimal cross subsidies | (2m) Complying Residential Charges | (2n) Complying Non-Residential Charges | (2o) Complying Trade Waste Fees & Charges | (2p) DSP with commercial developer charges | (2q) Liquid trade waste regulation policy and approvals implemented | (2r) Complete performance Reporting by 15 September each year (Yes/No) | (2s) Integrated Water Cycle Management Strategy Commenced (Yes/No) | (2t) Overall compliance with all 9 required Criteria (Note 3) (%) | (2u) Proposed Dividend from Surplus \$'000 | | | | | | |
| LWUs with >10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford | 69.6 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | 3,849 |
| 2 | Wyong | 75.3 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 3 | Shoalhaven | 52.4 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | 940 |
| 4 | Rous (Bulk Supplier) (NO SGE) | 16.5 | Yes* | Yes | | | | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | | | | | | | | | |
| 5 | MidCoast (Unfiltered) | 55.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 6 | Tweed | 46.9 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes* | Yes* | Yes | 100 | |
| 7 | Port Macquarie-Hastings (Unfiltered) | 43.2 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 8 | Riverina (Groundwater) (NO SGE) | 18.6 | Yes* | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | | | | | | | | | | | |
| 9 | Wagga Wagga (NO WS) | 14.5 | | | | | | | | | | | | | | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 89 | |
| 10 | Coffs Harbour (Unfiltered) | 56.9 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 11 | Albury City | 24.1 | Yes* | | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 12 | Fish River WS (Bulk Supplier, No Sge) | 7.2 | Yes* | Yes* | | | | Yes | Yes | Yes | Yes | Yes | Yes | 71 | | | | | | | | | | | | |
| 13 | Tamworth Regional | 36.9 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | 557 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | 502 |
| 14 | Clarence Valley | 23.8 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 15 | Eurobodalla (Unfiltered) | 28.7 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | 345 |
| 16 | Wingecarribee | 21.7 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 17 | Queanbeyan (Reticulator) | 18.2 | Yes* | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 18 | Dubbo | 21.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 19 | Orange | 17.0 | Yes* | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 21 | Bathurst Regional | 18.7 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 22 | Lismore (Reticulator) | 16.9 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes* | Yes | Yes | 100 |
| 23 | Bega Valley (Unfiltered) | 23.5 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 24 | Ballina (Reticulator) | 18.3 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 25 | Kempsey (Groundwater) | 14.7 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 26 | Country Energy | 17.6 | Yes | Yes | Yes | | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | 100 | |
| 27 | Byron (Reticulator) | 18.8 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 28A | Goldenfields (Reticulator) (NO SGE) | 6.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 70 | | | | | | | | | | | | |
| 28B | Goldenfields (Bulk) (NO SGE) | 6.7 | Yes | Yes | | | Yes | | | | | | | 57 | | | | | | | | | | | | |
| % of LWUs 'Yes' (>10,000 connected properties) | | | 100% | 96% | 89% | 59% | 85% | 96% | 93% | 89% | 100% | 89% | 90% | Overall | | 100% | 100% | 100% | 96% | 100% | 100% | 100% | 100% | 100% | 100% | Overall |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Goulburn Mulwaree | 15.5 | | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 |
| 29 | Armidale Dumaresq | 11.6 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 |
| 30 | Griffith | 13.8 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 30A | Hawkesbury (NO WS) | 16.4 | | | | | | | | | | | | | | Yes* | Yes | Yes | | Yes* | Yes | Yes | | | 67 | |
| 31 | Lithgow | 8.0 | Yes | Yes | Yes | | Yes | | Yes | Yes | Yes | Yes | Yes | 80 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | |
| 32 | Mid-Western Regional | 7.6 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | | Yes | | Yes | Yes | Yes | 67 | |
| 33 | Richmond Valley | 12.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes* | Yes | Yes | 100 | |
| 34 | Nambucca (Groundwater) | 7.2 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 35 | Singleton | 7.3 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 36 | Parkes | 9.2 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 37 | Inverell | 5.7 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 67 | |
| 38 | Moree Plains (Groundwater) | 7.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 39 | Cowra | 7.4 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 78 | |
| 40 | Central Tablelands (NO SGE) | 4.1 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | | | | | | | | | |
| 41 | Muswellbrook | 9.1 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 42 | Corowa | 6.3 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | 89 | |
| 43 | Tumut | 5.2 | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 44 | Gunnedah (Groundwater) | 4.3 | Yes* | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | |
| 45 | Upper Hunter | 5.4 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | |

Table 3: 2009-10 best-practice management compliance (continued)

| WATER UTILITY (sorted on connected properties) | | WATER SUPPLY & SEWERAGE REVENUE (\$M) | WATER SUPPLY | | | | | | | | | | SEWERAGE | | | | | | | | | | | | |
|---|------------------------------------|--|--|--|---|---|--|--|--|--|---|---|---|--|--|--|---|--|--|---|---|---|--|---------------------------------------|---------|
| | | | COMPLIANCE WITH BPM CRITERIA (see Note 1) | | | | | | | | | | COMPLIANCE WITH BPM CRITERIA (see Note 1) | | | | | | | | | | | | |
| | | | (1) Strategic Business Plan Complete Current 20 to 30-year SBP & FP (Yes/No) | (2) Pricing and Developer Charges (Yes/No) | | | | | (3) Sound Water Conservation Plan implemented (Yes/No) | (4) Sound Drought Management Plan implemented (Yes/No) | (5) Complete performance Reporting by 15 September each year (Yes/No) | (6) Integrated Water Cycle Management Strategy Commenced (Yes/No) | Overall compliance with all 10 required Criteria (Note 2) (%) | Proposed Dividend from Surplus \$'000 | (1) Strategic Business Plan Complete Current 20 to 30-year SBP & FP (Yes/No) | (2) Pricing and Developer Charges (Yes/No) | | | | | (3) Complete performance Reporting by 15 September each year (Yes/No) | (4) Integrated Water Cycle Management Strategy Commenced (Yes/No) | Overall compliance with all 9 required Criteria (Note 3) (%) | Proposed Dividend from Surplus \$'000 | |
| (2a) Full cost-recovery, minimal cross subsidies | (2b) Complying Residential Charges | (2c) Revenue from Residential Usage Charges >=75% (Note 8) | (2d) Complying Non-Residential Charges | (2e) DSP with Commercial Developer Charges | (2f) Sound Water Conservation Plan implemented (Yes/No) | (2g) Sound Drought Management Plan implemented (Yes/No) | (2h) Complete performance Reporting by 15 September each year (Yes/No) | (2i) Integrated Water Cycle Management Strategy Commenced (Yes/No) | (2j) Overall compliance with all 10 required Criteria (Note 2) (%) | (2k) Proposed Dividend from Surplus \$'000 | (2l) Strategic Business Plan Complete Current 20 to 30-year SBP & FP (Yes/No) | (2m) Full cost-recovery, minimal cross subsidies | (2n) Complying Residential Charges | (2o) Complying Non-Residential Charges | (2p) Complying Trade Waste Fees & Charges | (2q) DSP with commercial developer charges | (2r) Liquid trade waste regulation policy and approvals implemented | (2s) Complete performance Reporting by 15 September each year (Yes/No) | (2t) Integrated Water Cycle Management Strategy Commenced (Yes/No) | (2u) Overall compliance with all 9 required Criteria (Note 3) (%) | (2v) Proposed Dividend from Surplus \$'000 | | | | |
| 46 | Narrabri (Groundwater) | 4.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes* | Yes | Yes | 78 | | | | |
| 47 | Bellingen (Unfiltered) | 3.9 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | | | | |
| 48 | Leeton | 5.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes* | Yes | Yes | 100 | | | | |
| 49 | Young (Reticulator) | 4.3 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes ^e | | | 67 | | | | |
| 50 | Cooma-Monaro | 5.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes | | Yes | 67 | | | | |
| 51 | Forbes | 4.3 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 52 | Snowy River (Unfiltered) | 5.7 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 53 | Berrigan (Dual Supply) | 3.9 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 44 | | | | |
| 54 | Deniliquin | 4.1 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 55 | Warrumbungle | 3.5 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | | | | |
| % of LWUs 'Yes' (3,001 - 10,000 connected properties) | | | 96% | 100% | 100% | 36% | 100% | 96% | 96% | 100% | 93% | 82% | 90% | Overall | 96% | 93% | 100% | 64% | 79% | 93% | 89% | 93% | 79% | 87% | Overall |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | Yass Valley | 6.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | |
| 57 | Wellington | 3.8 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | |
| 58 | Cootamundra (Reticulator) | 2.6 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 59 | Lachlan | 7.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 60 | Glen Innes Severn | 2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 61 | Liverpool Plains | 2.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 70 | Yes | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | 78 | | | | |
| 62 | Narramine (Groundwater) | 2.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 63 | Narrandera (Groundwater) | 2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 56 | | | | |
| 65 | Murray (Dual Supply) | 3.2 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 67 | Cobar | 1.8 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 66 | Cobar WB | 1.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | Tenterfield | 3.5 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | | | | |
| 69 | Temora (NO WS) | 0.6 | | | | | | | | | | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 56 | | | | |
| 70 | Kyogle | 2.0 | Yes* | Yes | Yes | Yes* | Yes | Yes ^e | Yes | Yes | Yes | 100 | Yes* | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | 100 | | | | |
| 71 | Palerang | 4.0 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 67 | | | | |
| 72 | Bland (NO WS) | 0.9 | | | | | | | | | | | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 67 | | | | |
| 73 | Upper Lachlan | 2.4 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | | | | |
| 74 | Wentworth (Dual Supply) | 3.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 90 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 56 | | | | |
| 75 | Coonamble (Groundwater) | 0.9 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | 80 | Yes* | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | 56 | | | | |
| 76 | Harden (Reticulator) | 2.2 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 70 | Yes* | Yes | Yes | Yes | Yes | Yes* | Yes | Yes | 67 | | | | |
| % of LWUs 'Yes' (1,501 - 3,000 connected properties) | | | 94% | 100% | 100% | 76% | 100% | 76% | 82% | 94% | 100% | 53% | 88% | Overall | 95% | 95% | 100% | 89% | 63% | 74% | 58% | 95% | 47% | 80% | Overall |
| <i>LWUs with 200 - 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | Junee (NO WS) | 0.6 | | | | | | | | | | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 44 | | | | |
| 78 | Blayney (NO WS) | 1.1 | | | | | | | | | | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | | | | |
| 79 | Walgett (Dual Supply) | 1.9 | | | | | | | | | | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 80 | Greater Hume | 1.7 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 67 | | | | |
| 81 | Gwydir | 2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 89 | | | | |
| 82 | Gloucester | 2.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 83 | Oberon (Reticulator) | 1.6 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 60 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 84 | Gilgandra (Groundwater) | 1.3 | Yes | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | 89 | | | | |
| 85 | Uralla | 1.1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 70 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 86 | Hay (Dual Supply) | 1.7 | Yes | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 78 | | | | |
| 87 | Bourke (Dual Supply) | 2.0 | Yes | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | 78 | | | | |
| 88 | Wakool (Dual Supply) | 1.8 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 80 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 44 | | | | |
| 89 | Bogan | 1.3 | Yes | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | Yes | 90 | Yes | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | 89 | | | | |
| 90 | Guyra | 1.5 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | 70 | Yes | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | 78 | | | | |
| 91 | Cabonne | 2.3 | Yes | Yes | Yes | Yes* | Yes | Yes | Yes | Yes | Yes | 100 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | | | |
| 92 | Carrathool (Groundwater) | 1.3 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 70 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 22 | | | | |
| 93 | Tumbarumba | 1.1 | Yes* | Yes | Yes | Yes | Yes | Yes ^e | Yes | Yes | Yes | 90 | Yes* | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | 100 | | | | |

Table 3: 2009-10 best-practice management compliance (continued)

| WATER UTILITY (sorted on connected properties) | | WATER SUPPLY | | | | | | | | | | | SEWERAGE | | | | | | | | | | | |
|---|--|---|--|--|---|--|--|---|--|--|---|---|--|-----------------------------------|--|---|---|--|---|--|---|--|---|---------|
| | | COMPLIANCE WITH BPM CRITERIA (see Note 1) | | | | | | | | | | | | | COMPLIANCE WITH BPM CRITERIA (see Note 1) | | | | | | | | | |
| | | (1) Strategic Business Plan | (2) Pricing and Developer Charges (Yes/No) | | | | | (3) Sound Water Conservation Plan implemented (Yes/No) | (4) Sound Drought Management Plan implemented (Yes/No) | (5) Complete performance Reporting by 15 September each year (Yes/No) | (6) Integrated Water Cycle Management Strategy Commenced (Yes/No) | Overall compliance with all 10 required Criteria (Note 2) (%) | Proposed Dividend from Surplus \$'000 | (1) Strategic Business Plan | (2) Pricing and Developer Charges (Yes/No) | | | | | (3) Complete performance Reporting by 15 September each year (Yes/No) | (4) Integrated Water Cycle Management Strategy Commenced (Yes/No) | Overall compliance with all 9 required Criteria (Note 3) (%) | Proposed Dividend from Surplus \$'000 | |
| Complete Current 20 to 30-year SBP & FP (Yes/No) | (2a) Full cost- recovery, minimal cross subsidies | | (2b) Complying Residential Charges | (2c) Revenue from Residential Usage Charges >=75% (Note 8) | (2d) Complying Non- Residential Charges | (2e) DSP with Commercial Developer Charges | (2a) Full cost- recovery, minimal cross subsidies | | | | | | | | (2b) Complying Residential Charges | (2c) Complying Non- Residential Charges | (2d) Complying Trade Waste Fees & Charges | (2e) DSP with commercial developer charges | (2f) Liquid trade waste regulation policy and approvals implemented | | | | | |
| 94 | Gundaqai | 0.9 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 70 | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 67 | | |
| 95 | Weddin (NO WS) | 0.2 | | | | | | | | | | Yes* | Yes | Yes | Yes | | Yes ^a | Yes | Yes | Yes | Yes | 78 | | |
| 96 | Warren (Dual Supply) | 1.0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100 | | Yes | Yes | Yes | Yes | | Yes ^a | Yes | Yes | Yes | Yes | 67 | | |
| 97 | Bombala | 0.8 | | Yes | Yes | | | | | 60 | | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 67 | | |
| 98 | Walcha | 0.8 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | 70 | | Yes* | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | 89 | | |
| 99 | Coolamon (NO WS) | 0.4 | | | | | | | | | | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 56 | | |
| 100 | Balranald (Dual Supply) | 0.8 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes* | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 56 | | |
| 101 | Murrumbidgee (Groundwater) | 0.6 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | 30 | | Yes* | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 33 | | |
| 102 | Lockhart (NO WS) | 0.3 | | | | | | | | | | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | 78 | | |
| 103 | Central Darling (Dual Supply) | 0.7 | | Yes | Yes | Yes | Yes | Yes | Yes ^e | 70 | | | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | Yes | Yes | 44 | | |
| 104 | Boorowa | 0.9 | | Yes | Yes | Yes | Yes | Yes | Yes ^c | 70 | | | Yes | Yes | Yes | Yes | Yes ^a | Yes | Yes | Yes | Yes | 67 | | |
| 105 | Brewarrina | 1.0 | Yes | | | | | | | 60 | | Yes | | | | | Yes ^a | Yes | Yes | Yes | Yes | 33 | | |
| 106 | Jerilderie (Dual Supply) | 0.6 | Yes* | Yes | Yes | Yes | Yes | Yes | Yes | 80 | | Yes* | Yes | Yes | Yes | | Yes ^a | Yes | Yes | Yes | Yes | 56 | | |
| 107 | Urana (NO WS) | 0.2 | | | | | | | | | | Yes* | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | 67 | | |
| % of LWUs 'Yes' (200 - 1,500 connected properties) | | 68% | 88% | 92% | 68% | 84% | 68% | 80% | 88% | 88% | 52% | 78% | Overall | 74% | 90% | 94% | 58% | 52% | 61% | 58% | 90% | 52% | 70% | Overall |
| TOTAL 'YES' for large LWUs (>\$10M Revenue) ^b | | 29 | 29 | 28 | 18 | 27 | 29 | 29 | 28 | 30 | 28 | 18 | | 27 | 27 | 27 | 25 | 27 | 27 | 27 | 27 | 27 | 24 | |
| % of Large LWUs (30 WS LWUs and 27 SGE LWUs) | | 97% | 97% | 93% | 60% | 90% | 97% | 97% | 93% | 100% | 93% | 60% | | 100% | 100% | 100% | 93% | 100% | 100% | 100% | 100% | 100% | 89% | |
| TOTAL 'YES' for remainder of LWUs (<\$10M Revenue) ^b | | 57 | 63 | 64 | 38 | 62 | 52 | 57 | 62 | 61 | 41 | 17 | | 63 | 67 | 71 | 50 | 46 | 53 | 49 | 67 | 43 | 20 | |
| % of Small LWUs (66 WS LWUs and 73 SGE LWUs) | | 86% | 95% | 97% | 58% | 94% | 79% | 86% | 94% | 92% | 62% | 26% | | 86% | 92% | 97% | 68% | 63% | 73% | 67% | 92% | 59% | 27% | |
| TOTAL 'YES' for all LWUs | | 86 | 92 | 92 | 56 | 89 | 81 | 86 | 90 | 91 | 69 | 35 | | 90 | 94 | 98 | 75 | 73 | 80 | 76 | 94 | 70 | 44 | |
| % all LWUs | | 89% | 95% | 98% | 60% | 95% | 84% | 89% | 93% | 94% | 71% | 36% | | 90% | 94% | 98% | 75% | 73% | 80% | 76% | 94% | 70% | 44% | |

Overall Compliance for all WS Businesses 86%

Overall Compliance for all SGE Businesses 83%

Notes:

- Best Practice Management criteria are set out in "Best Practice Management of Water Supply and Sewerage Guidelines August 2007" (BPMG).
- There are 10 criteria which must be satisfied for an LWU to achieve compliance for water supply. These are (1), (2a), (2b), (2c), (2d), (2e), (3), (4), (5) and (6) shown in the table above for water supply.
- There are 9 criteria which must be satisfied for an LWU to achieve compliance for sewerage. These are (1), (2a), (2b), (2c), (2d), (2e), (2f), (3) and (4) shown in the table above for sewerage.
- Compliances shown in the table above are from Notes 2 or 3 of the Special Purpose Financial Reports reported by each LWU in their Annual Financial Statements, supplemented by other data provided to the NSW Office of Water by the LWU. Complying documents (including strategic business plans and IWCM evaluations and strategies) provided by LWUs to the NSW Office of Water by February 2011 are included in the results reported.
- As shown in Table 8C of the 2009-10 NSW Water Supply and Sewerage Benchmarking Report, 56 LWUs have completed an IWCM Evaluation, 30 of which have also completed an IWCM Strategy. These IWCM Evaluations and Strategies have been reviewed by the NSW Office of Water and found to be soundly based. Similarly, the strategic business plans and trade waste waste policies shown as Yes above have been found to be soundly based. However, the water conservation and drought management plans have only been briefly examined to confirm that they address the required issues.
- The revenue for LWUs with water supply only or sewerage only is shown left justified above. For these LWUs, the relevant revenue to be classified as a "large LWU" is \$5M.
- Where an LWU has not yet reported its revenue for 2009-10, the revenue reported for 2008-09 is shown instead. This is shown in italics bold.
- For criterion (2c) utilities with over 4,000 connected properties which obtained 70% to 74% of residential revenue from usage charges are shown as Yes*. Utilities with 4,000 or fewer connected properties are only required to achieve 50% for criterion (2c). Such utilities which have obtained 45% to 49% residential revenue from water usage charges are shown as Yes*. Bulk water suppliers are not required to comply with criteria 2(b), 2(c) or 2(d) which refer to residential water tariffs.
- Yes* for criterion (1) indicates that the LWU's strategic business plan and financial plan need to be updated.
- Yes* for criterion (2e) for water supply or for sewerage indicates that the LWU has commercial developer charges in place but is yet to complete its complying Development Servicing Plan (DSP). Yes^e for these criteria indicates the LWU is exempt from the requirement to prepare a DSP due to low growth (under 5 lots/a).
- Yes* for criterion (2f) for sewerage indicates that the LWU has a year 2006 or earlier trade waste policy, which needs to be updated.
- As shown above, the overall levels of compliance with the outcomes of the Best-Practice Management Criteria for water supply (for all 10 criteria) were: 90% for LWUs with >10,000 properties; 90% for LWUs with 3,001 - 10,000 properties; 88% for LWUs with 1,501 - 3,000 properties and 78% for LWUs with 200 - 1,500 properties respectively. The overall level of compliance for water supply for all LWUs was 86%.
- As shown above, the overall levels of compliance with the outcomes of the Best-Practice Management Criteria for sewerage (for all 9 criteria) were: 100% for LWUs with >10,000 properties; 87% for LWUs with 3,001 - 10,000 properties; 80% for LWUs with 1,501 - 3,000 properties and 70% for LWUs with 200 - 1,500 properties respectively. The overall level of compliance for sewerage for all LWUs was 83%.
- The overall compliance for water supply and sewerage was 85%.

Table 4: Trends in statewide performance indicators – Water Supply 1991 to 2009-10

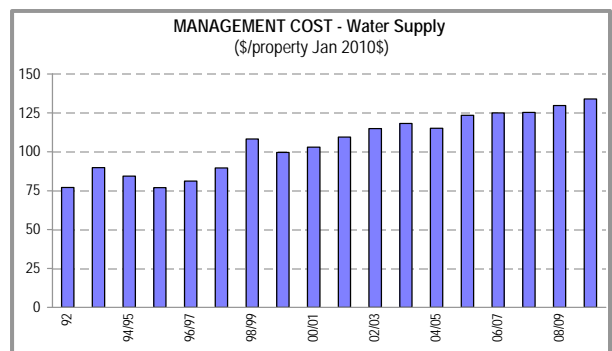
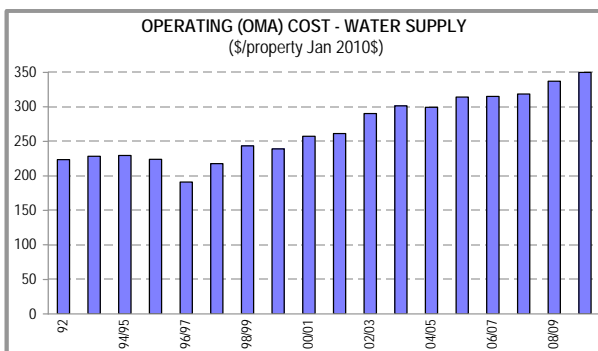
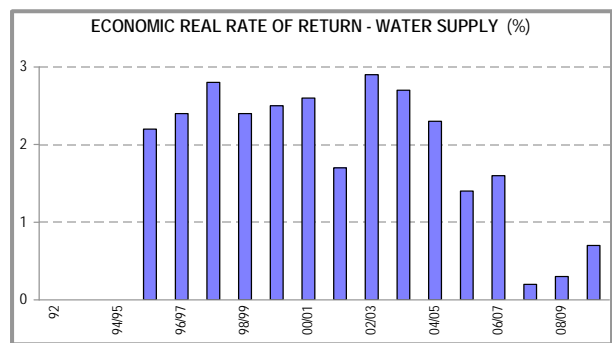
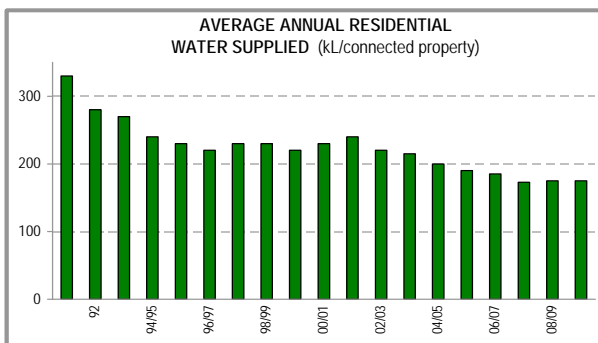
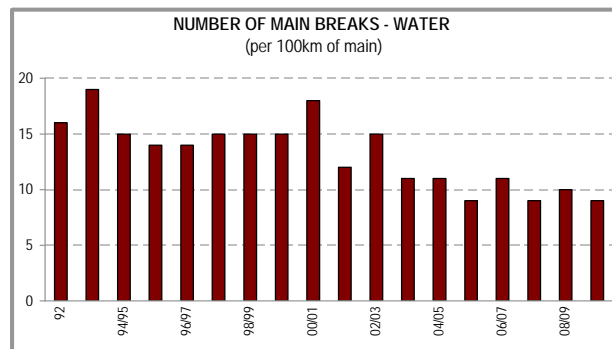
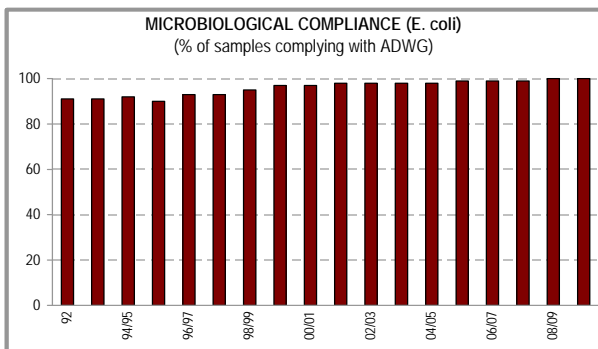
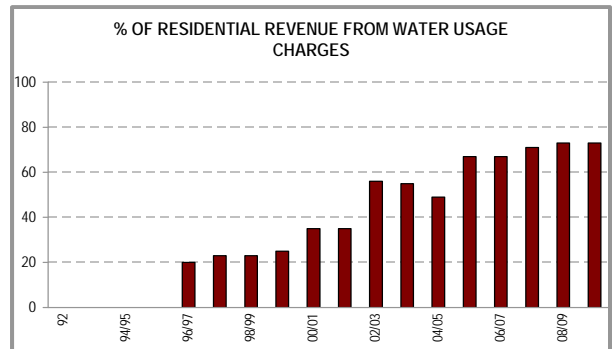
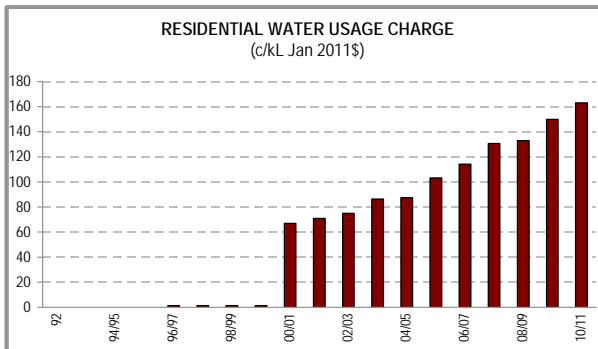
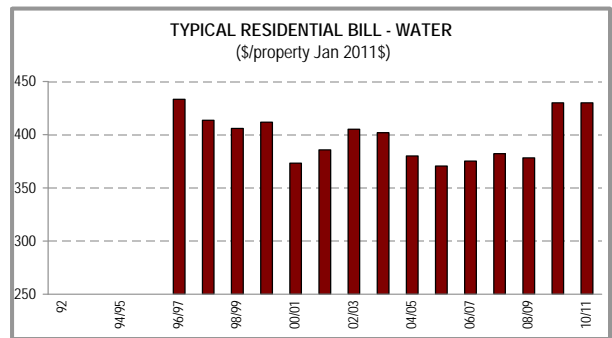
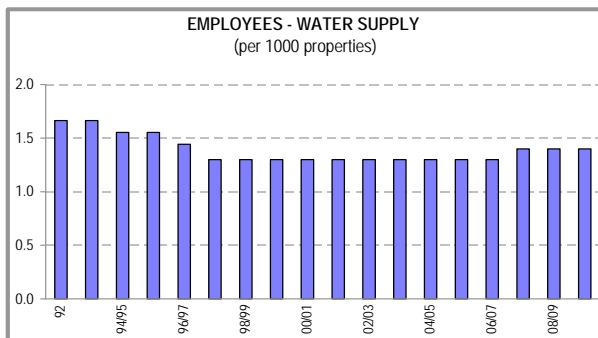
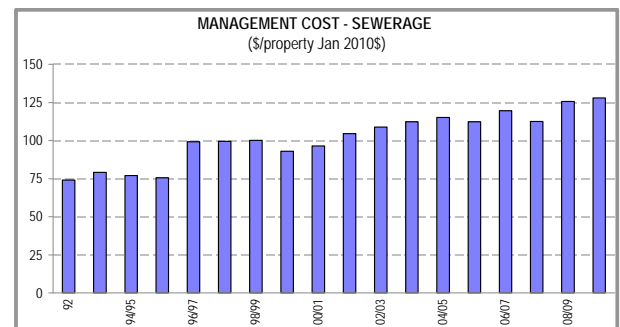
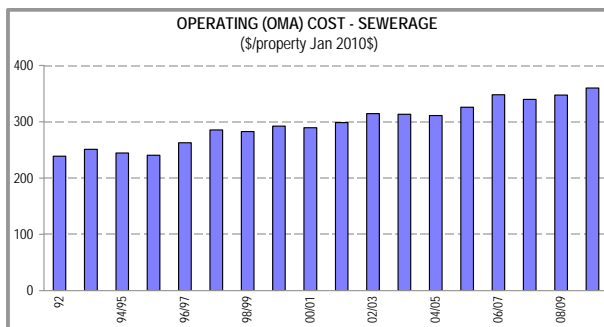
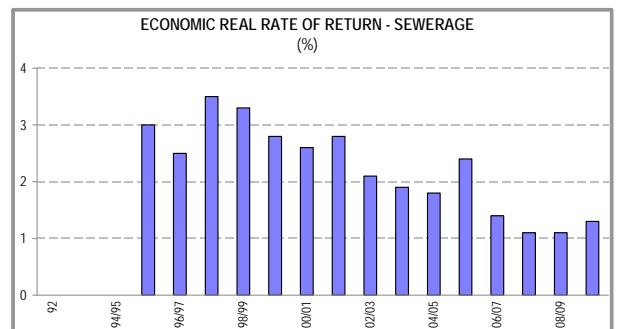
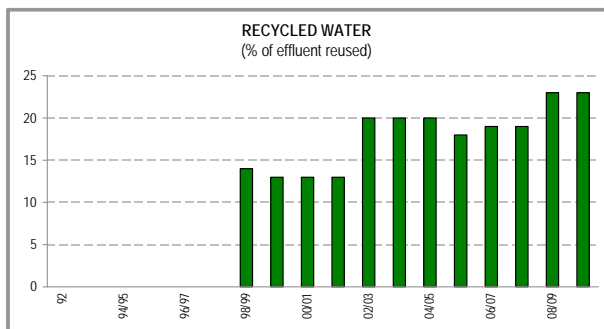
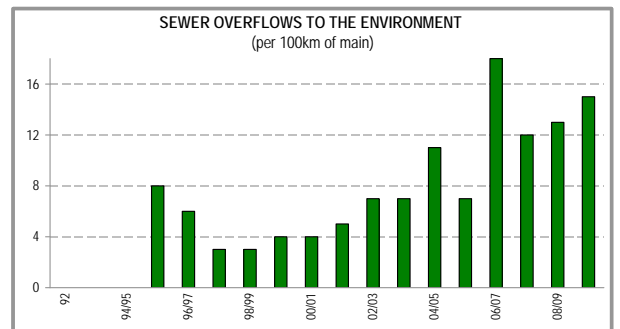
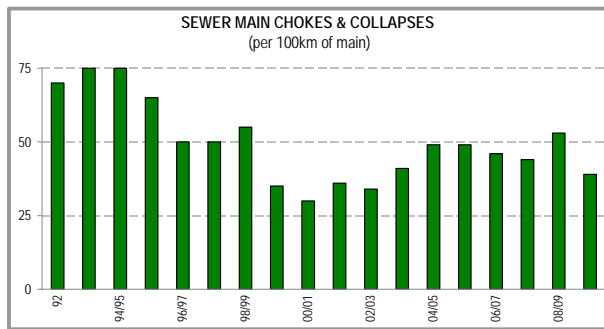
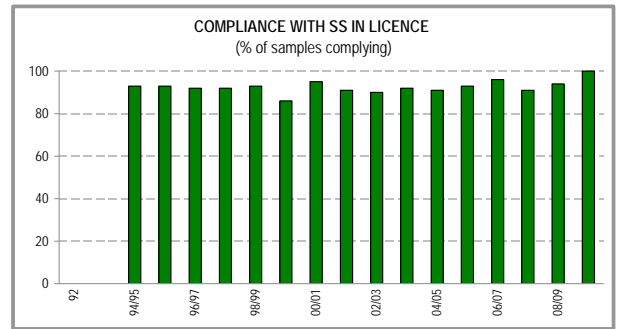
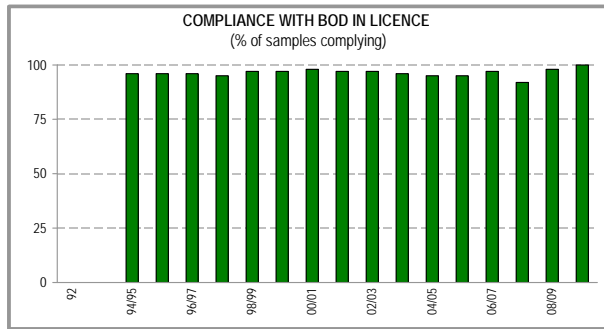
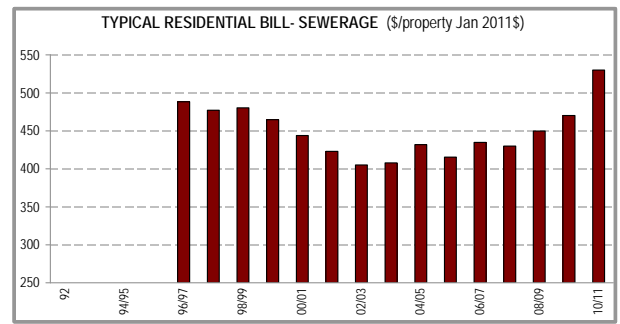
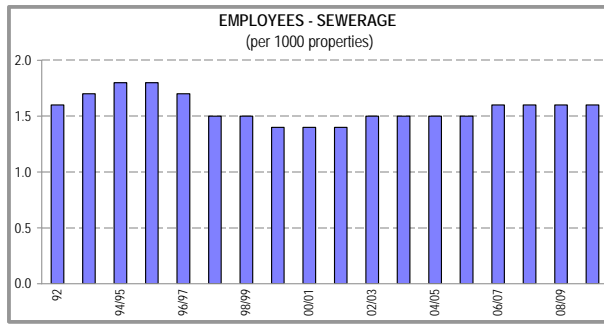


Table 4: Trends in statewide performance indicators – Sewerage 1991 to 2009-10



Notes:

1. The values shown are Statewide medians on a percentage of connected properties basis from 1992 to 2009/10, except for microbiological, BOD and SS compliance which are the percentage of samples complying, and % of effluent recycled, which is the Statewide total for non-metropolitan NSW.
2. From 1998/99, results are on the basis of E. coli in the 1996/2004 NHMRC/NRMMC Australian Drinking Water Guidelines. 1991 to 1997/98 results are on the basis of the 1987 NHMRC/AWRC Drinking Water Guidelines for Total Coliforms.

Table 5: 2009-10 NSW water utility performance summary

| WATER UTILITY | Water Supply | | | | | | | | | | Sewerage | | | | | Water Supply & Sewerage - Current (2009-10) unless noted as 2010/11 | | | | | | | | | | | | |
|----------------------------|--|--|---|---------------------------------------|--|------------------------------|--|------------|---------------------|------------|--------------------------------------|---|-------------------------------|--------------------------------------|--|---|---|----------------------------|--|--|--|----------------------------------|-------------------------------------|----------|------------------------|---------------------|--------|---|
| | Water Supply Connected Properties (No.) ³ | Total Water Supplied Potable + Non-potable + Recycled Excl Bulk Supply (ML) ^{2,3} | Average Annual Residential Water Supplied Potable + Non-potable (kL/connected property) | Water Main Breaks (per 100km of Main) | Avge Duration of Unplanned Interruption (mins) | Revenue (\$M) ^{3,8} | Water Quality Compliance (2004 NHMRC/NRMMC Guidelines) | | | | | Water Quality Complaints (per 1000 props) | Revenue (\$M) ^{23,8} | % Sge Treated that was Compliant (%) | Sewer Overflows (No per 100km of Main) | Sewage Odour Complaints (per 1000 properties) | Recycled Water (% of effluent recycled) | Net Profit After Tax (\$M) | 2010/11 Typical Residential Bill (\$/assessment) | 2010/11 Typical Developer Charge (\$/ET) | Current Replacement Cost per Assessment (\$) | OMA Cost (\$/connected property) | Mngmnt Cost (\$/connected property) | ERRR (%) | Net Debt to Equity (%) | Capital Expenditure | | Strategic Business Plans Completed ? <small>Note 14 (Yes/No)</small> |
| | | | | | | | Chemical Note 11 (%) | Zones (7a) | E. coli Note 12 (%) | Zones (8a) | % Pop'n with E. coli Compliance (8b) | | | | | | | | | | | | | | | (\$/prop) | (\$M) | |
| | (1) C4 | (2) W11 | (3) W12 | (3a) A8 | (3b) C15 | (4) F1 | (7) | (7a) H4 | (8) | (8a) H2 | (8b) H3 | (8c) C9 | (9) F2 | (10) E4 | (10a) See also E13 in Table 15 | (11) | (12) W27 | (12a) W26 | (13a) F24 | (13b) P8 | (14) | (15) | (17) F13 | (18) | (19) F19 | (19a) F22 | (19b) | (19c) F16 |
| Sydney Water | 1,772 | 505,650 | 205 | 28 | 140 | 1,073 | 100 | 13 of 13 | 100 | 13 of 13 | 100 | 0.3 | 1,075 | 97 | 0.2 | 7 | 33,683 | 446 | | | | 556 | | 1.9 | 120 | | 1255.9 | |
| Hunter Water | 225 | 68,233 | 184 | 32 | 119 | 113 | 100 | 5 of 5 | 100 | 5 of 5 | 100 | 3.4 | | 95 | | 10 | 5,348 | 45 | | | | 496 | | 2.5 | 39 | | 159.9 | |
| Sydney Catchment Authority | | 496,226 | | | | 196 | | | | | | NO SGE | | | | | | | | | | | | | | | 54.4 | |

LWUs with > 10,000 Properties

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|---------|-----|----|-------|------|---|----------|-----|----------|-----|-----|--------|-----|----|-----|-----|--------|------|-------|--------|--------|-------|-------|------|-----|-------|------|------|
| 1 | Gosford | 70,270 | 13,610 | 146 | 34 | 230 | 32.9 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 39 | 36.7 | 100 | 37 | 1.6 | 3 | 362 | 2.1 | 849 | 6,760 | 17,321 | 666 | 262 | 1.0 | 3 | 836 | 58.3 | Yes |
| 2 | Wyong | 59,820 | 13,900 | 154 | 6 | 204 | 46.3 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 5.1 | 29.0 | 100 | 31 | 0.9 | 7 | 1,024 | -4.9 | 846 | 5,230 | 20,900 | 718 | 310 | 0.5 | 11 | 1,031 | 61.6 | Yes |
| 3 | Shoalhaven | 45,860 | 15,230 | 145 | 9 | 112 | 19.7 | 100 | 4 of 4 | 100 | 4 of 4 | 100 | 0.6 | 32.7 | 83 | 39 | 0.3 | 35 | 2,429 | 7.3 | 901 | 14,060 | 23,395 | 701 | 274 | 1.1 | 3 | 999 | 42.3 | Yes |
| 4 | Rous (Bulk Supplier) (NO SGE) | 45,660 | 1,570 | | 21 | 180 | 16.5 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.4 | NO SGE | | | | | | -6.3 | | 7,490 | 9,794 | 204 | 94 | -0.4 | 10 | 109 | 5.0 | Yes* |
| 5 | MidCoast (Unfiltered) | 36,320 | 9,160 | 154 | 3 | - | 23.4 | 92 | 3 of 4 | 100 | 4 of 4 | 100 | 12 | 31.6 | 99 | 5 | 0.9 | 11 | 729 | 1.9 | 1,329 | 13,730 | 31,953 | 732 | 156 | 1.7 | 30 | 1,167 | 41.3 | Yes |
| 6 | Tweed | 31,180 | 10,450 | 176 | 3 | 120 | 20.6 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 2.9 | 26.3 | 93 | 3 | 0.1 | 9 | 822 | -1.8 | 964 | 16,320 | 34,245 | 807 | 322 | 0.0 | 2 | 2,974 | 92.1 | Yes |
| 7 | Port Macquarie-Hastings (Unfiltered) | 28,920 | 6,500 | 166 | 2 | 236 | 23.6 | 100 | 5 of 5 | 100 | 5 of 5 | 100 | 8 | 19.6 | 58 | 16 | 0.2 | 5 | 369 | 10.2 | 1,097 | 13,020 | 28,946 | 675 | 222 | 1.7 | 0 | 778 | 20.9 | Yes |
| 8 | Riverina (Groundwater) (NO SGE) | 28,620 | 15,850 | 330 | 10 | 206 | 18.6 | 100 | 10 of 14 | 100 | 14 of 14 | 100 | 3.0 | NO SGE | | | | | | 2.5 | 377 | 3,600 | 8,526 | 312 | 94 | 3.4 | -5 | 233 | 6.7 | Yes* |
| 10 | Coffs Harbour (Unfiltered) | 24,050 | 6,620 | 186 | 11 | 120 | 32.3 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 3.5 | 24.6 | 100 | 4 | 1.8 | 16 | 1,029 | 19.9 | 1,233 | 17,140 | 31,912 | 785 | 298 | 4.5 | 24 | 844 | 19.5 | Yes |
| 11 | Albury | 22,560 | 6,800 | 220 | 7 | 200 | 9.2 | 81 | 0 of 1 | 100 | 1 of 1 | 100 | 1.1 | 14.9 | 92 | 3 | 0.0 | 100 | 4,358 | 1.0 | 675 | 7,560 | 28,998 | 654 | 247 | 0.4 | 4 | 0 | | Yes* |
| 12 | Fish River WS (Unfiltered, Bulk Supplier) | 23,500 | 1,460 | | 2 | 1,440 | 7.2 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.0 | NO SGE | | | | | | 0.0 | | | 0 | 31 | | | | | | Yes* |
| 13 | Tamworth Regional | 20,630 | 9,440 | 256 | 5 | - | 15.7 | 100 | 6 of 7 | 100 | 6 of 7 | 99 | - | 21.2 | 99 | 11 | 0.9 | 38 | 1,850 | 17.0 | 1,196 | 5,910 | 24,944 | 784 | 234 | 4.2 | -1 | 2,789 | 52.3 | Yes |
| 14 | Clarence Valley | 20,960 | 6,740 | 174 | 16 | - | 12.1 | 89 | 4 of 5 | 100 | 4 of 5 | 99 | 9 | 11.7 | 70 | 20 | 2.4 | 5 | 165 | 1.3 | 1,056 | 11,600 | 22,450 | 673 | 294 | 1.0 | 8 | 1,742 | 26.0 | Yes |
| 15 | Eurobodalla (Unfiltered) | 19,350 | 4,320 | 116 | 6 | - | 13.8 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | - | 14.9 | 100 | 34 | 0.7 | 10 | 370 | 9.3 | 1,224 | 19,450 | 27,546 | 781 | 298 | 2.0 | 2 | 1,275 | 24.1 | Yes |
| 16 | Wingecarribee | 18,140 | 4,860 | 190 | 12 | - | 10.9 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 6 | 10.8 | 97 | 55 | 3.3 | 2 | 73 | -0.6 | 947 | 13,300 | 33,049 | 676 | 281 | 0.8 | 1 | 1,070 | 16.0 | Yes |
| 17 | Queanbeyan (Reticulator) | 15,940 | 4,280 | 200 | 0 | 180 | 12.0 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | - | 6.2 | 100 | 2 | 0.0 | 1 | 47 | -2.5 | 1,037 | 8,930 | 24,672 | 819 | 225 | -1.8 | -15 | 106 | 1.7 | Yes* |
| 18 | Dubbo | 16,860 | 7,690 | 329 | 4 | 138 | 11.0 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.6 | 10.2 | 92 | 2 | 0.6 | 78 | 2,281 | 3.3 | 1,217 | 9,560 | 27,911 | 797 | 316 | 1.1 | 3 | 421 | 6.9 | Yes |
| 19 | Orange | 16,130 | 6,930 | 148 | 11 | 180 | 9.7 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 1.7 | 7.3 | 100 | 82 | 1.5 | 90 | 3,033 | -1.3 | 740 | 10,580 | 27,015 | 581 | 253 | 0.1 | -11 | 279 | 4.5 | Yes* |
| 20 | Goulburn Mulwaree | 10,230 | 2,210 | 136 | 14 | 180 | 7.2 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 3.6 | 8.3 | 100 | 0 | 1.4 | 80 | 1,261 | 3.1 | 1,167 | 5,910 | 37,810 | 765 | 228 | 1.5 | 5 | 590 | 5.9 | Yes* |
| 21 | Bathurst Regional | 14,680 | 6,000 | 252 | 9 | 120 | 10.8 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 17 | 7.9 | 100 | 6 | 0.0 | 100 | 3,636 | 2.5 | 853 | 5,300 | 25,080 | 775 | 324 | 1.3 | -11 | 213 | 3.1 | Yes |
| 22 | Lismore (Reticulator) | 14,060 | 3,790 | 168 | 23 | 271 | 8.4 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 3.6 | 8.5 | 100 | 4 | 0.8 | 1 | 30 | -0.2 | 1,113 | 9,730 | 39,088 | 789 | 185 | -1.1 | -5 | 564 | 7.2 | Yes |
| 23 | Bega Valley (Unfiltered) | 14,060 | 4,210 | 165 | 4 | 180 | 9.8 | 100 | 5 of 6 | 100 | 6 of 6 | 100 | 2.2 | 13.7 | 95 | 30 | 0.4 | 41 | 827 | 3.8 | 1,525 | 20,520 | 27,552 | 1,061 | 416 | 1.9 | -4 | 362 | 4.9 | Yes |
| 24 | Ballina (Reticulator) | 14,350 | 4,770 | 188 | 13 | 120 | 7.7 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 3.0 | 10.6 | 96 | 2 | 0.3 | 19 | 768 | 2.6 | 978 | 11,400 | 23,286 | 990 | 300 | -0.8 | -10 | 613 | 8.1 | Yes |
| 25 | Kempsey (Groundwater) | 12,400 | 3,770 | 177 | 11 | 159 | 7.9 | 100 | 7 of 7 | 100 | 7 of 7 | 100 | 1.3 | 6.8 | 76 | 26 | 0.6 | 2 | 55 | -2.7 | 1,122 | 15,470 | 50,756 | 806 | 283 | 0.0 | 6 | 1,078 | 11.2 | Yes |
| 26 | Country Energy | 10,470 | 5,930 | 280 | 12 | - | 12.7 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.1 | 4.9 | 100 | 6 | 0.8 | 46 | 622 | 3.0 | 1,007 | | 3,600 | 1,071 | 250 | 0.0 | 0 | 2,613 | 27.3 | Yes |
| 27 | Byron (Reticulator) | 10,770 | 3,170 | 194 | 12 | 120 | 6.7 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.2 | 12.1 | 98 | 7 | 2.1 | 15 | 477 | -1.1 | 1,300 | 16,990 | 31,114 | 993 | 280 | 1.4 | 18 | 2,798 | 28.4 | Yes |
| 28A | Goldenfields (Reticulator) (NO SGE) | 10,040 | 5,160 | 259 | 19 | 272 | 6.4 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 6.6 | NO SGE | | | | | | -0.7 | 528 | 7,500 | 10,318 | 694 | 165 | -1.1 | -9 | 116 | 1.2 | Yes |
| 28B | Goldenfields (Bulk Supplier) (NO SGE) | 18,830 | | | 0 | | 6.7 | 100 | 3 of 3 | 100 | 2 of 3 | 99 | | NO SGE | | | | | | 0.0 | | | 5,427 | 252 | 62 | -0.4 | -8 | 178 | 3.4 | Yes |
| <i>Totals or Medians (% of LWUs basis excl NO SGE suppliers) for >10,000</i> | | 587,000 | 184,420 | 176 | 10 | 180 | 420 | <i>24 of 27 complied with chemical guidelines 27 of 27 complied with E. coli guidelines</i> | | | | | | 371 | | | 0.8 | 15 | 26,600 | | 1,056 | 11,500 | 27,552 | 781 | 280.2 | 1.0 | 2 | 844 | 580 | |

LWUs with 3,001 - 10,000 Properties

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------------------------|-------|-------|-----|----|-----|-----|-----|--------|-----|--------|-----|-----|-----|-----|----|-----|----|-----|------|-------|--------|--------|-------|-----|------|-----|-------|-----|------|
| 29 | Armidale Dumaresq | 8,430 | 2,640 | 221 | 15 | - | 6.5 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.0 | 5.1 | 100 | 66 | 0 | 40 | 853 | 3.8 | 975 | 9,290 | 21,040 | 779 | 352 | 2.5 | -4 | 71 | 0.6 | Yes |
| 30 | Griffith | 8,280 | 7,740 | 584 | 19 | 120 | 7.6 | 100 | 1 of 2 | 100 | 2 of 2 | 100 | 1.2 | 6.2 | 39 | 1 | 0.0 | 9 | 188 | 3.7 | 1,259 | 5,200 | 27,119 | 1,062 | 419 | 1.3 | -4 | 505 | 4.0 | Yes |
| 31 | Lithgow | 8,030 | 1,500 | 135 | 23 | 120 | 4.0 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 38 | 4.0 | 75 | - | - | 0 | | 0.8 | 810 | 4,020 | 16,378 | 917 | 246 | -1.6 | -24 | 1,060 | 7.9 | Yes |
| 32 | Mid-Western Regional | 7,230 | 2,540 | 205 | 5 | 120 | 4.5 | 100 | 3 of 3 | 96 | 1 of 3 | 16 | 3 | 3.1 | 43 | - | 0 | 12 | 166 | -0.4 | 972 | 10,820 | 25,994 | 756 | 277 | -0.3 | -19 | 339 | 2.4 | Yes |
| 33 | Richmond Valley | 7,010 | 3,180 | 195 | 15 | - | 5.2 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.1 | 6.9 | 100 | 14 | 0.8 | 19 | 344 | 1.8 | 1,272 | 17,520 | 28,665 | 947 | 456 | 2.2 | -8 | 457 | 3.1 | Yes |
| 34 | Nambucca (Groundwater) | 6,260 | 1,530 | 143 | 4 | 120 | 2.9 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 1.3 | 4.3 | 45 | 17 | 0.9 | 8 | 131 | 5.3 | 671 | 8,650 | 28,107 | 632 | 233 | 1.6 | -72 | 106 | 0.6 | Yes* |

Table 5: 2009-10 NSW water utility performance summary (continued)

| WATER UTILITY | Water Supply | | | | | | | | | | | Sewerage | | | | | Water Supply & Sewerage - Current (2009-10) unless noted as 2010/11 | | | | | | | | | | | | |
|--|--|--|---|---------------------------------------|---|------------------------------|---|------------|---------------------|------------|--------------------------------------|---|--------------------------------|--------------------------------------|--|---|---|----------------------------|--|--|--|----------------------------------|------------------------------------|------------|------------------------|---------------------|------------|--|------|
| | Water Supply Connected Properties (No.) ² | Total Water Supplied Potable + Non-potable + Recycled Excl Bulk Supply (ML) ^{2,3} | Average Annual Residential Water Supplied Potable + Non-potable (kL/connected property) | Water Main Breaks (per 100km of Main) | Avg Duration of Unplanned Interruption (mins) | Revenue (\$M) ^{3,8} | Water Quality Compliance (2004 NHMRC/NRMGC Guidelines) | | | | | Water Quality Complaints (per 1000 props) | Revenue (\$M) ^{2,3,8} | % Sge Treated that was Compliant (%) | Sewer Overflows (No per 100km of Main) | Sewage Odour Complaints (per 1000 properties) | Recycled Water (% of effluent recycled) | Net Profit After Tax (\$M) | 2010/11 Typical Residential Bill (\$/assessment) | 2010/11 Typical Developer Charge (\$/ET) | Current Replacement Cost per Assessment (\$) | OMA Cost (\$/connected property) | Mngmt Cost (\$/connected property) | ERRR (%) | Net Debt to Equity (%) | Capital Expenditure | | Strategic Business Plans Completed? (Note 14 Yes/No) | |
| | | | | | | | Chemical Note 11 (%) | Zones (7a) | E. coli Note 12 (%) | Zones (8a) | % Pop'n with E. coli Compliance (8b) | | | | | | | | | | | | | | | (\$/prop) | (\$M) | | |
| | (1) C4 | (2) W11 | (3) W12 | (3a) A8 | (3b) C15 | (4) F1 | (7) | (7a) H4 | (8) | (8a) H2 | (8b) H3 | (8c) C9 | (9) F2 | (10) E4 | (10a) See also E13 in Table 15 | (11) | (12) W27 | (12a) W26 | (13a) F24 | (13b) P8 | (14) | (15) | (17) F13 | (18) | (19) F19 | (19a) F22 | (19b) F16 | (19c) F16 | (21) |
| 35 Singleton | 6,380 | 2,650 | 281 | 10 | 120 | 4.4 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 5.3 | 2.9 | 100 | 11 | 0.7 | 33 | 393 | 1.4 | 825 | 7,410 | 22,473 | 767 | 256 | 0.4 | -2 | 253 | 1.5 | Yes* |
| 36 Parkes | 5,880 | 6,730 | 344 | 11 | 120 | 6.7 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | - | 2.5 | 47 | - | 0.0 | 36 | 178 | 3.2 | 1,002 | 9,400 | 30,189 | 806 | 114 | 2.7 | -9 | 393 | 2.0 | Yes |
| 37 Inverell | 5,320 | 2,340 | 277 | 3 | 60 | 4.0 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 0.9 | 1.7 | 92 | 2 | 0 | 0 | 0 | 1.0 | 966 | 13,500 | 24,068 | 773 | 214 | 0.9 | -37 | 207 | 1.1 | Yes |
| 38 Moree Plains (Groundwater) | 4,460 | 3,530 | 619 | 33 | 180 | 4.0 | 100 | 6 of 6 | 100 | 5 of 6 | 93 | 1 | 3.1 | 100 | 3 | 0.0 | 65 | 746 | 0.1 | 1,728 | 8,160 | 27,139 | 1,081 | 297 | 1.3 | -1 | 1,862 | 8.1 | Yes |
| 39 Cowra | 5,250 | 2,790 | 202 | 12 | 180 | 4.7 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 15 | 2.7 | 75 | - | 100 | 698 | 0.6 | 1,116 | 11,410 | 28,148 | 1,012 | 550 | 1.6 | -9 | 1,615 | 6.4 | Yes | |
| 40 Central Tablelands (NO SGE) | 5,300 | 1,880 | 201 | 10 | 240 | 4.7 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 5 | NO SGE | | | | | -0.3 | 465 | 8,260 | 20,053 | 421 | 211 | 0.3 | -4 | 219 | 1.2 | Yes | |
| 41 Muswellbrook | 5,400 | 3,300 | 305 | 27 | 40 | 5.3 | 100 | 2 of 3 | 100 | 3 of 3 | 100 | 11 | 3.8 | 38 | 16 | 3.7 | 76 | 912 | 1.7 | 1,091 | 8,060 | 24,181 | 1,029 | 304 | 2.1 | -6 | 486 | 2.5 | Yes |
| 42 Corowa | 5,030 | 2,180 | 237 | 14 | 120 | 3.0 | 100 | 3 of 4 | 100 | 3 of 4 | 100 | 5 | 3.3 | 100 | 10 | 1.4 | 45 | 334 | 1.5 | 933 | 3,230 | 17,698 | 758 | 369 | 1.8 | -8 | | | Yes |
| 43 Tumut | 4,440 | 1,450 | 202 | 7 | 120 | 2.4 | 100 | 4 of 5 | 100 | 5 of 5 | 100 | 1 | 2.8 | 100 | 37 | 0 | 19 | 153 | 0.0 | 948 | 9,420 | 21,049 | 733 | 136 | 0.0 | -3 | 488 | 2.1 | Yes |
| 44 Gunnedah (Groundwater) | 4,640 | 2,300 | 338 | 19 | 120 | 3.0 | 100 | 4 of 4 | 100 | 3 of 4 | 99 | 0.9 | 1.3 | 60 | 81 | - | 75 | 605 | 1.4 | 799 | 6,430 | 25,281 | 457 | 181 | 1.4 | -1 | 351 | 1.5 | Yes* |
| 45 Upper Hunter | 4,380 | 3,050 | 448 | 20 | 45 | 3.5 | 100 | 4 of 4 | 100 | 4 of 4 | 100 | 1.1 | 1.9 | 100 | 0 | 0 | 10 | 165 | 0.6 | 1,271 | 7,640 | 20,166 | 885 | 314 | 0.0 | -57 | 301 | 1.3 | Yes |
| 46 Narrabri (Groundwater) | 4,380 | 2,290 | 544 | 82 | 120 | 2.3 | 100 | 6 of 6 | 100 | 6 of 6 | 100 | 18 | 1.8 | 100 | 2 | 0.0 | 4 | 37 | 1.6 | 1,066 | 6,940 | 34,943 | 642 | 128 | 3.3 | -21 | 99 | 0.4 | Yes |
| 47 Bellingen (Unfiltered) | 4,040 | 1,280 | 175 | 8 | 120 | 2.2 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 1 | 1.7 | 91 | 9 | 1.0 | 0 | 0 | 0.4 | 980 | 10,720 | 24,076 | 826 | 351 | -0.4 | -25 | 463 | 1.6 | Yes |
| 48 Leeton | 3,990 | 2,960 | 442 | 6 | 120 | 3.1 | 100 | 4 of 4 | 100 | 4 of 4 | 100 | 0.0 | 2.2 | 98 | 6 | 0 | 1 | 20 | 0.7 | 1,035 | 8,200 | 25,787 | 911 | 237 | 1.2 | -4 | 317 | 1.1 | Yes |
| 49 Young (Reticulator) | 4,630 | 1,520 | 222 | - | - | 2.7 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.0 | 1.6 | - | - | - | 73 | 506 | 0.1 | 1,104 | 2,050 | 13,702 | 435 | 127 | 2.5 | 0 | 20 | 0.1 | Yes |
| 50 Cooma-Monaro | 3,840 | 1,230 | 195 | 15 | 180 | 2.6 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 1.0 | 2.5 | 85 | 62 | 1 | 25 | 167 | 0.0 | 1,198 | 7,750 | 23,431 | 966 | 380 | -0.1 | -5 | 1,025 | 3.9 | Yes |
| 51 Forbes | 3,640 | 1,950 | 338 | 33 | 113 | 2.2 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 1.9 | 2.1 | 83 | 7 | 0 | 82 | 528 | 0.0 | 821 | 8,210 | 27,286 | 726 | 133 | -0.5 | -18 | 351 | 1.2 | Yes* |
| 52 Snowy River (Unfiltered) | 4,190 | 846 | 127 | 7 | 120 | 2.7 | 100 | 5 of 5 | 100 | 3 of 5 | 56 | 0.0 | 3.0 | 92 | 3 | 0 | 0 | 0 | 1.3 | 1,160 | 9,400 | 29,499 | 785 | 265 | 2.3 | -1 | 966 | 3.5 | Yes |
| 53 Berrigan (Dual Supply) | 3,520 | 1,560 | 272 | 13 | 120 | 2.6 | 100 | 4 of 4 | 100 | 4 of 4 | 100 | 0.0 | 1.3 | 0 | 0 | 0 | 34 | 145 | 0.0 | 994 | 6,060 | 23,292 | 727 | 194 | 0.1 | -11 | 407 | 1.4 | Yes |
| 54 Deniliquin | 3,380 | 2,430 | 466 | - | - | 2.2 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | - | 1.9 | - | - | - | 74 | 410 | 0.2 | 1,187 | 7,500 | 26,028 | 973 | 518 | 0.0 | -8 | 623 | 2.0 | Yes* |
| 55 Warrumbungle | 3,300 | 807 | 190 | 4 | 120 | 2.2 | 100 | 8 of 8 | 95 | 4 of 8 | 46 | 13.7 | 1.3 | 92 | 0 | 0 | 25 | 113 | 0.2 | 925 | 2,670 | 27,064 | 772 | 143 | 0.3 | -23 | 421 | 1.4 | Yes* |
| 56 Yass Valley | 3,090 | 838 | 176 | 13 | 220 | 4.6 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 3 | 1.5 | 100 | 1 | 0 | 13 | 53 | 2.8 | 1,156 | 14,520 | 27,537 | 794 | 407 | 6.8 | | 1,197 | 3.0 | Yes |
| Totals or Medians (% of LWUs basis) for 3,001 - 10,000 Properties | 213,000 | 69,030 | 229 | 13 | 120 | 105 | <i>28 of 28 complied with chemical guidelines 26 of 28 complied with E. coli guidelines</i> | | | | | 77 | | | 0 | 25 | 7,845 | | | 998 | 8,180 | 25,534 | 782 | 260 | 7 | -8 | 407 | 66 | |
| LWUs with 1,501 - 3,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 Wellington | 2,900 | 1,180 | 209 | 17 | 120 | 2.2 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.0 | 1.6 | 100 | 0 | 0 | 0 | 0 | -0.2 | 1,093 | 6,270 | 20,298 | 846 | 344 | 1.2 | 0 | 661 | 1.8 | Yes |
| 58 Coolamundra (Reticulator) | 2,920 | 917 | 179 | 52 | 120 | 1.6 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 1.0 | 1.0 | 75 | 3 | 0 | 50 | 204 | -0.3 | 757 | 8,090 | 14,869 | 516 | 110 | -0.3 | -8 | | | Yes* |
| 59 Lachlan | 2,820 | 1,430 | 360 | 7 | 90 | 6.6 | 100 | 3 of 3 | 100 | 2 of 3 | 89 | 3 | 0.7 | 20 | 0 | 1 | 26 | 138 | 4.0 | 1,124 | 13,250 | 35,571 | 838 | 225 | 8.9 | -17 | | | Yes* |
| 60 Glen Innes Severn | 3,000 | 714 | 155 | 6 | 180 | 1.2 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0 | 1.1 | 100 | 106 | 0 | 12 | 73 | -0.1 | 742 | 5,820 | 19,613 | 586 | 258 | -0.6 | -12 | 49 | 0.1 | Yes |
| 61 Liverpool Plains | 2,690 | 920 | 222 | 11 | 85 | 1.7 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.0 | 0.7 | - | - | - | 0 | 0 | 0.0 | 1,050 | 4,170 | 31,397 | 610 | 280 | -0.1 | -39 | 1,116 | 2.8 | |
| 62 Narromine (Groundwater) | 2,100 | 1,110 | 434 | 25 | 180 | 1.1 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.5 | 1.1 | 100 | 0 | 0 | 5 | 29 | 0.6 | 998 | 6,620 | 16,249 | 675 | 347 | 4.1 | -61 | | | Yes |
| 63 Narrandera (Groundwater) | 2,070 | 1,170 | 376 | - | - | 1.3 | 100 | 1 of 1 | 97 | 0 of 1 | - | - | 0.9 | 100 | - | 0 | 0 | 0 | 0.5 | 1,024 | | 12,647 | 792 | 277 | 2.4 | -40 | 27 | 0.1 | Yes* |
| 65 Murray (Dual Supply) | 2,760 | 1,140 | 289 | 4 | 90 | 1.8 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.0 | 1.4 | 100 | 0 | 0 | 21 | 128 | 0.6 | 887 | 4,180 | 23,502 | 619 | 213 | 1.3 | -40 | 213 | 0.6 | Yes |
| 67 Cobar | 2,250 | 954 | 310 | 10 | 60 | 1.3 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 6.7 | 0.5 | 100 | 0 | 0 | 38 | 100 | -0.2 | 723 | 2,180 | 19,579 | 714 | 56 | -1.2 | -1 | 189 | 0.4 | Yes |
| 66 Cobar Water Board | 0 | 1,540 | 0 | 0 | 0 | 2.0 | | | | | | | NO SGE | | | | | | 0.4 | | | 0 | 0 | 0 | 0.7 | 0 | | | |
| 68 Tenterfield | 1,960 | 468 | 138 | 10 | 120 | 2.0 | 100 | 2 of 2 | 98 | 2 of 2 | 100 | 5.6 | 1.5 | 100 | 0 | 1 | 25 | 65 | 0.6 | 1,312 | 3,000 | 36,447 | 927 | 308 | 1.6 | 1 | 1,910 | 3.5 | Yes |
| 70 Kyogle | 1,840 | 461 | 164 | 14 | 120 | 1.0 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 3 | 1.0 | 86 | 48 | 2 | 91 | 349 | 0.1 | 1,002 | 4,000 | 25,758 | 756 | 239 | 1.3 | -3 | 713 | 1.3 | Yes* |
| 71 Palerang | 2,000 | 490 | 187 | 13 | 60 | 1.8 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 3 | 2.2 | 84 | 15 | 1 | 2 | 0 | 2.6 | 1,473 | 19,850 | 31,392 | 733 | 253 | 4.0 | -14 | 3,700 | 7.2 | Yes* |
| 73 Upper Lachlan | 1,930 | 296 | 71 | 8 | 120 | 1.4 | 70 | 3 of 4 | 100 | 3 of 4 | 91 | 10 | 1.0 | 100 | 0 | 0 | 0 | 0 | 4.4 | 1,087 | 6,510 | 26,073 | 718 | 220 | 2.2 | -44 | 2,892 | 4.3 | Yes* |
| 74 Wentworth (Dual Supply) | 2,370 | 1,540 | 356 | 9 | 60 | 1.9 | 100 | 3 of 3 | 100 | 3 of 3 | 100 | 3 | 1.2 | 100 | 0 | 5 | 0 | 0 | 0.6 | 1,195 | 9,270 | 23,965 | 638 | 125 | 1.7 | 0 | 123 | 0.2 | Yes |
| 76 Harden (Reticulator) | 1,870 | 1,020 | 330 | 8 | 60 | 1.6 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | - | 0.6 | 45 | 3 | 0 | 69 | 350 | 0.0 | 1,439 | 6,310 | 27,005 | 709 | 188 | 0.0 | -9 | | | Yes* |
| 75 Coonamble (Groundwater) | 1,690 | 1,030 | 466 | 44 | 60 | 0.4 | 100 | 2 of 3 | 100 | 3 of 3 | 100 | 16.0 | 0.5 | 85 | 2 | 0 | 24 | 76 | -0.3 | 655 | 1,250 | 21,810 | 569 | 109 | -6.3 | -39 | 176 | 0.3 | Yes* |
| 79 Walgett (Dual Supply) | 1,920 | 1,660 | 912 | - | - | 1.3 | 100 | 2 of 2 | 95 | 1 of 2 | 100 | 1.0 | 0.6 | 100 | 0 | - | 83 | 517 | -0.1 | 1,249 | | 21,04 | | | | | | | |

Table 5: 2009-10 NSW water utility performance summary (continued)

| WATER UTILITY | Water Supply | | | | | | | | | | | Sewerage | | | | | Water Supply & Sewerage - Current (2009-10) unless noted as 2010/11 | | | | | | | | | | | | | |
|---|--|--|---|--|--|------------------------------|--|---|---------------------|---------------|---|--------------------------------|---|--|---|---|--|--|--|--|----------------------------------|---|--|--|---|---------------------|--|-----------------------|-----------------------------|---------|
| | Water Supply Connected Properties (No.) ² | Total Water Supplied Potable + Non-potable + Recycled Excl Bulk Supply (ML) ^{2,3} | Average Annual Residential Water Supplied Potable + Non-potable (kL/connected property) | Water Main Breaks (per 100km of Main) | Avge Duration of Unplanned Interruption (mins) | Revenue (\$M) ^{3,8} | Water Quality Compliance (2004 NHMRC/NRMMC Guidelines) | | | | Water Quality Complaints (per 1000 props) | Revenue (\$M) ^{2,3,8} | % Sge Treated that was Compliant (%) | Sewer Overflows (No per 100km of Main) | Sewage Odour Complaints (per 1000 properties) | Recycled Water (% of effluent recycled) | Net Profit After Tax (\$M) | 2010/11 Typical Residential Bill (\$/assessment) | 2010/11 Typical Developer Charge (\$/ET) | Current Replacement Cost per Assessment (\$) | OMA Cost (\$/connected property) | Mngmt Cost (\$/connected property) | ERRR (%) | Net Debt to Equity (%) | Capital Expenditure | | Strategic Business Plans Completed? (Note 14 Yes/No) | | | |
| | | | | | | | Chemical Note 11 (%) | Zones (7a) H4 | E. coli Note 12 (%) | Zones (8a) H2 | | | | | | | | | | | | | | | % Pop'n with E. coli Compliance (8b) H3 | (\$/prop) | | (\$M) | | |
| | | | | | | | (1) C4 | (2) W11 | (3) W12 | (3a) A8 | | | | | | | | | | | | | | | (3b) C15 | (4) F1 | | (7) (7a) H4 | (8) (8a) H2 | (8b) H3 |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | 1,460 | 669 | 209 | 21 | 180 | 1.6 | 100 | 4 of 4 | 100 | 4 of 4 | 100 | 4.1 | 0.7 | 100 | 49 | 0 | 17 | 55 | 0.6 | 1,144 | 4,000 | 20,815 | 687 | 162 | 6.5 | -15 | | | Yes |
| 82 | Gloucester | 1,720 | 415 | 167 | 10 | 240 | 1.4 | 100 | 2 of 2 | 91 | 1 of 2 | 95 | 3.5 | 1.0 | 83 | 8 | 0 | 0 | | 0.7 | 1,167 | 12,600 | 20,415 | 660 | 134 | 3.7 | -8 | 1,390 | 2.3 | Yes |
| 83 | Oberon (Reticulator) | 1,390 | 568 | 128 | 18 | 90 | 1.0 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 4 | 0.6 | 83 | 21 | 0 | 100 | 240 | 0.1 | 771 | 2,730 | 10,442 | 938 | 218 | 0.6 | 0 | 148 | 0.2 | Yes |
| 84 | Gilgandra (Groundwater) | 1,350 | 811 | 433 | 40 | 100 | 0.8 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 11 | 0.6 | 75 | 17 | 2.2 | 100 | 290 | 0.1 | 988 | | 21,479 | 565 | 119 | 0.8 | -7 | 684 | 0.9 | Yes |
| 85 | Uralla | 1,540 | 300 | 127 | 32 | 120 | 0.6 | 100 | 2 of 2 | 97 | 1 of 2 | 92 | 20 | 0.5 | 83 | 0 | 2 | 0 | | -0.1 | 871 | 1,400 | 18,983 | 683 | 237 | 0.4 | -1 | 73 | 0.1 | Yes |
| 86 | Hay (Dual Supply) | 1,310 | 1,340 | 1,020 | 32 | 300 | 1.0 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.0 | 0.8 | 100 | 0 | 0 | 0 | | -0.1 | 1,228 | | 26,783 | 1,120 | 390 | -1.5 | -16 | 578 | 0.8 | Yes |
| 87 | Bourke (Dual Supply) | 1,190 | 4,050 | 3,750 | 167 | 60 | 1.3 | 100 | 1 of 1 | 96 | 0 of 1 | | 3 | 0.7 | 29 | 0 | 1.6 | 0 | | 0.0 | 2,160 | 1,470 | 28,253 | 1,082 | 189 | -0.3 | -18 | 222 | 0.3 | Yes |
| 88 | Wakool (Dual Supply) | 1,430 | 1,100 | 891 | - | - | 1.2 | 100 | 5 of 5 | 100 | 3 of 5 | | 0.0 | 0.6 | 100 | - | - | 0 | | -0.2 | 1,404 | | 44,569 | 781 | 145 | -0.4 | -7 | 78 | 0.1 | Yes* |
| 89 | Bogan | 1,030 | 582 | 365 | 36 | 120 | 0.9 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | - | 0.5 | 100 | 0 | 3.9 | | | -0.2 | 986 | | 34,880 | 1,026 | 373 | -1.3 | -9 | 138 | 0.1 | Yes |
| 90 | Guyra | 1,200 | 491 | 217 | 8 | 120 | 0.9 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 1.7 | 0.5 | 100 | 2 | 0 | 0 | | 0.3 | 1,055 | | 30,402 | 833 | 247 | 1.1 | -6 | 139 | 0.1 | Yes |
| 91 | Cabonne | 1,150 | 412 | 168 | 26 | 180 | 0.8 | 100 | 4 of 4 | 100 | 2 of 3 | 87 | 0 | 1.5 | 100 | 13 | 0 | 50 | 142 | -0.4 | 718 | 11,550 | 48,184 | 895 | 399 | -0.9 | -9 | 1,545 | 3.1 | Yes |
| 92 | Carrathool (Groundwater) | 1,130 | 1,680 | 1,350 | 5 | 180 | 1.1 | 100 | 4 of 5 | 100 | 3 of 3 | 87 | 2 | 0.2 | 100 | 0 | 0 | 1 | | -1.1 | 1,175 | 1,650 | 70,818 | 1,076 | 170 | -2.1 | 2 | 365 | 0.4 | Yes |
| 93 | Tumbarumba | 1,150 | 302 | 177 | 8 | 120 | 0.6 | 100 | 2 of 2 | 97 | 1 of 2 | | 2 | 0.5 | 100 | 2 | 1 | 0 | | 0.2 | 1,008 | 920 | 28,091 | 594 | 223 | 0.6 | 0 | 219 | 0.2 | Yes* |
| 94 | Gundagai | 880 | 730 | 336 | 17 | 60 | 0.6 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 6 | 0.4 | 100 | 3 | 1 | 100 | 117 | -0.2 | 754 | 2,550 | 28,816 | 966 | 312 | -2.0 | -7 | 130 | 0.1 | Yes |
| 96 | Warren (Dual Supply) | 960 | 719 | 654 | 66 | 120 | 0.5 | 100 | 3 of 3 | 95 | 0 of 3 | | 0 | 0.5 | 100 | 0 | 0 | 1 | 2 | -0.1 | 1,119 | | 24,549 | 805 | 246 | -1.0 | -75 | | | Yes |
| 97 | Bombala | 840 | 236 | 193 | 23 | 56 | 0.5 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 0.0 | 0.4 | 100 | 74 | 0.0 | 21 | 35 | 0.1 | 1,032 | 5,850 | 30,286 | 643 | 125 | 0.1 | -16 | | | Yes |
| 98 | Walcha | 910 | 213 | 171 | 4 | 60 | 0.5 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 1.1 | 0.3 | 58 | 10 | 0 | 0 | | 0.0 | 897 | | 27,872 | 745 | 236 | -0.1 | -7 | 162 | 0.1 | Yes* |
| 100 | Bairnald (Dual Supply) | 900 | 594 | 758 | 33 | 60 | 0.6 | 100 | 2 of 2 | 100 | 2 of 2 | 100 | 1 | 0.2 | 100 | 0 | 0 | 73 | 147 | -0.1 | 929 | 1,490 | 30,375 | 592 | 162 | -0.3 | -6 | | | Yes |
| 101 | Murrumbidgee (Groundwater) | 900 | 672 | 470 | - | - | 0.3 | 100 | 2 of 2 | 100 | 2 of 2 | | 0.0 | 0.2 | - | - | 17 | 15 | | -0.1 | 602 | 2,000 | 12,780 | 549 | 145 | -3.9 | -2 | 339 | 0.3 | Yes* |
| 103 | Central Darling (Dual Supply) | 730 | 357 | 484 | - | - | 0.6 | 100 | 2 of 2 | 97 | 1 of 2 | | 0 | 0.1 | 100 | - | - | 0 | | -0.5 | 1,199 | | 63,796 | 787 | | -0.8 | -2 | | | Yes |
| 104 | Boorowa | 620 | 278 | 296 | 9 | 100 | 0.5 | 100 | 1 of 1 | 100 | 1 of 1 | 100 | 0.0 | 0.3 | 65 | 0 | 3.6 | 2 | 2 | 0.0 | 1,420 | 900 | 33,260 | 728 | 302 | 1.0 | -14 | | | Yes |
| 105 | Brewarrina | 490 | 729 | 1,440 | 52 | 60 | 0.7 | 100 | 2 of 2 | 100 | 1 of 2 | 84 | 0.0 | 0.3 | | 0 | 0 | 100 | 212 | -0.2 | 1,569 | | 38,856 | 1,674 | 481 | -1.1 | -10 | 152 | 0.1 | Yes* |
| 106 | Jerilderie (Dual Supply) | 470 | 430 | 1,030 | 16 | 120 | 0.4 | 100 | 1 of 1 | 93 | 0 of 1 | | 0.0 | 0.2 | 25 | 0 | 0 | 15 | 10 | 0.0 | 1,743 | 3,180 | 30,130 | 983 | 203 | -0.6 | -17 | | | Yes* |
| Totals or Medians (% of LWUs basis) for 200 - 1,500 Properties | | 25,000 | 17,678 | 365 | 22 | 120 | 18.2 | 23 of 23 complied with chemical guidelines 16 of 23 complied with E. coli guidelines | | | | | | 11.5 | | | 0 | 2 | 1.3 | | 1,055 | 2,000 | 28,816 | 787 | 221 | 0 | -7 | 190 | 0.0 | |
| LWUs without Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Wagga Wagga (NO WS) | 25,118 | 226 | | | | | | | | | | | 14.5 | 70 | 30 | 0.0 | 9 | 453 | 0.4 | 406 | 3,500 | 12,302 | 251 | 44 | 1.3 | 1 | 454 | 11.4 | Yes |
| 30A | Hawkesbury | 7,522 | | | | | | | | | | | | 16.4 | 100 | 25 | 0 | 7 | 176 | 0.0 | 494 | 7,110 | 18,189 | 435 | 44 | 14.1 | 0 | 1,498 | 11.3 | Yes* |
| 69 | Temora | 2,111 | 80 | | | | | | | | | | | 0.6 | 80 | 0 | 0 | 100 | 80 | 0.0 | 256 | 160 | 6,994 | 219 | 48 | -0.3 | 2 | 10 | 0.0 | Yes* |
| 72 | Bland | 1,843 | | | | | | | | | | | | 0.9 | 100 | 0 | 0 | 45 | 118 | 0.3 | 525 | 1,470 | 10,518 | 292 | 49 | 1.0 | 0 | 251 | 0.5 | Yes* |
| 77 | Junee | 1,587 | 164 | | | | | | | | | | | 0.6 | 75 | 0 | 0 | 60 | 164 | 0.0 | 344 | 1,650 | 12,107 | 275 | 57 | -0.4 | 1 | 183 | 0.3 | Yes |
| 78 | Blayney | 1,903 | 212 | | | | | | | | | | | 1.1 | 70 | 3 | 0 | 77 | 212 | 0.0 | 450 | 3,030 | 11,986 | 335 | 151 | 0.4 | 0 | | | Yes |
| 95 | Weddin | 1,026 | 36 | | | | | | | | | | | 0.2 | 100 | 3 | 0 | 21 | 36 | 0.0 | 247 | 2,800 | 10,092 | 127 | 25 | -1.0 | -2 | | | Yes* |
| 99 | Coolamon | 990 | 50 | | | | | | | | | | | 0.4 | 100 | 2 | 0 | 100 | 73 | 0.0 | 280 | 4,500 | 10,283 | 271 | 67 | 0.1 | 3 | 131 | 0.1 | Yes |
| 102 | Lockhart | 825 | 27 | | | | | | | | | | | 0.3 | 100 | | 0 | 15 | 27 | 0.0 | 442 | 1,000 | 12,759 | 281 | 24 | -1.0 | 0 | 10 | 0.0 | Yes |
| 107 | Urana | 316 | | | | | | | | | | | | 0.2 | 100 | 0 | 0.0 | 0 | | 0.0 | 227 | 4,100 | 20,336 | 405 | 114 | -0.6 | 0 | | | Yes* |
| Totals or Medians (% of LWUs basis) for LWUs without WS | | 36,000 | 795 | | | | | | | | | | | 18.9 | | | 0 | 33 | 1,339 | | 375 | 2,915 | 12,046 | 278 | 49 | -0.1 | 0 | 183 | 23.6 | |
| Statewide Totals & Medians⁶ | | 796,000 WS Connected Properties | 290,000 ML (note 6) | Median 175KL per connected property (note 7) | Median 9 Breaks per 100km (note 7) | Median 159 minutes (note 7) | Total \$580M (note 6) | 92 of 96 LWUs (96%) complied with the chemical guidelines. 85 of 96 LWUs (89%) complied with E.coli guidelines | | | | | Median 4 Quality Complaints per 1000 props (note 6) | Total \$496M (note 6) | 84% of LWUs and 98% of samples complied with BOD licences | Median 15 Overflows per 100km | Reuse of effluent was carried out by 80% of LWUs 24% of effluent collected was recycled | Total 39,000 ML | | Median \$960 per assessment (note 7) | Median \$8,900 per ET (note 7) | Median \$24,800 per assessment (note 7) | Median \$710 per connected property (note 7) | Median \$262 per connected property (note 7) | Median 1.0% (note 7) | Median -7% (note 7) | Median \$534 per assessment (note 7) | Total \$700M (note 7) | 65 Yes 31 Yes* (note 14) | |

Notes

- This table shows the key 2009-10 performance indicators/characteristics for NSW water utilities.
A more detailed breakdown is provided in Tables 6 to 18 and Figures 1 to 65 of the *2009-10 NSW Water Supply and Sewerage Benchmarking Report*.
- No WS** means not responsible for water supply;
No SGE means not responsible for sewerage. For LWUs with water supply only or sewerage only, the results are shown left justified and are not included in the median calculation for water supply and sewerage.
- Where an LWU has not reported an item for 2009-10, the value previously reported has been used where available. Such values are shown in this table in *italics bold*.
- The number of connected properties for LWUs responsible for sewerage only (column (1)) is sewerage properties.
- NSW Water Utilities**
In NSW there are 110 water utilities comprising:
 - 4 metropolitan water utilities (Sydney and Hunter Water Corporations, Sydney Catchment Authority (SCA) and Hawkesbury Council), and
 - 106 non-metropolitan Local Water Utilities (LWUs).The 106 LWUs comprise:
 - 101 local government councils (under *Local Government Act 1993*),
 - 5 LWUs (Gosford Council, Wyong Council, Cobar WB, Fish River WS, Country Energy) under the *Water Management Act 2000*.Of the 106 LWUs,
 - 97 were responsible for water supply (including 3 for bulk supply - Cobar WB, Fish River WS & Rous Water)
 - 100 were responsible for sewerage.
 - 91 were responsible for both water supply and sewerage, 6 for water supply only and 9 for sewerage only.
- Totals for Non-metropolitan NSW**
The totals shown below are for non-metropolitan NSW & therefore exclude Sydney & Hunter Water Corporations, the SCA and Hawkesbury Council. The totals exclude double-counting where bulk water suppliers are involved.
 - Total number of water supply connected properties** in non-metropolitan NSW was 796,000 (col (1)).
 - Total annual water supplied** was 290,000 ML (column (2)).
 - Total revenue** for water supply and sewerage was \$1076M (columns (4) and (9)) and the current replacement cost of assets was \$20,600M.
- Statewide medians (non-metropolitan) were:**
 - Average annual residential water supplied** - 175kL/connected property (column (3)).
 - Typical residential bill (TRB)** for water and sewerage - \$960/assessment (column(13b)). The 2010-11 TRB for water supply has been calculated on the basis of each LWU's 2010-11 tariff using the 2009-10 average annual residential water supplied (column (3)). The TRB for sewerage is based on the LWU's access charge (col(1)) of Table 7 except for 3 LWUs where account was also taken of the usage charges. The TRB in col (13b) is for 2010-11. However, NWI indicators P2, P4 and P5 are defined as the TRB for 2009-10 and will therefore differ from those shown in column (13b). The 2009-10 TRBs are shown in column 8 of Tables 6 & 7 on pages 120 and 132.
 - Typical developer charge** for water and sewerage - \$8,900/ET for 2010-11 (col (14) and Tables 6 & 7).
 - Economic real rate of return (ERRR)** for water and sewerage - 1.0% (column (19)). As shown in Figures 13 and 14 of the *2009-10 NSW Water Supply and Sewerage Performance Monitoring Report*, 98% of LWUs are achieving full cost recovery for water supply and 96% are achieving full cost recovery for sewerage. The remaining 2 water utilities and 4 sewerage utilities which are not achieving full cost recovery need to do so. Refer also to Tables 6 and 7.
 - Net debt/equity** for water and sewerage was -7% (column (19a)).
 - Water main breaks** - 9 breaks per 100km of main (column (3a)).
 - Average duration of unplanned interruptions (water supply)** - 159 minutes (column (3b)).
- cont'd **Statewide medians (non-metropolitan):**
 - Water quality complaints** - 4 per 1000 properties (column (8b)).
 - Operation, maintenance and administration (OMA)** cost (water & sewerage) - \$710/connected property (column (17)). OMA cost includes part of the OMA cost of the bulk water supplier but excludes the purchase cost of water. However, NWI indicator F11 includes the purchase cost of water and therefore may differ from column (17).
 - Management cost** for water supply and sewerage - \$262/connected property (column (18)).
 - Current replacement cost** for water supply and sewerage - \$24,800/assessment (column (15)).
 - Capital expenditure** for water supply and sewerage - \$534/property (column (19b)). The total capital expenditure for water supply and sewerage was \$700M (column (19c)).
- Category 1 Businesses** - Category 1 businesses are defined as having an annual revenue of over \$2M (*NSW Government's Policy Statement on Application of National Competition Policy to Local Government, June 1996*). 72 LWUs are Category 1 businesses (shown in bold in Cols (4) & (9)). Column (4) shows there were 56 LWUs responsible for water supply with a revenue of over \$2M; and 42 such utilities responsible for sewerage (column (9)).
- Pay-for-use water supply tariff** - 92 of the 94 LWUs providing reticulated water have a pay-for-use water supply tariff in 2010-11 (ie. a two-part tariff or an inclining block tariff). Such tariffs comply with IPART recommendations and the *COAG Strategic Framework for Water Reform*.
- Pay-for-Use Pricing & Full Cost Recovery** - For water supply, 96% of LWUs have pay-for-use pricing in 2009-10, residential tariffs independent of land value together with full cost recovery (col 2 of Table 3 on page 102). For sewerage, 95% of LWUs have tariffs independent of land value and full cost recovery (col 2 of Table 3). Such LWUs comply with the *COAG Strategic Framework for Water Reform* and the *National Water Initiative*.
- Physical and chemical water quality** - 98% of the 24,000 physical samples and 98% of the 21,400 chemical samples tested for NSW LWUs achieved 100% compliance with the 2004 NHMRC/NRMMC Guidelines. Col (7) shows that 96% of LWUs complied with chemical water quality (health related). 100% of LWUs complied for physical water quality.
- Microbiological water quality** - E.coli contamination is the primary health-related indicator.
 - E.coli** - 99% of the 20,700 samples tested for NSW LWUs achieved 100% compliance with the 2004 NHMRC/NRMMC Guidelines. 89% of LWUs complied with these guidelines (column 8). Refer also to page 8.
- Compliance with EPA Discharge Licence for Sewerage**
 - BOD** - 98% of the 4,020 sampling days for NSW LWUs achieved 100% compliance with the 90-percentile limit of their EPA licence for BOD (Biochemical Oxygen Demand). 83% of LWUs complied with the EPA licence (col 10).
 - SS** - 94% of the 4,020 sampling days for NSW LWUs achieved 100% compliance with the 90-percentile limit of their EPA licence for SS (Suspended Solids). 73% of LWUs complied with their EPA licence for SS (Table 17 on p173). (16 LWUs had no EPA discharge licence limit and 5 did not report BOD or SS).
- Strategic Business Plans** - 96 LWUs have completed a sound water &/or sewerage Strategic Business Plan (col 21) and have demonstrated long term financial sustainability of their water and sewerage businesses to comply with National Competition Policy. The plans of 31 of these LWUs now need updating (these are shown as "Yes" in column 21).
- Total Water Supplied** (col (2)) includes non-potable and recycled water (see Table 8 on page 141). Similarly, the average annual residential water supplied (col (3)) includes non-potable and recycled water.
- Reuse of recycled water** comprised 39,000ML which is 24% of the volume of sewage collected and was carried out by 80% of utilities, mostly for agriculture. Refer also to graph 13 on page 185 and Figure 55 on page 92.
- National Water Initiative (NWI) Indicators** - The 32 NSW water utilities with over 10,000 connected properties (3 metropolitan utilities and 29 non-metropolitan utilities) are required to report their performance under the NWI. The results that have met the rigorous NWI auditing requirements have been published in the *National Performance Report 2009-10*. Refer also to Notes 19 and 20 on pages 33 and 34. These results are shown in Appendix F on page 248.
- The performance indicators for Sydney and Hunter Water Corporations and Sydney Catchment Authority are from the *National Performance Report 2009-10 for Urban Water Utilities*.

Table 5A: Water supply and sewerage indicators – financial

| WATER UTILITY | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|----------|----------|------------------------|---------|---------|----------------|----------|----------|---|-----------------|-----------------|------------------|-----------|-----------|------------------------------|----------|----------|--------------------|------------------------|----------|-------------------|----------|------------------------------|------------------|----------|-------------------|-----------------------|----------|--------------|----------|-------------------|---------------------|--------------|---------------------------|----------|------------|-----------|
| | Operating Cost (OMA) | | | Income per Property | | | Total Income | | | Capital Expenditure (Assets, Renewals, Plant/Equip) | | | Return on Assets | | | Economic Real Rate of Return | | | Net Debt to Equity | | | Interest Cover | | | Dividend Payable | | | Dividend Payout Ratio | | CSOs | | | % Revenue from CSOs | | Net Profit after Tax NPAT | | NPAT Ratio | |
| | WS & SGE (\$/property) | | | (\$/property) WS & SGE | | | WS & Sge (\$M) | | | WS & Sge (\$ per prop) | | | WS & Sge (%) | | | WS & Sge (%) | | | WS & Sge (%) | | | WS & Sge (\$'000) | | | WS & Sge (%) | | WS & Sge (\$'000) | | | WS & Sge (%) | | WS & Sge (\$'000) | | WS & Sge (%) | | | | |
| | (23) F13 | (23) F13 | (23) F13 | (24) F7 | (24) F7 | (24) F7 | (24a) F3 | (24a) F3 | (24a) F3 | (24b) F28 + F29 | (24b) F28 + F29 | (24b) F28 + F29 | (24c) F19 | (24c) F19 | (24c) F19 | (25) F19 | (25) F19 | (25) F19 | (26) F22 | (26) F22 | (26) F22 | (27) F23 | (27) F23 | (27) F23 | (29) F20 | (29) F20 | (29) F20 | (29) F21 | (29) F21 | (30) F25 | (30) F25 | (30) F25 | (31) F8 | (31) F8 | (32) F24 | (32) F24 | (32a) F30 | (32a) F30 |
| 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | |
| Sydney Water Corporation | 621 | 551 | 556 | 1,025 | 1,091 | 1,203 | 1,780 | 1,910 | 2,130 | 830 | 1,084 | 716 | | | | 0.7 | 1.2 | 1.9 | 62 | 103 | 120 | 1 | 2 | 3 | 190,000 | 205,000 | 232,000 | 115 | 52 | 91295 | 112,736 | 130,607 | 6 | 6 | 177,501 | 445,854 | 0.1 | 0.2 |
| Hunter Water Corporation | 455 | 466 | 496 | 958 | 929 | 1,044 | 200 | 202 | | 399 | 658 | 737 | | | | 2.2 | 2.2 | 2.5 | 30 | 32 | 39 | 3 | 3 | 2 | 34,600 | 30,400 | 34,100 | 69 | 76 | 8958 | 9,278 | 11,328 | 5 | 5 | 44,253 | 44,974 | 0.2 | 0.2 |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | 6,164 | 26,816 | 31,211 | 68 | 73 | | | | | | 39,172 | 43,030 | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford | 531 | 566 | 666 | 756 | 839 | 994 | 53 | 58.8 | 69.8 | 530 | 502 | 836 | 0.3 | 0.7 | 0.6 | 0.4 | 0.6 | 1.0 | 0 | 1.4 | 3.2 | 4 | >100 | 2 | 1746 | 1,694 | 3,849 | 115 | 180 | 1115 | 1,162 | 591 | 2.0 | 0.8 | 1,477 | 2,134 | 0.0 | 0.0 |
| 2 Wyong | 760 | 883 | 718 | 930 | 952 | 1260 | 55 | 56.6 | 75.3 | 321 | 330 | 1031 | -1.1 | -2.6 | -0.1 | -0.5 | -1.0 | 0.5 | 8 | 9.6 | 10.7 | 0 | 0 | 1 | | | | | | 1306 | 1,270 | 677 | 2.2 | 0.9 | -22,922 | -4,915 | -0.4 | -0.1 |
| 3 Shoalhaven | 616 | 685 | 701 | 969 | 1022 | 1140 | 44 | 46.7 | 52.3 | 609 | 563 | 999 | 0.6 | 0.2 | 1.0 | 0.9 | 0.7 | 1.1 | 1 | 3.9 | 3.0 | 4 | 1 | 9 | 2208 | 1,173 | 940 | -403 | 13 | 876 | 925 | 974 | 2.0 | 1.9 | -291 | 7,322 | 0.0 | 0.1 |
| 5 MidCoast | 662 | 700 | 732 | 1217 | 1248 | 1513 | 44 | 45.3 | 54.9 | 1569 | 1713 | 1167 | -2.5 | -1.0 | 0.4 | 0.0 | 0.2 | 1.7 | 16 | 24.6 | 30.0 | 0 | 0 | 1 | | | | | | 952 | 825 | 875 | 1.8 | 1.6 | -15,011 | 1,862 | -0.3 | 0.0 |
| 6 Tweed | 661 | 716 | 807 | 1553 | 1410 | 1417 | 49 | 44.6 | 44.2 | 2050 | 2061 | 2974 | 1.2 | -0.2 | 0.3 | 1.1 | 0.0 | 0.0 | -6 | 1.1 | 1.6 | >100 | 0 | 0 | | | | | | 713 | 718 | 727 | 1.6 | 1.6 | -3,963 | -1,809 | -0.1 | 0.0 |
| 7 Port Macquarie-Hastings | 659 | 600 | 675 | 1122 | 1349 | 1486 | 32 | 40.3 | 43.0 | 457 | 1098 | 778 | 0.5 | 0.0 | 2.3 | 0.6 | 1.9 | 1.7 | -2 | 1.7 | 0.4 | 8 | 1 | 0 | | | | | | 656 | 679 | 538 | 1.7 | 1.3 | -7,344 | 10,204 | -0.2 | 0.2 |
| 10 Coffs Harbour | 642 | 706 | 785 | 1609 | 1540 | 2348 | 38 | 36.7 | 56.5 | 2935 | 2849 | 844 | 1.2 | -0.8 | 3.3 | 3.2 | 1.9 | 4.5 | 13 | 25.8 | 23.8 | 2 | 1 | 4 | | | | | | 471 | 451 | 476 | 1.2 | 0.8 | -5,478 | 19,862 | -0.1 | 0.4 |
| 11 Albury City | 590 | 524 | 654 | 885 | 899 | 1065 | 19 | 20.0 | 24.0 | 366 | 423 | 0 | -0.3 | -0.3 | 0.3 | -0.2 | 0.1 | 0.4 | 3 | 4.5 | 3.6 | 0 | 0 | 3 | | | | | | 286 | 294 | 303 | 1.5 | 1.3 | -1,121 | 1,008 | -0.1 | 0.0 |
| 13 Tamworth Regional | 602 | 673 | 784 | 1405 | 1648 | 1791 | 28 | 33.5 | 36.9 | 759 | 1426 | 2789 | 5.0 | 5.4 | 4.8 | 4.6 | 4.7 | 4.2 | -12 | -8.9 | -0.9 | >100 | >100 | 0 | 1048 | 1,051 | 1,059 | 6 | 6 | 371 | 380 | 380 | 1.1 | 1.0 | 16,380 | 16,991 | 0.5 | 0.5 |
| 14 Clarence Valley | 600 | 647 | 673 | 1960 | 1233 | 1134 | 40 | 25.7 | 23.8 | 2862 | 3391 | 1742 | 7.9 | 0.7 | 0.3 | 8.4 | 1.5 | 1.0 | -1 | 5.8 | 8.3 | 17 | 2 | 1 | | | | | | 414 | 423 | 421 | 1.7 | 1.8 | 1,959 | 1,294 | 0.1 | 0.1 |
| 15 Eurobodalla | 770 | 714 | 781 | 1263 | 1287 | 1453 | 24 | 24.7 | 28.1 | 1133 | 974 | 1275 | 1.6 | 1.8 | 2.7 | 1.6 | 1.9 | 2.0 | 2 | 0.0 | 1.5 | >100 | 12 | 0 | | 345 | | 4 | 364 | 373 | 381 | 1.5 | 1.4 | 4,033 | 9,286 | 0.2 | 0.3 | |
| 16 Wingecarribee | 617 | 620 | 676 | 991 | 1039 | 1194 | 18 | 18.7 | 21.7 | 414 | 1279 | 1070 | 1.8 | 0.5 | 0.6 | 1.4 | 0.5 | 0.8 | -6 | -1.8 | 0.6 | >100 | >100 | 5 | | | | | | 265 | 369 | 300 | 2.0 | 1.4 | 422 | -585 | 0.0 | 0.0 |
| 17 Queanbeyan | 623 | 746 | 819 | 1120 | 968 | 1126 | 18 | 15.3 | 17.9 | 368 | 249 | 106 | 1.9 | -0.5 | -0.7 | 1.1 | -0.9 | -1.8 | -16 | -15.5 | -15.4 | >100 | 0 | 0 | | | | | | 155 | 156 | 201 | 1.0 | 1.1 | -1,947 | -2,533 | -0.1 | -0.1 |
| 18 Dubbo | 779 | 789 | 797 | 1147 | 1131 | 1232 | 18 | 18.2 | 20.8 | 271 | 397 | 421 | 0.2 | 0.3 | 1.1 | 0.6 | 0.7 | 1.1 | 3 | 3.5 | 2.6 | 2 | 2 | 29 | | | | | | 181 | 180 | 178 | 1.0 | 0.9 | 13 | 3,281 | 0.0 | 0.2 |
| 19 Orange | 618 | 629 | 581 | 1300 | 1647 | 1060 | 21 | 26.2 | 17.1 | 104 | 410 | 279 | 2.0 | 4.4 | 0.7 | 2.0 | 4.0 | 0.1 | -12 | -11.2 | -11.5 | >100 | >100 | 0 | | | | | | 240 | 244 | 246 | 0.9 | 1.4 | 7,441 | -1,321 | 0.3 | -0.1 |
| 20 Goulburn Mulwaree | 680 | 712 | 765 | 1544 | 1449 | 1554 | 15 | 15.3 | 15.9 | 722 | 417 | 590 | -0.5 | 0.4 | 1.2 | 1.9 | 1.6 | 1.5 | 7 | 6.5 | 5.1 | 1 | 1 | 7 | | | | | | 175 | 173 | 176 | 1.1 | 1.1 | 463 | 3,094 | 0.0 | 0.2 |
| 21 Bathurst Regional | 690 | 732 | 775 | 1064 | 1237 | 1277 | 16 | 18.5 | 18.7 | 391 | 373 | 213 | 1.6 | 2.4 | 1.6 | 1.1 | 2.0 | 1.3 | -9 | -10.0 | -11.3 | >100 | >100 | 0 | | | | | | 191 | 199 | 202 | 1.1 | 1.1 | 4,852 | 2,514 | 0.3 | 0.1 |
| 22 Lismore | 727 | 744 | 789 | 1089 | 1043 | 1175 | 15 | 14.6 | 16.5 | 578 | 236 | 564 | -1.3 | -1.8 | 0.1 | -1.1 | -1.5 | -1.1 | -4 | -3.8 | -4.5 | 0 | 0 | 0 | | | | | | 232 | 285 | 248 | 2.0 | 1.5 | -4,869 | -236 | -0.3 | 0.0 |
| 23 Bega Valley | 922 | 967 | 1061 | 1431 | 1483 | 1672 | 20 | 20.8 | 23.5 | 1714 | 874 | 362 | 1.9 | 1.3 | 1.7 | 1.8 | 1.5 | 1.9 | 0 | 0.0 | -3.6 | >100 | 8 | 10 | | | | | | 244 | 252 | 254 | 1.2 | 1.1 | 2,767 | 3,803 | 0.1 | 0.2 |
| 24 Ballina | 774 | 922 | 990 | 1067 | 1034 | 1276 | 15 | 14.5 | 18.3 | 351 | 442 | 613 | 0.3 | -1.4 | 1.5 | -1.0 | -2.3 | -0.8 | -13 | -11.0 | -9.7 | 0 | 0 | 0 | 240 | | | | | 276 | 284 | 295 | 2.0 | 1.6 | -3,019 | 2,591 | -0.2 | 0.1 |
| 25 Kempsey | 643 | 716 | 806 | 1048 | 1075 | 1169 | 13 | 13.2 | 14.5 | 308 | 1122 | 1078 | -0.4 | -0.6 | -0.6 | -0.1 | -0.2 | 0.0 | 2 | 3.7 | 5.6 | 0 | 0 | 0 | | | | | | 241 | 241 | 250 | 1.8 | 1.7 | -3,311 | -2,686 | -0.3 | -0.2 |
| 26 Country Energy | 1137 | 1137 | 1071 | 1525 | 1629 | 1677 | 16 | 17.0 | 17.6 | 912 | 1893 | 2613 | | | | | 0.0 | | 0 | 0.0 | 0.0 | >100 | >100 | 0 | | | | | | 284 | 273 | 266 | 1.6 | 1.5 | | 2,958 | | 0.2 |
| 27 Byron | 905 | 962 | 993 | 1382 | 1559 | 1738 | 15 | 16.6 | 18.7 | 710 | 842 | 2798 | 0.4 | 0.3 | 0.5 | 0.7 | 1.1 | 1.4 | 4 | 6.4 | 18.2 | 2 | 1 | 2 | | | | | | 149 | 149 | 149 | 0.9 | 0.8 | -1,158 | -1,086 | -0.1 | -0.1 |
| Totals for >10,000 Properties | | | | | | | | | | \$730M | | | | | | | | | | 4 LWUs paid a dividend | | | | 15 of 23 LWUs had a +ve NPAT | | | | | | | | | | | | | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 Armidale Dumaresq | 836 | 831 | 779 | 997 | 1038 | 1369 | 8 | 8.8 | 11.5 | 389 | 493 | 71 | 0.5 | 0.5 | 2.4 | 0.2 | 0.7 | 2.5 | -1 | 2.2 | -3.9 | >100 | 3 | 38 | | | | | | 119 | 59 | 202 | 0.7 | 1.8 | -2,861 | 3,786 | -0.3 | 0.3 |
| 30 Griffith | 993 | 1058 | 1062 | 1292 | 1318 | 1657 | 10 | 10.8 | 13.7 | 615 | 626 | 505 | 0.0 | 0.0 | 1.8 | 0.3 | 0.2 | 1.3 | -4 | -3.4 | -4.0 | 1 | 1 | >100 | | | | | | 115 | 35 | 127 | 0.3 | 0.9 | -144 | 3,735 | 0.0 | 0.3 |
| 31 Lithgow | 856 | 730 | 917 | 991 | 893 | 995 | 8 | 7.1 | 8.0 | 268 | 258 | 1060 | 0.1 | 1.3 | 1.4 | -0.9 | -0.1 | -1.6 | -7 | -5.9 | -23.9 | 0 | 0 | 0 | | | | | | 266 | 177 | 180 | 2.5 | 2.3 | 613 | 811 | 0.1 | 0.1 |
| 32 Mid-Western Regional | 718 | 786 | 756 | 1111 | 1006 | 1010 | 8 | 7.1 | 7.3 | 353 | 334 | 339 | 1.0 | -0.6 | 0.0 | 0.7 | -0.9 | -0.3 | -6 | -6.3 | -19.5 | >100 | 0 | 0 | | | | | | 128 | 124 | 130 | 1.7 | 1.8 | -569 | -360 | -0.1 | 0.0 |
| 33 Richmond Valley | 875 | 930 | 947 | 1550 | 1271 | 1613 | 10 | 8.8 | 11.3 | 717 | 781 | 457 | 1.8 | 0.4 | 2.2 | 1.6 | 1.0 | 2.2 | -3 | -0.3 | -8.1 | >100 | 2 | 44 | | | | | | 160 | 166 | 155 | 1.9 | 1.4 | -2,101 | 1,754 | -0.2 | 0.2 |
| 34 Nambucca | 499 | 578 | 632 | 866 | 1018 | 1153 | 5 | 6.3 | 7.2 | 96 | 208 | 106 | 0.4 | 0.8 | 4.8 | 0.6 | 1.2 | 1.6 | -11 | -9.1 | -72.5 | 3 | 3 | >100 | | | | | | 134 | 134 | 137 | 2.1 | 1.9 | 786 | 5,303 | 0.1 | 0.7 |
| 35 Singleton | 619 | 708 | 767 | 1096 | 1065 | 1137 | 7 | 6.7 | 7.3 | 393 | 259 | 253 | 2.8 | 2.2 | 2.0 | 1.3 | 0.3 | 0.4 | -25 | 0.0 | -2.2 | >100 | >100 | >100 | | | | | | 75 | 75 | 74 | 1.1 | 1.0 | 1,397 | 1,404 | 0.2 | 0.2 |
| 37 Inverell | 706 | 736 | 773 | 998 | 1007 | 1088 | 5 | 5.3 | 5.8 | 140 | 607 | 207 | -1.4 | 0.4 | 1.5 | 0.3 | 0.7 | 0.9 | -7 | -3.6 | -37.4 | 0 | 2 | >100 | | | | | | 128 | 124 | 126 | 2.3 | 2.2 | 102 | 950 | | |

Table 5A: Water supply and sewerage indicators – financial (continued)

| WATER UTILITY | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|-------|-------|------------------------|-------|-------|----------------|-------|-------|---|--------|-------|------------------|-------|-------|------------------------------|-------|-------|--------------------|-------|-------|---|-------|-------|------------------|-------|-------|-------------------------------------|-------|-------|--------------|-------|-------|---------------------|-------|-------|---------------------------|-------|-------|------------|--|--|
| | Operating Cost (OMA) | | | Income per Property | | | Total Income | | | Capital Expenditure (Assets, Renewals, Plant/Equip) | | | Return on Assets | | | Economic Real Rate of Return | | | Net Debt to Equity | | | Interest Cover | | | Dividend Payable | | | Dividend Payout Ratio | | | CSOs | | | % Revenue from CSOs | | | Net Profit after Tax NPAT | | | NPAT Ratio | | |
| | WS & SGE (\$/property) | | | (\$/property) WS & SGE | | | WS & Sge (\$M) | | | WS & Sge (\$ per prop) | | | WS & Sge (%) | | | WS & Sge (%) | | | WS & Sge (%) | | | WS & Sge (\$'000) | | | WS & Sge (%) | | | WS & Sge (\$'000) | | | WS & Sge (%) | | | | | | | | | | | |
| | (23) F13 | | | (24) F7 | | | (24a) F3 | | | F28 + F29 | | | (24c) | | | F19 | | | F22 | | | F23 | | | F20 | | | F21 | | | F25 | | | F8 | | | F24 | | | F30 | | |
| | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | | |
| 44 | Gunnedah | 370 | 421 | 457 | 795 | 895 | 923 | 4 | 4.1 | 4.3 | 365 | 365 | 351 | 1.2 | 1.7 | 2.9 | 1.5 | 1.6 | 1.4 | -13 | 0.0 | -0.6 | 5 | >100 | >100 | | | | 94 | 82 | 88 | 2.0 | 2.1 | 743 | 1,427 | 0.2 | 0.3 | | | | | |
| 46 | Narrabri | 531 | 576 | 642 | 724 | 733 | 947 | 3 | 3.2 | 4.1 | 391 | 154 | 99 | -2.2 | -1.4 | 5.8 | 0.0 | -1.4 | 3.3 | -17 | -16.9 | -21.1 | 0 | 0 | >100 | | | | 67 | 69 | 69 | 2.2 | 1.7 | -590 | 1,606 | -0.2 | 0.4 | | | | | |
| 43 | Tumut | 728 | 706 | 733 | 1311 | 1035 | 1158 | 6 | 4.6 | 5.1 | | 2800 | 488 | 1.6 | -0.2 | 0.2 | 1.0 | -0.3 | 0.0 | -5 | 0.0 | -2.6 | >100 | 0 | >100 | | | | 83 | 83 | 89 | 1.8 | 1.7 | -384 | 16 | -0.1 | 0.0 | | | | | |
| 49 | Young | 474 | 392 | 435 | 880 | 848 | 819 | 4 | 3.9 | 3.8 | 409 | 172 | 20 | 6.1 | 2.6 | 2.5 | 4.7 | 2.5 | 2.5 | -22 | -23.1 | 0.0 | >100 | >100 | >100 | | | | 80 | 80 | 76 | 2.1 | 2.0 | 522 | 59 | 0.1 | 0.0 | | | | | |
| 39 | Cowra | 889 | 1073 | 1012 | 1277 | 1320 | 1422 | 7 | 6.9 | 7.5 | 646 | 453 | 1615 | 2.0 | 0.2 | 1.2 | 2.4 | 0.6 | 1.6 | -3 | -2.2 | -8.9 | 6 | 1 | 4 | | | | 99 | 103 | 104 | 1.5 | 1.4 | -168 | 572 | 0.0 | 0.1 | | | | | |
| 45 | Upper Hunter | 803 | 948 | 885 | 1265 | 1216 | 1224 | 5 | 5.1 | 5.4 | 376 | 540 | 301 | 3.1 | 1.5 | 1.3 | 1.3 | -0.5 | 0.0 | -21 | 0.0 | -57.1 | >100 | 0 | 0 | | | | 76 | 77 | 77 | 1.5 | 1.4 | 727 | 592 | 0.1 | 0.1 | | | | | |
| 52 | Snowy River | 724 | 691 | 785 | 986 | 1045 | 1352 | 4 | 4.3 | 5.7 | 868 | 397 | 966 | -1.2 | 0.9 | 2.6 | -1.8 | 0.5 | 2.3 | -6 | -8.0 | -1.5 | 0 | >100 | >100 | | | | 19 | 21 | 21 | 0.5 | 0.4 | 407 | 1,266 | 0.1 | 0.2 | | | | | |
| 51 | Forbes | 707 | 710 | 726 | 1087 | 1114 | 1155 | 4 | 3.9 | 4.2 | 263 | 176 | 351 | 0.9 | 1.4 | -0.1 | 0.3 | 0.6 | -0.5 | -10 | -12.1 | -18.3 | >100 | >100 | 0 | | | | 63 | 64 | 64 | 1.6 | 1.5 | 643 | -28 | 0.2 | 0.0 | | | | | |
| 50 | Cooma-Monaro | 843 | 912 | 966 | 1221 | 1329 | 1312 | 4 | 5.1 | 5.0 | 406 | 432 | 1025 | -0.2 | 1.7 | 0.2 | 0.1 | 1.3 | -0.1 | -11 | -11.2 | -5.0 | 0 | >100 | 0 | | | | 66 | 65 | 68 | 1.3 | 1.3 | 764 | 11 | 0.2 | 0.0 | | | | | |
| 53 | Berrigan | 594 | 783 | 727 | 1164 | 1147 | 1100 | 4 | 4.0 | 3.9 | 280 | 432 | 407 | 2.4 | 0.9 | 0.6 | 1.6 | 0.3 | 0.1 | -7 | -8.5 | -10.8 | >100 | >100 | >100 | | | | 81 | 81 | 83 | 2.0 | 2.1 | 46 | -34 | 0.0 | 0.0 | | | | | |
| <i>Totals for 3,001 - 10,000 Props</i> | | | | | | | | | | | \$152M | | | | | | | | | | | <i>No. of LWUs paying dividend is 0</i> | | | | | | <i>19 of 22 LWUs had a +ve NPAT</i> | | | | | | | | | | | | | | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | Leeton | 771 | 920 | 911 | 1015 | 1211 | 1338 | 4 | 4.7 | 5.3 | 123 | 345 | 317 | 1.1 | 1.0 | 2.0 | -0.2 | 0.2 | 1.2 | -20 | -21.4 | -3.6 | 0 | >100 | >100 | | | | 63 | 63 | 65 | 1.3 | 1.2 | 270 | 659 | 0.1 | 0.1 | | | | | |
| 54 | Deniliquin | 828 | 833 | 973 | 1217 | 990 | 1189 | 4 | 3.3 | 4.0 | 433 | 358 | 623 | 2.1 | 1.4 | 2.0 | 0.4 | 0.3 | 0.0 | -17 | -14.1 | -8.0 | >100 | >100 | >100 | | | | 70 | 69 | 70 | 2.1 | 1.7 | -967 | 228 | -0.3 | 0.1 | | | | | |
| 47 | Bellington | 402 | 755 | 826 | 882 | 929 | 976 | 4 | 3.7 | 3.9 | 319 | 366 | 463 | 1.4 | 1.8 | 1.1 | -0.3 | -0.2 | -0.4 | -29 | -25.2 | -25.1 | 0 | 0 | 0 | | | | 89 | 91 | 90 | 2.4 | 2.3 | 590 | 360 | 0.2 | 0.1 | | | | | |
| 60 | Glen Innes Severn | 532 | 580 | 586 | 807 | 743 | 780 | 2 | 2.2 | 2.3 | 109 | 74 | 49 | 0.0 | -1.1 | 0.0 | 0.2 | -0.9 | -0.6 | -4 | -4.6 | -11.5 | 1 | 0 | 0 | | | | 54 | 56 | 56 | 2.5 | 2.4 | -487 | -79 | -0.2 | 0.0 | | | | | |
| 58 | Cootamundra | 495 | 446 | 516 | 697 | 775 | 837 | 2 | 2.2 | 2.4 | 16 | 30 | | -1.2 | -0.7 | -0.5 | -1.1 | -0.7 | -0.3 | -5 | -6.3 | -7.6 | 0 | 0 | 0 | | | | 78 | 80 | 79 | 3.6 | 3.2 | -173 | -254 | -0.1 | -0.1 | | | | | |
| 57 | Wellington | 795 | 924 | 846 | 1094 | 1190 | 1251 | 3 | 3.5 | 3.6 | 2120 | 1092 | 661 | -0.4 | -0.8 | -0.1 | 0.9 | 0.5 | 1.2 | 18 | 24.3 | -0.1 | 1 | 0 | 1 | | | | 60 | 63 | 62 | 1.8 | 1.7 | -425 | -226 | -0.1 | -0.1 | | | | | |
| 91 | Cabonne | 772 | 664 | 895 | 1723 | 1957 | 1955 | 2 | 2.3 | 2.2 | 268 | 1716 | 1545 | 0.5 | 0.8 | -0.5 | -0.4 | 0.3 | -0.9 | -14 | -10.5 | -9.4 | 0 | >100 | 0 | | | | 44 | 42 | 44 | 1.9 | 2.0 | 182 | -436 | 0.1 | -0.2 | | | | | |
| 80 | Greater Hume | 656 | 671 | 705 | 869 | 991 | 931 | 1 | 1.7 | 1.7 | 437 | 172 | 133 | -0.8 | -0.5 | -1.0 | -1.4 | -1.0 | -1.4 | -7 | -7.5 | -7.5 | 0 | 0 | 0 | | | | 37 | 42 | 42 | 2.5 | 2.5 | -159 | -371 | -0.1 | -0.2 | | | | | |
| 59 | Lachlan | 224 | 775 | 838 | 967 | 993 | 2610 | 3 | 2.8 | 7.4 | | 175 | | 0.6 | -0.1 | 9.8 | -0.5 | -0.5 | 8.9 | -17 | 0.0 | -17.0 | 0 | 0 | >100 | | | | 44 | 45 | 45 | 1.6 | 0.6 | -188 | 3,954 | -0.1 | 0.5 | | | | | |
| 65 | Murray | 635 | 594 | 619 | 1061 | 1048 | 1177 | 3 | 3.1 | 3.2 | 240 | 174 | 213 | 0.3 | 0.8 | 1.3 | 0.6 | 1.0 | 1.3 | 1 | -0.9 | -39.9 | 2 | 7 | 65 | | | | 49 | 53 | 53 | 1.7 | 1.6 | 386 | 644 | 0.1 | 0.2 | | | | | |
| 62 | Narromine | 665 | 608 | 675 | 927 | 968 | 1040 | 2 | 2.1 | 2.2 | 90 | 73 | | 3.8 | 1.1 | 5.8 | 2.2 | 0.8 | 4.1 | -35 | 0.0 | -60.6 | >100 | >100 | >100 | | | | 36 | 36 | 37 | 1.7 | 1.7 | 626 | 615 | 0.3 | 0.3 | | | | | |
| 56 | Yass Valley | 340 | 727 | 794 | 1028 | 1037 | 1959 | 3 | 3.2 | 6.1 | 534 | 2928 | 1197 | 1.0 | 0.5 | 7.1 | 1.0 | 0.5 | 6.8 | -21 | 0.0 | | >100 | >100 | >100 | | | | 43 | 45 | 43 | 1.4 | 0.7 | 104 | 2,756 | 0.0 | 0.5 | | | | | |
| 61 | Liverpool Plains | 609 | 527 | 610 | 698 | 746 | 906 | 2 | 1.9 | 2.4 | 231 | 401 | 1116 | -1.9 | -0.2 | 0.1 | -2.5 | -0.5 | -0.1 | -10 | -10.0 | -38.8 | 0 | 0 | 0 | | | | 62 | 60 | 59 | 3.2 | 2.4 | -177 | 37 | -0.1 | 0.0 | | | | | |
| 55 | Warrumbungle | 684 | 751 | 772 | 0 | 967 | 1035 | 0 | 3.2 | 3.4 | | 759 | 421 | | 0.0 | 0.7 | | 0.0 | 0.3 | | -11.8 | -22.8 | >100 | 0 | >100 | | | | 72 | 68 | 2.3 | 2.0 | -201 | 191 | -0.1 | 0.1 | | | | | | |
| 71 | Palerang | 395 | 725 | 733 | 1950 | 2072 | 1978 | 4 | 4.0 | 4.0 | 829 | 1715 | 3700 | 6.0 | 6.3 | 6.9 | 5.2 | 5.6 | 4.0 | -15 | -18.1 | -13.5 | >100 | >100 | >100 | | | | 24 | 29 | 28 | 0.7 | 0.7 | 1,896 | 2,557 | 0.5 | 0.6 | | | | | |
| 63 | Narrandera | 776 | 757 | 792 | 1009 | 1134 | 1102 | 2 | 2.3 | 2.3 | 348 | 343 | 27 | 1.2 | 3.2 | 4.8 | 1.2 | 3.0 | 2.4 | -29 | 0.0 | -40.0 | >100 | >100 | >100 | | | | 45 | 47 | 47 | 2.0 | 2.1 | 281 | 535 | 0.1 | 0.2 | | | | | |
| 67 | Cobar | 691 | 674 | 714 | 869 | 1014 | 823 | 2 | 2.2 | 1.9 | 175 | 261 | 189 | 0.0 | 1.0 | -1.1 | -0.5 | 0.9 | -1.2 | -4 | 0.0 | -1.4 | 0 | >100 | 0 | | | | 21 | 22 | 22 | 1.0 | 1.2 | 384 | -234 | 0.2 | -0.1 | | | | | |
| 74 | Wentworth | 698 | 677 | 638 | 1228 | 1191 | 1302 | 3 | 2.7 | 3.1 | 25 | 100 | 123 | 0.4 | 0.1 | 1.7 | 0.8 | 0.3 | 1.7 | -1 | -1.1 | -0.3 | 2 | 1 | >100 | | | | 35 | 33 | 35 | 1.2 | 1.1 | -51 | 641 | 0.0 | 0.2 | | | | | |
| 75 | Coonamble | 558 | 538 | 569 | 533 | 529 | 546 | 1 | 0.9 | 0.9 | | 176 | | -2.7 | -1.2 | -2.7 | -7.7 | -6.1 | -6.3 | -45 | -37.0 | -39.2 | 0 | 0 | 0 | | | | 23 | 24 | 24 | 2.7 | 2.6 | -115 | -286 | -0.1 | -0.3 | | | | | |
| <i>Totals for 1,501 - 3,000 Props</i> | | | | | | | | | | | \$62M | | | | | | | | | | | <i>No. of LWUs paying dividend is 0</i> | | | | | | <i>12 of 19 LWUs had a +ve NPAT</i> | | | | | | | | | | | | | | |
| <i>LWUs with 200 - 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | Kyogle | 623 | 624 | 756 | 913 | 1048 | 1099 | 2 | 1.9 | 2.0 | 847 | 1181 | 713 | 1.6 | 1.4 | 1.0 | 1.4 | 1.5 | 1.3 | -3 | -1.1 | -3.2 | >100 | 91 | 5 | | | | 53 | 53 | 53 | 2.8 | 2.6 | 251 | 54 | 0.1 | 0.0 | | | | | |
| 79 | Walgett | 776 | 766 | 831 | 1129 | 1199 | 1010 | 2 | 1.9 | 1.9 | | 218 | | -0.2 | 0.1 | -0.6 | -0.4 | 0.1 | -0.7 | -17 | -18.5 | -11.3 | 0 | >100 | 0 | | | | 23 | 23 | 23 | 1.2 | 1.2 | 95 | -136 | 0.0 | -0.1 | | | | | |
| 68 | Tenterfield | 805 | 974 | 927 | 1116 | 1168 | 1769 | 2 | 2.3 | 3.5 | 521 | 3801 | 1910 | -2.9 | -2.5 | 1.7 | -0.5 | -1.6 | 1.6 | -7 | 4.9 | 0.9 | 0 | 0 | >100 | | | | 42 | 41 | 43 | 1.8 | 1.2 | -840 | 579 | -0.4 | 0.2 | | | | | |
| 84 | Gilgandra | 415 | 521 | 565 | 868 | 882 | 1001 | 1 | 1.2 | 1.4 | 203 | 643 | 684 | 2.1 | 1.1 | 1.2 | 1.1 | 0.4 | 0.8 | -14 | -11.5 | -7.2 | >100 | >100 | >100 | | | | 25 | 25 | 26 | 2.1 | 1.9 | 74 | 146 | 0.1 | 0.1 | | | | | |
| 73 | Upper Lachlan | 687 | 735 | 718 | 1181 | 1615 | 1224 | 2 | 3.1 | 2.4 | 390 | 1355 | 2892 | 2.6 | 5.4 | 17.8 | 3.3 | 6.4 | 2.2 | -4 | -0.7 | -44.3 | 5 | 6 | >100 | | | | 31 | 31 | 33 | 1.0 | 1.4 | 1,080 | 4,415 | 0.3 | 1.9 | | | | | |
| 82 | Gloucester | 860 | 903 | 660 | 1091 | 1089 | 1353 | 2 | 1.8 | 2.3 | 116 | | 1390 | -0.8 | 0.8 | 4.0 | -0.8 | 0.4 | 3.7 | -14 | 0.0 | -8.1 | 0 | >100 | >100 | | | | 36 | 37 | 39 | 2.0 | 1.7 | 54 | 662 | 0.0 | 0.3 | | | | | |
| 87 | Bourke | 1020 | 1147 | 1082 | 1514 | 1557 | 1675 | 2 | 1.9 | 2.0 | 199 | 389 | 222 | -1.4 | -0.1 | 0.3 | -2.0 | -0.3 | -0.3 | -9 | -9.9 | -18.4 | 0 | 0 | 0 | | | | 10 | 10 | 10 | 0.5 | 0.5 | -69 | 41 | 0.0 | 0.0 | | | | | |

Table 5A: Water supply and sewerage indicators – financial (continued)

| WATER UTILITY | | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------------|------------------------|---------|----------|------------------------|-----------|----------|----------------|----------|----------|---|----------|---------|------------------|-----------|-------|------------------------------|-------|-------|--------------------|-------|---|-------------------|-------|-------|------------------|-------|---|-----------------------|-------|--------------|-------|-------------------|---------------------|----------|---------------------------|--|------------|--|
| | | Operating Cost (OMA) | | | Income per Property | | | Total Income | | | Capital Expenditure (Assets, Renewals, Plant/Equip) | | | Return on Assets | | | Economic Real Rate of Return | | | Net Debt to Equity | | | Interest Cover | | | Dividend Payable | | | Dividend Payout Ratio | | CSOs | | | % Revenue from CSOs | | Net Profit after Tax NPAT | | NPAT Ratio | |
| | | WS & SGE (\$/property) | | | (\$/property) WS & SGE | | | WS & Sge (\$M) | | | WS & Sge (\$ per prop) | | | WS & Sge (%) | | | WS & Sge (%) | | | WS & Sge (%) | | | WS & Sge (\$'000) | | | WS & Sge (%) | | WS & Sge (\$'000) | | | WS & Sge (%) | | WS & Sge (\$'000) | | WS & Sge | | | | |
| | | (23) F13 | (24) F7 | (24a) F3 | (24b) F28 + F29 | (24c) (%) | (25) F19 | (26) F22 | (27) F23 | (29) F20 | (29) F21 | (30) F25 | (31) F8 | (32) F24 | (32a) F30 | | | | | | | | | | | | | | | | | | | | | | | | |
| 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | | | |
| 86 | Hay | 665 | 709 | 1120 | 949 | 1052 | 1311 | 1 | 1.4 | 1.7 | 118 | 378 | 578 | -0.2 | 1.1 | -0.9 | -1.6 | 0.0 | -1.5 | -19 | -19.0 | -15.5 | 0 | >100 | 0 | | | 24 | 24 | 25 | 1.7 | 1.5 | 92 | -124 | 0.1 | -0.1 | | | |
| 83 | Oberon | 935 | 984 | 938 | 1184 | 1060 | 1169 | 2 | 1.4 | 1.6 | 290 | 170 | 148 | 1.0 | -0.6 | 1.1 | 0.0 | -1.1 | 0.6 | -2 | -3.1 | -0.1 | >100 | 0 | >100 | | | 18 | 17 | 19 | 1.2 | 1.2 | -83 | 136 | -0.1 | 0.1 | | | |
| 81 | Gwydir | 581 | 831 | 687 | 1308 | 1218 | 1572 | 2 | 1.8 | 2.3 | 710 | 119 | | -0.5 | 1.9 | 6.2 | -0.1 | 2.2 | 6.5 | 5 | -0.2 | -15.1 | 0 | 7 | 17 | | | 45 | 46 | 47 | 2.6 | 2.0 | 151 | 605 | 0.1 | 0.3 | | | |
| 85 | Uralla | 816 | 743 | 683 | 676 | 771 | 707 | 1 | 1.2 | 1.1 | 32 | 69 | 73 | 0.4 | 0.1 | -0.5 | -0.2 | 0.0 | 0.4 | -5 | -4.4 | -0.6 | 0 | >100 | 0 | | | 32 | 32 | 30 | 2.6 | 2.8 | -60 | -137 | 0.0 | -0.1 | | | |
| 89 | Bogan | 1051 | 1028 | 1026 | 1065 | 1135 | 1298 | 1 | 1.2 | 1.3 | 212 | 181 | 138 | -1.8 | -1.4 | -1.0 | -2.2 | -1.8 | -1.3 | -6 | -6.4 | -9.4 | 0 | 0 | 0 | | | 17 | 17 | 17 | 1.5 | 1.3 | -241 | -175 | -0.2 | -0.1 | | | |
| 76 | Harden | 878 | 671 | 709 | 1019 | 1150 | 1153 | 2 | 2.0 | 2.2 | 242 | | | -0.9 | 0.2 | 0.1 | -0.9 | 0.1 | 0.0 | -2 | -4.8 | -9.4 | 0 | >100 | >100 | | | 35 | 34 | 36 | 1.7 | 1.7 | 38 | 15 | 0.0 | 0.0 | | | |
| 88 | Wakool | 819 | 791 | 781 | 1201 | 1239 | 1238 | 2 | 1.7 | 1.8 | 238 | 171 | 78 | -0.2 | -0.2 | -0.4 | -0.1 | -0.2 | -0.4 | 0 | -1.6 | -6.6 | 0 | 0 | 0 | | | 26 | 26 | 27 | 1.5 | 1.5 | -182 | -219 | -0.1 | -0.1 | | | |
| 93 | Tumbarumba | 495 | 540 | 594 | 948 | 957 | 935 | 1 | 1.1 | 1.1 | 565 | 384 | 219 | 2.0 | 0.9 | 1.9 | 0.8 | 0.8 | 0.6 | -13 | -12.6 | -0.3 | >100 | >100 | >100 | | | 19 | 19 | 18 | 1.7 | 1.7 | 79 | 234 | 0.1 | 0.2 | | | |
| 94 | Gundagai | 665 | 733 | 966 | 682 | 878 | 1045 | 1 | 0.9 | 0.9 | 119 | 88 | 130 | -1.5 | -1.0 | -1.7 | -1.9 | -1.4 | -2.0 | -6 | 0.0 | -6.9 | 0 | 0 | 0 | | | 19 | 21 | 21 | 2.3 | 2.3 | -130 | -230 | -0.1 | -0.3 | | | |
| 92 | Carrathool | 899 | 929 | 1076 | 1064 | 1135 | 1135 | 1 | | 1.3 | 425 | | 365 | -1.7 | | -2.1 | -1.7 | | -2.1 | | 0.0 | 2.1 | 0 | >100 | 0 | | | 14 | | 13 | | 2.0 | | -1,073 | | -0.8 | | | |
| 96 | Warren | 727 | 793 | 805 | 925 | 947 | 1013 | 1 | 0.9 | 1.0 | | | | 0.3 | -0.2 | 0.2 | -0.8 | -1.4 | -1.0 | -4 | -19.7 | -74.6 | 0 | 0 | 0 | | | 15 | 16 | 18 | 1.8 | 1.9 | -62 | -68 | -0.1 | -0.1 | | | |
| 98 | Walcha | 727 | 812 | 745 | 951 | 921 | 926 | 1 | 0.8 | 0.8 | 40 | | 162 | 0.2 | -0.3 | 0.1 | 0.0 | -0.4 | -0.1 | -3 | -3.9 | -7.3 | >100 | 0 | 0 | | | 9 | 18 | 18 | 2.2 | 2.1 | -163 | 36 | -0.2 | 0.0 | | | |
| 100 | Balranald | 648 | 631 | 592 | 1081 | 800 | 923 | 1 | 0.7 | 0.8 | 380 | 143 | | 0.0 | -1.1 | -0.5 | 0.1 | -1.0 | -0.3 | 2 | 1.3 | -6.3 | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 97 | Bombala | 539 | 683 | 643 | 937 | 980 | 992 | 1 | 0.8 | 0.8 | | | | 1.9 | 0.2 | 1.0 | 0.8 | -0.3 | 0.1 | -13 | -13.4 | -15.6 | >100 | 0 | >100 | | | 19 | 18 | 19 | 2.2 | 2.3 | -31 | 82 | 0.0 | 0.1 | | | |
| 101 | Murrumbidgee | 347 | 470 | 549 | 598 | 604 | 619 | 1 | 0.5 | 0.6 | 35 | 147 | 339 | 2.2 | 1.0 | -1.3 | -1.0 | -2.0 | -3.9 | -34 | 0.0 | -2.0 | 0 | 0 | 0 | | | 14 | 14 | 14 | 2.6 | 2.5 | 30 | -56 | 0.1 | -0.1 | | | |
| 90 | Guyra | 670 | 792 | 833 | 1185 | 1130 | 1212 | 1 | 1.3 | 1.5 | 116 | 113 | 139 | 2.0 | 0.8 | 1.1 | 1.8 | 1.0 | 1.1 | -1 | -1.3 | -5.6 | >100 | 5 | 22 | | | 27 | 28 | 28 | 2.1 | 1.9 | 199 | 280 | 0.2 | 0.2 | | | |
| 104 | Boorowa | 461 | 624 | 728 | 1294 | 1287 | 1377 | 1 | 0.9 | 0.9 | | | 257 | 2.0 | 1.9 | 1.4 | 1.8 | 1.7 | 1.0 | -6 | -8.7 | -13.9 | >100 | >100 | >100 | | | 14 | 15 | 15 | 1.7 | 1.8 | 63 | 23 | 0.1 | 0.0 | | | |
| 105 | Brewarrina | 1329 | 1696 | 1674 | 1902 | 1988 | 2022 | 1 | 1.0 | 1.0 | | | 152 | -0.6 | -1.2 | -0.9 | -0.7 | -1.3 | -1.1 | -8 | -8.2 | -9.9 | 0 | 0 | 0 | | | 4 | 4 | 4 | 0.4 | 0.4 | -140 | -179 | -0.1 | -0.2 | | | |
| 106 | Jerilderie | 747 | 775 | 983 | 1241 | 1280 | 1260 | 1 | 0.6 | 0.6 | 58 | | | 2.6 | 2.4 | 0.9 | 0.8 | 0.7 | -0.6 | -20 | 0.0 | -16.9 | >100 | >100 | 0 | | | 10 | 10 | 10 | 1.7 | 1.7 | 144 | 32 | 0.2 | 0.1 | | | |
| 103 | Central Darling | 906 | 1003 | 787 | 990 | 1110 | 942 | 1 | 0.8 | 0.7 | | | | 0.3 | 0.9 | -0.7 | -0.1 | 0.6 | -0.8 | -7 | 0.0 | -1.6 | 0 | >100 | 0 | | | | | | | | | | | | | | |
| <i>Totals for 200 - 1,500 Props</i> | | | | | | | | | | | <i>\$39M</i> | | | | | | | | | | | <i>No. of LWUs paying dividend is 0</i> | | | | | | <i>15 of 27 LWUs had a +ve NPAT</i> | | | | | | | | | | | |
| <i>LWUs with a single service (WS or Sge)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Rous (Bulk Supplier) (NO SGE) | 143 | 182 | 204 | 274 | 294 | 326 | 12 | 13.4 | 14.9 | 348 | 80 | 109 | -1.2 | -1.1 | -1.1 | -0.2 | -0.3 | -0.4 | 10 | 10.8 | 10.4 | 0 | 0 | 0 | | | 10 | 7 | 12 | 0.1 | 0.1 | -5,240 | -6,293 | -0.4 | -0.4 | | | |
| 8 | Riverina (Groundwater) (NO SGE) | 277 | 303 | 312 | 600 | 626 | 648 | 17 | 17.7 | 18.6 | 17 | 306 | 233 | 3.9 | 3.7 | 3.6 | 3.4 | 3.4 | 3.4 | -7 | 0.0 | -5.0 | >100 | >100 | 0 | | | 187 | 190 | 192 | 1.1 | 1.0 | 3,940 | 2,545 | 0.2 | 0.1 | | | |
| 12 | Fish River WS (Bulk Supplier, NO SGE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28A | Goldenfields (Reticulator) (NO SGE) | 700 | 657 | 694 | 555 | 612 | 631 | 6 | 6.1 | 6.3 | 5 | 134 | 116 | 0.1 | -0.1 | -0.6 | -1.3 | -0.9 | -1.1 | | 0.0 | -9.4 | 0 | 0 | 0 | | | 96 | 97 | | 1.6 | 1.5 | | -725 | | -0.1 | | | |
| 28B | Goldenfields (Bulk) (NO SGE) | 254 | 216 | 252 | 305 | 306 | 354 | 5 | 5.7 | 6.7 | | | | -0.5 | -0.5 | 0.0 | -0.5 | -0.8 | -0.4 | | 0.0 | -8.1 | >100 | 0 | 0 | | | 0 | 0 | 0.0 | 0.0 | | -9 | | 0.0 | | | | |
| 40 | Central Tablelands (NO SGE) | 401 | 439 | 421 | 656 | 766 | 732 | 3 | 4.0 | 3.9 | 210 | | | -0.6 | -0.7 | 0.0 | -0.2 | 0.3 | 0.3 | 6 | 5.1 | -4.1 | 0 | 0 | 1 | | | 57 | 56 | 56 | 1.4 | 1.4 | -581 | -318 | -0.1 | -0.1 | | | |
| 9 | Wagga Wagga (NO WS) | 211 | 270 | 251 | 534 | 574 | 442 | 12 | 13.6 | 11.1 | 592 | | | | | 1.9 | 1.0 | 1.0 | 1.3 | -9 | 3.6 | 4.8 | >100 | 9 | 0 | | | 154 | 153 | 159 | 1.1 | 1.4 | 1,701 | 417 | 0.1 | 0.0 | | | |
| 69 | Temora (NO WS) | 155 | 155 | 219 | 231 | 254 | 266 | 0 | 0.5 | 0.6 | 68 | | | 0.8 | 1.5 | 0.2 | 0.4 | 1.0 | -0.3 | -6 | 0.0 | -4.1 | >100 | >100 | 0 | | | 25 | 25 | 25 | 4.7 | 4.4 | 130 | 18 | 0.2 | 0.0 | | | |
| 72 | Bland (NO WS) | 324 | 312 | 292 | 0 | 537 | 539 | 0 | 0.9 | 1.0 | | | | | 0.1 | 2.0 | | 0.5 | 1.0 | | 0.0 | -18.9 | >100 | 1 | >100 | | | | 22 | | 2.2 | 8 | 250 | 0.0 | 0.3 | | | | |
| 77 | Junee (NO WS) | 230 | 238 | 275 | 341 | 4382 | 396 | 1 | 0.6 | 0.6 | 86 | | | 0.4 | 0.7 | 0.0 | -0.1 | 0.1 | -0.4 | -9 | 0.0 | -0.3 | 0 | >100 | 0 | | | 19 | 19 | 20 | 3.2 | 3.2 | 74 | 1 | 0.1 | 0.0 | | | |
| 78 | Blayney (NO WS) | 301 | 335 | 335 | 557 | 518 | 560 | 1 | 0.9 | 1.1 | 27 | | | -2.0 | -0.4 | 0.2 | 0.3 | -0.2 | 0.4 | -10 | -11.5 | -16.1 | 0 | 0 | 2 | | | 16 | 24 | 1.7 | 2.3 | -53 | 30 | -0.1 | 0.0 | | | | |
| 95 | Weddin (NO WS) | 124 | 185 | 127 | 200 | 208 | 227 | 0 | 0.2 | 0.2 | | | | 0.7 | -1.6 | -0.6 | -0.1 | -1.9 | -1.0 | -15 | 0.0 | -0.8 | 0 | 0 | 0 | | | 16 | 14 | 16 | 6.6 | 6.9 | -158 | -31 | -0.7 | -0.1 | | | |
| 99 | Coolamon (NO WS) | 147 | 197 | 271 | 425 | 600 | 425 | 0 | 0.6 | 0.4 | 88 | | | 1.6 | 3.0 | 0.6 | 1.0 | 2.4 | 0.1 | -10 | 0.0 | -10.0 | >100 | >100 | >100 | | | 13 | 12 | 13 | 2.1 | 3.1 | 265 | 18 | 0.5 | 0.0 | | | |
| 102 | Lockhart (NO WS) | 330 | 266 | 281 | 361 | 3245 | 406 | 0 | 0.3 | 0.3 | | | | -0.5 | 0.2 | -0.2 | -1.5 | -0.8 | -1.0 | -17 | 0.0 | -0.3 | 0 | 0 | 0 | | | 9 | 10 | 3.0 | 4 | -9 | 0.0 | 0.0 | | | | | |
| <i>Totals for all LWUs</i> | | | | | | | | | | | <i>Total Income for single service LWUs is \$66 M</i> | | | | | | | | | | | <i>No single service LWUs paid a dividend</i> | | | | | | <i>7 of 13 single service LWUs had a +ve NPAT</i> | | | | | | | | | | | |
| | | | | | | | | | | | <i>Total Income is \$1050 M including single service LWUs</i> | | | | | | | | | | | <i>Total No. of LWUs paying dividend is 4</i> | | | | | | <i>Total No. of LWUs with +ve NPAT is 68</i> | | | | | | | | | | | |
| <i>Median ERRR (% LWU basis excluding single service LWUs) 0.6</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Median Net Debt to Equity (% LWU basis excluding single service LWUs) -7.1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 5B: Water supply and sewerage – levels of service, environmental

| WATER UTILITY | LEVELS OF SERVICE | | | | | | ENVIRONMENTAL | | | | | | | |
|--|--------------------------------|-------|-------|--|-------|-------|--------------------------|-------|--------------|-------|--------------|-------|--------------|-------|
| | Billing Complaints WS & Sge | | | % of calls Answered by Operator within 30 seconds | | | Greenhouse Gas Emissions | | | | | | | |
| | (per 1000 properties) | | | (seconds) | | | Water | | Sewerage | | Other | | Total | |
| | (33) C12 | | | (34) C14 | | | (35a) E9 | | (35b) E10 | | (35c) E11 | | (35d) E12 | |
| | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 |
| Sydney Water | 5 | 4 | 1 | 89 | 85 | 89 | 68 | 71 | 192 | 184 | -55 | -87 | 200 | 164 |
| Hunter Water | 3 | 2 | 2 | 56 | 72 | 70 | 132 | 144 | 273 | 294 | 21 | 26 | 412 | 448 |
| Sydney Catchment Authority | | | | | | | | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | |
| 1 Gosford | - | - | - | - | - | - | 128 | 147 | 126 | 312 | 13 | 24 | 267 | 482 |
| 2 Wyong | 0 | 0 | 0 | 88 | 92 | 65 | - | - | - | - | - | - | - | - |
| 3 Shoalhaven | 0 | 0 | 0 | 100 | 100 | 100 | 239 | 205 | 163 | 164 | 7 | 8 | 408 | 377 |
| 5 MidCoast | 0 | 0 | 0 | - | - | - | 165 | 117 | 138 | 129 | 12 | 80 | 315 | 326 |
| 6 Tweed | 0 | 0 | 0 | - | - | - | 150 | 161 | 189 | 266 | - | 0 | 339 | 427 |
| 7 Port Macquarie-Hastings | 0 | 0 | 0 | 86 | 81 | 85 | | | | | | | 12 | 103 |
| 11 Albury City | 0 | 0 | 0 | - | - | 49 | 310 | 308 | 238 | 233 | | | 548 | 540 |
| 10 Coffs Harbour | 0 | 0 | 0 | - | - | 85 | 104 | 113 | 278 | 322 | 76 | 19 | 458 | 453 |
| 13 Tamworth Regional | 5 | 0 | 0 | - | - | - | 261 | 223 | 118 | 233 | | | 379 | 457 |
| 15 Eurobodalla | 0 | 0 | 0 | - | - | 100 | 186 | 192 | 159 | 139 | | - | 345 | 331 |
| 17 Queanbeyan | 9 | 9 | 5 | - | - | - | 15 | 15 | 160 | 224 | 39 | 43 | 214 | 281 |
| 19 Orange | 0 | 7 | 8 | - | - | 80 | 241 | 242 | 186 | 193 | | | 428 | 435 |
| 20 Goulburn Mulwaree | 0 | 0 | 0 | - | - | - | 122 | 114 | 134 | 169 | 2 | 2 | 257 | 285 |
| 18 Dubbo | 2 | 1 | 1 | 82 | 87 | 88 | 545 | 280 | 202 | 396 | 13 | 12 | 759 | 689 |
| 16 Wingecarribee | 13 | 3 | 16 | 100 | 75 | 75 | 178 | 177 | 151 | 143 | 7 | 17 | 336 | 338 |
| 14 Clarence Valley | 1 | 1 | 1 | - | - | - | 16 | 23 | 84 | 90 | - | - | 100 | 113 |
| 21 Bathurst Regional | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - |
| 24 Ballina | | 0 | 0 | 99 | 99 | 99 | 2 | 13 | 264 | 267 | - | - | 266 | 280 |
| 22 Lismore | 0 | 0 | 0 | 75 | 75 | 75 | 7 | 14 | 162 | 185 | | - | 169 | 198 |
| <i>Totals for >10,000 Properties</i> | | | | | | | | | | | | | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | |
| 23 Bega Valley | 3 | 2 | 2 | 87 | 72 | 71 | 8 | 8 | 8 | 69 | 1 | - | 17 | 77 |
| 27 Byron | 2 | 7 | 5 | - | - | - | - | 14 | - | 457 | - | - | - | 471 |
| 26 Country Energy | 0 | 0 | 0 | - | - | 80 | 549 | 906 | 55 | 77 | | 15 | 604 | 998 |
| 25 Kempsey | 0 | 0 | 0 | | 0 | 51 | 173 | 214 | 150 | 149 | 1 | 39 | 324 | 401 |
| 31 Lithgow | | 0 | 0 | | 100 | 100 | 53 | - | 28 | - | - | - | 81 | - |
| 29 Armidale Dumaresq | 0 | - | 0 | - | - | - | 113 | 177 | 53 | 61 | 25 | 22 | 191 | 259 |
| 30 Griffith | 5 | 0 | 0 | - | - | - | 366 | 386 | 53 | 51 | - | 2 | 419 | 440 |
| 33 Richmond Valley | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - |
| 32 Mid-Western Regional | 1 | 0 | 0 | - | - | 80 | - | - | - | - | - | - | - | - |
| 34 Nambucca | 3 | 0 | 0 | | 100 | 100 | - | 4218 | - | 177 | - | - | - | 4,395 |
| 35 Singleton | 0 | 0 | 0 | - | - | - | - | - | - | 187 | - | 203 | - | 390 |
| 37 Inverell | 1 | 1 | 1 | | 100 | 100 | | 144 | | 103 | | 19 | | 266 |
| 41 Muswellbrook | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 36 Parkes | 2 | 0 | 0 | | - | 100 | - | - | - | - | - | - | - | - |
| 42 Corowa | 0 | 0 | 0 | 100 | 100 | 100 | - | - | - | - | - | - | - | - |
| 38 Moree Plains | 17 | 9 | 15 | | 90 | 80 | 64 | 45 | 64 | 56 | - | - | 128 | 101 |

Table 5B: Water supply and sewerage – levels of service, environmental (continued)

| WATER UTILITY | LEVELS OF SERVICE | | | | | | ENVIRONMENTAL | | | | | | | | |
|---|--------------------------------|-------|-------|--|-------|-------|--|-------|---|-------|--|-------|--|------|-------|
| | Billing Complaints WS & Sge | | | % of calls Answered by Operator within 30 seconds | | | Greenhouse Gas Emissions | | | | | | | | |
| | (per 1000 properties) | | | (seconds) | | | Water (tonnes CO2 per 1000 properties) | | Sewerage (tonnes CO2 per 1000 properties) | | Other (tonnes CO2 per 1000 properties) | | Total (tonnes CO2 per 1000 properties) | | |
| | (33) C12 | | | (34) C14 | | | (35a) E9 | | (35b) E10 | | (35c) E11 | | (35d) E12 | | |
| 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | | |
| 44 | Gunnedah | 10 | 8 | 0 | 90 | 95 | 96 | - | 239 | - | - | - | - | - | 239 |
| 46 | Narrabri | 5 | 5 | 6 | - | - | 100 | - | - | - | - | - | - | - | - |
| 43 | Tumut | 1 | 7 | 7 | - | - | 99 | - | 169 | - | 216 | - | 11 | - | 397 |
| 49 | Young | 3 | 5 | 1 | - | 95 | - | - | - | - | - | - | - | - | - |
| 39 | Cowra | 3 | 1 | 3 | 100 | 100 | 100 | - | 374 | - | 29 | - | - | - | 402 |
| 45 | Upper Hunter | 5 | 6 | 5 | - | - | 99 | - | - | - | - | - | - | - | - |
| 52 | Snowy River | 10 | 2 | 2 | 95 | 95 | 95 | 289 | 270 | 137 | 135 | - | - | 426 | 406 |
| 51 | Forbes | 0 | 0 | 0 | 100 | 100 | 100 | 180 | 231 | 122 | 176 | 36 | 23 | 339 | 430 |
| 50 | Cooma-Monaro | 1 | 16 | 10 | 95 | 95 | 98 | - | 221 | - | 176 | - | - | - | 397 |
| 53 | Berrigan | 9 | 19 | 18 | - | - | - | - | 1964 | - | 2355 | - | - | - | 4,319 |
| <i>Totals for 3,001 - 10,000 Props</i> | | | | | | | | | | | | | | | |
| LWUs with 1,501 - 3,000 Properties | | | | | | | | | | | | | | | |
| 48 | Leeton | 1 | 3 | 3 | 100 | 100 | 100 | - | - | - | - | - | - | - | - |
| 54 | Deniliquin | 2 | 3 | 0 | - | - | - | - | - | - | - | - | - | - | - |
| 47 | Bellingen | 2 | 1 | 0 | 95 | 95 | 95 | - | - | - | - | - | - | - | - |
| 60 | Glen Innes Severn | 37 | - | 3 | 100 | 100 | 100 | - | 139 | - | 99 | - | 9 | - | 247 |
| 58 | Coolamundra | 1 | 2 | 2 | 80 | 80 | 80 | - | - | - | 68 | - | - | - | 68 |
| 57 | Wellington | 95 | 36 | 45 | 99 | - | - | 468 | 265 | - | - | - | - | 1004 | 460 |
| 91 | Cabonne | 10 | 9 | 8 | - | - | - | - | - | - | - | - | - | - | - |
| 80 | Greater Hume | 0 | 0 | 0 | 100 | 100 | 100 | 155 | 133 | 178 | 159 | 15 | 15 | 348 | 306 |
| 59 | Lachlan | - | - | 1 | 100 | 100 | 100 | 341 | - | 85 | - | 11 | - | 438 | - |
| 65 | Murray | 0 | 0 | 0 | 95 | 98 | 99 | - | 180 | - | 140 | - | - | - | 319 |
| 62 | Narromine | 6 | 4 | 11 | - | 87 | 87 | 283 | 288 | 113 | 1265 | 10 | 10 | 406 | 1,563 |
| 56 | Yass Valley | 5 | 4 | 6 | 95 | 95 | 95 | - | 115 | - | 123 | - | 16 | - | 255 |
| 61 | Liverpool Plains | - | 8 | 19 | - | - | - | - | - | - | - | - | - | - | - |
| 55 | Warrumbungle | 1 | 0 | 0 | - | - | - | 257 | 192 | 70 | 61 | - | - | 327 | 252 |
| 71 | Palerang | 24 | 16 | 23 | - | 90 | 90 | 152 | 128 | 101 | 107 | - | - | 252 | 235 |
| 63 | Narrandera | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 67 | Cobar | 9 | 5 | 4 | - | 100 | 100 | - | 51 | - | 120 | - | - | - | 171 |
| 74 | Wentworth | 0 | 1 | 0 | - | - | 100 | - | - | - | - | - | - | - | - |
| 75 | Coonamble | 0 | 0 | 3 | - | 90 | 90 | - | 150 | - | 178 | - | 8 | - | 337 |
| <i>Totals for 1,501 - 3,000 Props</i> | | | | | | | | | | | | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | |
| 70 | Kyogle | 4 | 1 | 1 | 100 | 100 | 100 | 150 | 233 | 78 | 84 | 17 | 18 | 246 | 335 |
| 79 | Walgett | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 68 | Tenterfield | 3 | - | - | 90 | - | 90 | - | - | - | - | - | - | - | - |
| 84 | Gilgandra | 7 | 6 | 7 | 80 | 75 | 75 | 22 | 26 | 4 | 4 | 2 | 2 | 27 | 32 |
| 73 | Upper Lachlan | 3 | 2 | 5 | 95 | 90 | 90 | 131 | 130 | - | - | - | - | 131 | 130 |
| 82 | Gloucester | 1 | 8 | 7 | 50 | 50 | 50 | 176 | 136 | 77 | 237 | 27 | 0 | 279 | 373 |
| 87 | Bourke | 12 | 6 | 9 | 100 | 80 | 80 | - | - | - | - | - | - | - | - |

Table 5B: Water supply and sewerage – levels of service, environmental (continued)

| WATER UTILITY | LEVELS OF SERVICE | | | | | | ENVIRONMENTAL | | | | | | | | |
|-------------------------------------|--------------------------------|-------|-------|--|-------|-------|--|-------|---|-------|---|-------|---|-------|-------|
| | Billing Complaints WS & Sge | | | % of calls Answered by Operator within 30 seconds | | | Greenhouse Gas Emissions | | | | | | | | |
| | (per 1000 properties) | | | (seconds) | | | Water | | Sewerage | | Other | | Total | | |
| | (33) C12 | | | (34) C14 | | | (tonnes CO2 per 1000 properties) (35a) E9 | | (tonnes CO2 per 1000 properties) (35b) E10 | | (tonnes CO2 per 1000 properties) (35c) E11 | | (tonnes CO2 per 1000 properties) (35d) E12 | | |
| 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | | |
| 86 | Hay | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | | |
| 83 | Oberon | 5 | 2 | 6 | 95 | 95 | - | 142 | - | 51 | - | - | - | 193 | |
| 81 | Gwydir | 0 | 1 | 4 | - | - | - | - | - | - | - | - | - | | |
| 85 | Uralla | 3 | 3 | 14 | 85 | 85 | 95 | 97 | 104 | 145 | 111 | 8 | 5 | 249 | 221 |
| 89 | Bogan | 0 | 1 | 1 | 98 | 97 | 97 | - | - | - | - | - | - | - | |
| 76 | Harden | 12 | 6 | 23 | 80 | 90 | 95 | - | 11 | - | 48 | - | 3 | - | 63 |
| 88 | Wakool | 0 | 0 | 0 | 100 | - | - | - | - | - | - | - | - | - | |
| 93 | Tumbarumba | 2 | 6 | 5 | 100 | - | - | - | - | - | - | - | - | - | |
| 94 | Gundagai | 7 | 8 | 13 | 95 | 98 | 98 | 339 | 407 | - | 171 | - | - | 339 | 578 |
| 92 | Carrathool | 1 | 2 | 0 | 100 | - | 100 | 1075 | 1058 | 69 | 65 | - | - | 1144 | 1,124 |
| 96 | Warren | 27 | 85 | 84 | 90 | 95 | 96 | 230 | - | 52 | - | 25 | - | 306 | - |
| 98 | Walcha | 2 | 2 | 2 | - | - | 100 | - | 342 | - | 25 | - | 17 | - | 384 |
| 100 | Balranald | 0 | 0 | 0 | 100 | 100 | 100 | 29078 | - | - | - | - | - | 29078 | - |
| 97 | Bombala | 0 | 0 | 0 | 100 | 100 | 100 | 141 | 184 | 49 | 47 | 178 | - | 367 | 231 |
| 101 | Murrumbidgee | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | Guyra | 0 | 4 | 2 | 100 | 100 | - | 334 | 447 | 111 | 120 | 10 | 10 | 455 | 577 |
| 104 | Boorowa | 0 | 0 | 0 | 98 | 99 | 99 | - | - | - | - | - | - | - | - |
| 105 | Brewarrina | 0 | 0 | 0 | - | - | 95 | 589 | 495 | - | 135 | - | - | 589 | 631 |
| 106 | Jerilderie | 0 | 0 | 0 | 95 | 95 | 95 | 76 | 15 | 82 | 34 | 11 | 6 | 168 | 56 |
| 103 | Central Darling | 44 | 35 | 6 | - | - | - | - | - | - | - | - | - | - | - |
| <i>Totals for 200 - 1,500 Props</i> | | | | | | | | | | | | | | | |

LWUs with a single service (WS or Sge)

| | | | | | | | | | | | | | | |
|-----|---------------------------------------|---|---|---|----|-----|-----|-----|-----|-----|---|-----|-----|-----|
| 4 | Rous (Bulk Supplier) (NO SGE) | 0 | | | 95 | 95 | - | - | - | - | - | - | - | - |
| 8 | Riverina (Groundwater) (NO SGE) | 0 | 1 | 2 | 99 | 98 | 395 | 407 | - | - | 0 | 0 | 395 | 407 |
| 12 | Fish River WS (Bulk Supplier, NO SGE) | 0 | | | 98 | 98 | 118 | - | - | - | - | - | - | 118 |
| 28A | Goldenfields (Reticulator) (NO SGE) | | | - | - | - | - | - | - | - | - | - | - | - |
| 28B | Goldenfields (Bulk) (NO SGE) | | | - | - | - | - | - | - | - | - | - | - | - |
| 40 | Central Tablelands (NO SGE) | 0 | 0 | 0 | - | 98 | 303 | 297 | - | - | 4 | 5 | 308 | 302 |
| 9 | Wagga Wagga (NO WS) | 0 | | | - | 100 | - | - | 36 | 199 | - | - | 36 | 199 |
| 69 | Temora (NO WS) | 0 | 0 | 0 | - | - | - | - | 3 | 22 | 0 | - | 4 | 22 |
| 72 | Bland (NO WS) | | 0 | 0 | - | - | - | - | - | - | - | - | - | - |
| 77 | Junea (NO WS) | 0 | 0 | 0 | - | - | - | - | - | 300 | - | - | - | 300 |
| 78 | Blayney (NO WS) | 0 | 0 | 0 | - | - | - | - | 133 | 121 | - | 6 | 133 | 128 |
| 95 | Weddin (NO WS) | 0 | 0 | 0 | - | - | - | - | - | 19 | - | - | - | 19 |
| 99 | Coolamon (NO WS) | | 0 | 0 | - | - | - | - | - | 221 | - | - | - | 221 |
| 102 | Lockhart (NO WS) | | 0 | 0 | - | - | - | - | - | 122 | - | 144 | - | 267 |

Table 6: Water supply – residential charges, bills and cost recovery (continued)

| WATER UTILITY | RESIDENTIAL CHARGES - Current and 2010/11 | | | | | | | | | | | | | | | BILLS | | COST RECOVERY | | | | | | | | | | Total Connected Properties (15) C4 | | | | | | | | | | | | | | | | | |
|--|---|-----------------|---------------------------|-----------|--------------------------------------|-----------|-------------------------|------------|-------------|------------------------|------------------------------------|----------------------|--------------------------|-------------|--|------------------|---------------------|---|--|-----------------------------|-------------|---------------------------------|-------|-------|-------|-------|-------|--|-------|------|------|------|------|------|------|------|-----|-------|-----|--------------|-------|-------|-------|----|-------|
| | Type of Tariff | | Fixed Charge (or Minimum) | | Usage Charge (for Step 1 and Step 2) | | | | | | Billing (2006 National Guidelines) | Operating Cost (OMA) | Typical Developer Charge | | Typical Residential Bill based on ave res water supplied | Return on Assets | ERRR (Water Supply) | Residential Revenue from Usage Charges (% of residential) | Ave Annual Residential Water Supplied ² | | | Full Cost Recovery? (N / Y / Y) | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Step 1 | | | Step 2 | | | | | | | | | | | Potable kL/prop (14a) P2.1 | Pot + Non Pot kL/prop (14b) | L/c/d (14c) | | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) P1 | (2) P1.2 | (5a) P1.3 | (5b) P1.3 | (5c) P1.4 | (5d) P1.4 | (5e) (% Implementation) | (6) (c/kL) | (7) (\$/ET) | (8) P3 (\$/assessment) | (11) (%) | (12) F17 (%) | (13) F4 (%) | (14c) (14c) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | | 09/10 | | | | | | | | | | | | | | | | |
| 42 | Corowa | Two Part | Two Part | 155 | 160 | 170 | All | All | All | 80 | 83 | 90 | | 95 | 75 | 85 | 88 | 910 | 910 | 730 | 351 | 356 | 383 | -2.7 | 0.8 | 2.9 | -2.7 | 2.6 | 1.2 | 56* | 56* | 245 | 237 | 245 | 237 | 309 | Y | 5,030 | | | | | | | |
| 43 | Tumut | Inclining Block | Inclining Block | 99 | 111 | 128 | <300 | <300 | <300 | 99 | 111 | 125 | >300 | >300 | >300 | 149 | 167 | 192 | | | | 4,390 | 4,540 | 4,540 | 316 | 335 | 380 | -0.2 | -1.1 | -0.7 | -0.7 | -1.2 | -0.6 | 73 | 67* | 219 | 201 | 219 | 202 | 248 | Y | 4,440 | | | |
| 44 | Gunnedah (Groundwater) | Inclining Block | Inclining Block | 161 | 183 | 179 | <400 | <400 | <400 | 75 | 90 | 83 | >400 | >400 | >400 | 120 | 130 | 135 | | | | 4,120 | 4,280 | 4,380 | 373 | 487 | 459 | 2.3 | 2.9 | 4.3 | 2.6 | 2.8 | 3.0 | 65 | 62* | 282 | 338 | 282 | 338 | 363 | Y | 4,640 | | | |
| 45 | Upper Hunter | Inclining Block | Inclining Block | 241 | 249 | 259 | <300 | <300 | <300 | 112 | 116 | 121 | >300 | >300 | >300 | 160 | 166 | 173 | | 60 | | | 5,340 | 5,340 | 5,340 | 499 | 843 | 878 | 6.0 | 4.6 | 4.6 | 3.6 | 1.9 | 2.8 | 52* | 71* | 230 | 448 | 230 | 448 | 538 | Y | 4,380 | | |
| 46 | Narrabri (Groundwater) | Two Part | Two Part | 97 | 220 | 231 | All | All | All | 38 | 60 | 63 | | | | | | | | | | 2,300 | 2,650 | 2,760 | 305 | 546 | 574 | -6.0 | -2.1 | 11.8 | -2.5 | -2.9 | 6.3 | 60 | 60* | 548 | 544 | 548 | 544 | 513 | Y | 4,380 | | | |
| 47 | Bellingen (Unfiltered) | Inclining Block | Inclining Block | 211 | 228 | 242 | <365 | <365 | <365 | 90 | 98 | 103 | >365 | >365 | >365 | 135 | 147 | 155 | | | | 6,300 | 6,300 | 6,300 | 362 | 399 | 422 | 1.9 | 3.0 | 2.7 | 0.1 | 0.9 | 0.9 | 51 | 43* | 168 | 175 | 168 | 175 | 188 | Y | 4,040 | | | |
| 48 | Leeton | Inclining Block | Inclining Block | 185 | 198 | 218 | <350 | <350 | <300 | 62 | 72 | 74 | >350 | >350 | 300-600 | 93 | 108 | 110 | | | | 3,600 | 3,600 | 4,000 | 489 | 550 | 597 | 0.1 | 0.3 | 2.2 | -1.4 | -0.7 | 1.5 | 64* | 64* | 444 | 442 | 444 | 442 | 471 | Y | 3,990 | | | |
| 49 | Young (Reticulator) | Inclining Block | Inclining Block | 175 | 157 | 155 | <300 | <320 | <360 | 130 | 170 | 180 | >300 | >320 | >360 | 175 | 265 | 270 | | 50 | 50 | | 2,000 | 950 | 950 | 445 | 534 | 554 | 3.8 | 0.6 | 0.1 | 3.0 | 0.7 | 0.2 | 69* | 71* | 207 | 222 | 207 | 222 | | Y | 4,630 | | |
| 50 | Cooma-Monaro | Inclining Block | Inclining Block | 325 | 300 | 280 | <300 | <300 | <300 | 80 | 100 | 115 | >300 | >300 | >300 | 128 | 150 | 173 | | 100 | 100 | | 2,830 | 2,830 | 3,630 | 556 | 495 | 504 | 0.4 | 3.2 | 1.1 | 0.7 | 2.4 | 0.5 | 49* | 44* | 289 | 195 | 289 | 195 | 254 | Y | 3,840 | | |
| 51 | Forbes | Inclining Block | Inclining Block | 144 | 149 | 153 | <600 | <600 | <600 | 66 | 68 | 69 | >600 | >600 | >600 | 99 | 100 | 102 | | 25 | 25 | | 1,730 | 3,940 | 5,000 | 384 | 379 | 386 | 0.7 | 1.3 | -0.3 | -1.3 | -0.9 | -1.6 | 63 | 61* | 363 | 338 | 363 | 338 | 380 | Y* | 3,640 | | |
| 52 | Snowy River (Unfiltered) | Two Part | Inclining Block | 360 | 435 | 399 | All | All | <250 | 58 | 70 | 115 | | | >250 | | | 175 | 90 | 100 | | 4,000 | 4,000 | 4,000 | 450 | 524 | 545 | -1.9 | 0.1 | 1.9 | -1.8 | 0.1 | 1.9 | 21 | 27* | 156 | 127 | 156 | 127 | 323 | Y | 4,190 | | | |
| 53 | Berrigan (Dual Supply) | Two Part | Two Part | 380 | 430 | 420 | All | All | All | 90 | 100 | 100 | | | | | | | | | | 4,360 | 4,360 | 4,360 | 619 | 645 | 635 | 2.2 | 2.5 | 2.0 | 1.9 | 2.3 | 1.8 | 39 | 34* | 173 | 158 | 292 | 272 | | Y | 3,520 | | | |
| 53 | Berrigan (Non Potable) | Two Part | Two Part | | | | All | All | All | 70 | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | 3,520 | | | | |
| 54 | Dennilquin | Inclining Block | Inclining Block | 416 | 431 | 444 | <800 | <800 | <800 | 26 | 27 | 40 | >800 | >800 | >800 | 59 | 61 | 80 | | | | 3,310 | 3,310 | 3,310 | 582 | 557 | 630 | 1.3 | 1.2 | 1.0 | -0.3 | 0.2 | 0.2 | 29* | 30* | 640 | 466 | 709 | 466 | 470 | Y | 3,380 | | | |
| 55 | Warrumbungle | Inclining Block | Inclining Block | 233 | 268 | 275 | <450 | <450 | <450 | 100 | 100 | 106 | >450 | >450 | >450 | 150 | 120 | 127 | | | | 1,320 | 1,350 | 1,350 | 425 | 458 | 476 | | -0.3 | -0.4 | | -0.5 | -0.6 | | 49 | 42* | 192 | 190 | 192 | 190 | 243 | Y* | 3,300 | | |
| 56 | Yass Valley | Two Part | Two Part | 206 | 212 | 230 | All | All | All | 160 | 195 | 225 | | | | | | | 50 | 50 | | 9,230 | 9,460 | 9,750 | 501 | 555 | 626 | -0.7 | -0.7 | 10.2 | -0.7 | -0.7 | 10.0 | 63* | 62* | 184 | 176 | 184 | 176 | 203 | Y | 3,090 | | | |
| Medians (% of LWUs basis) for 3,000 to 10,000 Properties | | | | 224 | | | 115 | | | | | | 100 | | | 4,435 | | | 544 | | | 1.8 | | | 0.9 | | | 61 | | | 215 | | | 237 | | | 311 | | | 0 LWU with N | | | | | |
| LWUs with 1,501 - 3,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Wellington | Inclining Block | Inclining Block | 192 | 199 | 230 | <300 | <300 | <300 | 158 | 164 | 164 | <500 | <500 | 300-500 | 190 | 197 | 197 | 100 | 100 | | 123 | 124 | 126 | 4,140 | 4,220 | 4,360 | 511 | 541 | 572 | -1.9 | -0.5 | -0.6 | -0.3 | 1.1 | 1.2 | 67 | 63* | 202 | 209 | 202 | 209 | 227 | Y | 2,900 |
| 58 | Cootamundra (Reticulator) | Inclining Block | Inclining Block | 100 | 180 | 198 | <450 | <450 | <450 | 137 | 147 | 151 | >450 | >450 | >450 | 273 | 293 | 301 | 10 | 10 | | 80 | 78 | 93 | 4,620 | 4,620 | 5,280 | 371 | 442 | 467 | -5.5 | -6.5 | -2.8 | -5.8 | -6.8 | -2.8 | 78 | 59* | 198 | 179 | 198 | 179 | 164 | Y* | 2,920 |
| 59 | Lachlan | Inclining Block | Inclining Block | 225 | 225 | 250 | <450 | <450 | <450 | 105 | 130 | 140 | >450 | >450 | >450 | 160 | 180 | 225 | | 50 | | 105 | 87 | 107 | 5,500 | 5,750 | 5,750 | 578 | 678 | 738 | 0.4 | 0.0 | 14.9 | -0.4 | -0.3 | 14.3 | 66* | 67* | 337 | 349 | 351 | 360 | 402 | Y | 2,820 |
| 60 | Glen Innes Severn | Inclining Block | Inclining Block | 94 | 90 | 90 | <450 | <450 | <450 | 138 | 160 | 164 | >450 | >450 | >450 | 195 | 240 | 246 | | | | 123 | 166 | 146 | 3,190 | 3,190 | 3,380 | 310 | 337 | 343 | -0.4 | -2.4 | -1.4 | -0.7 | -3.4 | -2.0 | 74* | 73* | 157 | 155 | 157 | 155 | 178 | Y* | 3,000 |
| 61 | Liverpool Plains | Inclining Block | Inclining Block | 253 | 303 | 443 | <300 | <300 | <300 | 74 | 92 | 100 | >300 | >300 | >300 | 122 | 141 | 165 | | | | 88 | 92 | 104 | 3,390 | 3,560 | 3,560 | 418 | 507 | 665 | -2.1 | -0.4 | 0.2 | -2.5 | -0.7 | 0.2 | 45 | 40* | 223 | 222 | 223 | 222 | 276 | Y | 2,690 |
| 62 | Narramine (Groundwater) | Two Part | Two Part | 150 | 155 | 160 | All | All | All | 75 | 80 | 85 | | | | | | | 85 | 87 | | 52 | 33 | 69 | 2,700 | 2,790 | 2,870 | 472 | 502 | 529 | 4.7 | 1.3 | 7.2 | 2.1 | 0.9 | 4.8 | 69* | 69* | 430 | 434 | 430 | 434 | 450 | Y | 2,100 |
| 63 | Narrandera (Groundwater) | Two Part | Two Part | 220 | 220 | 237 | All | All | All | 62 | 62 | 87 | | | | | | | | | | 52 | 71 | 74 | 1,000 | 1,000 | 1,000 | 458 | 453 | 564 | 3.0 | 4.9 | 6.8 | 3.0 | 4.5 | 4.1 | 60 | 51* | 384 | 376 | 384 | 376 | 377 | Y | 2,070 |
| 65 | Murray (Dual Supply) | Two Part | Two Part | 207 | 216 | 220 | All | All | All | 71 | 74 | 76 | | | | | | | | | | 96 | 92 | 84 | 2,130 | 2,130 | 2,130 | 467 | 507 | 517 | -0.1 | 0.3 | 1.0 | 0.2 | 0.5 | 1.1 | 56* | 57* | 156 | 174 | 260 | 289 | | Y | 2,760 |
| 65 | Murray (Non Potable) | Two Part | Two Part | 76 | 79 | 81 | All | All | All | 69 | 72 | 73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | 2,760 | | |
| 67 | Cobar | Inclining Block | Inclining Block | 210 | 200 | 190 | <450 | <450 | <450 | 80 | 85 | 90 | >450 | >450 | 450-550 | 140 | 150 | 160 | | | | 52 | 66 | 138 | 1,410 | 1,410 | 1,410 | 560 | 463 | 468 | 0.0 | 1.0 | -2.2 | -1.1 | 0.9 | -2.3 | 65* | 57* | 438 | 309 | 465 | 310 | 227 | Y* | 2,250 |
| 66 | Cobar WB | | | | | | | | | | | | | | | | | | | | 41 | 64 | | | | | | | | | | | | | | | | | | | | Y | | | |
| 68 | Tenterfield | Inclining Block | Inclining Block | 270 | 305 | 334 | All | <450 | <450 | 145 | 159 | 174 | >450 | >450 | | 183 | 200 | | | | | 190 | 197 | 170 | 1,500 | 1,500 | 1,500 | 473 | 524 | 574 | -3.9 | -2.6 | 4.0 | -2.6 | -2.3 | 3.7 | 49 | 42* | 140 | 138 | 140 | 138 | 179 | Y | 1,960 |
| 70 | Kyogle | Inclining Block | Inclining Block | 204 | 224 | 246 | <200 | <200 | <200 | 114 | 114 | 114 | >200 | >200 | >200 | 175 | 175 | 175 | 90 | 90 | | 142 | 119 | 153 | 1,000 | 2,000 | 2,000 | 409 | 411 | 433 | 3.0 | 2.6 | 2.5 | 2.2 | 2.3 | 2.6 | 51 | 46* | 180 | 164 | 180 | 164 | 185 | Y | 1,840 |
| 71 | Palerang | Inclining Block | Inclining Block | 307 | 315 | 323 | <200 | <200 | <200 | 116 | 120 | 123 | >200 | >200 | >200</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 6: Water supply – residential charges, bills and cost recovery (continued)

| WATER UTILITY | RESIDENTIAL CHARGES - Current and 2010/11 | | | | | | | | | | | | | | Operating Cost (OMA) | Typical Developer Charge | BILLS | | | COST RECOVERY | | | | | | | | | | Full Cost Recovery ? | Total Connected Properties | | | | | | | | | | | |
|--|---|------------------|---------------------------|---------------------------|-----------|--------------------------------------|---|-------|--------|--------|-------|------------------------------------|--|------------------|----------------------|--------------------------|---------------------|-------------|-----------------------|---|-------|--|---------|-----------------|-----------------------|--------------|---------------|--------------------|-------|----------------------|--------------------------------|--|--|------------|--|--|--------------------|--|--|-------------------------------|--|--|
| | Type of Tariff | | Fixed Charge (or Minimum) | | | Usage Charge (for Step 1 and Step 2) | | | | | | Billing (2006 National Guidelines) | Typical Residential Bill based on ave res water supplied | Return on Assets | | | ERRR (Water Supply) | | | Residential Revenue from Usage Charges (% of residential) | | Avg Annual Residential Water Supplied ² | | | | (N / Y* / Y) | | | | | | | | | | | | | | | | |
| | | | | | | Step 1 | | | Step 2 | | | | | | | | | | | | | (% Implementation) | (\$/ET) | (\$/assessment) | Potable kL/prop (14a) | | Pot + Non Pot | | (14c) | | | | | | | | | | | | | |
| | (1) P1 | (2) P1.2 | (5a) P1.3 | (5b) P1.3 | (5c) P1.4 | (5d) P1.4 | (5e) | (6) | (7) | (8) P3 | (11) | (12) F17 | (13) F4 | (14a) P2.1 | | | kL/prop (14b) | L/c/d (14c) | (14c) | (15) C4 | | | | | | | | | | | | | | | | | | | | | | |
| | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 08/09 | 09/10 | 09/10 | | | | | | | | | | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | Inclining Block | Inclining Block | 430 | 440 | 440 | <600 | <600 | <600 | 95 | 95 | 100 | >600 | >600 | >600 | 195 | 195 | 195 | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | Gloucester | Inclining Block | Inclining Block | 252 | 195 | 240 | All | <200 | <50 | 155 | 196 | 202 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | Oberon (Reticulator) | Two Part | Two Part | 100 | 217 | 228 | All | All | All | 112 | 123 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | Gilgandra (Groundwater) | Two Part | Two Part | 180 | 186 | 192 | All | All | All | 82 | 84 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | Uralla | Two Part | Two Part | 210 | 239 | 250 | All | All | All | 108 | 125 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 86 | Hay (Dual Supply) | Inclining Block | Inclining Block | 85 | 110 | 113 | <300 | <300 | <300 | 69 | 95 | 98 | >300 | >300 | >300 | 105 | 140 | 144 | | | | | | | | | | | | | | | | | | | | | | | | |
| 86 | Hay (Non Potable) | Unmetered | Unmetered | 260 | 350 | 360 | All | All | All | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | Bourke (Dual Supply) | Two Part | Two Part | 188 | 195 | 202 | All | All | All | 135 | 155 | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | Bourke (Non Potable) | Unmetered | Unmetered | 309 | 320 | 372 | All | All | All | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | Wakool (Dual Supply) | Inclining Block | Inclining Block | 220 | 228 | 237 | <600 | <600 | <600 | 83 | 86 | 90 | >600 | >600 | >600 | 131 | 135 | 142 | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | Wakool (Non-Potable) | Unmetered | Unmetered | 440 | 455 | 473 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89 | Bogan | Inclining Block | Inclining Block | 240 | 260 | 260 | <500 | <600 | <600 | 80 | 90 | 92 | >500 | >600 | >600 | 120 | 130 | 133 | 90 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 90 | Gyura | Inclining Block | Inclining Block | 284 | 293 | 280 | <450 | <450 | <400 | 105 | 108 | 120 | >450 | >450 | 400-1000 | 120 | 124 | 150 | | | | | | | | | | | | | | | | | | | | | | | | |
| 91 | Cabonne | Inclining Block | Inclining Block | 189 | 195 | 219 | <300 | <300 | <300 | 130 | 130 | 136 | >300 | >300 | 300-500 | 300 | 310 | 315 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 92 | Carrathool (Groundwater) | Inclining Block* | Inclining Block | 360 | 372 | 380 | <350 | <350 | <350 | 75 | 82 | 80 | >350 | >350 | >350 | 85 | 93 | 95 | 90 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 93 | Tumbarumba | Inclining Block | Inclining Block | 246 | 246 | 321 | <200 | <200 | <200 | 99 | 104 | 137 | >200 | >200 | >200 | 164 | 174 | 230 | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | Gundagai | Inclining Block | Inclining Block | 88 | 96 | 105 | <300 | <300 | <300 | 70 | 80 | 85 | >300 | >300 | 300-500 | 90 | 100 | 110 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 96 | Warren (Dual Supply) | Inclining Block | Inclining Block | 240 | 250 | 275 | <450 | <450 | <450 | 79 | 83 | 87 | >450 | >450 | >450 | 119 | 125 | 131 | 50 | 60 | | | | | | | | | | | | | | | | | | | | | | |
| 96 | Warren (Non Potable) | Inclining Block | Inclining Block | | | | <450 | <450 | <450 | 28 | 30 | 32 | >450 | >450 | >450 | 50 | 52 | 56 | | | | | | | | | | | | | | | | | | | | | | | | |
| 97 | Bombala | Inclining Block | Inclining Block | 416 | 433 | 455 | <350 | <350 | <350 | 48 | 49 | 52 | >350 | >350 | >350 | 103 | 108 | 113 | | | | | | | | | | | | | | | | | | | | | | | | |
| 98 | Walcha | Inclining Block | Inclining Block | 128 | 133 | 140 | <300 | <300 | <300 | 187 | 195 | 200 | >300 | >300 | >300 | 277 | 287 | 294 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | Bairnald (Dual Supply) | Inclining Block | Inclining Block | 130 | 135 | 135 | <600 | <600 | <600 | 68 | 70 | 74 | >600 | >600 | >600 | 102 | 105 | 111 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | Bairnald (Non Potable) | Inclining Block | Inclining Block | 138 | 143 | 143 | <600 | <600 | <600 | 31 | 36 | 40 | >600 | >600 | >600 | 47 | 54 | 60 | | | | | | | | | | | | | | | | | | | | | | | | |
| 101 | Murrumbidgee (Groundwater) | Inclining Block | Inclining Block | 180 | 180 | 180 | All | <500 | <500 | 24 | 25 | 26 | >500 | 501-800 | | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | Central Darling (Dual Supply) | Two Part | Two Part | 105 | 105 | 105 | All | All | All | 300 | 300 | 300 | | | | | | | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 103 | (Non Potable-Wilcannia) | Unmetered | Unmetered | 425 | 425 | 425 | All | All | All | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | Boorowa | Inclining Block | Inclining Block | 388 | 388 | 404 | <240 | <200 | <600 | 150 | 165 | 171 | >240 | >200 | >600 | 250 | 280 | 291 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 105 | Brewarrina | Unmetered | Unmetered | 829 | 895 | 940 | All | All | All | | | | | | | | | | | 25 | | | | | | | | | | | | | | | | | | | | | | |
| 106 | Jerilderie (Dual Supply) | Inclining Block | Inclining Block | 185 | 195 | 205 | <250 | <250 | <250 | 110 | 115 | 120 | >250 | >250 | >250 | 140 | 140 | 140 | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | Jerilderie (Non Potable) | Two Part | Two Part | 265 | 278 | 292 | All | All | All | 50 | 53 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | | | 237 | | | 110 | | | | | | 81 | | | 1,010 | | | 639 | | | -0.6 | | | -0.5 | | | 58 | | | 217 | | | 245 | | | 1 LWUs with N | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | | | <i>Fixed Charge \$205</i> | | | <i>Usage Charge for Step 1 132 c/kL</i> | | | | | | <i>Usage Charge for Step 2 199 c/kL</i> | | | | | | <i>OMA (c/kL) 107</i> | | | <i>Developer 4,000</i> | | | <i>TRB 530</i> | | | <i>ROA 0.6</i> | | | <i>ERRR 0.6</i> | | | <i>63%</i> | | | <i>221 kL/prop</i> | | | <i>63 LWUs have Y for FCR</i> | | |
| <i>Median All LWUs (Statewide basis)</i> | | | | <i>Charge \$130</i> | | | <i>163</i> | | | | | | <i>116</i> | | | <i>Charge 4,700</i> | | | <i>430</i> | | | <i>0.7</i> | | | <i>73%</i> | | | <i>175 kL/prop</i> | | | <i>32 have Y* and 2 have N</i> | | | | | | | | | | | |
| <i>2 LWUs did not achieve FCR for WS</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES: 1. Residential Revenue from Usage Charges: Where this is marked *, it has been calculated from the projected typical residential bill for the 2010/11 financial year as this provides a higher value than the result for the 2009/10 financial year.

2. Dual Water Supplies: 11 LWUs had a dual water supply to over 50% of their residential customers with a potable supply for indoor use and a non-potable supply for outdoor use (refer to General Notes - Note 6 on page 24).

3. Average Annual Residential Water Supplied: The 11 Dual Supply LWUs are shown on two rows. The first row is labelled Dual Supply while the second row is labelled Non-Potable.

The first row in column (14a) shows the potable average Annual Residential Water Supplied while the second row in column (14a) shows the non-potable Average Annual Residential Water Supplied (see also Note 6 on page 24).

The total potable plus non-potable Average Annual Residential Water Supplied is shown in column (14b).

4. Full Cost Recovery has been achieved by 95 LWUs (98%). These comprise 63 utilities which had either an Economic Real Rate of Return or Return on Assets of >=0 for the 2009/10 financial year (shown as "Y" in col(14a)).

They also include 32 utilities which have significantly increased their 2010/11 charges in order to recover their costs (shown as "Y*"). 2 LWUs did not achieve full cost recovery (shown as "N").

The Average Annual Residential Water Supplied has now fallen to 175kL/property which has significantly reduced the water supply revenue of many LWUs.

Table 6A: Water supply – 2010-11 residential multiple tariffs

| WATER UTILITY | Town | Tariff Type | Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | |
|---------------|-------------------------|--------------------------------------|--------------------------------|---|-------------|-------------|---|-------------------|
| | | (1) | (\$) (2) | (3) | (kL) (4) | (kL) (5) | (c/kL) (6) | |
| 29 | Armidale Dumaresq | Armidale | Inclining Block | 235 | Y | Nil | up to 400 kL 401 kL to 1000 kL >1000 kL | 178 236 274 |
| | | Armidale, untreated | Inclining Block | 235 | Y | Nil | up to 400 kL 401 kL to 1000 kL >1000 kL | 87 154 189 |
| 100 | Balranald (Dual Supply) | Balranald & Euston, Filtered | Inclining Block | 135 | Y | Nil | up to 600 kL >600 kL | 74 111 |
| | | Balranald & Euston, Raw | Inclining Block | 143 | Y | Nil | up to 600 kL >600 kL | 40 60 |
| 21 | Bathurst Regional | Filtered | Inclining Block | 125 | Y | Nil | up to 250 kL >250 kL | 130 195 |
| | | Raw Water | Inclining Block | 125 | Y | Nil | up to 250 kL >250 kL | 58 99 |
| | | Hillview Water | Inclining Block | 128 | Y | Nil | up to 250 kL >250 kL | 151 318 |
| 53 | Berrigan (Dual Supply) | Berrigan,Barooga,Finley(Potable) | Two Part | 420 | Y | Nil | All | 100 |
| | | Berrigan,Barooga,Finley(Non-Potable) | Two Part | 420 | Y | Nil | All | 50 |
| | | Tocumwal (Filtered) | Two Part | 420 | Y | Nil | All | 67 |
| 89 | Bogan | Nyngan | Inclining Block | 260 | Y | Nil | up to 600 kL >600 kL | 92 133 |
| | | Nyngan, Raw Water | Inclining Block | 330 | | | up to 600 kL >600 kL | 55 80 |
| | | Hermidale Girilambone & Coolabah | Annual Charge Annual Charge | 480 330 | Y Y | | | |
| 97 | Bombala | Bombala | Inclining Block | 455 | Y | Nil | up to 350 kL >350 kL | 52 113 |
| 87 | Bourke (Dual Supply) | Delegate | Unmetered | 348 | Y | | | |
| | | Bourke, Filtered Bourke, Raw | Two Part Unmetered | 202 320 | Y Y | Nil | All | 180 |
| 105 | Brewarrina | Brewarrina | Unmetered | 940 | | | | |
| | | Goodooga | Unmetered | 771 | | | | |
| 91 | Cabonne | Molong, Cumnock, Yeoval | Inclining Block | 219 | Y | Nil | up to 300 kL 301 kL to 500 kL >500 kL | 136 315 430 |
| | | North Yeoval Wellington | Inclining Block | 149 | Y | Nil | up to 300 kL 301 kL to 500 kL >500 kL | 200 260 420 |
| 92 | Carrathool | Carrathool | Inclining Block | 380 | Y | Nil | up to 350 kL >350 kL | 80 95 |
| | | Hillston | Inclining Block | 172 | Y | Nil | up to 350 kL >350 kL | 60 80 |
| | | Melbergen | Inclining Block | 300 | Y | Nil | up to 400 kL >400 kL | 55 80 |
| | | Goolgowi Potable Water | Inclining Block | 290 | Y | Nil | up to 200 kL >200 kL | 60 85 |
| | | Goolgowi Raw Water | Inclining Block | 290 | Y | Nil | up to 250 kL >250 kL | 35 62 |
| | | Merriwaga Town Water | Inclining Block | 600 | Y | Nil | up to 450 kL >450 kL | 60 80 |
| | | Rankins Springs Town Water | Inclining Block | 790 | Y | Nil | up to 350 kL >350 kL | 50 65 |
| 103 | Central Darling | Wilcannia (Filtered) | Two Part | 105 | Y | Nil | All | 300 |
| | | Wilcannia (Raw) | Unmetered | 425 | Y | | | |
| | | White Cliffs, Raw | Two Part | 400 | Y | Nil | All | 330 |
| | | Ivanhoe (Raw) | Two Part | 200 | Y | Nil | All | 145 |
| | | Ivanhoe (Filtered) | Two Part | 120 | Y | Nil | All | 340 |
| 40 | Central Tablelands | Central Tablelands | Inclining Block | 124 | Y | Nil | up to 450 kL >450 kL | 170 255 |
| | | Quandialla | Inclining Block | 464 | Y | Nil | up to 200 kL/quarter after 200 kL/quarter | 134 222 |
| 67 | Cobar | Cobar | Inclining Block | 190 | Y | Nil | up to 450 kL 451 to 550 kL >551 kL | 90 160 220 |

Table 6A: Water supply – 2010-11 residential multiple tariffs (continued)

| WATER UTILITY | | Town | Tariff Type | Access Charge (\$) | Access Charge Independent of Land Value ? | Allowance (kL) | Usage Range (kL) | Usage Charge (c/kL) |
|---------------|---------------------------|--|-----------------|--------------------|---|----------------|--|--------------------------|
| | | | (1) | (2) | (3) | (4) | (5) | (6) |
| 75 | Coonamble Shire | Coonamble | Inclining Block | 82 | Y | Nil | up to 370 kL | 44 |
| | | Gulargambone | Inclining Block | 133 | Y | Nil | >370 kL up to 430 kL | 67 60 |
| | | Quambone | Inclining Block | 137 | | | >430 kL up to 430 kL >430 kL | 89 62 92 |
| 26 | Country Energy | Broken Hill, Sunset Strp, Menindi, Silvertown (filtered) | Inclining Block | 230 | Y | Nil | up to 400 kL > 400 kL extra 0.549kL/day for summer | 125 251 125 |
| | | Broken Hill, Sunset Strp, Menindi, Silvertown (filtered) Summer Use Pipeline Customers or Unfiltered Water | Inclining Block | 230 | Y | Nil | up to 400 kL > 400 kL | 69 114 |
| 54 | Deniliquin | Deniliquin, Filtered &/or Raw | Inclining Block | 444 | Y | Nil | up to 800 kL >800 kL | 40 80 |
| 51 | Forbes | Filtered | | 153 | Y | Nil | up to 600 kL > 600 kL | 69 102 |
| | | Raw Ootha | | 184 | | | All up to 600 kL > 600 kL | 31 69 102 |
| 84 | Gilgandra (Groundwater) | Gilgandra | Two Part | 192 | Y | Nil | All | 86 |
| | | Tooraweenah | Two Part | 100 | Y | Nil | All | 120 |
| 60 | Glen Innes Severn | Glen Innes | Inclining Block | 90 | Y | Nil | up to 450 kL >450 kL | 164 246 |
| | | Deep water | Inclining Block | 90 | Y | Nil | up to 450 kL >450 kL | 72 123 |
| 20 | Goulburn Mulwaree Council | Goulburn | Inclining Block | 321 | Y | Nil | up to 292 kL >292 kL | 159 214 |
| | | Marulan | Inclining Block | 353 | Y | Nil | up to 292 kL >292 kL | 159 214 |
| 80 | Greater Hume | Culcairn | Inclining Block | 120 | Y | Nil | up to 200 kL >200 kL | 90 110 |
| | | Villages | Inclining Block | 190 | Y | Nil | up to 200 kL >200 kL | 130 180 |
| 30 | Griffith | Griffith (Filtered) | Inclining Block | 120 | Y | Nil | up to 200 kL >200 kL | 55 100 |
| | | Yenda (Dual), Filtered | Inclining Block | 189 | Y | Nil | up to 200 kL >200 kL | 55 100 |
| | | Yenda (Dual), Raw | Two Part | | Y | Nil | All | 28 |
| 94 | Gundagai | | Inclining Block | 105 | Y | Nil | up to 300 kL 301 to 500 kL > 500 kL | 85 110 170 |
| 44 | Gunnedah (Groundwater) | Gunnedah | Inclining Block | 179 | Y | Nil | up to 400 kL >400 kL | 83 135 |
| | | Curlewis | Inclining Block | 189 | Y | Nil | up to 400 kL >400 kL | 93 135 |
| | | Mullaley | Inclining Block | 308 | Y | Nil | up to 400 kL >400 kL | 138 180 |
| | | Tambar Springs | Inclining Block | 356 | Y | Nil | up to 400 kL >400 kL | 223 255 |
| 90 | Guyra | Guyra | Inclining Block | 280 | Y | Nil | up to 400 kL 401 to 1000 kL | 120 150 |
| | | Tingha | Inclining Block | 280 | Y | Nil | > 1000 kL up to 400 kL 401 to 1000 kL > 1000 kL | 155 135 160 165 |

Table 6A: Water supply – 2010-11 residential multiple tariffs (continued)

| WATER UTILITY | Town | Tariff Type | Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | |
|---------------|--------------------------------|--|------------------------------|---|-------------|-------------|---|-------------------|
| | | (1) | (\$) (2) | (3) | (kL) (4) | (kL) (5) | (c/kL) (6) | |
| 86 | Hay (Dual Supply) | Hay (Filtered) | Inclining Block | 113 | Y | Nil | up to 300 kL >300 kL | 98 144 |
| | | Hay (Unfiltered) unmetered | | 360 | | | | |
| 106 | Jerilderie (Dual Supply) | Jerilderie, Filtered | Inclining Block | 205 | Y | Nil | up to 250 kL >250 kL | 120 140 |
| | | Jerilderie, Raw | Two Part | 292 | Y | Nil | all | 56 |
| 61 | Liverpool Plains Shire Council | Quirindi | Inclining Block | 443 | Y | Nil | up to 300 kL >300 kL | 100 165 |
| | | Werris Creek | Inclining Block | 493 | Y | Nil | up to 300 kL >300 kL | 106 174 |
| | | Villages | Inclining Block | 295 | Y | Nil | up to 300 kL >300 kL | 100 165 |
| | | | | | | | | |
| 38 | Moree Plains Shire | Moree, Mungindi, Boggabilla, Pallamallawa | Inclining Block, Potable | 235 | Y | Nil | up to 750 kL >750 kL | 85 125 |
| | | Garah, Boomi, Boggabilla, Gurley, Weemalah | Inclining Block, Non-Potable | 235 | Y | Nil | up to 750 kL >750 kL | 58 110 |
| 65 | Murray | Murray, Filt | Two Part | 220 | Y | Nil | All | 76 |
| | | Murray, Raw | Two Part | 81 | Y | Nil | All | 73 |
| 101 | Murrumbidgee | Darlington Point | Two Part | 180 | Y | Nil | up to 500 kL 501 to 800 kL > 800 kL | 26 31 36 |
| | | Coleambally | Two Part | 200 | Y | Nil | up to 500 kL 501 to 800 kL > 800 kL | 25 30 35 |
| 46 | Narrabri (Groundwater) | Narrabri | Two Part | 231 | Y | Nil | All | 63 |
| | | Narrabri, unmetered | Unmetered | 336 | Y | | | |
| | | Gwabegar | Two Part | 368 | Y | Nil | All | 79 |
| | | Wee Wa | Two Part | 226 | Y | Nil | All | 63 |
| | | Boggabri | Two Part | 247 | Y | Nil | All | 74 |
| | | Bellata | Two Part | 368 | Y | Nil | All | 79 |
| | | Pilliga | Two Part | 368 | Y | Nil | All | 79 |
| | | | | | | | | |
| 71 | Palerang | Bungendore | Inclining Block | 323 | Y | Nil | up to 200 kL >200 kL | 123 200 |
| | | Braidwood | Inclining Block | 412 | Y | Nil | up to 200 kL >200 kL | 176 341 |
| | | Captains Flat | Inclining Block | 388 | Y | Nil | up to 200 kL >200 kL | 280 381 |
| | | | | | | | | |
| 8 | Riverina (Groundwater) (No) | WaggaWagga | Inclining Block | 80 | Y | Nil | up to 600 kL >600 kL | 90 135 |
| | | Rural Towns & Villages | Inclining Block | 100 | Y | Nil | up to 600 kL >600 kL | 100 150 |
| 35 | Singleton | Singleton | Inclining Block | 170 | Y | Nil | up to 450 kL >450 kL | 91 169 |
| | | Mt Thorley | Two Part | 540 | Y | Nil | All | 159 |
| | | Jerry's Plains /Broke Water | Inclining Block | 170 | Y | Nil | up to 450 kL >450 kL | 126 169 |
| | | | | | | | | |
| 13 | Tamworth | Tamworth | Inclining Block | 204 | Y | Nil | up to 400 kL 401 to 800 kL >800 kL | 116 174 261 |
| | | Calala Backwash Water | Inclining Block | | Y | Nil | All | 27 |
| | | Raw Water | | Y | | | | 80 |
| | | | | | | | | 88 |
| | | Dungowan Dam (if main crosses property) | Inclining Block | 102 | Y | Nil | up to 400 kL 401 to 800 kL >800 kL | 98 40 80 |
| | | Raw Water | | | | | | 98 |
| 68 | Tenterfield | Tenterfield, Jennings, Urbenville | Inclining Block | 334 | Y | Nil | up to 450 kL >450 kL | 174 200 |
| 93 | Tumbarumba (Unfiltered) | Tumbarumba | Inclining Block | 321 | Y | Nil | up to 200 kL >200 kL | 137 230 |
| | | Khancoban, metered | IncliningBlock | 314 | Y | Nil | up to 200 kL >200 kL | 118 209 |

Table 6A: Water supply – 2010-11 residential multiple tariffs (continued)

| WATER UTILITY | Town | Tariff Type | Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | |
|---------------|----------------------------|---|--|---|-----------|-------------|-----------------|-----|
| | | (1) | (\$) | (3) | (kL) | (kL) | (c/kL) | |
| | | | (2) | | (4) | (5) | (6) | |
| 43 | Tumut | Tumut | Inclining Block | 128 | Y | Nil | up to 300 kL | 125 |
| | | Tumut Raw Water | Inclining Block | 101 | Y | Nil | >300 kL | 192 |
| 45 | Upper Hunter Shire Council | Murrurundi | Inclining Block | 322 | Y | Nil | up to 300 kL | 53 |
| | | Merriwa/Cassilis | Inclining Block | 259 | Y | Nil | >300 kL | 85 |
| | | Aberdeen/Scone | Inclining Block | 259 | Y | Nil | up to 300 kL | 121 |
| | | | | | | | >300 kL | 173 |
| 73 | Upper Lachlan Council | Crookwell, Taralga, Dalton Water, Gunning | Inclining Block | 330 | Y | Nil | up to 200 kL | 195 |
| | | | | | | | > 200 kL | 260 |
| 85 | Uralla | Uralla, Bundarra | Two Part | 250 | Y | Nil | All | 135 |
| 88 | Wakool (Dual Supply) | Barham, Tooleybuc, Moulamein(Filtered + Raw Water) | Inclining Block, Raw Water is unmetred | 237+473 | Y | Nil | up to 600 kL | 90 |
| | | Wakool , Murray Downs, Koraleigh (Filtered) | Inclining Block | 220 | Y | Nil | >600 kL | 142 |
| 79 | Walgett | Walgett Shire Lightening Ridge Collarenebri Carinda Bore Rowena Cumborah | Unmetered | 877 | Y | | | |
| | | | Unmetered | 351 | | | | |
| | | | Unmetered | 820 | | | | |
| | | | Unmetered | 345 | Y | | | |
| | | | Unmetered | 406 | Y | | | |
| | | | Unmetered | 368 | | | | |
| 96 | Warren (Dual Supply) | Warren Bore Water | Inclining Block | 275 | Y | Nil | up to 450 kL | 87 |
| | | Warren River Water | Inclining Block | | | Nil | >450 kL | 131 |
| | | Nevertire | Inclining Block | 390 | Y | Nil | up to 450 kL | 32 |
| | | Collie | Inclining Block | 280 | Y | Nil | >450 kL | 56 |
| 55 | Warrumbungle, Northern | Coonabarabran | Inclining Block | 275 | Y | Nil | up to 450 kL | 49 |
| | | Timore Dam (Raw) | Inclining Block | 275 | Y | Nil | >450 kL | 73 |
| | | Baradine | Inclining Block | 299 | Y | Nil | up to 450 kL | 107 |
| | | Binnaway | Inclining Block | 408 | Y | Nil | >450 kL | 163 |
| | Warrumbungle, Southern | Villages: Bugaldie, Kenebri | Inclining Block | 472 | Y | Nil | up to 450 kL | 106 |
| | | Southern, Coolah, Dunedoo | Inclining Block | 339 | Y | Nil | >450 kL | 127 |
| | | Village | Inclining Block | 472 | Y | Nil | up to 450 kL | 153 |
| | | Mendooran | Inclining Block | 742 | Y | Nil | > 450 kL | 153 |
| 57 | Wellington | Wellington, Geurie | Inclining Block | 230 | Y | Nil | up to 450 kL | 146 |
| 74 | Wentworth (Dual Supply) | Filtered | Inclining Block | 235 | Y | Nil | up to 300 kL | 164 |
| | | Raw | Inclining Block | 120 | Y | Nil | 301 to 10000 kL | 197 |
| 56 | Yass Valley | Yass, Bowning, Binalong & Rural Areas Murrumbateman | Two Part | 230 | Y | Nil | >10000 kL | 212 |
| | | | Two Part | 173 | Y | Nil | up to 250 kL | 115 |
| 49 | Young (Reticulator) | Young | Inclining Block | 155 | Y | Nil | >250 kL | 270 |
| | | | | | | | | |
| | | | | | | | >700 kL | 100 |

Table 6B: Water supply – 2010-11 non-residential tariffs

| WATER UTILITY | Town | Tariff Type | Access Charge for 20 mm Service Connection (or Minimum) | Basis for Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | Compliance with 2(d) of BPMG | |
|---------------|--------------------------|--------------------------------------|---|-------------------------|--|-----------|-------------|---|------------------------------|-----|
| | | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 11 | Albury City | Albury | Inclining Block | 90 | Meter Size* (eg 40mm:\$360) | Y | Nil | up to 225 kL 226 kL to 19999kL >19999 | 64 130 91 | Y |
| 29 | Armidale Dumaresq | Armidale | Inclining Block | 235 | Uniform Access Charge | Y | Nil | up to 400 kL 401 kL to 1000 kL >1000 kL | 178 236 274 | Y |
| | | Armidale, Untreated Water | Inclining Block | 235 | Uniform Access Charge | Y | Nil | up to 400 kL 401 kL to 1000 kL >1000 kL | 87 154 189 | |
| 24 | Ballina (Reticulator) | Ballina | Inclining Block | 142 | Service Connection Size* (eg. 40mm \$567) | Y | Nil | up to 350 kL >350 kL | 152 228 | Y |
| 100 | Balranald (Dual Supply) | Balranald & Euston, Filtered | Inclining Block | 135 | Service Connection Size* (eg. 40mm \$540) | Y | Nil | up to 600 kL >600 kL | 74 111 | Y |
| | | Balranald & Euston, Raw | Inclining Block | 143 | Service Connection Size* (eg. 40mm \$572) | Y | Nil | up to 600 kL >600 kL | 40 60 | |
| 21 | Bathurst Regional | Bathurst (Filtered) | Inclining Block | 125 | Service Connection Size* (eg. 40mm \$500) | Y | Nil | up to 250kL >250 kL | 130 195 | Y |
| 23 | Bega Valley (Unfiltered) | Bega Valley | Two Part | 175 | Service Connection Size* (eg. 40mm \$700) | Y | Nil | All | 220 | Y |
| 47 | Bellingen (Unfiltered) | Bellingen | Two Part | 242 | Service Connection Size* (eg 40mm \$968) | Y | Nil | All | 103 | Y |
| 53 | Berrigan (Dual Supply) | Berrigan,Barooga,Finley(Potable) | Two Part | 420 | Uniform Access Charge | Y | Nil | All | 100 | Y |
| | | Berrigan,Barooga,Finley(Non-Potable) | Two Part | 420 | Uniform Access Charge | Y | Nil | All | 50 | |
| | | Tocumwal (Filtered) | Two Part | 420 | Uniform Access Charge | Y | Nil | All | 67 | |
| 89 | Bogan | Nyngan | Inclining Block | 260 | Service Connection Size* (eg. 40mm \$1040) | Y | Nil | up to 600 kL >600 kL | 92 133 | Y |
| | | Nyngan, Raw Water | Inclining Block | 330 | | | Nil | up to 600 kL >600 kL | 55 80 | |
| | | Hermidale | Annual Charge | 480 | | | | | | |
| | | Girilambone & Coolabah | Annual Charge | 330 | | | | | | |
| 97 | Bombala | Bombala | Inclining Block | 455 | Uniform Access Charge | Y | Nil | up to 350 kL >350 kL | 52 113 | N |
| | | Delegate | Unmetered | 348 | Uniform Access Charge | Y | | | | |
| 104 | Boorowa | Boorowa | Inclining Block | 404 | Uniform Access Charge | Y | Nil | up to 600 kL >600 kL | 171 291 | Y |
| 87 | Bourke (Dual Supply) | Bourke, Filtered | Two Part | 202 | Service Connection Size (eg. 40mm \$691) | Y | Nil | All | 180 | Y |
| | | Bourke, Raw | Unmetered | 372 | Service Connection Size (eg. 40mm \$1172) | | | | | |
| 105 | Brewarrina | Brewarrina | Unmetered | 940 | | | | | | N |
| | | Goodooga | Unmetered | 771 | | | | | | N |
| 27 | Byron (Reticulator) | Byron | Two Part | 121 | Service Connection* (40mm: \$484) | Y | Nil | All | 196 | Y |
| 91 | Cabonne | Molong, Cumnock, Yeoval | Inclining Block | 219 | Service Connection (40mm: \$438.80) | Y | Nil | up to 300 kL 301 kL to 500 kL >500 kL | 136 315 430 | Y |
| | | North Yeoval Wellington | Inclining Block | 149 | Service Connection (40mm: \$297.20) | Y | Nil | up to 300 kL 301 kL to 500 kL >500 kL | 200 260 420 | |
| 92 | Carrathool | Carrathool | Inclining Block | 380 | Service Connection (40mm \$590) | Y | Nil | up to 350kL >350kL | 80 95 | Y |
| | | Hillston | Inclining Block | 172 | Meter Size (40mm \$257.44) | Y | Nil | up to 350kL >350kL | 60 80 | |
| | | Melbergen | Inclining Block | 300 | Uniform Access Charge | Y | Nil | up to 400 kL >400 kL | 55 80 | |
| | | Merriwagga Town Water | Inclining Block | 600 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 60 80 | |
| | | Goolgowi Potable Water | Inclining block | 290 | Meter Size (40mm \$430) | Y | Nil | up to 200 kL >200 kL | 60 85 | |
| | | Goolgowi Raw Water | Inclining Block | 290 | Meter Size (40mm \$430) | Y | Nil | up to 250kL >250kL | 35 62 | |
| | | Rankins Springs | Inclining Block | 790 | Meter Size (40mm \$880) | Y | Nil | up to 350kL >350kL | 50 65 | |
| 103 | Central Darling | Wilcannia (Filtered) | Two Part | 105 | Uniform Access Charge | Y | Nil | All | 300 | Y |
| | | Wilcannia (Raw) | Unmetered | 425 | Uniform Access Charge | Y | Nil | | | |
| | | White Cliffs, Raw | Two Part | 400 | Uniform Access Charge | Y | Nil | All | 330 | |
| | | Ivanhoe (Raw) | Two Part | 200 | Uniform Access Charge | Y | Nil | All | 145 | |
| | | Ivanhoe (Filtered) | Two Part | 120 | Uniform Access Charge | Y | Nil | All | 340 | |

Table 6B: Water supply – 2010-11 non-residential tariffs (continued)

| WATER UTILITY | Town | Tariff Type (1) | Access Charge for 20 mm Service Connection (or Minimum) | Basis for Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | Compliance with 2(d) of BPMG | |
|---------------|----------------------------|---|---|---|--|-------------|-------------|---|---------------------------------|---|
| | | | (\$) (2) | *Proportional to square of size of service connection or water meter (3) | (4) | (kL) (5) | (kL) (6) | (c/kL) (7) | (8) | |
| 40 | Central Tablelands | Central Tablelands Quandialla | Two Part Inclining Block | 124 464 | Meter Size*(40mm:\$496) | Y Y | Nil Nil | All up to 200 kL/quarter after 200 kL/quarter | 170 134 222 | Y |
| 14 | Clarence Valley | Treated Raw Water | Two Part Two Part | 127 64 | Service Connection Size (40mm:\$508) Service Connection Size (40mm:\$254) | Y Y | | All All | 138 69 | Y |
| 67 | Cobar (Dual Supply) | Cobar | Inclining Block | 260 | Service Connection Size (40mm:\$600) | Y | Nil | up to 450 kL 451 - 550 kL >551 kL | 90 160 220 | Y |
| 10 | Coffs Harbour (Unfiltered) | Coffs Harbour, Nana Glen, Coramba | Two Part | 127 | Meter Size: 40mm \$508 | Y | Nil | All | 219 | Y |
| 50 | Cooma-Monaro | Cooma, Bredbo, Nimmitabel | Two Part | 225 | Service Connection Size (40mm:\$900) | Y | Nil | All | 115 | Y |
| 75 | Coonamble Shire | Coonamble | Inclining Block | 82 | Meter Size 40mm :\$330 | Y | Nil | up to 370 kL | 44 | Y |
| | | Gulargambone | Inclining Block | 133 | Meter Size 40mm :\$532 | Y | Nil | >370 kL up to 430 kL | 67 60 | |
| | | Quambone | Inclining Block | 137 | Meter Size 40mm :\$550 | | | >430 kL up to 430 kL >430 kL | 89 62 92 | |
| 58 | Cootamundra (Reticulator) | Cootamundra | Two Part | 279 | Meter Size*: 40 mm \$1116 | Y | Nil | All | 142 | Y |
| 42 | Corowa | Corowa, Mulwala, Howlong | Two Part | 170 | Service Connection (eg.40mm \$680) | Y | Nil | All | 90 | Y |
| 26 | Country Energy | Broken Hill, Sunset Strp, Menindi, Silvertown, Filtered | Inclining Block | 230 | Service Connection (eg.40mm \$921.35) | Y | Nil | up to 400 kL | 125 | Y |
| | | Chlorinated | Inclining Block | 230 | Service Connection (eg.40mm \$921.35) | Y | Nil | > 400 kL extra 0.549kL/day for summer | 251 125 | |
| | | Untreated Effluent Water | Two Part Two Part | 230 230 | Service Connection (eg.40mm \$921.35) Service Connection (eg.40mm \$921.35) | | Nil | up to 400 kL > 400 kL extra 0.549kL/day for summer | 95 212 95 | |
| 39 | Cowra | Cowra, Rural, Commercial, Government | Two Part | 272 | Meter Size: 40 mm \$1088 | Y | Nil | All | 134 | Y |
| | | Cowra, Industrial | Two Part | 272 | Meter Size: 40 mm \$800 | Y | Nil | All | 64 | |
| | | Raw Water | Two Part | 272 | Meter Size: 40 mm \$1088 | | Nil | all | 74 | |
| 54 | Deniliquin | Deniliquin, Filtered | Two Part | 444 | Service connection(40mm \$887) | Y | Nil | All | 80 | Y |
| | | Deniliquin,Raw | Two Part | 213 | | Y | Nil | All | 40 | |
| 18 | Dubbo | Dubbo | Two Part | 176 | Meter Size* (eg.40mm \$702.92) | Y | Nil | All | 153 | Y |
| 15 | Eurobodalla (Unfiltered) | Eurobodalla | Inclining Block | 234 | Meter Size*: 40mm: \$936 | Y | Nil | up to 450 kL >450 kL | 240 360 | Y |
| 51 | Forbes | Forbes | Inclining Block | 153 | Service Connection Size* (40mm:\$611.50) | Y | Nil | <600 kL >600 kL | 69 102 | Y |
| 84 | Gilgandra (Groundwater) | Gilgandra Tooraweenah | Two Part Two Part | 192 100 | Service Connection Size* (40mm:\$773) Uniform Access Charge | Y Y | Nil Nil | All All | 86 120 | Y |
| 60 | Glen Innes Severn | Glen Innes Deepwater | Two Part Two Part | 90 90 | Service Connection Size* (40mm:\$360) Service Connection Size* (40mm:\$360) | Y Y | Nil Nil | All All | 164 72 | Y |
| 28A | Goldenfields (Reticulator) | Retail | Two Part | 129 | Meter Size*(40mm: \$515) | Y | Nil | All | 156 | Y |
| 1 | Gosford | Gosford | Two Part | 94 | Service Connection Size* (40mm:\$374.71) | Y | Nil | All | 186 | Y |
| 20 | Goulburn | Goulburn | Inclining Block | 321 | Meter Size*(40mm: \$1279) | Y | Nil | up to 292 kL (for 20mm >292 kL (for 20mm meter) | 159 214 | Y |
| | | Marulan | Inclining Block | 353 | Meter Size*(40mm: \$1407) | Y | Nil | up to 292 kL (for 20mm >292 kL (for 20mm meter) | 159 214 | |

Table 6B: Water supply – 2010-11 non-residential tariffs (continued)

| WATER UTILITY | Town | Tariff Type (1) | Access Charge for 20 mm Service Connection (or Minimum) | Basis for Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | Compliance with 2(d) of BPMG | |
|---------------|--------------------------------------|---|---|---|---|-------------|-------------|--|------------------------------|---|
| | | | (\$) (2) | *Proportional to square of size of service connection or water meter (3) | (4) | (kL) (5) | (kL) (6) | (c/kL) (7) | (8) | |
| 80 | Greater Hume | Culcairn | Inclining Block | 120 | Service Connection Size (40mm: \$170) | Y | Nil | up to 200kL >200kL | 90 110 | Y |
| | | Villages | Inclining Block | 190 | Service Connection Size (40mm: \$298) | Y | Nil | up to 200kL >200kL | 130 180 | |
| 30 | Griffith | Griffith (Filtered) | Inclining Block | 120 | Meter Size*(40mm: \$480) | Y | Nil | up to 200 kL >200 kL | 55 100 | Y |
| | | Yenda (Dual, Filtered) | Inclining Block | 189 | Uniform Access Charge | Y | Nil | up to 200 kL >200 kL | 55 100 | |
| | | Yenda (Dual), Raw | Two Part | | | | Nil | All | 28 | |
| 94 | Gundagai | Gundagai | Two Part | 105 | Service Connection Size*: 40mm:\$420 | Y | Nil | All | 110 | Y |
| 44 | Gunnedah (Groundwater) | Gunnedah | Inclining Block | 179 | Service Connection Size: 20 to 40 mm:\$179, 50mm: \$400 | Y | Nil | up to 400 kL >400 kL | 83 135 | Y |
| | | Curlewis | Inclining Block | 189 | Service Connection Size: 20 to 40 mm:\$189, 50mm: \$434 | Y | Nil | up to 400 kL >400 kL | 93 135 | |
| | | Mullaley | Inclining Block | 308 | Service Connection Size: 20 to 40 mm:\$308, 50mm: \$579 | Y | Nil | up to 400 kL >400 kL | 138 180 | |
| | | Tambar Springs | Inclining Block | 356 | Service Connection Size: 20 to 40 mm:\$356 | Y | Nil | up to 400 kL >400 kL | 223 255 | |
| 90 | Guyra | Guyra | Inclining Block | 280 | Uniform Access Charge | Y | Nil | up to 400 kL 401 to 1000 kL | 120 150 | N |
| | | Tingha | Inclining Block | 280 | Uniform Access Charge | Y | Nil | > 1000 kL up to 400 kL 401 to 1000 kL > 1000 kL | 155 135 160 165 | |
| 81 | Gwydir | Gwydir | Inclining Block | 440 | Meter Size*(40mm:\$1760) | Y | Nil | up to 600 kL >600 kL | 100 195 | Y |
| 76 | Harden (Reticulator) | Harden | Two Part | 206 | Service Connection Size*:40 mm:\$824 | Y | Nil | All | 206 | Y |
| 7 | Port Macquarie-Hastings (Unfiltered) | Hastings | Inclining Block | 145 | Meter Size* (eg. 40mm \$580) | Y | Nil | up to 270 kL >270 kL | 202 404 | Y |
| 86 | Hay (Dual Supply) | Hay (Filtered) | Inclining Block | 113 | Service Connection Size*:40 mm:\$452 | Y | Nil | up to 300 kL >300 kL | 98 144 | Y |
| | | Hay (Unfiltered) - commercial users | Inclining Block | 113 | Service Connection Size*:40 mm:\$452 | Y | Nil | up to 450 kL >450 kL | 41 62 | |
| 37 | Inverell | Inverell/Ashford/Yetman, Filtered | Inclining Block | 290 | Uniform Access Charge | Y | Nil | up to 500 kL > 500 kL | 100 120 | Y |
| 106 | Jerilderie (Dual Supply) | Jerilderie, Filtered | Inclining Block | 205 | Service Connection Size*(32mm:\$525) | Y | Nil | up to 250 kL >250 kL | 120 140 | Y |
| | | Jerilderie, Raw | Two Part | 292 | Uniform Access Charge | Y | Nil | All | 56 | |
| 25 | Kempsey (Groundwater) | Kempsey | Two Part | 240 | Meter Size: 40 mm: \$960 | Y | Nil | All | 145 | Y |
| 70 | Kyogle | Kyogle, Bonalbo, Muli-Muli, Woodenbong | Inclining Block | 246 | Service Connection Size*:40 mm:\$985 | Y | Nil | up to 200 kL > 200 kL | 114 175 | Y |
| 59 | Lachlan | Condoblin | Two Part | 250 | Service Connection Size*:40 mm:\$1000 | Y | Nil | All | 150 | Y |
| 48 | Leeton | Leeton, Whitton, Murrami | Inclining Block | 218 | Meter Size*(40mm:\$800) | Y | Nil | up to 300 kL 300 to 600 kL > 600 kL | 74 110 190 | Y |
| 22 | Lismore (Reticulator) | Lismore, Nimbin | Two Part | 145 | Service Connection Size*(40mm: \$580) | Y | Nil | All | 215 | Y |
| 31 | Lithgow | Lithgow | Inclining Block | 560 | Service Connection Size (50mm:\$740) | Y | Nil | All | 181 | Y |
| 61 | Liverpool Plains Shire Council | Quirindi | Inclining Block | 443 | Service Connection Size (eg. 40mm \$1101) | Y | Nil | up to 300 kL >300 kL | 100 165 | Y |
| | | Werris Creek | Inclining Block | 493 | Service Connection Size(eg. 40mm \$1737) | | | up to 300 kL >300 kL | 106 174 | |
| | | Villages | Inclining Block | 295 | Service Connection Size(eg. 40mm \$672) | | | up to 300 kL >300 kL | 100 165 | |
| 5 | MidCoast | | Inclining Block | 156 | Meter Size* (eg. 40mm \$624) | Y | Nil | up to 200 kL >200 kL | 220 246 | Y |
| 32 | Mid Western Regional Council | Mudgee, Gulgong & Rylstone | Two Part | 143 | Meter Size* (eg. 40mm \$573) | Y | Nil | All | 172 | Y |
| 38 | Moree Plains Shire | Moree, Mungindi, Boggabilla, Pallamallawa | Inclining Block | 235 | Service Connection Size (eg. 40mm \$940) | Y | Nil | up to 750 kL >750 kL | 85 125 | Y |
| | | Potable Weemalah Non-Potable | Inclining Block | 235 | Service Connection Size (eg. 40mm \$940) | Y | Nil | up to 750 kL >750 kL | 58 110 | |
| 65 | Murray | Murray, Filt | Two Part | 220 | Service Connection Size (eg. 40mm \$880.22) | Y | Nil | All | 76 | Y |
| | | Murray, Raw | Two Part | 81 | Service Connection Size (eg. 40mm \$324.32) | Y | Nil | All (\$73.40 for stage 2 and 3 water restrictions) | 73 | |

Table 6B: Water supply – 2010-11 non-residential tariffs (continued)

| WATER UTILITY | Town | Tariff Type (1) | Access Charge for 20 mm Service Connection (or Minimum) (2) (\$) | Basis for Access Charge (3) *Proportional to square of size of service connection or water meter | Access Charge Independent of Land Value ? (4) | Allowance (kL) (5) | Usage Range (kL) (6) | Usage Charge (c/kL) (7) | Compliance with 2(d) of BPMG (8) | |
|---------------|--------------------------------|---|--|--|--|--------------------------|----------------------------|---|-------------------------------------|---|
| | | | | | | | | | | |
| 101 | Murrumbidgee | Darlington Point | Inclining Block | 180 | Service Connection Size (eg. 40mm \$340) | Y | Nil | up to 500 kL 501 to 800 kL 31 | 26 36 | Y |
| | | Coleambally | Inclining Block | 200 | Service Connection Size (eg. 40mm \$360) | Y | Nil | up to 500 kL 501 to 800 kL 30 35 | 25 30 | |
| 41 | Muswellbrook | Muswellbrook,Denman, Sandy Hollow | Two Part | 175 | Service Connection Size* (eg. 40mm \$700) | Y | Nil | All | 168 | Y |
| 34 | Nambucca | Nambucca | Two Part | 73 | Service Connection Size (eg. 40mm \$292) | Y | Nil | All | 149 | Y |
| 46 | Narrabri (Groundwater) | Narrabri | Two Part | 231 | Service Connection Size (eg. 40mm \$269) | Y | Nil | All | 63 | Y |
| | | Narrabri, non - metered | Unmetered | 336 | Service Connection Size (eg. 40mm \$806) | | | | | |
| | | Gwabegar | Two Part | 368 | Service Connection Size* (eg. 40mm \$484) | Y | Nil | All | 79 | |
| | | Wee Wa | Two Part | 226 | Service Connection Size* (eg. 40mm \$273) | Y | Nil | All | 63 | |
| | | Boggabri | Two Part | 247 | Service Connection Size* (eg. 40mm \$605) | Y | Nil | All | 74 | |
| | | Bellata | Two Part | 368 | Service Connection Size* (eg. 40mm \$806) | Y | Nil | All | 79 | |
| | | Pilliga | Two Part | 368 | Service Connection Size* (eg. 40mm \$484) | Y | Nil | All | 79 | |
| 63 | Narrandera (Groundwater) | Narrandera | Two Part | 237 | Meter Size (eg. 40mm \$948) | Y | Nil | All | 87 | Y |
| 62 | Narromine (Groundwater) | Narromine, Trangie, Tomingley | Two Part | 160 | Service Connection Size* (eg. 40mm \$640) | Y | Nil | All | 85 | Y |
| 83 | Oberon (Unfiltered, Reticular) | Oberon | Two Part | 228 | Service Connection Size* (eg. 38mm \$489) | Y | Nil | All | 135 | Y |
| 19 | Orange | Orange | Two Part | 170 | Service Connection Size* (eg. 40mm \$680.60) | Y | Nil | All | 160 | Y |
| 71 | Palerang | Bungendore | Inclining Block | 323 | Service Connection Size* (eg. 40mm \$1292) | Y | Nil | up to 200 kL >200kL 200 | 123 200 | Y |
| | | Braidwood | Inclining Block | 412 | Service Connection Size* (eg. 40mm \$1647) | Y | Nil | up to 200 kL >200kL 341 | 176 341 | |
| | | Captains Flat | Inclining Block | 388 | Service Connection Size* (eg. 40mm \$1550) | Y | Nil | up to 200 kL >200kL 381 | 280 381 | |
| | | Parkes | Inclining Block | 240 | Meter Size, eg : 40mm \$960 | Y | Nil | All | 150 | Y |
| 17 | Queanbeyan (Reticular) | Queanbeyan | Inclining Block | 280 | Meter Size, eg : 40mm \$1210 | Y | Nil | up to 160 kL >160 kL 276 | 190 276 | Y |
| 33 | Richmond Valley | All | Inclining Block | 114 | Service Connection Size* (eg. 40mm \$456) | Y | Nil | up to 200 kL >200 kL 245 | 163 245 | Y |
| 8 | Riverina | WaggaWagga | Inclining Block | 120 | Uniform Access Charge | Y | Nil | up to 600 kL >600 kL 135 | 90 135 | N |
| | | Rural Towns & Villages | Inclining Block | 125 | Uniform Access Charge | Y | Nil | up to 600 kL >600 kL 150 | 100 150 | |
| 4 | Rous County Council | Rous Retail | Two Part | 124 | Uniform Access Charge | Y | Nil | All | 130 | N |
| 3 | Shoalhaven | Shoalhaven, treated | Inclining Block | 75 | Service Connection Size(40mm:\$300) | Y | Nil | up to 450 kL >450 kL 195 | 145 195 | Y |
| 35 | Singleton | Singleton | Two Part | 170 | Meter Size* (eg. 40mm \$680) | Y | Nil | All | 91 | Y |
| | | Mt Thorley | Two Part | 504 | Meter Size* (eg. 40mm \$1014) | Y | Nil | All | 159 | |
| | | Jerry's/Broke Plains | Inclining Block | 170 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL 169 | 126 169 | |
| 52 | Snowy River (Unfiltered) | Snowy River | Inclining Block | 300 | Meter Size, eg : 40mm \$1200 | Y | Nil | up to 250 kL >250 kL 175 | 115 175 | Y |
| 13 | Tamworth | Tamworth | Inclining Block | 204 | Service Connection Size* (eg. 40mm \$822) | Y | Nil | up to 400 kL 401 to 800 kL 141 | 116 128 141 | Y |
| | | Calala Backwash Water Raw Water | Two Part | | | | | All up to 400 kL 401 to 800 kL >800 kL 98 | 27 80 88 98 | |
| | | Dungowan Dam (if main crosses property) Raw Water | Inclining Block | 102 | Uniform Access Charge | Y | Nil | up to 400 kL 401 to 800 kL >800 kL 98 | 40 88 98 | |
| 68 | Tenterfield | Tenterfield, Jenning, Urbenville | Inclining Block | 125 | Meter Size* (eg. 40mm \$500) | Y | Nil | up to 450 kL > 450 kL 200 | 174 200 | Y |
| 93 | Tumbarumba (Unfiltered) | Tumbarumba | Inclining Block | 321 | Meter Size* (eg. 40mm \$1284) | Y | Nil | up to 200 kL >200 kL 230 | 137 230 | Y |
| | | Khancoban | Inclining Block | 314 | Meter Size* (eg. 40mm \$1256) | Y | Nil | up to 200 kL >200 kL 209 | 118 209 | |
| 43 | Tumut | Tumut | Inclining Block | 128 | Meter Size* (eg. 40mm \$509) | Y | Nil | up to 300 kL >300 kL 192 | 125 192 | Y |
| | | Tumit Raw Water | Inclining Block | 101 | Meter Size (eg. 40mm \$256) | | | up to 300 kL >300 kL 85 | 53 85 | |

Table 6B: Water supply – 2010-11 non-residential tariffs (continued)

| WATER UTILITY | Town | Tariff Type | Access Charge for 20 mm Service Connection (or Minimum) | Basis for Access Charge | Access Charge Independent of Land Value ? | Allowance | Usage Range | Usage Charge | Compliance with 2(d) of BPMG | |
|---------------|----------------------------|---|---|---|--|-------------|-------------|--|------------------------------|---|
| | | | (\$) (2) | *Proportional to square of size of service connection or water meter (3) | (4) | (kL) (5) | (kL) (6) | (c/kL) (7) | (8) | |
| 6 | Tweed | Tweed | 106 | Meter Size*(40mm:\$424) | Y | Nil | All | 150 | Y | |
| 45 | Upper Hunter Shire Council | Murrurundi | 322 | Meter Size(40mm:\$644) | Y | Nil | All | 145 | Y | |
| | | Merrriwa/Cassilis | 259 | Meter Size(40mm:\$525) | Y | Nil | All | 141 | | |
| | | Aberdeen/Scone | 259 | Meter Size(40mm:\$525) | Y | Nil | All | 141 | | |
| | | | | | | | | | | |
| 73 | Upper Lachlan Council | Crookwell, Taralga, Dalton, Gunning | Inclining Block | 330 | Uniform | Y | Nil | up to 200 kL > 200 kL | 195 260 | Y |
| 85 | Uralla | Uralla, Bundarra | Two Part | 250 | Uniform Access Charge | Y | Nil | All | 135 | Y |
| 88 | Wakool (Dual Supply) | Barham, Tooleybuc, Moulamein (Filt + Raw) | Two Part | 473 | Service Connection Size*(40mm:\$1893) | Y | Nil | All potable | 90 | Y |
| | | Filtered | Two Part | 237 | Service Connection Size*(40mm:\$948) | Y | Nil | All | 90 | |
| 98 | Walcha | Walcha | Two Part | 140 | Service Connection Size 38mm:\$505) | Y | Nil | All | 200 | Y |
| 79 | Walgett (Dual Supply) | Walgett Shire | Unmetered | 877 | Uniform Access Charge | Y | Unmetered | | | N |
| | | Lightening Ridge | Unmetered | 351 | Uniform Access Charge | Y | Unmetered | | | |
| | | Collarenebri | Unmetered | 820 | Uniform Access Charge | Y | Unmetered | | | |
| | | Carinda Bore | Unmetered | 345 | Uniform Access Charge | Y | Unmetered | | | |
| | | Rowena | Unmetered | 406 | Uniform Access Charge | Y | Unmetered | | | |
| | | Cumbarrah | Unmetered | 368 | Uniform Access Charge | Y | Unmetered | | | |
| 96 | Warren (Dual Supply) | Warren Bore Water | Inclining Block | 275 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 87 131 | Y |
| | | Warren River Water | Inclining Block | 275 | | | Nil | up to 450 kL >450 kL | 32 56 | |
| | | Nevertire | Inclining Block | 390 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 49 73 | |
| | | Collie | Inclining Block | 280 | Uniform Access Charge | Y | Nil | up to 400 kL >400 kL | 107 163 | |
| 55 | Warrumbungle, Northern | Coonabarabran | Inclining Block | 275 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 106 127 | Y |
| | | Timore Dam (Raw) | Inclining Block | 275 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 106 127 | |
| | | Baradine | Inclining Block | 299 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 146 176 | |
| | | Binnaway | Inclining Block | 408 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 146 176 | |
| | Warrumbungle, Southern | Villages: Bugaldie, Kenebri | Inclining Block | 472 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 127 153 | |
| | | Southern, Coolah, Dunedoo | Inclining Block | 339 | Uniform Access Charge | Y | Nil | up to 450 kL >450 kL | 146 176 | |
| | | Village | Inclining Block | 472 | Uniform Access Charge | Y | Nil | up to 450 kL > 450 kL | 127 153 | |
| | | Mendooran | Inclining Block | 742 | Uniform Access Charge | Y | Nil | up to 450 kL > 450 kL | 146 176 | |
| 57 | Wellington | Wellington, Geurie | Inclining Block | 310 | Service Connection Size 40mm:\$1232.37) | Y | Nil | up to 300 kL 301 to 500 kL 500 to 10000kL >10000 kL | 112 124 135 212 | Y |
| 74 | Wentworth (Dual Supply) | Filtered | Inclining Block | 235 | Service Connection Size*(40mm:\$995) | Y | Nil | up to 250 kL >250 kL | 115 270 | Y |
| | | Raw | Inclining Block | 120 | Service Connection Size(40mm:\$495) | Y | Nil | up to 700 kL >700 kL | 37 100 | |
| 16 | Wingecarribee | Wingecarribee | Inclining Block | 110 | Meter Size*(40mm: \$440) | | Nil | up to 225 kL >225 kL | 136 202 | Y |
| 2 | Wyong | Wyong | Two Part | 121 | Service Connection Size (eg. 40mm: \$483.06) | Y | Nil | All | 187 | Y |
| 56 | Yass Valley | Yass, Bowning, Binalong & Rural Areas | Two Part | 230 | Meter Size (40mm:\$359) | Y | Nil | All | 225 | Y |
| | | Murrumbateman | Two Part | 173 | Uniform Access Charge | Y | Nil | All | 225 | |
| 49 | Young (Reticulator) | Young | Two Part | 155 | Meter Size* (40mm:\$620) | Y | Nil | All | 180 | Y |

Table 7: Sewerage – residential charges, bills and cost recovery

| WATER UTILITY | RESIDENTIAL CHARGES (Current & 2010/11) | | | | | | | | | | | | | | BILLS | | | COST RECOVERY | | | | | | | | | | | | | |
|--|---|-------|-------|----------------------|-------|-------|---|--|-------|-------------------------------|---------------------------------------|--|-------|---|--|--|--------|---------------|--|-------|-------|----------------------|-------|-------|---|-------|----------------------------|---------------------|---------------------------------------|----------------------|-----------|
| | Fixed Charge (or Minimum) | | | Operating Cost (OMA) | | | Access Charge Independent of Land Value ? | Non-residential Sewer Usage Charge (Not incl SDF) c/kL | | Trade Waste Usage Charge c/kL | | Complying Liquid Trade Waste Fees and Charges* ? | | Non-Res & Trade Waste Charges (% of Annual rates & Charges) | Non-Res & Trade Waste Volume (% of Sewage Collected) | Typical Developer Charge (\$/Equivalent Tenement [ET]) | | | Typical Residential Bill (\$/assessment) | | | Return on Assets (%) | | | Economic Real Rate of Return (Sewerage) | | | Full Cost Recovery? | Recycled Water Usage Charge in place? | Connected Properties | |
| | (\$) | | | (c/kL) | | | Yes/No | (3a) | | (3b) | | (4) | | (5) | (6) | (7) | | | (8) P6 | | | (9) | | | (11) F18 | | | (11a) | (11b) | (12) C8 | |
| | 08/09 | 09/10 | 10/11 | 07/08 | 08/09 | 09/10 | 09/10 | 10/11 | 09/10 | 10/11 | 09/10 | 10/11 | 09/10 | 10/11 | 2009/10 | 2009/10 | 08/09 | 09/10 | 10/11 | 08/09 | 09/10 | 10/11 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | 10/11 | 2009/10 |
| Sydney Water | 491 | 501 | 517 | | | | Y | Y | 142 | 145 | | | | | | 4,740 | | | | 491 | 501 | 517 | | | | 1.2 | 0.9 | 1.7 | Y | | 1,724,000 |
| Hunter Water | 372* | 496 | 489 | | | | Y | Y | 62 | 63 | | | | | | 3,090 | | | | 372 | 496 | 489 | | | | 2.3 | 2.0 | 1.8 | Y | | 213,000 |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford | 399 | 464 | 483 | 121 | 146 | 167 | Y | Y | 99 | 103 | 141 | 149 | Y | Y | 18 | 18 | 3,660 | 3,960 | 4,200 | 399 | 464 | 483 | 1.1 | 1.4 | 2.1 | 1.3 | 1.1 | 2.1 | Y | | 68,545 |
| 2 Wyong | 398 | 429 | 437 | 124 | 124 | 138 | Y | Y | 77 | 78 | 31 | 54 | Y | Y | 13 | | 2,400 | 2,400 | 2,460 | 398 | 429 | 437 | -1.2 | -1.6 | -1.0 | -1.2 | -1.6 | -1.0 | Y* | 69 | 59,157 |
| 3 Shoalhaven | 557 | 585 | 615 | 211 | 257 | 249 | Y | Y | 91 | 95 | 139 | 147 | Y | Y | 14 | 17 | 5,840 | 7,630 | 7,860 | 557 | 585 | 615 | 1.1 | 0.8 | 1.1 | 1.6 | 1.3 | 1.6 | Y | | 40,508 |
| 5 MidCoast (Combined) | 690 | 794 | 834 | 163 | 180 | 212 | Y | Y | 204 | 214 | 200 | 220 | Y | Y | 14 | 18 | 8,010 | 8,210 | 8,390 | 690 | 794 | 834 | -1.9 | -1.8 | -1.1 | -0.1 | -0.2 | 0.3 | Y | | 32,841 |
| 6 Tweed | 509 | 527 | 568 | 138 | 137 | 151 | Y | Y | 95 | 105 | 112 | 151 | Y | Y | 13 | 9 | 4,970 | 5,150 | 5,300 | 509 | 527 | 568 | 0.9 | -0.2 | 0.7 | 1.0 | -0.2 | -0.3 | Y | | 29,440 |
| 7 Port Macquarie-Hastings | 556 | 601 | 617 | 119 | 104 | 123 | Y | Y | 92 | 94 | 140 | 140 | Y | Y | 13 | | 3,550 | 3,800 | 4,000 | 556 | 601 | 617 | 0.5 | -0.7 | 1.8 | 0.3 | 2.1 | 1.4 | Y | 69 | 26,408 |
| 9 Wagga Wagga | 356 | 380 | 406 | 107 | 119 | 122 | Y | Y | 100 | 150 | 66 | 152 | Y | Y | 32 | 16 | 3,500 | 3,500 | 3,500 | 356 | 380 | 406 | 1.2 | 0.9 | 1.9 | 1.0 | 1.0 | 1.3 | Y | 52 | 25,118 |
| 10 Coffs Harbour | 630 | 676 | 698 | 138 | 142 | 171 | Y | Y | 172 | 178 | 40 | 120 | Y | Y | 21 | | 4,930 | 4,930 | 8,380 | 630 | 676 | 698 | 0.9 | -0.7 | 1.6 | 2.8 | 2.1 | 2.6 | Y | | 22,690 |
| 11 Albury City | 399 | 426 | 444 | 152 | 138 | 178 | Y | Y | 185 | 218 | 135 | 140 | Y | Y | 26 | 7 | 4,160 | 4,160 | 4,160 | 399 | 426 | 444 | 0.8 | 1.2 | 1.7 | 1.3 | 2.1 | 2.1 | Y | | 20,953 |
| 13 Tamworth Regional | 638 | 675 | 695 | 114 | 107 | 128 | Y | Y | 60 | 83 | 57 | 124 | Y | Y | 21 | 44 | 1,640 | 1,700 | 1,740 | 638 | 675 | 695 | 7.5 | 8.8 | 7.4 | 6.9 | 7.8 | 6.5 | Y | | 18,600 |
| 15 Eurobodalla | 617 | 662 | 712 | 241 | 246 | 217 | Y | Y | 50 | 77 | 120 | 210 | Y | Y | 10 | 5 | 8,550 | 8,870 | 9,050 | 617 | 662 | 712 | 0.4 | 1.3 | 3.1 | 0.7 | 1.6 | 1.8 | Y | | 17,705 |
| 17 Queanbeyan | 323 | 334 | 342 | 110 | 100 | 161 | Y | Y | 64 | 67 | 135 | 147 | Y | Y | 12 | 18 | 1,160 | 1,210 | 1,270 | 323 | 334 | 342 | 1.3 | -0.5 | -0.6 | 0.1 | -1.0 | -2.3 | Y* | | 16,087 |
| 19 Orange | 292 | 292 | 334 | 128 | 112 | 137 | Y | Y | 137 | 142 | 137 | 142 | Y | Y | | 19 | 3,560 | 3,660 | 3,770 | 292 | 292 | 334 | 3.1 | 6.8 | 0.3 | 3.3 | 5.8 | -0.4 | Y | | 15,642 |
| 18 Dubbo | 478 | 502 | 537 | 167 | 204 | 184 | Y | Y | 144 | 154 | 130 | 154 | Y | Y | 30 | 38 | 4,480 | 4,740 | 4,780 | 478 | 502 | 537 | 1.7 | 1.2 | 2.2 | 1.7 | 1.4 | 1.7 | Y | | 15,421 |
| 16 Wingecarribee | 530 | 546 | 579 | 112 | 148 | 169 | Y | Y | 92 | 97 | 135 | 200 | Y | Y | 13 | 19 | 7,000 | 7,300 | 7,500 | 530 | 546 | 579 | 2.0 | 0.7 | 0.5 | 2.2 | 1.0 | 0.9 | Y | | 14,478 |
| 14 Clarence Valley | 585 | 637 | 694 | 166 | 157 | 172 | Y | Y | 193 | 210 | 167 | 199 | Y | Y | 19 | 12 | 8,000 | 8,000 | 7,000 | 585 | 637 | 694 | 1.9 | -0.1 | 0.6 | 3.6 | 1.2 | 1.7 | Y | | 14,395 |
| 21 Bathurst Regional | 381 | 399 | 399 | 126 | 168 | 127 | Y | Y | 89 | 100 | 150 | 170 | Y | Y | 36 | 32 | 2,050 | 2,050 | 2,650 | 381 | 399 | 399 | 1.8 | 2.7 | 1.5 | 1.3 | 2.2 | 1.1 | Y | | 14,806 |
| 24 Ballina | 440 | 480 | 550 | 254 | 149 | 187 | Y | Y | 125 | 140 | 110 | 120 | Y | Y | 19 | | 6,460 | 6,740 | 6,890 | 440 | 480 | 550 | 0.8 | -1.2 | 3.4 | -0.7 | -2.3 | -0.3 | Y | | 13,098 |
| 22 Lismore | 476 | 545 | 607 | 145 | 107 | 90 | Y | Y | | | | | Y | Y | 22 | | 7,310 | 7,490 | 7,710 | 476 | 545 | 607 | -1.2 | -1.8 | 0.5 | -0.9 | -1.3 | -1.3 | Y | | 12,395 |
| 23 Bega Valley | 890 | 957 | 986 | 357 | 400 | 390 | Y | Y | 322 | 356 | | 100 | Y | Y | 16 | | 8,370 | 8,620 | 8,860 | 890 | 957 | 986 | 1.3 | 0.4 | 0.8 | 2.1 | 1.5 | 1.9 | Y | | 11,888 |
| 27 Byron | 576* | 603* | 633* | 163 | 170 | 180 | Y | Y | 180 | 180 | 153 | 180 | Y | Y | 24 | 21 | 10,300 | 10,300 | 9,510 | 722 | 777 | 829 | 0.6 | 0.4 | 0.0 | 1.3 | 1.4 | 1.5 | Y | 100 | 10,133 |
| 26 Country Energy | 361 | 397 | 428 | 197 | 264 | 181 | Y | Y | 95 | 103 | 139 | 158 | Y | Y | 19 | 39 | | | | 361 | 397 | 428 | | | | | | 0.0 | Y | | 9,708 |
| 20 Goulburn Mulwaree | 600 | 600 | 630 | 193 | 214 | 231 | Y | Y | 235 | 245 | 200 | 212 | Y | Y | 27 | | 5,100 | 5,100 | 3,770 | 600 | 600 | 630 | 0.4 | 1.8 | 3.3 | 4.2 | 3.6 | 3.6 | Y | | 9,552 |
| 25 Kempsey | 570 | 595 | 625 | 125 | 115 | 163 | Y | Y | 146 | 154 | 140 | 155 | Y | Y | 25 | 19 | 6,700 | 6,870 | 7,080 | 570 | 595 | 625 | 0.2 | 0.0 | -0.2 | 0.5 | 0.4 | 0.6 | Y | | 9,022 |
| <i>Medians (% of LWUs basis excl bulk suppliers) for >10,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 579 | | | 170 | | | 23 out of 24 have non-res sewer usage charges | | | | 24 out of 24 have trade waste charges | | | | 5,300 | | | 593 | | | 1.1 | | | 1.3 | | | 0 LWUs did not achieve FCR | | | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 Armidale Dumaresq | 300 | 357 | 357 | 150 | 156 | 111 | Y | Y | | | 23 | 28 | Y | Y | 38 | 14 | 4,160 | 4,280 | 4,380 | 300 | 357 | 357 | 1.5 | 1.3 | 4.0 | 0.9 | 1.3 | 3.7 | Y | | 8,183 |
| 31 Lithgow | 399 | 482 | 381 | 174 | 125 | 142 | Y | Y | 103 | 112 | 120 | 147 | Y | Y | 10 | | 1,790 | 1,790 | 1,790 | 399 | 482 | 381 | 0.5 | -1.4 | 5.1 | -0.3 | -1.6 | -0.7 | Y | | 7,425 |
| 30A Hawkesbury | 429 | 445 | 494 | 130 | 134 | 137 | Y | Y | | | | 103 | N | N | 25 | | 5,590 | 6,800 | 7,110 | 429 | 445 | 494 | -1.6 | 0.1 | 14.4 | -1.7 | 0.0 | 14.1 | Y | | 7,522 |
| 30 Griffith | 438 | 558 | 669 | 143 | 152 | 158 | Y | Y | 130 | 135 | 75 | 110 | Y | Y | 26 | 20 | 1,800 | 1,840 | 1,900 | 438 | 558 | 669 | -0.1 | 0.1 | 1.7 | 0.2 | 0.3 | 1.3 | Y | | 7,565 |
| 33 Richmond Valley | 775 | 810 | 840 | 127 | 147 | 160 | Y | Y | 162 | 168 | | 138 | Y | Y | 12 | | 9,230 | 9,470 | 12,570 | 775 | 810 | 840 | 2.4 | 1.1 | 3.1 | 2.6 | 2.2 | 3.5 | Y | | 6,489 |
| 32 Mid Western Regional | 440 | 462 | 476 | 98 | 174 | 156 | Y | Y | | | | 44 | | | 10 | 24 | 3,200 | 3,200 | 3,390 | 440 | 462 | 476 | 1.7 | 0.1 | -0.1 | 0.6 | -1.0 | -1.2 | Y* | | 6,562 |
| 34 Nambucca | 340 | 385 | 385 | 102 | 104 | 133 | Y | Y | 186 | 220 | 120 | 152 | Y | Y | 40 | 8 | 3,930 | 4,080 | 4,160 | 340 | 385 | 385 | 0.1 | 0.5 | 7.0 | 0.4 | 0.9 | 2.0 | Y | | 5,347 |
| 35 Singleton | 373 | 387 | 399 | 103 | 109 | 144 | Y | Y | 110 | 135 | 40 | 90 | Y | Y | 21 | | 2,550 | 2,720 | 2,780 | 373 | 387 | 399 | 3.6 | 2.3 | 2.2 | 2.0 | 0.5 | 0.8 | Y | | 5,385 |
| 37 Inverell | 363 | 374 | 385 | 183 | 145 | 163 | Y | Y | | | | | N | N | 7 | 9 | 3,010 | 3,200 | 3,300 | 363 | 374 | 385 | -2.4 | -1.0 | 0.9 | -0.5 | 0.7 | 0.2 | Y | | 4,629 |
| 41 Muswellbrook | 437 | 459 | 510 | 136 | 155 | 190 | Y | Y | 168 | 168 | | 90 | Y | Y | 20 | | 4,800 | 4,980 | 5,150 | 437 | 459 | 510 | 4.4 | 1.9 | 2.5 | 3.3 | 1.4 | 1.7 | Y | | 5,100 |

Table 7: Sewerage – residential charges, bills and cost recovery (continued)

| WATER UTILITY | RESIDENTIAL CHARGES (Current & 2010/11) | | | | | | | | | | | | | | | BILLS | | | COST RECOVERY | | | | | | | | | | | | | | |
|--|---|--------|------|----------------------|-----|-----|---|---|--|-----|-------------------------------|-----|--|---|---|--|--|-------|---------------|--|-------|-----|----------------------|------|------|---|-------|---------|----------------------------------|--|----------------------------|-------|-------|
| | Fixed Charge (or Minimum) | | | Operating Cost (OMA) | | | Access Charge Independent of Land Value ? | | Non-residential Sewer Usage Charge (Not incl SDF) c/KL | | Trade Waste Usage Charge c/KL | | Complying Liquid Trade Waste Fees and Charges* ? | | Non-Res & Trade Waste Charges (% of Annual rates & Charges) | Non-Res & Trade Waste Volume (% of Sewage Collected) | Typical Developer Charge (\$/Equivalent Tenement [ET]) | | | Typical Residential Bill (\$/assessment) | | | Return on Assets (%) | | | Economic Real Rate of Return (Sewerage) | | | Full Cost Recovery? (N / Y* / Y) | Recycled Water Usage Charge in place? (c/KL) | Connected Properties (No.) | | |
| | (\$) | | | (c/KL) | | | Yes/No | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) P4.1 | | | (2) | | | (3) | | (3a) | | (3b) | | (4) | | (5) | (6) | (7) | | | (8) P6 | | | (9) | | | (11) F18 | | | (11a) | (11b) | (12) C8 | | |
| | 08/09 09/10 10/11 | | | 07/08 08/09 09/10 | | | 09/10 10/11 | | 09/10 10/11 | | 09/10 10/11 | | 09/10 10/11 | | 2009/10 | 2009/10 | 08/09 09/10 10/11 | | | 08/09 09/10 10/11 | | | 07/08 08/09 09/10 | | | 09/10 | 10/11 | 2009/10 | | | | | |
| 36 | Parkes | 290 | 320 | 355 | 98 | 120 | 118 | Y | Y | 104 | 104 | 140 | 150 | Y | Y | 25 | 27 | 4,100 | 4,350 | 4,100 | 290 | 320 | 355 | -3.1 | -0.2 | 6.0 | 1.5 | 0.4 | 4.3 | Y | | 4,945 | |
| 42 | Corowa | 400 | 500 | 550 | 208 | 240 | 240 | Y | Y | 100 | 103 | 138 | 138 | Y | Y | 16 | 9 | 2,000 | 2,000 | 2,500 | 400 | 500 | 550 | 1.8 | 0.5 | 2.8 | 1.9 | 1.4 | 2.7 | Y | | 4,869 | |
| 38 | Moree Plains | 570 | 591 | 610 | 112 | 142 | 145 | Y | Y | 104 | 110 | | 138 | Y | Y | 23 | | 3,870 | 3,900 | 4,160 | 570 | 591 | 610 | -0.6 | 1.8 | 2.4 | 1.7 | 2.3 | 2.2 | Y | 10 | 3,736 | |
| 44 | Gunnedah | 314 | 320 | 340 | 97 | 111 | 119 | Y | Y | 24 | 24 | | 125 | Y | Y | 11 | 22 | 1,950 | 2,000 | 2,050 | 314 | 320 | 340 | -0.4 | -0.2 | 0.9 | -0.2 | -0.3 | -0.8 | Y | | 3,999 | |
| 46 | Narrabri | 450 | 469 | 492 | 97 | 115 | 142 | Y | Y | | | 175 | 200 | Y | Y | | | 4,020 | 4,020 | 4,180 | 450 | 469 | 492 | 0.0 | -1.0 | 2.2 | 1.5 | -0.6 | 1.4 | Y | | 3,730 | |
| 43 | Tumut | 496 | 531 | 568 | 213 | 196 | 194 | Y | Y | 155 | 166 | | | Y | Y | 21 | | 4,710 | 4,880 | 4,880 | 496 | 531 | 568 | 3.9 | 1.1 | 1.4 | 3.3 | 0.9 | 1.0 | Y | | 4,154 | |
| 49 | Young | 375 | 395 | 550 | 60 | 77 | 77 | Y | Y | | | | | Y | Y | 35 | | 1,100 | 1,160 | 1,100 | 375 | 395 | 550 | 10.1 | 5.8 | 6.9 | 7.6 | 5.4 | 6.6 | Y | | 3,708 | |
| 39 | Cowra | 538 | 557 | 574 | 148 | 196 | 184 | Y | Y | | | | 143 | Y | Y | 20 | | 4,490 | 4,650 | 4,810 | 538 | 557 | 574 | 5.3 | 4.0 | 4.3 | 5.6 | 4.2 | 4.7 | Y | | 3,552 | |
| 45 | Upper Hunter | 365 | 378 | 393 | 155 | 161 | 180 | Y | Y | 70 | 73 | | | Y | Y | 18 | | 2,300 | 2,300 | 2,300 | 365 | 378 | 393 | 0.6 | -1.2 | -1.7 | -0.7 | -2.6 | -2.7 | N | | 4,136 | |
| 52 | Snowy River | 435* | 525* | 615 | 338 | 286 | 346 | Y | Y | 100 | 202 | | 152 | Y | Y | | | 5,400 | 5,400 | 5,400 | 536 | 634 | 615 | -0.3 | 1.8 | 3.3 | -1.7 | 0.9 | 2.7 | Y | | 3,606 | |
| 51 | Forbes | 403 | 435 | 435 | 139 | 154 | 164 | Y | Y | 124 | 127 | 55 | 57 | Y | Y | 26 | 17 | 1,850 | 2,520 | 3,210 | 403 | 435 | 435 | 1.2 | 1.4 | 0.1 | 1.6 | 1.6 | 0.3 | Y | | 3,076 | |
| 50 | Cooma-Monaro | 641 | 667 | 694 | 316 | 317 | 257 | Y | Y | | | | | N | N | 17 | | 3,850 | 3,850 | 4,120 | 641 | 667 | 694 | -0.8 | 0.4 | -0.7 | -0.4 | 0.3 | -0.7 | Y* | | 3,405 | |
| 53 | Berrigan | 340 | 350 | 359 | 216 | 258 | 234 | Y | Y | | | | | N | N | 19 | | 1,700 | 1,700 | 1,700 | 340 | 350 | 359 | 2.5 | -1.9 | -1.8 | 1.2 | -3.1 | -3.0 | N | | 3,297 | |
| 48 | Leeton | 414 | 426 | 438 | 93 | 138 | 158 | Y | Y | 68 | 70 | | 156 | Y | Y | 47 | 21 | 4,000 | 4,000 | 4,200 | 414 | 426 | 438 | 2.4 | 1.4 | 1.6 | 1.2 | 0.7 | 0.7 | Y | | 3,202 | |
| 54 | Deniliquin | 525 | 543 | 557 | 203 | 222 | 271 | Y | Y | | 38 | 139 | 15 | | Y | Y | 3 | | 4,190 | 4,140 | 4,190 | 525 | 543 | 557 | 3.8 | 2.0 | 3.8 | 1.8 | 0.8 | -0.2 | Y | | 3,158 |
| Medians (% of LWUs basis excl bulk suppliers) for 3,000 to 10,000 Properties | | 484 | | | 159 | | | 17 out of 24 have non-res sewer usage charges | | | | | 20 out of 24 have trade waste charges | | | | | 4,110 | | | 484 | | | 2.3 | | | 1.1 | | | 2 LWU did not achieve FCR | | | |
| LWUs with 1,501 - 3,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | Bellingen | 499 | 531 | 558 | 141 | 136 | 213 | Y | Y | 115 | 120 | 109 | 120 | Y | Y | 4 | | 3,970 | 4,250 | 4,420 | 499 | 531 | 558 | 0.8 | 0.3 | -0.6 | -0.7 | -1.7 | -1.8 | Y* | | 2,973 | |
| 60 | Glen Innes Severn | 385 | 390 | 399 | 120 | 78 | 108 | Y | Y | 90 | 90 | 135 | | Y | Y | | | 2,470 | 3,190 | 2,440 | 385 | 390 | 399 | 0.3 | -0.1 | 1.1 | 1.1 | 1.2 | 0.6 | Y | | 2,791 | |
| 58 | Cootamundra | 275 | 290 | 290 | 134 | 143 | 152 | Y | Y | 153 | 161 | | | N | Y | 25 | 15 | 2,580 | 2,750 | 2,810 | 275 | 290 | 290 | -0.4 | 0.3 | -0.1 | -0.3 | 0.4 | 0.1 | Y | | 2,762 | |
| 57 | Wellington | 492 | 508 | 521 | 157 | 223 | 152 | Y | Y | 72 | 74 | 127 | 134 | Y | Y | 23 | 8 | 1,910 | 1,910 | 1,910 | 492 | 508 | 521 | 0.8 | -1.1 | 0.3 | 1.8 | 0.0 | 1.2 | Y | | 2,665 | |
| 91 | Cabonne | 189.6* | 196* | 203* | 212 | 210 | 304 | Y | Y | 131 | 120 | 140 | 140 | Y | Y | 18 | 5 | 4,280 | 4,300 | 5,060 | 297 | 306 | 316 | 1.5 | 1.2 | -0.1 | 0.7 | 0.9 | -0.3 | Y* | | 2,384 | |
| 80 | Greater Hume | 270 | 285 | 315 | 181 | 193 | 201 | Y | Y | 80 | 90 | | | N | N | 23 | 13 | 6,000 | 6,000 | 6,000 | 270 | 285 | 315 | -0.5 | -0.6 | -0.9 | -1.1 | -1.2 | -1.4 | Y* | | 2,555 | |
| 59 | Lachlan | 332 | 338 | 386 | 94 | 117 | 129 | Y | Y | 105 | 105 | 120 | 120 | Y | Y | 5 | 24 | | 7,500 | 7,500 | 332 | 338 | 386 | 1.1 | -0.4 | -1.4 | -0.6 | -1.0 | -3.1 | Y* | | 2,160 | |
| 65 | Murray | 363 | 366 | 370 | 155 | 134 | 123 | Y | Y | 50 | 51 | 125 | 125 | Y | Y | 26 | 31 | 2,050 | 2,050 | 2,050 | 363 | 366 | 370 | 0.9 | 1.7 | 1.9 | 1.0 | 1.7 | 1.7 | Y | | 2,670 | |
| 62 | Narromine | 440* | 455 | 469 | 105 | 102 | 102 | Y | Y | 165 | 170 | 160 | 170 | Y | Y | 15 | | 3,240 | 3,340 | 3,750 | 440 | 455 | 469 | 3.3 | 1.0 | 4.8 | 2.2 | 0.8 | 3.6 | Y | | 1,952 | |
| 56 | Yass Valley | 505 | 515 | 530 | 208 | 232 | 214 | Y | Y | 148 | 160 | 120 | 125 | Y | Y | | 14 | 4,520 | 4,640 | 4,770 | 505 | 515 | 530 | 5.6 | 2.7 | 1.8 | 5.5 | 2.6 | 1.4 | Y | | 2,205 | |
| 61 | Liverpool Plains | 319 | 350 | 385 | 116 | 102 | 134 | Y | Y | 141 | 145 | | 300 | Y | Y | | | 610 | 2,570 | 610 | 319 | 350 | 385 | -1.3 | 0.0 | -0.2 | -2.3 | -0.1 | -0.9 | Y* | | 1,961 | |
| 55 | Warrumbungle | 366 | 461 | 450 | | 149 | 162 | Y | Y | | 119 | | 119 | N | N | 27 | 30 | 1,100 | 1,320 | 1,320 | 366 | 461 | 450 | | 0.4 | 2.1 | | 0.6 | 1.6 | Y | | 2,459 | |
| 69 | Temora | 232 | 244 | 256 | 96 | 288 | 370 | Y | Y | 25 | 25 | | | N | N | 10 | 8 | 150 | 160 | 160 | 232 | 244 | 256 | 0.8 | 1.5 | 0.2 | 0.4 | 1.0 | -0.3 | Y | 35 | 2,111 | |
| 71 | Palerang | 873 | 897 | 920 | 194 | 234 | 256 | Y | Y | 271 | 278 | 127 | | Y | | 6 | 3 | 7,500 | 10,000 | 10,180 | 873 | 897 | 920 | 6.7 | 6.6 | 4.0 | 6.0 | 6.0 | 3.6 | Y | | 1,917 | |
| 72 | Bland | 493 | 510 | 525 | | 243 | 203 | Y | Y | | | | 10 | N | N | | | 1,000 | 1,000 | 1,470 | 493 | 510 | 525 | | 0.1 | 2.0 | | 0.5 | 1.0 | Y | | 1,843 | |
| 63 | Narrandera | 443 | 443 | 460 | 198 | 177 | 100 | Y | Y | 113 | 117 | | | N | N | 21 | | | | | 443 | 443 | 460 | -1.2 | 0.8 | 2.1 | -1.2 | 0.9 | 0.0 | Y | | 1,696 | |
| 67 | Cobar | 245 | 250 | 255 | 78 | 74 | 84 | Y | Y | | | | | Y | Y | 3 | | 770 | 770 | 770 | 245 | 250 | 255 | 0.6 | 1.2 | 0.4 | 0.3 | 1.1 | 0.3 | Y | 35 | 1,735 | |
| 74 | Wentworth | 500 | 570 | 620 | 23 | 24 | 21 | Y | Y | | | | | N | N | 10 | | 3,280 | 5,340 | 5,340 | 500 | 570 | 620 | -1.0 | -0.9 | 0.5 | -0.7 | -0.5 | 0.7 | Y | | 1,792 | |
| 75 | Coonamble | 324 | 337 | 346 | 143 | 163 | 133 | Y | Y | 74 | 81 | | | N | N | 14 | 11 | | | 360 | 324 | 337 | 346 | -2.2 | -2.5 | -3.9 | -6.9 | -7.5 | -8.1 | N | | 1,410 | |
| 70 | Kyogle | 557 | 569 | 569 | 153 | 105 | 163 | Y | Y | 91 | 91 | 100 | 100 | Y | Y | 20 | 20 | 3,000 | 3,000 | 2,000 | 557 | 569 | 569 | 0.9 | 0.9 | 0.2 | 1.1 | 1.1 | 0.6 | Y | | 1,693 | |
| 77 | Junee | 325 | 335 | 344 | 164 | 128 | 160 | Y | Y | | | | | N | N | 14 | 15 | 1,650 | 1,650 | 1,650 | 325 | 335 | 344 | 0.4 | 0.7 | 0.0 | -0.1 | 0.1 | -0.4 | Y | 15 | 1,587 | |
| 78 | Blayney | 420 | 430 | 450 | 164 | 224 | 233 | Y | Y | 110 | 110 | 105 | 115 | Y | Y | 10 | 11 | 2,040 | 2,160 | 3,030 | 420 | 430 | 450 | -2.0 | -0.4 | 0.2 | 0.3 | -0.2 | 0.4 | Y | | 1,903 | |
| 79 | Walgett | 338 | 355 | 372 | 61 | 54 | 72 | Y | Y | | | | | Y | | | | | | | 338 | 355 | 372 | 1.9 | 0.5 | 0.6 | 1.8 | 0.5 | 0.5 | Y | | 1,605 | |
| 68 | Tenterfield | 600 | 669 | 738 | 188 | 292 | 258 | Y | Y | 90 | 90 | 125 | 125 | Y | Y | 19 | | 1,500 | 1,500 | 1,500 | 600 | 669 | 738 | -2.0 | -2.4 | 0.1 | 1.3 | -1.2 | 0.2 | Y | | 1,630 | |
| Medians (% of LWUs basis excl bulk suppliers) for 1,500 to 3,000 Properties | | 450 | | | 156 | | | 19 out of 24 have non-res sewer usage charges | | | | | 15 out of 24 have trade waste charges | | | | | 2,245 | | | | | | | | | | | | | | | |

Table 7A: Sewerage – 2010-11 residential multiple tariffs

| WATER UTILITY | | Town | Access Charge (or Minimum) (\$) (1) | Access Charge Independent of Land Value ? (2) |
|---------------|----------------------------|---|--|---|
| 78 | Blayney | Blayney | 450 | Y |
| | | Milthorpe | 720 | Y |
| 87 | Bombala | Bombala | 477 | Y |
| | | Delegate | 387 | Y |
| 105 | Brewarrina | Brewarrina | 629 | |
| | | Goodooga | 273 | |
| 91 | Cabonne | Molong | 203 | Y |
| | | Canowindra | 417 | Y |
| | | Eugowra | 354 | Y |
| | | Cudal | 417 | Y |
| | | Manildra, Cumnock, Yeoval | 417 | Y |
| 92 | Carrathool | Hilston | 238 | Y |
| | | Goolgowi | 154 | Y |
| 75 | Coonamble | Coonamble | 346 | Y |
| | | Gulargambone | 492 | Y |
| 20 | Goulburn Mulwaree Council | Goulburn | 630 | Y |
| | | Marulan | 760 | Y |
| 80 | Greater Hume | Burrumbuttock | 490 | Y |
| | | Jindera | 270 | Y |
| | | Holbrook | 355 | Y |
| | | Culcairn | 315 | Y |
| | | Henty | 240 | Y |
| | | Walla Walla | 360 | Y |
| 44 | Gunnedah | Gunnedah | 340 | Y |
| | | Curlewis | 517 | Y |
| 90 | Guyra | Guyra | 515 | Y |
| | | Tingha | 361 | Y |
| 102 | Lockhart | Lockhart | 442 | Y |
| | | The Rock | 389 | Y |
| | | Yerong Creek | 375 | Y |
| 101 | Murrumbidgee | Darlington Point | 300 | N |
| | | Coleambally | 250 | N |
| 46 | Narrabri | Narrabri | 492 | Y |
| | | Wee Waa | 502 | Y |
| | | Boggabri | 382 | Y |
| 71 | Palerang | Bungendore | 920 | Y |
| | | Braidwood | 928 | Y |
| | | Captain Flat | 844 | Y |
| 93 | Tumbarumba | Tumbarumba | 444 | Y |
| | | Khancoban | 473 | Y |
| 73 | Upper Lachlan Council | Crookwell | 618 | Y |
| | | Gunning | 618 | Y |
| | | Taralga | 402 | Y |
| 88 | Wakool | Wakool, Barham, Moulamein, Murray Downs | 509 | Y |
| | | Tooleybuc | 472 | Y |
| 79 | Walgett | Walgett | 372 | Y |
| | | Lightening Ridge | 353 | Y |
| | | Collarenebri | 403 | Y |
| 96 | Warren | Warren | 470 | Y |
| | | Nevertire | 495 | Y |
| 55 | Warrumbungle Shire Council | Coolah | 374 | Y |
| | | Dunedoo | 380 | Y |
| | | Coonabarabran | 450 | Y |
| | | Baradine | 489 | Y |
| 57 | Wellington | Wellington | 521 | Y |
| | | Mumbli | 501 | Y |
| | | Guerie | 521 | Y |

NOTE: This Table only lists LWUs with multiple tariffs for residential customers.
Residential tariffs for all LWUs are shown in Table 7.

Table 7B: Sewerage – 2010-11 non-residential tariffs

| WATER UTILITY | | Town | Access Charge (or Minimum) (\$) (1) | Access Charge Independent of Land Value? (2) | Basis for Access Charge *Proportional to square of size of service connection or water meter (3) | Sewer Usage Charge (for estimated volume discharged to sewerage system = water usage x sewer discharge factor) (4) | Substantial Compliance with 2(c) of BPMG Yes/No (5) | |
|---------------|-------------------|-------------------------------------|--|---|--|---|--|---|
| 11 | Albury | Albury | 162xSDF | Y | Service Connection (40mm:\$648xSDF) | 218 c/kL | Y | |
| 29 | Armidale Dumaresq | Armidale | 357 | Y | Multiple Units: \$318/WC; Hotels, Motels: \$117/WC, \$50/Urinals | | N | |
| 24 | Ballina | Ballina | 415 | Y | Service connection size* (40mm \$1654) | 140 c/kL | Y | |
| 100 | Balranald | Balranald | 269 | Y | Service connection size* (40mm \$1076) | 15 c/kL | Y | |
| 21 | Bathurst Regional | Bathurst | 342 | Y | Service Connection Size*(40mm: \$1371) | 100 c/kL | Y | |
| 23 | Bega Valley | Bega Valley | 986 | Y | Meter size* (eg. 40mm \$3944) | 356 c/kL | Y | |
| 47 | Bellingen | Bellingen, Urunga, Dorrigo | 558 | Y | Uniform Access Charge | 120 c/kL for >365kL discharge | Y | |
| 53 | Berrigan | Berrigan, Finley, Tocumwal, Barooga | 359 | Y | Uniform Access Charge, after two WCs \$78/WC | | | |
| 72 | Bland | Bland | 525 | N | Uniform Access Charge \$107/WC, \$54/Urinal | | Y | |
| 78 | Blayney | Blayney | 395 | Y | Service connection size* (40mm \$1579) | 110 c/kL | Y | |
| | | Millthorpe | 675 | Y | Service connection size* (40mm \$2698) | 110 c/kL | | |
| 89 | Bogan | Nyngan | 103 | Y | Service connection size* (40mm \$412) | 190 c/kL | Y | |
| 97 | Bombala | Bombala | 458 | Y | Uniform Access Charge | 18 c/kL | Y | |
| | | Delegate | 387 | Y | Uniform Access Charge | 78 c/kL | | |
| 104 | Boorowa | Boorowa | 513 | Y | Uniform Access Charge | \$90.48/WC | N | |
| 87 | Bourke | Bourke | 561 | Y | Uniform Access Charge | | N | |
| 105 | Brewarrina | Brewarrina | 629 | | | \$53.45/Urinals, Additional WCs (2-5) \$158.95, additional WC \$53.45/WC | N | |
| | | Goodooga | 273 | | | \$53.45/Urinals, Additional WCs (2-5) \$158.95, additional WC \$53.45/WC | | |
| 27 | Byron | Byron | 633 | Y | Service connection size* (40mm \$2532) | 180 c/kL | Y | |
| 91 | Cabonne | Molong | 203 | Y | Service connection size (40mm \$570.30) | 120 c/kL | Y | |
| | | Canowindra | 417 | Y | Service connection size (40mm \$577.20) | 120 c/kL | | |
| | | Eugowra | 354 | Y | Service connection size (40mm \$560) | 120 c/kL | | |
| | | Manildra, Cudal | 417 | Y | Service connection size (40mm \$577.20) | | | |
| | | Cummock, Yeoval | 500 | N | Land Value | | | |
| 92 | Carrathool | Hilston | 238.10+\$23.80/unit | Y | Base Charge | Motels:Base+10% Base charge/unit; Service Station:1.5 Base Charge;laundromat, Clubs & Hotels:2xBase Charge | \$80.10/WC, \$40.10/Urinal | N |
| | | Goolgowi | 153.60+\$15.30/unit | | Base Charge | Motels:Base+10% Base charge/unit; Service Station:1.5 Base Charge;laundromat, Clubs & Hotels:2xBase Charge | \$80.10/WC, \$40.10/Urinal | |
| 103 | Central Darling | Wilcannia | 360 | Y | Uniform Access Charge for two fittings, \$120/additional fitting | | N | |
| 14 | Clarence Valley | | 400 | Y | Service connection size* (40mm: \$1600) | 210 c/kL | Y | |
| 67 | Cobar | | 275 | Y | Uniform Access Charge for 3 WCs, additional \$75/WC | | N | |
| 10 | Coffs Harbour | Coffs Harbour | 682*water meter factor*discharge factor | Y | Based on water meter factor | 178 c/kL | Y | |
| 99 | Coolamon | Coolamon & Gainmain | 280 | Y | Uniform Access Charge | for >2 Pedestals, \$79/Pedestal | N | |
| 50 | Cooma-Monaro | Cooma,Nimmitabel | 738 | Y | \$738 for consumption < 100 kL, increasing to \$17538 for consumption > 8,000 kL | | N | |
| 75 | Coonamble | Coonamble | 346 | Y | Uniform Access Charge | 81 c/kL | Y | |
| | | Gulgambone | 492 | Y | Uniform Access Charge | 97 c/kL | | |
| 58 | Cootamundra | Cootamundra | 168 | Y | Meter Size* 40mm:\$672 | 161 c/kL | Y | |
| 42 | Corowa | Corowa, Howlong & Mulwala | 314 | Y | Service connection size (40mm:\$1254) | 103 c/kL | Y | |
| 26 | Country Energy | Broken Hill | 590 | Y | Service connection size* (40mm:\$2360.42) | 103 c/kL | Y | |
| 39 | Cowra | Cowra | 574+125 | Y | Uniform Access Charge | \$63/cistern | N | |
| 54 | Deniliquin | Deniliquin | 444 | Y | Uniform Access Charge | 38 c/kL | N | |
| 18 | Dubbo | Dubbo | 284 | Y | Service connection size* (40mm: \$1134.44) | 154 c/kL | Y | |
| 15 | Eurobodalla | Eurobodalla | 712 | Y | Meter Size (Availability Factor based)* (eg. 40mm \$2848) | 77 c/kL | Y | |
| 51 | Forbes | Forbes | 435 | Y | Service Connection Size* 40mm:1740 | 127 c/kL | Y | |

Table 7B: Sewerage – 2010-11 non-residential tariffs (continued)

| WATER UTILITY | | Town | Access Charge (or Minimum) (\$) (1) | Access Charge Independent of Land Value? (2) | Basis for Access Charge *Proportional to square of size of service connection or water meter (3) | Sewer Usage Charge (for estimated volume discharged to sewerage system = water usage x sewer discharge factor) (4) | Substantial Compliance with 2(c) of BPMG Yes/No (5) |
|---------------|-------------------------|--|--|---|--|---|--|
| 84 | Gilgandra | Gilgandra | 200 | Y | Service Connection Size*(40mm:\$793) | 101 c/kL | Y |
| 60 | Glen Innes Severn | Glen Innes | 163 | Y | Service Connection Size*(40mm:\$652) | 90 c/kL | Y |
| 1 | Gosford | Gosford | 361 | Y | Meter Size*(40mm \$1444.13) | 103 c/kL | Y |
| 20 | Goulburn Mulwaree | Goulburn | 345 | Y | Meter Size* (40mm: \$1390) | 245 c/kL | Y |
| 80 | Greater Hume | Marulan | 765 | Y | Meter Size* (40mm: \$3045) | 245 c/kL | Y |
| | | Burrumbuttock | 118 | Y | Service Connection Size(40mm:\$382) | 90 c/kL | |
| | | Jindera | 135 | Y | Service Connection Size(40mm:\$219) | 90 c/kL | |
| | | Holbrook | 131 | Y | Service Connection Size(40mm:\$227) | 90 c/kL | |
| | | Culcairn | 156 | Y | Service Connection Size(40mm:\$252) | 90 c/kL | |
| | | Henty | 150 | Y | Service Connection Size(40mm:\$250) | 90 c/kL | |
| | | Walla Walla | 183 | Y | Service Connection Size(40mm:\$286) | 90 c/kL | |
| 30 | Griffith | Griffith | 381 | Y | Service Connection Size* (40mm:\$1308) | 135 c/kL | Y |
| 94 | Gundagai | Gundagai | 105 | Y | Service Connection(40mm:\$420) | 152 c/kL | Y |
| 44 | Gunnedah | Gunnedah | 179 | Y | Service Connection Size (40mm:\$716) | 24 c/kL | Y |
| | | Curlewis | 189 | Y | Service Connection Size(40mm:\$756) | 24 c/kL | |
| 90 | Guyra | Guyra | 515 | Y | Uniform Access Charge | Ist WC/Urinal covered by rate, 2 to 6: \$219/WC or Urinal, All additional: \$110/WC or Urinal | N |
| | | Tingha | 361 | Y | Uniform Access Charge | | |
| 81 | Gwydir | Bingara, Warialda | 410 | Y | Meter Size(eg 40mm:1640) | 245 c/kL | Y |
| 76 | Harden | Harden | 206 | Y | Service Connection*(eg 40mm:\$824) | 157 c/kL | Y |
| 7 | Port Macquarie-Hastings | Hastings | 617 | Y | Uniform Access Charge | 94 c/kL | Y |
| 30A | Hawkesbury | Category 1, Vol < 1kL/d | 575 | Y | Uniform Access Charge | for waste > 20 kL/d, 206c/kL | N |
| | | Category 2, Vol : 1kL to 5 kL/d | 2883 | Y | Uniform Access Charge | | |
| | | Category 3, Vol < 5kL to 10 kL/d | 5743 | Y | Uniform Access Charge | | |
| | | Category 4, Vol : 10kL to 20 kL/d | 11451 | Y | Uniform Access Charge | | |
| | | Category 5, Vol > 20 kL/d | 11451 | Y | Uniform Access Charge | | |
| 86 | Hay | Hay | 463 | Y | Uniform Access Charge | 98 c/kL | Y |
| 37 | Inverell | Inverell, Ashford, Delungra, Gilgai | 385 | Y | Uniform Access Charge | | N |
| 106 | Jerilderie | Jerilderie | 500 | Y | Service Connection*(eg 32mm:1280) | 70 c/kL | Y |
| 77 | June | June | 344 | Y | \$86.20/WC, \$33.20/Urinal | | N |
| 25 | Kempsey | Kempsey | 563 | Y | Meter Size(eg 40mm:\$2250) | 154 c/kL | Y |
| 70 | Kyogle | Kyogle | 224 | Y | Service Connection Size*(40mm:\$896) | 91 c/kL | Y |
| 59 | Lachlan | Lachlan | 250 | Y | Service Connection*(eg 40mm:\$1000) | 105 c/kL | Y |
| 48 | Leeton | Leeton | 438 | Y | Uniform Access Charge | 70 c/kL | Y |
| 22 | Lismore | Lismore, Nimbin & Perradenya | 607 | Y | Uniform Access Charge | | Y |
| 31 | Lithgow | Lithgow, Wallerawang, Portland | 560 | Y | Service Connection Size(50mm:\$740) | 112 c/kL | Y |
| 61 | Liverpool Plains | Quirindi, Werris Creek | 233 | Y | Service Connection Size*(40mm:\$938) | 145 c/kL | Y |
| 102 | Lockhart | Lockhart | 386 | Y | Uniform Access Charge | 172 c/kL | Y |
| | | The Rock | 664 | Y | Uniform Access Charge | 78 c/kL | |
| 5 | MidCoast | | 630 | Y | Meter Size*(eg 40mm: \$2520) | 214 c/kL | Y |
| 32 | Mid Western Regional | Mudgee, Gulgong & Rylstone | 400 | Y | Uniform Access Charge | | N |
| 38 | Moree Plains Shire | Moree, Mungindi, Balone, Bogabilla and Gurly | 610 | Y | Service Connection Size (40mm:\$1460) | 110 c/kL | Y |
| 65 | Murray | Moama, Mathoura | 266 | Y | Service Connection Size*(40mm:\$1064.70) | 50.5 c/kL | Y |
| 101 | Murrumbidgee | Darlington Point | 300 | N | Land Value | | N |
| | | Coleambally | 250 | N | Land Value | | |
| 41 | Muswellbrook | Muswellbrook, Denman | 215 | Y | Service Connection Size*(40mm:\$860) | 168 c/kL | Y |
| 34 | Nambucca | Nambucca | 186 | Y | Service Connection Size (40mm:\$574) | 220 c/kL | Y |

Table 7B: Sewerage – 2010-11 non-residential tariffs (continued)

| WATER UTILITY | Town | Access Charge (or Minimum) | Access Charge Independent of Land Value? | Basis for Access Charge *Proportional to square of size of service connection or water meter | Sewer Usage Charge (for estimated volume discharged to sewerage system = water usage x sewer discharge factor) | Substantial Compliance with 2(c) of BPMG Yes/No |
|---------------|-----------------|--|--|--|---|---|
| | | (\$) (1) | (2) | (3) | (4) | (5) |
| 46 | Narrabri | Narrabri 492 Wee Waa 502 Bogabri 382 | Y Y Y | Uniform Access Charge Uniform Access Charge Uniform Access Charge | \$75/Pedestal, \$75/Cistern \$76/Pedestal, \$76/Cistern \$58/Pedestal, \$58/Cistern | N |
| 63 | Narrandera | Narrandera 332 | Y | Service Connection Size* (40mm:\$1328) | 117 c/kL | Y |
| 62 | Narrromine | Narrromine, Trangie 168 | Y | Service Connection Size*(40mm:\$672) | 170 c/kL | Y |
| 83 | Oberon | Oberon 100 | Y | Service Connection Size*(38mm:\$361) | 122 c/kL | Y |
| 19 | Orange | Orange 105 | Y | Service connection Size 40mm: \$420.80 | 142 c/kL | Y |
| 71 | Palerang | Bungendore 920 Braidwood 1370 Captains Flat 1061 | Y Y Y | Service connection Size 40mm:\$3681 Service connection Size 40mm:\$5479 Service connection Size 40mm:\$4244 | 278 c/kL 159 c/kL 284 c/kL | Y |
| 36 | Parkes | Parkes 194 | Y | Meter Size* (40mm:\$776) | 104 c/kL | Y |
| 17 | Queanbeyan | Queanbeyan 278 | Y | Service Connection Size (40mm: \$1210) | 67 c/kL | Y |
| 33 | Richmond Valley | All 114 | Y | Service Connection Size*(40mm:\$456), C=Water Cons in kL, SDF=0.95 | 168 c/kL | Y |
| 3 | Shoalhaven | Shoalhaven 615 | Y | Meter Size (40mm: \$1741.95) | 95 c/kL | Y |
| 35 | Singleton | Singleton 190 | Y | Service connection Size* 40mm:4x\$190 | 135 c/kL | Y |
| 52 | Snowy River | Snowy River 450 | Y | Meter Size (40mm: \$1800) | 202 c/kL | Y |
| 13 | Tamworth | Tamworth 510 | Y | Meter Size (40mm: \$1523.80) | 83 c/kL | Y |
| 69 | Temora | Temora 202 | Y | Meter Size* (40mm: \$810.30) | 25 c/kL | Y |
| 68 | Tenterfield | Tenterfield, Urbenville 374 | Y | Service Connection Size*(40mm:\$1496) | 90 c/kL | Y |
| 93 | Tumbarumba | Tumbarumba 256 Khancoban 256 | Y Y | Meter Size (40mm:\$990) Meter Size (40mm:\$1025) | 91 c/kL 91 c/kL | Y |
| 43 | Tumut | Tumut 539 | Y | Meter Size* (40mm:\$2157) | 166 c/kL | Y |
| 6 | Tweed | Tweed 568 | Y | Uniform Access Charge | 105 c/kL for >200 kL/y | Y |
| 45 | Upper Hunter | Murrurundi, Merriwa, Aberdeen/Scone 474 | Y | Meter Size (40mm \$953) | 73 c/kL | Y |
| 73 | Upper Lachlan | Crookwell 618 Gunning 618 Taralga 402 | Y Y Y | Uniform Access Charge Uniform Access Charge Uniform Access Charge | 195 c/kL 195 c/kL 195 c/kL | Y |
| 85 | Uralla | Uralla 314 | Y | Uniform Access Charge | 100 c/kL | Y |
| 107 | Urana | Urana 227 | Y | Uniform Access Charge | | |
| 9 | Wagga Wagga | Wagga Wagga 812 | Y | Access charge includes first 4 pan equivalent fixtures. Additional \$95/equivalent fixture | 150 c/kL | N |
| 88 | Wakool | Wakool, Barham, Moulamein, Murray Downs 509 Tooleybuc 472 | Y Y | Hotels: SC+20%SC/Cistern+10%SC/Room, Clubs: SC+20%SC/Cistern, Shops/Motels/Units: SC+10%SC Hotels: SC+20%SC/Cistern+10%SC/Room, Clubs: SC+20%SC/Cistern, Shops/Motels/Units: SC+10%SC | | N |
| 98 | Walcha | Walcha 401 | Y | Service Connection Size*(40mm:4x20mm Access Charge)) | 94 c/kL | Y |
| 79 | Walgett | Walgett 372 Lightening Ridge 353 Collarenebri 403 | Y Y Y | Uniform Access Charge Uniform Access Charge Uniform Access Charge | Additional SC/Pedestal, \$58.33/Cistern Additional SC/Pedestal, \$54.96/Cistern Additional SC/Pedestal, \$63.23/Cistern | Y |
| 96 | Warren | Warren 470 Nevertire 495 | Y Y | Uniform Access Charge Uniform Access Charge | for multiple users:\$235/WC/Urinal | \$235/WC N |
| 55 | Warrumbungle | Coolah 346 Dunedoo 278 Coonabarabran 175 Baradine 265 | Y N Y Y | Meter Size* (40mm \$1264.32) Meter Size* (40mm \$1111.24) Meter Size* (40mm \$700) Meter Size* (40mm \$1060.84) | 18 c/kL 26 c/kL 119 c/kL 52 c/kL | Y |
| 95 | Weddin | Grenfell 247 | Y | Uniform Access Charge | | N |
| 57 | Wellington | Wellington, Mumbli, Guerie 286 | Y | Meter Size* (40mm \$1145.04) | 74 c/kL | Y |
| 74 | Wentworth | Wentworth, Nimatjira 620 | Y | Uniform Access Charge | | N |
| 16 | Wingecarribee | Wingecarribee 477 | Y | Meter Size* (40mm: \$1908) | 97 c/kL | Y |
| 2 | Wyong | Wyong 158 | Y | Meter Size* (40mm: \$630.30) | 78 c/kL | Y |
| 56 | Yass Valley | Yass 530 | Y | Uniform Access Charge | 160 c/kL | Y |
| 49 | Young | Young 550 | Y | Uniform Access Charge | after 2 WCs, \$275/WC | N |

Table 7C: Sewerage – Liquid trade waste fees and charges (2010-11)

| WATER UTILITY | Does LWU have complying Liquid Trade Waste Policy ^{1,2} ? (1) <i>2009-10</i> | Complying Trade Waste Fees & Charges (Yes/No) (2) | All liquid trade waste approvals (Yes/No) (3) | ANNUAL TRADE WASTE FEE (\$) | | | Reinspection Fee \$/inspection Cat/1/2/3 (8) | Category 2 Trade Waste Usage Charge (c/kL) (9) | Category 2 Non Compliance Trade Waste Usage Charge (\$/kL) (9A) | Excess Mass Charge (c/kg) | | | Non Compliance Excess Mass Charge for BOD (Yes/No) (13) |
|---------------------------|---|--|--|-----------------------------|-----------------------|-----------------------|---|---|--|---------------------------|------------------------------|--------------------------|--|
| | | | | Category 1 (4) | Category 2 (6) | Category 3 (7) | | | | BOD (10) | Suspended Solids (11) | Oil & Grease (12) | |
| 11 Albury City | Yes | Yes | Yes | 66 | | | | 140 | 6.5 | 28 | 18 | 45 | |
| 29 Armidale Dumaresq | Yes* | Yes | Yes | 214 | 245 | 600 | | 28 | | 54 | 68 | 95 | |
| 24 Ballina | Yes | Yes | Yes | 70 | 135 | 450 | 100 | 120 | 11.5 | 57 | 75 | 250 | Yes |
| 100 Balranald | | No | | 110 | 110 | 495 | 75 | 125 | 12.5 | 62 | 79 | 111 | |
| 21 Bathurst Regional | Yes | Yes | | 80 | 80 | 537 | 75 | 170 | 14 | 69 | 88 | 123 | |
| 23 Bega Valley | Yes | Yes | | 100 | | | 50 | 100 | 9 | | | | Yes |
| 47 Bellingen | Yes | Yes | | 80 | | | 115 | 120 | | | | | |
| 53 Berrigan | | No | | | | | | | | | | | |
| 72 Bland | | No | | | | | | 10 | | | | | |
| 78 Blayney | Yes | Yes | Yes | 74 | 74 | 283 | 69 | 115 | 14 | 44 | 43 | 87 | Yes |
| 89 Bogan | Yes | No | | | | | | | | | | | |
| 97 Bombala | | No | | 84 | 84 | 551 | | 18 | | | | | |
| 104 Boorowa | Yes | Yes | | 134 | 134 | 134 | 62 | | | | | | |
| 87 Bourke | Yes | No | | | | | | | | | | | |
| 105 Brewarrina | | No | | | | | | | | | | | |
| 27 Byron | Yes | Yes | Yes | 254 | | | | 180 | 12.5 | 105 | 130 | 150 | |
| 91 Cabonne | Yes | Yes | | 80 | 159 | 536.5 | 74.8 | 140 | 13.7 | 60 | 80 | 110 | Yes |
| 92 Carrathool | | No | | | | | | | | | | | |
| 103 Central Darling | | Yes | | | | | | | | | | | |
| 14 Clarence Valley | Yes | Yes | | 103 | | 694 | 120 | 199 | 17.25 | | | | |
| 67 Cobar | Yes | Yes | Yes | 250 | 500 | EMC + 100 | | | | 10 | 25 | 25 | |
| 66 Cobar WB | | | | | | | | | | 18 | 18 | 32 | |
| 10 Coffs Harbour | Yes | Yes | | 170 | | | 110 | 120 | 11 | 54 | 69 | 97 | Yes |
| 99 Coolamon | | No | | | | | | | | | | | |
| 50 Cooma-Monaro | | No | | | | | | | | | | | |
| 75 Coonamble | | No | | | | | | | | | | | |
| 58 Cootlamundra | | Yes | | | | | | | | | | | |
| 42 Corowa | Yes | Yes | | 74 | 148 | 496 | 69 | 138 | 12.68 | 62 | 80 | 112 | Yes |
| 26 Country Energy | Yes | Yes | | 85 | 567.03 | | 79.12 | 158 | 14.51 | 71 | 91 | 127 | Yes |
| 39 Cowra | Yes | Yes | | 78 | 155 | 525 | 71 | 143 | 13.08 | 64 | 82 | 115 | Yes |
| 54 Deniliquin | Yes | Yes | | 64 | 128 | 300 | 60 | 15 | 1.37 | 54 | 69 | 97 | |
| 18 Dubbo | Yes | Yes | Yes | 150 | 717 | 717 | 142 | 154 | 13.7 | 135 | 112 | 246 | |
| 15 Eurobodalla | Yes | Yes | Yes | 76 | 446 | 446 | 79 | 210 | 15 | 60 | 80 | 110 | |
| 51 Forbes | Yes | Yes | | 114 | 114.3 | | 114.3 | 57 | | | | | |
| 84 Gilgandra | Yes* | Yes | Yes | 90 | | | 90 | 158 | | 60 | 100 | | |
| 60 Glen Innes Severn | Yes | Yes | | 162 | 162 | 564 | 79 | | 13.2 | | | | |
| 1 Gosford | Yes | Yes | Yes | 156 | 269 | 339 | 144 | 149 | 12.7 | 149 | 149 | 770 | |
| 20 Goulburn Mulwaree | Yes | Yes | Yes | 82 | 300 | 300 | 66 | 212 | 19.15 | 67 | 86 | 120 | |
| 80 Greater Hume | | No | | | | | | | | | | | |
| 30 Griffith | Yes | Yes | Yes | 72 | 177 | 486 | 65 | 110 | 6.5 | 127 | 123 | | Yes |
| 94 Gundagai | | Yes | | 99 | | | | 184 | | | | | |
| 44 Gunnedah | Yes | Yes | | 132 | 132 | 265 | 60 | 125 | 11 | 56 | 71 | 100 | |
| 90 Guyra | Yes* | Yes | Yes | 98 | | | | | | 52 | 65 | 72 | |
| 81 Gwydir | Yes | Yes | | 64 | 64 | 430 | 60 | 120 | 11 | | | | |
| 76 Harden | | No | | 158 | | | 158 | | | | | | |
| 7 Port Macquarie-Hastings | Yes* | Yes | Yes | 170 | 170 | 525 | 90 | 140 | 13 | 65 | 80 | 115 | |
| 30A Hawkesbury | Yes | No | | | | | | 103 | | 220 | 191 | 269 | Yes |
| 86 Hay | Yes | No | Yes | | | | | | | | | | |
| 37 Inverell | Yes | No | | | | | | | | | | | |
| 106 Jerilderie | | No | | | | | | | | | | | |
| 77 Junee | | | | | | | | | | | | | |
| 25 Kempsey | Yes | Yes | Yes | 90 | 90 | 90 | 103 | 155 | 13.78 | 100 | 200 | 200 | |

Table 7C: Sewerage – Liquid trade waste fees and charges (2010-11) (continued)

| WATER UTILITY | Does LWU have complying Liquid Trade Waste Policy ^{1,2} ? (1) 2009-10 | Complying Trade Waste Fees & Charges (Yes/No) (2) | All liquid trade waste approvals (Yes/No) (3) | ANNUAL TRADE WASTE FEE (\$) | | | Reinspection Fee \$/inspection Cal/1/2/3 (8) | Category 2 Trade Waste Usage Charge (c/kL) (9) | Category 2 Non Compliance Trade Waste Usage Charge (\$/kL) (9A) | Excess Mass Charge (c/kg) | | | Non Compliance Excess Mass Charge for BOD (Yes/No) (13) |
|-------------------------|--|--|--|-----------------------------|-----------------------|-----------------------|---|---|--|---------------------------|------------------------------|--------------------------|--|
| | | | | Category 1 (4) | Category 2 (6) | Category 3 (7) | | | | BOD (10) | Suspended Solids (11) | Oil & Grease (12) | |
| 70 Kyogle | Yes | Yes | Yes | 72 | 72 | 477 | 68 | 100 | 11 | 54 | 69 | 97 | Yes |
| 59 Lachlan | Yes | Yes | Yes | 75 | 75 | 515 | 72.5 | 120 | 12.8 | | | | |
| 48 Leeton | Yes | Yes | | 138 | 138 | 531.5 | 77 | 156 | 14.23 | 57 | 91 | 126 | Yes |
| 22 Lismore | Draft - Yes* | Yes | Yes | 85 | 84.5 | | 93 | | | 64 | 80 | 110 | |
| 31 Lithgow | Yes | Yes | Yes | 141 | 210 | 384 | 74 | 147 | 13.5 | | | | Yes |
| 61 Liverpool Plains | Yes | Yes | | 77 | 77 | 513 | 73 | 300 | 14 | 150 | 150 | 250 | |
| 102 Lockhart | | Yes | | 69 | 162 | 462 | 65 | 75 | 6.2 | 110 | 112 | | |
| 5 MidCoast | Yes | Yes | Yes | 110 | 132 | 474 | 88 | 220 | 10.1 | 49 | 49 | 68 | Yes |
| 32 Mid Western Regional | | No | Yes | | | | | | | | | | |
| 38 Moree Plains | Yes | Yes | | 70 | 148 | 496 | 69 | 138 | 12.68 | | | | |
| 65 Murray | Yes | Yes | | 100 | 200 | 300 | 100 | 125 | 11 | 58 | 74 | 102 | |
| 101 Murrumbidgee | Yes | Yes | | | | | | | | | | | |
| 41 Muswellbrook | Yes | Yes | Yes | 78 | 78 | Variable | 93 | 90 | 14.35 | 59 | 76 | 104 | Yes |
| 34 Nambucca | Yes | Yes | Yes | 79 | 133 | 133 | 116 | 152 | 14 | 100 | 100 | | |
| 46 Narrabri | Yes* | Yes | Yes | 540 | 780 | 800 | 120 | 200 | | 200 | | | |
| 63 Narrandera | | No | | | | | | | | | | | |
| 62 Narramine | Yes | Yes | | 75 | 75 | 495 | 71 | 170 | | | | | |
| 83 Oberon | Yes | Yes | | | | | | 135 | | | | | |
| 19 Orange | Yes | Yes | Yes | 68 | 68.25 | 458.4 | 63.95 | 142 | 11.73 | 44 | 48 | 85 | Yes |
| 71 Palerang | | No | | | | | | | | | | | |
| 36 Parkes | Yes | Yes | Yes | 167 | 167 | 620 | 85 | 150 | 14 | | | | |
| 17 Queanbeyan | Yes | Yes | Yes | 80 | 80 | 520 | 78 | 147 | 12.55 | 202 | 190 | 122 | |
| 33 Richmond Valley | Yes | Yes | | 74 | 148 | 496 | 140 | 138 | 12.68 | 62 | 80 | 112 | |
| 3 Shoalhaven | Yes | Yes | Yes | 106 | 132 | 510 | 66 | 147 | 13.77 | 66 | 83 | 119 | |
| 35 Singleton | Yes | Yes | Yes | 78 | 78 | 78 | 93 | 90 | 14.35 | 59 | 76 | 104 | |
| 52 Snowy River | Yes | Yes | | 85 | 85 | 85 | 110 | 152 | 13.93 | 300 | 193 | 160 | |
| 13 Tamworth Regional | Yes | Yes | Yes | 128 | 128 | 567 | 83 | 124 | 14.15 | 71 | 91 | 128 | Yes |
| 69 Temora | | No | | | | | | | | | | | |
| 68 Tenterfield | Yes | Yes | Yes | 110 | 110 | 495 | 75 | 125 | 12.5 | 62 | 79 | 111 | |
| 93 Tumbarumba | Yes | Yes | Yes | 67 | | | 63 | 130 | 11.5 | 72 | 102 | 170 | Yes |
| 43 Tumut | Yes | Yes | Yes | 120 | 250 | 526 | 117 | | 4.1 | 135 | 125 | 225 | |
| 6 Tweed | Yes | Yes | Yes | 83 | 165.3 | 620 | 77 | 151 | 9.7 | 70 | 90 | 120 | Yes |
| 45 Upper Hunter | Yes | Yes | | 313 | | | 94 | | 13 | 65 | 84 | 114 | |
| 73 Upper Lachlan | Yes | Yes | | 75 | 75 | 575 | 73 | 120 | 12.8 | | | | |
| 85 Uralla | | Yes | Yes | 68 | | | 120 | | | | | | |
| 107 Urana | | No | | | | | | | | | | | |
| 9 Wagga Wagga | Yes | Yes | Yes | 81 | | 546 | 76 | 152 | 13.97 | 68 | 88 | 123 | |
| 88 Wakool | | No | | | | | | | | | | | |
| 98 Walcha | Draft | Yes | | 76 | 152 | | 77 | 143 | 13.18 | | | | |
| 79 Walgett | Yes | Yes | | | | | | | | | | | |
| 96 Warren | Yes | No | | | | | | | | | | | |
| 55 Warrumbungle | | No | | 70 | 70 | | 70 | 119 | 11 | | | | |
| 95 Weddin | Yes | No | | | | | | | | | | | |
| 57 Wellington | Yes | Yes | Yes | 70 | | | 62 | 134 | 12.51 | | | | |
| 74 Wentworth | | No | | | | | | | | | | | |
| 16 Wingecarribee | Yes | Yes | Yes | 76 | 146 | 494 | 70 | 200 | 13 | 64 | 82 | 115 | |
| 2 Wyong | Yes | Yes | Yes | 80 | 318 | 534 | 75 | 54 | 13.66 | 66 | 85 | 119 | Yes |
| 56 Yass Valley | Yes | Yes | Yes | 82 | 154 | 461 | 75 | 125 | | | | | |
| 49 Young | Yes* | Yes | | 88 | 88 | | 88 | | | | | | |

Notes:

1. Yes* in column 1 indicates that the LWU has adopted a trade waste policy before 2006, which needs to be updated.
2. Draft in column 1 indicates that the LWU has prepared a draft trade waste policy which needs to be finalised.
3. 76% of LWUs have a complying trade waste policy and 73% of LWUs have complying trade waste fees and charges.

Table 8: 2009-10 NSW urban water supplied (continued)

| WATER UTILITY | POTABLE URBAN WATER SUPPLIED (ML) (Excludes bulk water) | | | | | | | | | | NON-POTABLE URBAN WATER SUPPLIED (ML) (Excludes bulk water) | | | TOTAL URBAN WATER SUPPLIED (Potable + Non-potable including Recycled Urban) | BULK WATER EXPORTS (Potable + Non-potable) | RECYCLED URBAN + NON-URBAN | | WATER SOURCES FOR URBAN WATER USE (ML) | | | | | | | | | | |
|--|---|-----------------------|---------------------|------------------------|-------------------------------|----------------------------------|--|--|--|---------------------------------------|---|---------------|------------------------------------|---|--|----------------------------|-------------------------------|--|----------------------|---------------|--------------|----------------|---------------|--|--------|--------|--------|---------|
| | REVENUE WATER (Potable) | | | | | | NON REVENUE WATER (Potable) See Table 8A | | | | Total Potable Urban Water | | Recycled Urban Water ¹¹ | | | Non-potable Urban | TOTAL Non-Potable Urban Water | NON-URBAN | TOTAL | Surface Water | Ground Water | Recycled Water | Bulk Purchase | Total Sourced Water Excluding Non Urban Recycled | | | | |
| | Residential | Industrial Commercial | Institutional Rural | Public Parks & Gardens | Total Revenue Water (Potable) | Real Loss (Leakage) ⁷ | Apparent Loss (Illegal use, meter error) | Unbilled (Fire Fighting, Flushing, Public Amenities) | Total Non Rev Water Sum (8) to (8b) See Table 8A | Revenue + Non Revenue Water (7) + (9) | Urban Res | Urban Non Res | Other than Recycled | Res | Non Res | (11)+(11a)+(12a)+(12b) | See Table 8A ¹¹ | URBAN + NON-URBAN | | | | | | | | | | |
| | (1) [W8] | (2) [W9] | (3) [W9] | (4) [W9] | (5) [W9] | (6) [W9] | (7) | (8) [W10] | 8a [W10] | (8b) [W10] | (9) [W10] | (10) [W11] | [W8] W20 | W21, W25 | (12a) [W8] | (12b) [W9] | (12c) | (11b) | (11) + (11a) + (11b) | (15) W1 | (16) W2 | (16b) W4 | (17) W5 | (17b) W7 | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | 264 | 27 | 9 | 8 | 24 | 72 | 404 | 172 | 50 | 222 | 626 | | 43 | | 43 | 669 | | | 12 | 55 | 363 | 418 | 43 | 824 | | | |
| 82 | Gloucester | 241 | 46 | 26 | 30 | 5 | 13 | 361 | 53 | 1 | 54 | 415 | | | | | 415 | | | | | 441 | | | 441 | | | |
| 83 | Oberon (Reticulator) | 149 | 27 | 318 | | | | 494 | 45 | 29 | 74 | 568 | | | | | 568 | | 1 | | 240 | | | | 240 | | | |
| 84 | Gilgandra (Groundwater) | 520 | 120 | 30 | 10 | 15 | 15 | 710 | 80 | 16 | 5 | 811 | | | | | 811 | | 5 | | 290 | | 721 | | 721 | | | |
| 85 | Uralla | 177 | 29 | 3 | 9 | 5 | 9 | 232 | 31 | 4 | 33 | 300 | | | | | 300 | | 3 | | | 303 | | | 303 | | | |
| 86 | Hay (Dual Supply) | 221 | 128 | | | | | 349 | 23 | 16 | 39 | 388 | | | 954 | 954 | 1,342 | | | | | 1,303 | | | 1,303 | | | |
| 87 | Bourke (Dual Supply) | 574 | 40 | 3 | | | | 617 | 41 | 27 | 69 | 686 | | | 3,211 | 155 | 3,366 | | 1 | | | | | | | | | |
| 88 | Wakool (Dual Supply) | 215 | | | | | | 344 | 23 | 15 | 38 | 382 | | | 720 | | 720 | | | | | | | | | | | |
| 89 | Bogan | 328 | | | | | | 524 | 35 | 23 | 58 | 582 | | | | | 582 | | | | | 1,500 | | | 1,500 | | | |
| 90 | Guyra | 230 | 200 | 2 | | 1 | 5 | 438 | 29 | 7 | 17 | 491 | | | | | 491 | | 1 | | | 400 | | 56 | 456 | | | |
| 91 | Cabonne | 133 | 43 | | | | | 176 | 43 | 4 | 9 | 232 | | 140 | 33 | 7 | 180 | | | 2 | 142 | 244 | 11 | 140 | 395 | | | |
| 92 | Carrathool (Groundwater) | 586 | 42 | | 378 | | 3 | 925 | 62 | 41 | 103 | 1,028 | | | 649 | | 649 | | | | | 1,045 | | 696 | 1,741 | | | |
| 93 | Tumbarumba | 179 | 16 | 27 | | 16 | 4 | 242 | 24 | 1 | 35 | 302 | | | | | 302 | | | | | 341 | 4 | | 345 | | | |
| 94 | Gundagai | 250 | 125 | 60 | 50 | 8 | 5 | 498 | 50 | 60 | 5 | 613 | | 117 | | | 613 | | 3 | | | 600 | 117 | | 717 | | | |
| 96 | Warren (Dual Supply) | 253 | 23 | | 1 | | 6 | 283 | 61 | 35 | 6 | 385 | | | 299 | 35 | 334 | | | 2 | 2 | 334 | 250 | | 584 | | | |
| 97 | Bombala | 143 | 8 | 7 | | 6 | 1 | 165 | 12 | 1 | 23 | 201 | | 35 | | | 236 | | | | | 400 | | 35 | 435 | | | |
| 98 | Walcha | 128 | 39 | 1 | 6 | 11 | 7 | 192 | 13 | 6 | 3 | 213 | | | | | 213 | | 2 | | | 204 | | | 204 | | | |
| 100 | Bairnald (Dual Supply) | 174 | 5 | | | | | 179 | 12 | 8 | 20 | 199 | | | 395 | | 395 | | | | 147 | 147 | 569 | | 569 | | | |
| 101 | Murrumbidgee (Groundwater) | 379 | | | | | | 606 | 40 | 27 | 67 | 672 | | | | | 672 | | | | 15 | 15 | | | | | | |
| 103 | Central Darling (Dual Supply) | 65 | | | | | | 104 | 7 | 5 | 11 | 116 | | | 241 | | 241 | | | | | | | | | | | |
| 104 | Boorowa | 180 | 21 | 30 | | | 18 | 249 | 17 | 11 | 28 | 277 | | 1 | | | 277 | | 5 | | | 220 | | | 220 | | | |
| 105 | Brewarrina | 129 | 74 | | | | | 203 | 14 | 9 | 23 | 226 | | | 503 | | 503 | | | | 212 | 212 | 731 | 100 | 831 | | | |
| 106 | Jerilderie (Dual Supply) | 95 | 33 | 2 | | 1 | | 131 | 9 | 6 | 15 | 146 | | 10 | 274 | | 284 | | | | 10 | | 402 | 10 | | 412 | | |
| Totals (excluding bulk suppliers) for 200 - 1,500 Properties | | | | | | | | | | | | 9,900 | | 1 | 345 | 7,279 | 197 | 7,822 | | 1097 | | 921 | 1,267 | 8,355 | 2,549 | 345 | 752 | 12,001 |
| LWUs without Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Wagga Wagga (NO WS) | | | | | | | | | | | | | 226 | | 226 | 226 | | | 227 | 453 | | 226 | | | 226 | | |
| 30A | Hawkesbury | | | | | | | | | | | | | | 80 | | 80 | 80 | | | 176 | 176 | | 80 | | 80 | | |
| 69 | Temora | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | Bland | | | | | | | | | | | | | | | | | | | | 118 | 118 | | | | | | |
| 77 | Junee | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 78 | Blayney | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95 | Weddin | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 99 | Coolamon | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | Lockhart | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | Urana | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total for the 85 LWUs reporting cols (1) & (2) or cols (1) & (3) | | 145,000 | 34,300 | 17,900 | 8,900 | 6,700 | 6,400 | | 21,700 | | 33,400 | 252,300 | | 11,000 | 7,900 | 4,400 | 23,300 | 275,600 | | 5,500 | | 25,300 | 36,300 | 175,000 | 39,700 | 11,000 | 47,100 | 267,700 |
| % of Total Potable Supply (Col(10)) | | 57% | 14% | 7% | 4% | 3% | 3% | | 9% | | 13% | | | | | | | | | | | | | | | | | |
| TOTAL for all LWUs (excluding double counting for bulk water exports) ³ | | | | | | | | | | | | 263,000 | | 11,800 | 10,100 | 5,900 | 28,000 | 290,000 | | 31,000 | | 27,200 | 38,900 | 201,000 | 44,500 | 11,800 | 48,900 | 275,000 |

Table 8: 2009-10 NSW urban water supplied (continued)

Notes:

1. **Source:** Data provided by the 106 non-metropolitan NSW water utilities for the *2009-10 NSW Water Supply and Sewerage Benchmarking Report*. 97 of these utilities are responsible for water supply. Columns (11) and (11a) report the volume of recycled water use and include a further 9 utilities which are responsible for sewerage only.
2. The volumes of water supplied by Sydney and Hunter Water Corporations and Sydney Catchment Authority were obtained from the *National Performance Report 2009-10* and have not been included in the totals shown above.
3. The total water supplied for all non-metropolitan water utilities shown in the bottom line of the above table excludes double counting where water is supplied by a bulk supplier. Similarly, the total water sourced shown in the bottom line of the table excludes double counting between bulk suppliers and reticulators.
4. **Incomplete Data:** Where a water utility has not reported its residential use (col 1), the residential use has been calculated based on the average percentage of 57% of the Total Potable Urban Water Supplied shown in Note 8. Where a water utility has not reported its total potable Urban Water Supplied (col (10), the previous years' reported value has been used and is shown in *italics bold* (see also Note 6).
5. Where an LWU has only reported data for 'residential' use but not for 'commercial' or for 'industrial' use, the reported 'residential' value has been reduced and a 'commercial/industrial' component has been included. In this case, the 'residential' component has been calculated based on the average percentage of 57% of the Total Urban Water Supplied shown in Note 8.
6. **Non Revenue Water:** Non Revenue Water includes Unbilled Water (Unbilled Authorised Supply), Real Losses (mostly Leakage) and Apparent Losses (under registration of customer meters and illegal use). Leakage studies for over 40 NSW LWUs together with Statewide analysis of Non Revenue Water for NSW water utilities, indicate Leakage is a minimum of 6% of potable Urban Water Supplied (range 6% to 35%) while Non Revenue Water is a minimum of 10% (comprising Leakage [minimum 6%] and Apparent Loss plus Unbilled Water [minimum 4%]). Recent analysis of reported data for utilities with over 10,000 connected properties tends to corroborate these minimum values. Therefore, for those utilities reporting Non Revenue Water of less than 10% (col (9)), the Non-revenue Water has been increased to 10% of the Urban Water Supplied (col 10) (shown in *italics bold*), unless the LWU has provided evidence of a lower value of Leakage under Note 7. In such a case, the adopted value for Non Revenue Water is the reported Leakage plus 4%.
7. **Real Losses (mostly Leakage):** Leakage is a component of Non Revenue Water. As described in Note 6 above, a minimum of 6% of the Total Urban Water Supplied (potable) has been adopted for Leakage, unless evidence of a lower value has been provided by the LWU. Therefore, unless corroborated by evidence, (eg. a reservoir drop test, detailed waste metering or night flow analysis of district meter areas (see Table 10)), reported Leakage of less than 6% (column (8)) has been increased to 6% (shown in *italics bold*).
8. **Potable Water Supplied:** The above analysis shows that the total 2009-10 urban water supplied for non-metropolitan NSW was 283,000 ML (column (13)), of which 258,000 ML (column (10)) was potable water. The average uses as a percentage of the total potable water supply were:
 - ◆ Residential - 57% (column (1))
 - ◆ Commercial - 14% (column (2))
 - ◆ Industrial - 7% (column (3))
 - ◆ Non Revenue Water - 13% (column (9c))
9. **Non-Potable Water Supplied:** The total non-potable urban water supplied was 28,000 ML (column (12c)) which included 11,600 ML recycled urban water supply (column (11)+(11a)). The non-potable supply was mainly for outdoor uses in dual water supplies, but also includes supplies to industry and other outdoor uses.
10. **The total urban water supplied** (column (13)) comprises the sum of the potable water supplied (column (10)) and non-potable water supplied (column (12c)) which includes recycled urban water (columns (11) & (11a)).
11. **Recycled water** used for non-potable urban water supply is shown in columns (11) & (11a). Recycled water used for non-potable non-urban water supply (agriculture, environmental and on-site use) is shown in column (11b). The total volume of recycled water for NSW non-metropolitan water utilities is shown in column (11c). For the utilities that did not report this year but reported >25% recycled water in the previous year, the percentage recycled is assumed to be the same as that of previous year. This results in a volume of recycled water of 39,000 ML (see also Table 15) which is about 24% of the total volume of sewage collected. Refer also to Figure 55 on page 92.
12. All LWUs recorded nil for Volume Sourced from Desalination (W3), Bulk Recycled Water Purchased (W6), Water Supplied for Environmental Flows (W13) and Bulk Recycled Water Exports (W15).

Table 8A: 2009-10 potable water losses and non-revenue water

| WATER UTILITY | NON-REVENUE WATER ² - Potable (ML) | | | | | | | | | | | | REVENUE WATER ¹ Potable (ML) Excl Bulk Sales Metered and Unmetered (See Table 8) (17) | TOTAL URBAN WATER SUPPLIED Potable (ML) Non Revenue Water + Revenue Water | | BULK WATER EXPORTS (ML) Potable and Nonpotable (See Table 8) (20) W14 | NON URBAN RECYCLED WATER | | |
|--|---|---------|-----------------------------|---------------|------------------------------|---------------|-----------------------------|--------------------------|----------|---------|------------------------------|---|---|--|--------------------------------------|---|--------------------------------|---------|------------------------------|
| | REAL LOSS ⁴ (Leakage) | | | APPARENT LOSS | | | UNBILLED WATER ² | APPARENT LOSS + UNBILLED | | | | TOTAL NON-REVENUE WATER Potable (Real Loss + Apparent Loss + Unbilled) | | Agriculture + Other (ML) (21) W22 + W25 | Environmental (ML) (22) W23 | | On-site (ML) (23) W24 | | |
| | Reported | Adopted | % of Total Potable (2)/(19) | Illegal Use | Under-registration of meters | Total (4)+(5) | | Reported | Reported | Adopted | % of Total Potable (10)/(19) | Reported | | | | | | Adopted | % of Total Potable (15)/(19) |
| | (1) | (2) | (3) | | | | (4) | | | | | | | (5) | (6) | | (9) | | |
| Sydney Water Corporation Hunter Water Corporation | | | | | | | | | | | | | | | | 0 161 | 3,034 2,623 | 0 0 | 15,549 180 |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 1,124 | 1,124 | 8% | - | 269 | 269 | 208 | 477 | 4% | 477 | 4% | 1,601 | 1,601 | 12% | 11,993 | 13,594 | 13,594 | | 348 |
| 2 Wyong Shire Council | 644 | 644 | 5% | 344 | - | 344 | - | 344 | 3% | 344 | 3% | 988 | 988 | 8% | 11,972 | 12,960 | 12,960 | 4,491 | 84 |
| 3 Shoalhaven City Council | 1,156 | 1,156 | 9% | 13 | 230 | 243 | 57 | 300 | 2% | 300 | 2% | 1,456 | 1,456 | 11% | 11,446 | 12,902 | 12,902 | | 2,261 |
| 4 Rous County Council | 160 | 160 | | | | | | | | | | 160 | 160 | | 1,407 | 1,567 | 1,567 | 10,789 | 24 |
| 5 MidCoast County Council | 1,021 | 1,021 | 11% | 192 | 183 | 375 | 183 | 558 | 6% | 558 | 6% | 1,579 | 1,579 | 17% | 7,584 | 9,163 | 9,163 | | 703 |
| 6 Tweed Shire Council | 773 | 773 | 8% | 515 | 163 | 678 | 49 | 727 | 8% | 727 | 8% | 1,500 | 1,500 | 16% | 8,174 | 9,674 | 9,674 | 1 | 6 |
| 7 Port Macquarie-Hastings (Unfiltered) | 261 | 383 | 6% | 6 | 116 | 122 | 29 | 151 | 2% | 256 | 4% | 412 | 639 | 10% | 5,752 | 6,164 | 6,391 | | 207 |
| 8 Riverina Water County Council | 553 | 553 | 3% | 15 | 283 | 298 | 851 | 1,149 | 7% | 1,149 | 7% | 1,702 | 1,702 | 11% | 14,151 | 15,853 | 15,853 | | 53 |
| 10 Coffs Harbour City Council | 298 | 376 | 6% | - | - | - | 90 | 90 | 1% | 251 | 4% | 388 | 627 | 10% | 5,646 | 6,034 | 6,273 | | 167 |
| 11 Albury City Council | | 407 | 6% | 7 | 90 | 97 | 34 | 131 | 2% | 272 | 4% | 131 | 679 | 10% | 6,111 | 6,242 | 6,790 | 328 | 4,358 |
| 12 Fish River Water Supply | 968 | 968 | | - | - | - | - | - | - | - | - | 968 | 968 | | 491 | 1,459 | 1,459 | 3,999 | |
| 13 Tamworth Regional Council | 1,016 | 1,016 | 11% | 6 | 100 | 106 | 48 | 154 | 2% | 154 | 2% | 1,170 | 1,170 | 13% | 8,184 | 9,354 | 9,354 | | 1,727 |
| 14 Clarence Valley Council | 907 | 907 | 14% | 8 | 300 | 308 | 40 | 348 | 5% | 348 | 5% | 1,255 | 1,255 | 19% | 5,248 | 6,503 | 6,503 | | 123 |
| 15 Eurobodalla Shire Council | 1,081 | 1,081 | 27% | 4 | 58 | 62 | 20 | 82 | 2% | 82 | 2% | 1,163 | 1,163 | 29% | 5,248 | 4,034 | 4,034 | | 71 |
| 16 Wingecarribee Shire Council | 540 | 540 | 11% | 5 | 83 | 88 | | 88 | 2% | 88 | 2% | 628 | 628 | 13% | 4,161 | 4,789 | 4,789 | | |
| 17 Queanbeyan City Council | 433 | 433 | 10% | 100 | | 100 | 18 | 118 | 3% | 118 | 3% | 551 | 551 | 13% | 3,728 | 4,279 | 4,279 | | 47 |
| 18 Dubbo City Council | 885 | 885 | 12% | 8 | 138 | 146 | 41 | 187 | 2% | 187 | 2% | 1,072 | 1,072 | 14% | 6,620 | 7,692 | 7,692 | | 2,183 |
| 19 Orange City Council | 466 | 466 | 12% | | 466 | 466 | | 466 | 12% | 466 | 12% | 932 | 932 | 24% | 2,964 | 3,896 | 3,896 | | 98 |
| 20 Goulburn Mulwaree Council | | 733 | 6% | - | - | - | - | 89 | 4% | 89 | 4% | 227 | 10% | 1,992 | 1,992 | 2,213 | 3 | 1,261 | |
| 21 Bathurst Regional Council | 362 | 362 | 6% | - | - | - | 27 | 27 | 0% | 240 | 4% | 389 | 602 | 10% | 5,397 | 5,786 | 5,999 | 6 | 2,945 |
| 22 Lismore City Council | 616 | 616 | 16% | 4 | 76 | 80 | 17 | 97 | 3% | 97 | 3% | 713 | 713 | 19% | 3,078 | 3,791 | 3,791 | 4 | 691 |
| 23 Bega Valley Shire Council | 243 | 243 | 7% | 26 | 190 | 216 | 13 | 229 | 6% | 229 | 6% | 472 | 472 | 13% | 3,128 | 3,600 | 3,600 | | 30 |
| 24 Ballina Shire Council | 789 | 789 | 19% | 4 | 63 | 67 | 20 | 87 | 2% | 87 | 2% | 876 | 876 | 22% | 3,174 | 4,050 | 4,050 | | 214 |
| 25 Kempsey Shire Council | 261 | 261 | 7% | 90 | 149 | 239 | 149 | 388 | 10% | 388 | 10% | 649 | 649 | 17% | 3,085 | 3,734 | 3,734 | 27 | 51 |
| 26 Country Energy | 142 | 285 | 6% | 4 | 88 | 92 | | 92 | 2% | 190 | 4% | 234 | 475 | 10% | 4,272 | 4,506 | 4,747 | | 9 |
| 27 Byron Shire Council | 353 | 353 | 12% | 3 | 5 | 8 | 15 | 23 | 1% | 23 | 1% | 376 | 376 | 13% | 2,578 | 2,954 | 2,954 | 5 | 6 |
| 28A Goldenfields Water Reticulator | 352 | 352 | 7% | 7 | 100 | 107 | 45 | 152 | 3% | 152 | 3% | 504 | 504 | 10% | 4,534 | 5,038 | 5,038 | | 231 |
| 28B Goldenfields Water County Council | 647 | | | | | | | | | | | | | | | | | 8,716 | 28 |
| <i>Medians (% of LWUs basis) for LWUs with >10,000 Properties</i> | | | 8% | | | | | | 4% | | | | | 13% | | | | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | |
| 29 Armidale Dumaresq Council | 111 | 156 | 6% | | 47 | 47 | | 47 | 2% | 104 | 4% | 158 | 259 | 10% | 2,335 | 2,493 | 2,594 | | 853 |
| 30 Griffith City Council | 405 | 405 | 6% | 19 | 135 | 154 | 33 | 187 | 3% | 280 | 4% | 592 | 685 | 10% | 6,303 | 6,895 | 6,988 | | 188 |
| 31 Lithgow City Council | - | 90 | 6% | - | - | - | - | 60 | 4% | 60 | 4% | 150 | 10% | 1,346 | 1,346 | 1,496 | | - | |
| 32 Mid-Western Regional Council | 172 | 172 | 7% | 3 | 240 | 243 | 13 | 256 | 10% | 256 | 10% | 428 | 428 | 17% | 2,108 | 2,536 | 2,536 | | 166 |
| 33 Richmond Valley Council | 335 | 335 | 11% | 3 | 55 | 58 | 14 | 72 | 2% | 72 | 2% | 407 | 407 | 13% | 2,773 | 3,180 | 3,180 | | 344 |
| 34 Nambucca Shire Council | 97 | 97 | 6% | 2 | 12 | 14 | 8 | 22 | 1% | 61 | 4% | 119 | 158 | 10% | 1,376 | 1,495 | 1,534 | | 129 |
| 35 Singleton Shire Council | 77 | 159 | 6% | 39 | 51 | 90 | | 90 | 3% | 106 | 4% | 167 | 265 | 10% | 2,389 | 2,556 | 2,654 | | 2 |
| 36 Parkes Shire Council | 465 | 465 | 7% | | 92 | 92 | 148 | 240 | 4% | 240 | 4% | 705 | 705 | 11% | 5,901 | 6,606 | 6,606 | | 393 |
| 37 Inverell Shire Council | 100 | 140 | 6% | | 100 | 100 | - | 100 | 4% | 100 | 4% | 200 | 240 | 10% | 2,100 | 2,300 | 2,340 | | 80 |
| 38 Moree Plains Shire Council | 409 | 409 | 13% | - | 70 | 70 | - | 70 | 2% | 70 | 2% | 479 | 479 | 15% | 2,704 | 3,183 | 3,183 | 1 | 475 |
| 39 Cowra Shire Council | 353 | 353 | 13% | | | | 353 | 353 | 13% | 353 | 13% | 706 | 706 | 25% | 2,084 | 2,790 | 2,790 | 6 | 698 |
| 40 Central Tablelands Water | 112 | 112 | 6% | - | - | - | 50 | 50 | 3% | 75 | 4% | 162 | 187 | 10% | 1,692 | 1,854 | 1,879 | 156 | |
| 41 Muswellbrook Shire Council | 140 | 140 | 6% | 2 | 29 | 31 | 12 | 43 | 2% | 95 | 4% | 183 | 235 | 10% | 2,150 | 2,333 | 2,385 | | |
| 42 Corowa Shire Council | 120 | 120 | 5% | 40 | 40 | 80 | | 80 | 4% | 87 | 4% | 200 | 207 | 9% | 1,976 | 2,176 | 2,183 | | 334 |

Table 8A: 2009-10 potable water losses and non-revenue water (continued)

| WATER UTILITY | NON-REVENUE WATER ² - Potable (ML) | | | | | | | | | | | | | | REVENUE WATER ¹ Potable (ML) Excl Bulk Sales Metered and Unmetered (See Table 8) (17) | TOTAL URBAN WATER SUPPLIED Potable (ML) Non Revenue Water + Revenue Water | | BULK WATER EXPORTS (ML) Potable and Nonpotable (See Table 8) (20) W14 | NON URBAN RECYCLED WATER | | | | | | | | | | | | | | |
|---|---|----------------|---------------------------------|-----------------|----------------------------------|-------------------|-----------------------------------|--------------------------|-----------------------------------|-----------------|-----------------------------------|---|-----------------|-----------------------------------|---|--|--|---|--|--------------------------------|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| | REAL LOSS ⁴ (Leakage) | | | APPARENT LOSS | | | UNBILLED WATER ² | APPARENT LOSS + UNBILLED | | | | TOTAL NON-REVENUE WATER Potable (Real Loss + Apparent Loss + Unbilled) | | | | Total Reported (14) + (17) | Total Adopted (Table 8 Col (10)) (15)+(17) | | Agriculture 1 + Other (ML) (21) W22 + W25 | Environmental (ML) (22) W23 | On-site (ML) (23) W24 | | | | | | | | | | | | |
| | Reported | Adopted | | Reported | | | Reported | Reported | | Adopted | | Reported | Adopted | | | | | | | | | | | | | | | | | | | | |
| | (1) | See note 5 (2) | % of Total Potable (2)/(19) (3) | Illegal Use (4) | Under-registration of meters (5) | Total (4)+(5) (6) | Fire Fighting, Mains Flushing (9) | (6) + (9) (10) | % of Total Potable (10)/(19) (11) | See note 5 (12) | % of Total Potable (12)/(19) (13) | (1) + (10) (14) | (2) + (12) (15) | % of Total Potable (15)/(19) (16) | | (18) | (19) | | (ML) | (ML) | (ML) | | | | | | | | | | | | |
| 43 Tumut Council | - | 78 | 6% | - | - | - | 17 | 17 | 1% | 52 | 4% | 17 | 130 | 10% | 1,172 | 1,189 | 1,302 | - | - | 31 | 16 | | | | | | | | | | | | |
| 44 Gunnedah Shire Council | 60 | 138 | 6% | 23 | 23 | 46 | - | 46 | 2% | 92 | 4% | 106 | 230 | 10% | 2,069 | 2,175 | 2,299 | - | - | 605 | - | | | | | | | | | | | | |
| 45 Upper Hunter Shire Council | - | 175 | 6% | 5 | 25 | 30 | - | 30 | 1% | 116 | 4% | 30 | 291 | 10% | 2,649 | 2,649 | 2,910 | - | - | 30 | - | | | | | | | | | | | | |
| 46 Narrabri Shire Council | 200 | 200 | 9% | - | - | - | - | - | - | 92 | 4% | 200 | 292 | 13% | 2,003 | 2,203 | 2,295 | - | - | 37 | - | | | | | | | | | | | | |
| 47 Bellingen Shire Council | 57 | 77 | 6% | 2 | 12 | 14 | 37 | 51 | 4% | 51 | 4% | 108 | 128 | 10% | 1,151 | 1,259 | 1,279 | 1 | - | - | - | | | | | | | | | | | | |
| 48 Leeton Shire Council | 300 | 300 | 10% | 10 | 100 | 110 | 65 | 175 | 6% | 175 | 6% | 475 | 475 | 16% | 2,481 | 2,956 | 2,956 | 30 | - | - | 20 | | | | | | | | | | | | |
| 49 Young Shire Council | - | 90 | 6% | - | - | - | - | - | - | 60 | 4% | - | 151 | 10% | 1,372 | 1,372 | 1,523 | - | - | - | - | | | | | | | | | | | | |
| 50 Cooma-Monaro Council | - | 74 | 6% | - | - | - | - | - | - | 49 | 4% | - | 123 | 10% | 1,104 | 1,104 | 1,227 | - | - | - | 167 | | | | | | | | | | | | |
| 51 Forbes Shire Council | 48 | 108 | 6% | 10 | 21 | 31 | 10 | 41 | 2% | 72 | 4% | 89 | 179 | 10% | 1,614 | 1,703 | 1,793 | 307 | - | - | 6 | | | | | | | | | | | | |
| 52 Snowy River Shire Council | 140 | 140 | 17% | - | - | - | 16 | 16 | 2% | 16 | 2% | 156 | 156 | 18% | 690 | 846 | 846 | - | - | - | - | | | | | | | | | | | | |
| 53 Berrigan Shire Council | 105 | 105 | 13% | 3 | 5 | 8 | - | 8 | 1% | 8 | 1% | 113 | 113 | 14% | 698 | 811 | 811 | - | - | - | - | | | | | | | | | | | | |
| <i>Medians (% of LWUs basis) for 3,000 to 10,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 Deniliquin Council | - | 144 | 6% | - | - | - | - | - | - | 96 | 4% | - | 241 | 10% | 2,189 | 2,189 | 2,430 | - | - | - | - | | | | | | | | | | | | |
| 55 Warrumbungle Shire Council | - | 48 | 6% | - | - | - | - | - | - | 32 | 4% | - | 81 | 10% | 726 | 726 | 807 | - | - | 113 | - | | | | | | | | | | | | |
| 56 Yass Valley Council | 100 | 100 | 12% | 4 | 10 | 14 | 70 | 84 | 10% | 84 | 10% | 184 | 184 | 22% | 654 | 838 | 838 | 4 | - | 53 | - | | | | | | | | | | | | |
| 57 Wellington Council | 246 | 246 | 21% | 9 | 58 | 67 | 5 | 72 | 6% | 72 | 6% | 318 | 318 | 27% | 866 | 1,184 | 1,184 | - | - | - | - | | | | | | | | | | | | |
| 58 Cootamundra Shire Council | 80 | 80 | 11% | - | - | - | - | - | - | - | - | 80 | 80 | 11% | 627 | 707 | 707 | - | - | - | - | | | | | | | | | | | | |
| 59 Lachlan Shire Council | 124 | 124 | 10% | 6 | 26 | 32 | 27 | 59 | 5% | 59 | 5% | 183 | 183 | 14% | 1,090 | 1,273 | 1,273 | 19 | - | 7 | 12 | | | | | | | | | | | | |
| 60 Glen Innes Severn Shire Council | 112 | 112 | 17% | 1 | 8 | 9 | 3 | 12 | 2% | 12 | 2% | 124 | 124 | 19% | 531 | 655 | 655 | - | - | 13 | 1 | | | | | | | | | | | | |
| 61 Liverpool Plains Shire Council | 65 | 65 | 7% | 11 | 18 | 29 | 9 | 38 | 4% | 38 | 4% | 103 | 103 | 11% | 817 | 920 | 920 | 13 | - | - | - | | | | | | | | | | | | |
| 62 Narromine Shire Council | 72 | 72 | 6% | 13 | 41 | 54 | 45 | 99 | 9% | 99 | 9% | 171 | 171 | 15% | 940 | 1,111 | 1,111 | 35 | - | - | - | | | | | | | | | | | | |
| 63 Narrandera Shire Council | 80 | 70 | 6% | 10 | 2 | 12 | - | 12 | 1% | 46 | 4% | 92 | 116 | 10% | 1,056 | 1,148 | 1,172 | - | - | - | - | | | | | | | | | | | | |
| 65 Murray Shire Council | 75 | 75 | 11% | 1 | 15 | 16 | - | 16 | 2% | 16 | 2% | 91 | 91 | 13% | 620 | 711 | 711 | 3 | - | 128 | - | | | | | | | | | | | | |
| 66 Cobar Water Board | 445 | - | - | - | - | - | - | - | - | - | - | 445 | - | - | 445 | 445 | - | 962 | - | - | - | | | | | | | | | | | | |
| 67 Cobar Shire Council | 40 | 40 | 5% | - | - | - | - | - | - | 35 | 4% | 40 | 75 | 9% | 778 | 818 | 853 | - | - | - | - | | | | | | | | | | | | |
| 68 Tenterfield Shire Council | - | 25 | 6% | - | - | - | - | - | - | 17 | 4% | - | 42 | 10% | 376 | 376 | 418 | 15 | - | 15 | - | | | | | | | | | | | | |
| 70 Kyogle Council | 29 | 29 | 7% | - | 20 | 20 | - | 20 | 5% | 20 | 5% | 49 | 49 | 11% | 386 | 435 | 435 | - | - | 267 | 56 | | | | | | | | | | | | |
| 71 Palerang Council | 5 | 29 | 6% | 1 | 9 | 10 | - | 10 | 2% | 20 | 4% | 15 | 49 | 10% | 441 | 456 | 490 | - | - | - | - | | | | | | | | | | | | |
| 73 Upper Lachlan Council | 15 | 18 | 6% | 5 | 25 | 30 | 25 | 55 | 19% | 55 | 19% | 70 | 73 | 25% | 223 | 293 | 296 | - | - | - | - | | | | | | | | | | | | |
| 74 Wentworth Shire Council | - | 55 | 6% | - | - | - | 559 | 559 | 61% | 559 | 61% | 559 | 614 | 67% | 301 | 860 | 915 | - | - | - | - | | | | | | | | | | | | |
| 75 Coonamble Shire Council | 30 | 60 | 6% | 5 | 1 | 6 | 15 | 21 | 2% | 40 | 4% | 51 | 100 | 10% | 896 | 947 | 996 | 13 | - | 37 | 5 | | | | | | | | | | | | |
| <i>Medians (% of LWUs basis) for 1,500 to 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>LWUs with 200 - 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 Harden Shire Council | 12 | 45 | 6% | 4 | 2 | 6 | 6 | 12 | 2% | 30 | 4% | 24 | 75 | 10% | 672 | 696 | 747 | - | - | - | 75 | | | | | | | | | | | | |
| 79 Walgett Shire Council | - | 28 | 6% | - | - | - | - | - | - | 19 | 4% | - | 47 | 10% | 431 | 431 | 478 | - | - | - | - | | | | | | | | | | | | |
| 80 Greater Hume Shire Council | 16 | 29 | 6% | 17 | 8 | 25 | 6 | 31 | 6% | 31 | 6% | 47 | 60 | 12% | 428 | 475 | 488 | 8 | - | - | - | | | | | | | | | | | | |
| 81 Gwydir Shire Council | 172 | 172 | 27% | 20 | 30 | 50 | - | 50 | 8% | 50 | 8% | 222 | 222 | 35% | 404 | 626 | 626 | - | - | 10 | 2 | | | | | | | | | | | | |
| 82 Gloucester Shire Council | 53 | 53 | 13% | - | 1 | 1 | - | 1 | 0% | 1 | 0% | 54 | 54 | 13% | 361 | 415 | 415 | - | - | - | - | | | | | | | | | | | | |
| 83 Oberon Council | 45 | 45 | 8% | - | 29 | 29 | - | 29 | 5% | 29 | 5% | 74 | 74 | 13% | 494 | 568 | 568 | 1 | - | 240 | - | | | | | | | | | | | | |
| 84 Gilgandra Shire Council | 80 | 80 | 10% | 6 | 10 | 16 | 5 | 21 | 3% | 21 | 3% | 101 | 101 | 12% | 710 | 811 | 811 | 5 | - | 290 | - | | | | | | | | | | | | |
| 85 Uralla Shire Council | 31 | 31 | 10% | 1 | 3 | 4 | 33 | 37 | 12% | 37 | 12% | 68 | 68 | 23% | 232 | 300 | 300 | 3 | - | - | - | | | | | | | | | | | | |
| 86 Hay Shire Council | 23 | 23 | 6% | - | - | - | - | - | - | 16 | 4% | 23 | 39 | 10% | 349 | 372 | 388 | - | - | - | - | | | | | | | | | | | | |
| 87 Bourke Shire Council | 5 | 41 | 6% | - | - | - | - | - | - | 27 | 4% | 5 | 69 | 10% | 617 | 622 | 686 | 1 | - | - | - | | | | | | | | | | | | |

Table 8A: 2009-10 potable water losses and non-revenue water (continued)

| WATER UTILITY | | NON-REVENUE WATER ² - Potable (ML) | | | | | | | | | | | REVENUE WATER ¹ Potable (ML) Excl Bulk Sales Metered and Unmetered (See Table 8) (17) | TOTAL URBAN WATER SUPPLIED Potable (ML) | | BULK WATER EXPORTS (ML) Potable and Nonpotable (See Table 8) (20) W14 | NON URBAN RECYCLED WATER | | | | |
|---|-------------------------------|---|------------|-----------------------------|---------------|------------------------------|---------------|-------------------------------|--------------------------|-----------|-------------------|------------------------------|---|--|------------|---|-----------------------------------|-----------------------|---------------|------------------------------|----------------------------|
| | | REAL LOSS ⁴ (Leakage) | | | APPARENT LOSS | | | UNBILLED WATER ² | APPARENT LOSS + UNBILLED | | | | | TOTAL NON-REVENUE WATER Potable (Real Loss + Apparent Loss + Unbilled) | | | Non Revenue Water + Revenue Water | Agriculture I + Other | Environmental | On-site | |
| | | Reported | Adopted | | Reported | | | | Reported | Reported | Adopted | | | Reported | Adopted | | | | | | Total Reported (14) + (17) |
| | | | See note 5 | % of Total Potable (2)/(19) | Illegal Use | Under-registration of meters | Total (4)+(5) | Fire Fighting, Mains Flushing | | | (6) + (9) | % of Total Potable (10)/(19) | | | See note 5 | | % of Total Potable (12)/(19) | (1) + (10) | (2) + (12) | % of Total Potable (15)/(19) | |
| (1) | (2) | (3) | (4) | (5) | (6) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (18) | (19) | | | | | | |
| 88 | Wakool Shire Council | - | <i>23</i> | <i>6%</i> | - | - | - | - | <i>15</i> | <i>4%</i> | - | <i>38</i> | <i>10%</i> | 344 | 382 | | | | | | |
| 89 | Bogan Shire Council | - | <i>35</i> | <i>6%</i> | - | - | - | - | <i>23</i> | <i>4%</i> | - | <i>58</i> | <i>10%</i> | 524 | 582 | | | | | | |
| 90 | Guyra Shire Council | 10 | <i>29</i> | <i>6%</i> | 2 | 5 | 7 | 17 | 24 | 5% | 24 | 5% | 34 | 53 | 11% | 1 | | | | | |
| 91 | Cabonne Council | 43 | 43 | 19% | 1 | 3 | 4 | 9 | 13 | 6% | 13 | 6% | 56 | 56 | 24% | | 2 | | | | |
| 92 | Carrathool Shire Council | - | <i>62</i> | <i>6%</i> | 1 | 10 | 11 | - | <i>11</i> | <i>1%</i> | <i>41</i> | <i>4%</i> | <i>11</i> | <i>103</i> | <i>10%</i> | | | | | | |
| 93 | Tumbarumba Shire Council | 24 | 24 | 8% | 1 | - | 1 | 35 | 36 | 12% | 36 | 12% | 60 | 60 | 20% | | | | | | |
| 94 | Gundagai Shire Council | 50 | 50 | 8% | 10 | 50 | 60 | 5 | 65 | 11% | 65 | 11% | 115 | 115 | 19% | 3 | | - | | | |
| 96 | Warren Shire Council | 61 | 61 | 16% | 5 | 30 | 35 | 6 | 41 | 11% | 41 | 11% | 102 | 102 | 26% | | 2 | | | | |
| 97 | Bombala Council | 3 | <i>12</i> | <i>6%</i> | - | 1 | 1 | 23 | 24 | 12% | 24 | 12% | 27 | <i>36</i> | <i>18%</i> | | | | | | |
| 98 | Walcha Council | 3 | <i>13</i> | <i>6%</i> | - | 4 | 4 | 3 | 7 | 3% | 9 | 4% | 10 | <i>21</i> | <i>10%</i> | | | | | | |
| 100 | Balranald Council | 1 | <i>12</i> | <i>6%</i> | - | 1 | 1 | - | 1 | 1% | 8 | 4% | 2 | <i>20</i> | <i>10%</i> | | | | | | |
| 101 | Murrumbidgee Shire Council | - | <i>40</i> | <i>6%</i> | - | - | - | - | 27 | 4% | - | - | 67 | 67 | 10% | | | | | | |
| 103 | Central Darling Shire Council | - | <i>7</i> | <i>6%</i> | - | - | - | - | 5 | 4% | - | - | 11 | 11 | 10% | | | | | | |
| 104 | Boorowa Council | 8 | <i>17</i> | <i>6%</i> | - | - | - | - | 11 | 4% | 8 | 8 | 28 | 28 | 10% | | | | | | |
| 105 | Brewarrina Shire Council | 5 | <i>14</i> | <i>6%</i> | - | - | - | - | 9 | 4% | 5 | 5 | 23 | 23 | 10% | | | | | | |
| 106 | Jerilderie Shire Council | - | <i>9</i> | <i>6%</i> | - | - | - | - | 6 | 4% | - | - | 15 | 15 | 10% | | | | | | |
| Medians (% of LWUs basis) for 200 to 1,500 Properties | | | | 6% | | | | | | 4% | | | 10% | | | | | | | | |
| Median All LWUs (% of LWUs basis) | | Real Loss (leakage) | | | | | | | | | Non-revenue Water | | | 11% | | | | | | | |
| Median All LWUs (Statewide basis) | | | | | | | | | | | | | | 10% | | | | | | | |

Notes:

1. Revenue water (potable) = Billed, Authorised water supplied (metered and unmetered).
2. Non-revenue water (potable) = Real Losses (mostly Leakage) + Apparent Losses (under registration of customer meters and illegal use) + Unbilled Water (authorised Unbilled consumption for firefighting and mains flushing)
3. Real Losses (Leakage) in column (2) above are the same as those shown in column (8) of Table 8. They relate only to Total Urban Water Supplied (potable) and exclude bulk water exports.
4. Total Urban Water Supplied (Revenue Water (potable) plus Non-Revenue Water (potable)) in column (18) above is the same as that shown in column (10) of Table 8.
5. Minimum Losses: The minimum adopted in this report for Real Loss (Leakage) is 6% of the Total Urban Water Supplied (potable) and the minimum adopted for (Apparent Loss plus Unbilled Water) is 4%, unless the utility has provided evidence for the adoption of a lower Leakage (eg. a reservoir drop test, detailed waste metering or night flow analysis of district meter areas (see Table 10)). This results in a minimum Non Revenue Water of 10% of Urban Water Supplied (potable). Therefore, for those utilities reporting Non Revenue Water of less than 10% (col (14)), the Non-revenue Water has been increased to 10% of the Urban Water Supplied (col 15) (shown in italics bold), unless the LWU has provided evidence of a lower value of Leakage under Note 6. In such a case, the adopted value for Non Revenue Water is the reported Leakage plus 4%.
6. Real Losses (Leakage): As described in Note 5 above, a minimum of 6% of the Total Urban Water Supplied (potable) has been adopted for Leakage. Therefore, unless corroborated by evidence (eg. a reservoir drop test, detailed waste metering or night flow analysis of district meter areas (see Table 10)), reported Leakage of less than 6% (column (8)) has been increased to 6% (shown in italics bold).
7. Leakage Reduction Programs: As shown in column 7 of Table 8C, 52 of the 94 reticulating local water utilities have recently carried out a leakage reduction program. In addition, Table 10 indicates that 48 LWUs have reported carrying out recent leakage testing.

Table 8B: 2009-10 water supplied from source catchments in non-metropolitan NSW

| SOURCE CATCHMENT | Source Catchment | POTABLE URBAN WATER SUPPLIED (ML) | | | | | | | | | RECYCLED WATER | | Non-Potable Urban Water Supplied (Excluding Bulk Exports & Recycled) (12) | Total Urban Water Supplied Excluding BULK Exports Including Recycled =(10)+(11)+(12) (13) | BULK | | WATER SOURCE (ML) | | | | | |
|---------------------------------|-----------------------|-----------------------------------|---------------|---------------|--------------|---------------|------------------------|----------------|---------------|--|--------------------------------|-------------------------------------|---|--|----------------------------|-----------------------------|----------------------------|----------------------------|-------------------------|------------------------------|---|--|
| | | Residential | Commercial | Industrial | Rural | Institutional | Public Parks & Gardens | Unbilled Water | Water Losses | Potable Urban Water Supplied = SUM (1) to (9) (10) | For Urban Water Supply (11) | For Non-urban Water Supply (11b) | | | Bulk Water Exports (14) | Surface Water W1 (15) | Ground Water W2 (16) | Desalination W3 (17) | Recycling W4 (18) | Bulk Purchases W5 (19) | Bulk Recycled Water Purchased W6 (20) | |
| | | (1) | (2) | (3) | (4) | (5) | (7) | (8) | (9) | (10) | (11) | (11b) | | | (14) | (15) | (16) | (17) | (18) | (19) | (20) | |
| Bega | Bega | 2,140 | 588 | 80 | 136 | 126 | 54 | 13 | 459 | 3,596 | 613 | 214 | 0 | 4,209 | | 1,450 | 2,020 | 000 | 613 | 000 | | |
| Bellinger | Bellinger | 635 | 372 | | | 144 | | 37 | 91 | 1,279 | | | | 1,279 | 1 | 163 | 1,060 | | | | | |
| Castlereagh/Macquarie | Castlereagh/Macquarie | 16,530 | 3,460 | 1,660 | 267 | 1,000 | 1,060 | 157 | 4,871 | 29,005 | 3,070 | 7,011 | 839 | 32,914 | 4,060 | 28,600 | 5,580 | 000 | 3,070 | 037 | | |
| Clarence | Clarence | 7,610 | 2,110 | 558 | 565 | 182 | 253 | 130 | 1,801 | 13,209 | 537 | 1,006 | 68 | 13,814 | | 13,400 | | | 537 | 71 | | |
| Clyde | Clyde | 2,130 | 550 | | 44 | 134 | 15 | 20 | 1,143 | 4,036 | 281 | 89 | 0 | 4,317 | | 4,030 | 000 | 000 | 281 | 000 | | |
| Darling | Darling | 4,130 | 514 | 1,020 | 22 | 304 | 82 | 559 | 684 | 7,315 | 722 | | 4,790 | 12,827 | 963 | 5,930 | 72 | | 722 | 4,990 | | |
| Gwydir | Gwydir | 4,350 | 632 | 439 | 17 | 30 | 412 | 50 | 1,013 | 6,943 | 314 | 487 | 77 | 7,334 | 5 | 1,670 | 2,590 | 000 | 314 | 2,220 | | |
| Hastings | Hastings | 4,330 | 987 | 33 | 42 | 311 | 50 | 29 | 610 | 6,392 | 109 | 260 | | 6,501 | | 6,280 | | | 109 | | | |
| Hawkesbury (Country Towns only) | Hawkesbury | 15,380 | 2,280 | 664 | 193 | 624 | 357 | 208 | 2,392 | 22,098 | 87 | 1,785 | 0 | 22,185 | 3 | 15,430 | 096 | 000 | 87 | 5,750 | | |
| Hunter (Country Towns only) | Hunter | 4,830 | 963 | 724 | 59 | 355 | 227 | 12 | 780 | 7,950 | 1,050 | 423 | | 9,000 | | 6,470 | 469 | | 1,050 | | | |
| Lachlan | Lachlan | 5,690 | 1,440 | 3,960 | 893 | 368 | 678 | 622 | 1,495 | 15,146 | 685 | 1,446 | 257 | 16,088 | 493 | 9,080 | 4,160 | 000 | 685 | 538 | | |
| Macleay | Macleay | 3,530 | 687 | 181 | 427 | 527 | 68 | 149 | 759 | 6,328 | 40 | 868 | 45 | 6,413 | 27 | 4,060 | 2,340 | | 40 | | | |
| Manning | Manning | 5,450 | 1,520 | 666 | 30 | 150 | 128 | 183 | 1,450 | 9,577 | 0 | 729 | 0 | 9,577 | | 8,920 | 687 | 000 | 000 | 000 | | |
| Moonie/Macintyre | Moonie/Macintyre | 637 | 146 | 2 | 2 | 24 | 5 | 3 | 163 | 982 | 109 | 29 | | 1,091 | 15 | 1,010 | | | 109 | | | |
| Murray | Murray | 8,730 | 1,610 | 1,020 | 209 | 595 | 493 | 75 | 1,429 | 14,161 | 214 | 5,230 | 2,040 | 16,415 | 339 | 12,950 | 173 | 000 | 214 | 314 | | |
| Murrumbidgee | Murrumbidgee | 26,250 | 6,460 | 2,430 | 2,900 | 1,020 | 1,520 | 1,110 | 4,056 | 45,746 | 1,170 | 1,515 | 2,920 | 49,836 | 8,750 | 17,020 | 16,700 | | 1,170 | 19,100 | | |
| Nambucca | Nambucca | 800 | 400 | 26 | 83 | 49 | 18 | 8 | 150 | 1,534 | 0 | 131 | 0 | 1,534 | | 000 | 1,620 | 000 | 000 | 000 | | |
| Namoi | Namoi | 9,130 | 1,320 | 1,710 | 220 | 559 | 752 | 60 | 1,803 | 15,554 | | 3,009 | 1,270 | 16,824 | 15 | 9,430 | 6,660 | | | | | |
| Shoalhaven | Shoalhaven | 6,200 | 1,870 | 2,447 | 692 | 125 | 112 | 57 | 1,399 | 12,902 | 144 | 2,285 | 2,190 | 15,236 | | 14,720 | 000 | 000 | 144 | 87 | | |
| Snowy | Snowy | 621 | 102 | 48 | 16 | 66 | 2 | 39 | 153 | 1,047 | 35 | | | 1,082 | | 1,370 | | | 35 | | | |
| Tuggerah Lake | Tuggerah Lake | 8,770 | 3,210 | | | | | 0 | 988 | 12,968 | 940 | 84 | 0 | 13,908 | 4,490 | 13,480 | 292 | 000 | 940 | 3,600 | | |
| Tweed/Richmond | Tweed/Richmond | 13,230 | 4,570 | 1,100 | 1,850 | 216 | 221 | 115 | 3,917 | 25,219 | 1,710 | 728 | | 26,929 | 10,800 | 25,780 | | | 1,710 | 10,900 | | |
| | Totals | 151,000 | 35,800 | 18,800 | 8,700 | 6,900 | 6,500 | 3,600 | 31,600 | 263,000 | 11,800 | 27,300 | 14,500 | 289,000 | 30,000 | 201,000 | 45,000 | 0 | 12,000 | 48,000 | 0 | |

Note:

For water utilities which did not report their residential consumption together with commercial and/or industrial consumption, the percentages tabulated in *Table 8* were applied to their total potable urban water supplied (column 10) and the consumptions for each category summed for each catchment to obtain the above values.

Table 8C: 2009-10 water conservation initiatives

| WATER UTILITY | CUSTOMER FOCUSED MEASURES | | | | | BUSINESS FOCUSED | | OTHER MEASURES | | | | | WATER SUPPLIED | | | | | IWCM | | | | | |
|---|----------------------------|------------------|--|-------------------------|---------------------------|------------------------------|---------------------------|---|------|------|-----------------------|-----------------------|---------------------------------------|---|--------------------------------|--|---|---|-------------------------|-----------------------|---------|----------------|--|
| | Customer Education Program | Retrofit Program | Rebates for Water Efficient Appliances | Rebates for Water Tanks | Max Rainwater Tank Rebate | Effluent or Stormwater Reuse | Leakage Reduction Program | Other Demand Management Measures | | | | | Sound Water Conservation Implemented? | Sound Drought Management Implemented? | Water Usage Charge per kL | Residential Revenue from Usage Charges | Average Annual Residential Water Supplied | Total Urban Water Supplied | Total Non Revenue Water | Real Losses (Leakage) | | Status of IWCM | |
| | Yes/No (1) | Yes/No (2) | Yes/No (3) | Yes/No (4) | \$ (5) | Yes/No (6) | Yes/No (7) | (9) | (10) | (11) | Step 1 (c/kL) (12) | Step 2 (c/kL) (13) | (%) (14) F4 2009/10 | (kL/property) (15) W12 2009/10 | (ML) (16) W11 2009/10 | (ML) (17) | (ML) (18) | (L/d/ connection) (19) A10 2009/10 | (20) | (21) | 2009/10 | 2009/10 | |
| 11 Albury City | Yes | Yes | No | No | | Yes | Yes | Full pay-for-use pricing, public education program, customer billing 3 times/a, Waterwise program, water conservation and loss management strategy, leak reduction program, reservoir drop test, effluent reuse, separate metering (new & existing multi-unit developments), monitoring programs & customer surveys, free water audits (non-residential), review of conservation initiatives. | Yes | Yes | 64 | 130 | 64 | 220 | 6,798 | 679 | 407 | 50 | Y | Y | | | |
| 29 Armidale Dumaresq | Yes | No | No | No | | Yes | No | Full pay-for-use pricing, demand management plan, member of waterwise, public education program. | Yes | Yes | 178 | 236 | 62* | 215 | 2,639 | 259 | 156 | 60 | | | | | |
| 24 Ballina (Reticulator) | Yes | Yes | Yes | Yes | 670 | Yes | Yes | | Yes | Yes | 152 | 228 | 70 | 188 | 4,767 | 876 | 789 | 200 | Y | Y | | | |
| 100 Balranald (Dual Supply) | Yes | No | No | No | | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions. | Yes | Yes | 74 | 111 | 79* | 232 | 594 | 20 | 12 | 40 | | | | | |
| 21 Bathurst Regional | Yes | No | No | Yes | 1500 | Yes | No | Member of waterwise, public education program. | Yes | Yes | 130 | 195 | 81 | 252 | 6,001 | 602 | 362 | 70 | Y | Y | | | |
| 23 Bega Valley (Unfiltered) | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, customer billing 3-times/a, member of waterwise, public education, water restrictions, effluent reuse, water demand management officer. | Yes | Yes | 220 | | 68* | 165 | 4,213 | 472 | 243 | 60 | | | | | |
| 47 Bellingen (Unfiltered) | Yes | No | No | No | | No | No | Full pay-for-use pricing, member of waterwise, retrofit program, public education program. | Yes | Yes | 103 | 155 | 43* | 175 | 1,279 | 128 | 77 | 50 | Y | | | | |
| 53 Berrigan (Dual Supply) | Yes | No | No | No | | Yes | No | Public education. | Yes | Yes | 100 | | 34* | 158 | 1,561 | 113 | 105 | 90 | | | | | |
| 72 Bland (No WS) | | | | | | Yes | | | | | | | | | | | | | | | | | |
| 78 Blayney (No WS) | | | | | | Yes | | | | | | | | | | | | | | | | Y | |
| 89 Bogan | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | | Yes | 92 | 133 | 56* | 365 | 582 | 58 | 35 | 90 | | | | | |
| 97 Bombala | No | Yes | No | No | | Yes | No | Full pay-for-use pricing, member of waterwise, public education program. | Yes | Yes | 52 | 113 | 18* | 193 | 236 | 36 | 12 | 40 | | | | | |
| 104 Boorowa | Yes | Yes | Yes | No | | Yes | Yes | Full pay-for-use pricing, public education program. | Yes | Yes | 171 | 291 | 61* | 295 | 278 | 28 | 17 | | | | | | |
| 87 Bourke (Dual Supply) | No | No | No | No | | No | No | Full pay-for-use pricing, member of waterwise, public education program, waterwise program with local schools. | Yes | Yes | 180 | | 86* | 569 | 4,052 | 69 | 41 | 110 | | | | | |
| 105 Brewarrina | No | No | No | No | | Yes | No | | Yes | Yes | | | | 293 | 729 | 23 | 14 | 70 | | | | | |
| 27 Byron (Reticulator) | Yes | Yes | Yes | Yes | 1800 | Yes | Yes | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, retrofit program, public education program, pressure reduction. | Yes | Yes | 180 | 270 | 77 | 194 | 3,172 | 376 | 353 | 100 | Y | Y | | | |
| 91 Cabonne | Yes | No | No | No | | Yes | Yes | Member of waterwise, public education program. | Yes | Yes | 136 | 315 | 47* | 135 | 412 | 56 | 43 | 110 | Y | | | | |
| 92 Carrathool (Groundwater) | No | No | No | Yes | 500 | No | No | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, retrofit program, public education program, other. | Yes | Yes | 80 | 95 | 60* | 641 | 1,677 | 103 | 62 | | | | | | |
| 103 Central Darling (Dual Supply) | | | | | | | No | Full Pay-for-use pricing, customer billing 3 times/a, water restrictions. | Yes | Yes | 300 | | 87* | 103 | 357 | 11 | 7 | | | | | | |
| 40 Central Tablelands (No Sge) | Yes | No | No | No | | NA | No | Full pay-for-use pricing, member of waterwise, public education program, free showerhead exchange program. | Yes | Yes | 170 | 255 | 73* | 201 | 1,879 | 187 | 112 | 50 | Y | | | | |
| 14 Clarence Valley | Yes | Yes | Yes | Yes | 1,100 | Yes | No | Full pay-for-use pricing, restrictions, retrofit program, public education program. | Yes | Yes | 138 | 207 | 65* | 170 | 6,736 | 1,255 | 907 | 120 | Y | Y | | | |
| 67 Cobar | Yes | Yes | No | No | | Yes | Yes | Full Pay-for-use pricing, member of waterwise, restrictions, retrofit program, public education program. | Yes | Yes | 90 | 160 | 57* | 309 | 954 | 75 | 40 | 50 | Y | | | | |
| 66 Cobar WB (Bulk Supplier) (No Sge) | No | No | No | No | | NA | No | | | | | | | | 1,543 | 0 | | | | | | | |
| 10 Coffs Harbour (Unfiltered) | Yes | Yes | Yes | No | | Yes | Yes | Full pay-for-use pricing, customer billing 3 times/a, member waterwise, building code program, restrictions, public education program, rebate for water efficient appliances, rebate for water audits, effluent reuse, separate metering of new and existing multi-unit developments, leakage reduction program, reservoir drop test, monitoring program, review of conservation measures. | Yes | Yes | 219 | 329 | 76* | 186 | 6,619 | 627 | 376 | 50 | Y | Y | | | |
| 99 Coolamon (No WS) | | | | | | | | | | | | | | | 50 | | | | | | | | |
| 50 Cooma-Monaro | Yes | Yes | No | No | | Yes | No | Full pay-for-use pricing, member waterwise, public education program, restrictions, rainwater tank rebate, rebate for water efficient appliances, rebate for water audits, separate metering for new multi-unit developments, reservoir drop test, monitoring to review effectiveness of conservation measures. | Yes | Yes | 115 | 173 | 44* | 195 | 1,227 | 123 | 74 | 50 | | | | | |
| 75 Coonamble (Groundwater) | No | Yes | No | No | | Yes | No | Public education program. | | Yes | 44 | 67 | 73* | 466 | 1,030 | 100 | 60 | 100 | | | | | |
| 58 Cootamundra (Reticulator) | No | Yes | No | No | | Yes | No | Member of waterwise, public education program. | | Yes | 151 | 301 | 59* | 179 | 911 | 80 | 80 | 70 | | | | | |
| 42 Corowa | No | No | No | Yes | 500 | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 90 | | 56* | 237 | 2,183 | 207 | 120 | 70 | Y | Y | | | |
| 26 Country Energy | Yes | Yes | Yes | No | | Yes | No | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, public education program. | Yes | Yes | 125 | 251 | 60 | 279 | 5,926 | 475 | 285 | 80 | Y | Y | | | |
| 39 Cowra | Yes | Yes | No | No | | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 134 | 224 | 50* | 202 | 2,790 | 706 | 353 | 150 | | | | | |
| 54 Deniliquin | Yes | No | No | No | | Yes | Yes | Member of waterwise, public education program, integrated water cycle management study. | Yes | Yes | 40 | 80 | 30* | 466 | 2,430 | 241 | 144 | | | | | Y | |
| 18 Dubbo | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member waterwise, public education program, quarterly billing, effluent reuse schemes, stormwater reuse schemes, leakage reduction program, park irrigation controls, separate metering for new multi-unit developments, restrictions, reservoir drop test, draft drought management plan, demand management strategy, demonstration waterwise garden. | Yes | Yes | 153 | | 77 | 329 | 7,692 | 1,072 | 885 | 160 | Y | Y | | | |
| 15 Eurobodalla (Unfiltered) | Yes | Yes | Yes | Yes | 1500 | Yes | No | Member of waterwise, public education program, restrictions, integrated water cycle management study. | Yes | Yes | 240 | 360 | 54* | 116 | 4,315 | 1,163 | 1,081 | 170 | Y | Y | | | |
| 12 Fish River WS (Bulk Supplier) (No Sge) | Yes | No | No | No | | NA | No | | Yes | Yes | | | | | 1,459 | 968 | 968 | | | | | | |
| 51 Forbes | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, customer billing 4 times/a, public education program, water restriction, free garden mulch, considering rebate for water efficient shower head, building code program, effluent reuse. | Yes | Yes | 69 | 102 | 61* | 338 | 1,949 | 179 | 108 | 80 | | | | | |
| 84 Gilgandra (Groundwater) | Yes | No | No | Yes | 1020 | Yes | Yes | Full pay-for-use pricing, member of waterwise, public education program. | Yes | Yes | 86 | | 66* | 433 | 811 | 101 | 80 | | | | | | |
| 60 Glen Innes Severn | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, rainwater tank subsidy, restrictions, ad hoc public education. | Yes | Yes | 164 | 246 | 73* | 155 | 714 | 124 | 112 | 90 | Y | Y | | | |
| 82 Gloucester | No | No | No | No | | No | No | Full pay-for-use pricing, restrictions, retrofit program, public education program. | Yes | Yes | 202 | 255 | 64* | 167 | 415 | 54 | 53 | 90 | Y | Y | | | |
| 28B Goldenfields (Bulk Supplier) (No Sge) | | | | | | | | | | | | | | | 0 | | | | | | | | |
| 28A Goldenfields (Reticulator) (No Sge) | Yes | No | No | No | | NA | Yes | Full pay-for-use pricing, customer billing 3 times/a, member waterwise, public education program, restrictions, separate metering of new multi-unit developments, monitoring program, review conservation measures. | | | 156 | 234 | 78 | 256 | 5,165 | 504 | 352 | 90 | | | | | |

Table 8C: 2009-10 water conservation initiatives (continued)

| WATER UTILITY | CUSTOMER FOCUSED MEASURES | | | | | BUSINESS FOCUSED | | OTHER MEASURES | | | | | | | WATER SUPPLIED | | | | | IWCM | |
|--|----------------------------|------------------|--|-------------------------|---------------------------|------------------------------|---------------------------|---|---------------------------------------|---------------------------------------|---------------------------|--|---|----------------------------|-------------------------|-----------------------|------|----------------|---------------|------|---------------|
| | Customer Education Program | Retrofit Program | Rebates for Water Efficient Appliances | Rebates for Water Tanks | Max Rainwater Tank Rebate | Effluent or Stormwater Reuse | Leakage Reduction Program | Other Demand Management Measures | Sound Water Conservation Implemented? | Sound Drought Management Implemented? | Water Usage Charge per kL | Residential Revenue from Usage Charges | Average Annual Residential Water Supplied | Total Urban Water Supplied | Total Non Revenue Water | Real Losses (Leakage) | | Status of IWCM | | | |
| | Yes/No | Yes/No | Yes/No | Yes/No | \$ | Yes/No | Yes/No | | | | | | | | | (10) | (11) | Step 1 (c/kL) | Step 2 (c/kL) | (%) | (kL/property) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (9) | (12) | (13) | F4 | 2009/10 | (15) W12 | (16) W11 | (17) | (18) | (19) A10 | (20) | (21) | | | |
| 1 Gosford | Yes | No | No | Yes | 500 | Yes | Yes | Full pay-for-use pricing, rainwater tank subsidy, mandatory rain water tanks for new houses and extensions, restrictions, retrofit program, major water user audits, public education program, promoting effluent reuse schemes, leakage reduction program, main replacement program. | Yes | Yes | 186 | 74* | 146 | 13,608 | 1,601 | 1,124 | 50 | Y | Y | | |
| 20 Goulburn Mulwaree | Yes | Yes | Yes | No | | Yes | No | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, retrofit program, public education program, AAA washing machine rebates. | Yes | Yes | 159 214 | 40 | 136 | 2,213 | 221 | 133 | 40 | Y | Y | | |
| 80 Greater Hume | Yes | Yes | No | No | | Yes | Yes | Full pay-for-use pricing, restrictions, public education program. | Yes | Yes | 90 110 | 67* | 223 | 547 | 60 | 29 | 50 | Y | | | |
| 30 Griffith | Yes | No | Yes | No | | Yes | Yes | Full pay-for-use pricing, restriction policy in place, public education program. | Yes | Yes | 55 100 | 78* | 560 | 7,736 | 685 | 405 | 120 | Y | | | |
| 94 Gundagai | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 85 110 | 74* | 336 | 730 | 115 | 50 | 130 | | | | |
| 44 Gunnedah (Groundwater) | No | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 83 135 | 62* | 338 | 2,299 | 230 | 138 | 80 | Y | | | |
| 90 Guyra | No | No | No | No | | Yes | Yes | Full pay-for-use pricing, restrictions, public education program. | Yes | Yes | 120 150 | 48* | 217 | 491 | 53 | 29 | 70 | | | | |
| 81 Gwydir | Yes | No | No | No | | Yes | Yes | | Yes | Yes | 100 195 | 32* | 209 | 669 | 222 | 172 | 280 | Y | Y | | |
| 76 Harden (Reticulator) | Yes | Yes | No | No | | Yes | Yes | Full pay-for-use pricing. | Yes | | 206 309 | 77* | 330 | 1,022 | 75 | 45 | 70 | | | | |
| 7 Port Macquarie-Hastings (Unfiltered) | Yes | No | No | No | | Yes | No | Full pay-for-use pricing, member of waterwise, public education program, water restrictions, encourage use of rainwater tank, water audit free of charge for large users, retrofit program, effluent reuse program, separate metering for new and encourage separate metering for existing multi-unit development, leakage reduction program, permanent water conservation measures, meter replacement program. | Yes | Yes | 202 404 | 70 | 166 | 6,500 | 639 | 383 | 40 | Y | | | |
| 30A Hawkesbury (No WS) | | | | | | | | | | | | | | | | | | | | | |
| 86 Hay (Dual Supply) | Yes | No | No | No | | No | Yes | Full pay-for-use pricing, public education program, other. | Yes | Yes | 98 144 | 83* | 193 | 1,342 | 39 | 23 | 30 | | | | |
| Hunter Water | Yes | Yes | Yes | Yes | 1500 | Yes | Yes | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, retrofit program, public education program, leakage reduction, effluent reuse. | Yes | Yes | 171 | 85 | 184 | 68,233 | 0 | 0 | 88 | | | | |
| 37 Inverell | No | No | No | No | | No | No | Full pay-for-use pricing, member of waterwise, public education program. | Yes | Yes | 105 125 | 50* | 277 | 2,340 | 240 | 140 | 70 | | | | |
| 106 Jerilderie (Dual Supply) | Yes | No | No | No | | Yes | No | Full pay-for-use pricing, customer billing 3 times/a, member waterwise, building code program, restrictions, public education, retrofit program, effluent reuse, reservoir drop test, review conservation measures. | Yes | Yes | 120 140 | 84* | 264 | 430 | 15 | 9 | 50 | | | | |
| 77 Junee (No WS) | | | | | | Yes | | | | | | | | 164 | | | | | | | |
| 25 Kempsey (Groundwater) | Yes | Yes | No | No | | Yes | Yes | Subsidised water audits, public education, rainwater tank rebates, waterwise member, leakage reduction, retrofit rebates, dual flush toilet program, Integrated Water Cycle Management Strategy, reviewing drought policy. | Yes | Yes | 145 200 | 52* | 177 | 3,774 | 649 | 261 | 60 | Y | Y | | |
| 70 Kyogle | Yes | Yes | No | Yes | 670 | Yes | No | Full pay-for-use pricing, member waterwise, investigating rainwater tank subsidies, restrictions, non-potable water supplies, quarterly billing (commercial), 90% effluent reuse at Bonalbo and Woodenbong. | Yes | Yes | 114 175 | 46* | 164 | 461 | 49 | 29 | 40 | Y | Y | | |
| 59 Lachlan | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, restrictions, retrofit program under investigation, public education program. | Yes | Yes | 140 225 | 67* | 349 | 1,430 | 183 | 124 | 130 | | | | |
| 48 Leeton | Yes | No | Yes | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program (waterweek), separate metering of new multi unit developments; converting town parks to raw water; restricting all new residential meters to 20mm. | Yes | Yes | 74 110 | 64* | 442 | 2,956 | 475 | 300 | 190 | Y | | | |
| 22 Lismore (Reticulator) | Yes | Yes | Yes | Yes | 670 | Yes | No | Full pay-for-use pricing, customer billing 3 times/a, building code program, member of waterwise, water restrictions, public education program, rainwater tank rebate, rebate for water efficient appliance, rebate on water audits (special projects), retrofit program, effluent reuse, separate metering of new and some existing multi-unit developments, reservoir drop test, leakage reduction program, monitoring program, review water conservation measures every 2 years. | Yes | Yes | 215 | 72 | 168 | 3,791 | 713 | 616 | 130 | Y | Y | | |
| 31 Lithgow | Yes | No | Yes | Yes | 800 | No | No | Full pay-for-use pricing, member of waterwise, public education program, water restrictions implemented from Drought Management Plan. | Yes | Yes | 181 261 | 57* | 135 | 1,496 | 150 | 90 | 30 | | | | |
| 61 Liverpool Plains | Yes | No | No | No | | No | No | | | Yes | 100 165 | 40* | 222 | 920 | 103 | 65 | 70 | Y | | | |
| 102 Lockhart (No WS) | | | | | | Yes | | | | | | | | 27 | | | | Y | | | |
| 5 MidCoast (Unfiltered) | Yes | Yes | Yes | Yes | 1500 | Yes | Yes | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, retrofit program, public education program, other. | Yes | Yes | 220 246 | 77 | 154 | 9,163 | 1,579 | 1,021 | 90 | Y | Y | | |
| 32 Mid Western Regional | Yes | No | No | No | | Yes | Yes | | Yes | Yes | 172 258 | 71* | 205 | 2,536 | 428 | 172 | 70 | | | | |
| 38 Moree Plains (Groundwater) | No | No | No | Yes | 1500 | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program (media). | Yes | Yes | 85 125 | 78* | 946 | 3,531 | 479 | 409 | 230 | Y | | | |
| 65 Murray (Dual Supply) | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, restrictions, public education. | Yes | Yes | 76 | 57* | 174 | 1,142 | 91 | 75 | 80 | Y | | | |
| 101 Murrumbidgee (Groundwater) | | | | | | Yes | No | Full pay-for-use pricing, rainwater tank guidelines, encouraging retrofit program. | | | 26 31 | 40* | 470 | 672 | 67 | 40 | | | | | |
| 41 Muswellbrook | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 133 200 | 70* | 305 | 3,297 | 235 | 140 | 70 | Y | Y | | |
| 34 Nambucca (Groundwater) | No | No | Yes | Yes | 500 | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, retrofit program, public education program. | Yes | Yes | 149 | 75* | 143 | 1,534 | 158 | 97 | 50 | Y | Y | | |
| 46 Narrabri (Groundwater) | Yes | Yes | No | No | | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, retrofit program, public education program. | Yes | Yes | 63 | 60* | 544 | 2,295 | 292 | 200 | | | | | |
| 63 Narrandera (Groundwater) | Yes | Yes | Yes | Yes | | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 87 | 51* | 376 | 1,172 | 116 | 70 | | | | | |
| 62 Narromine (Groundwater) | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 85 | 69* | 434 | 1,111 | 171 | 72 | 90 | | | | |
| 83 Oberon (Reticulator) | Yes | No | No | No | | Yes | No | Full pay-for-use pricing, restrictions. | Yes | | 135 | 43* | 128 | 568 | 74 | 45 | 100 | | | | |
| 19 Orange | Yes | Yes | No | Yes | 650 | Yes | Yes | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, public education program. | Yes | Yes | 160 240 | 70 | 148 | 6,929 | 932 | 466 | | Y | | | |
| 71 Palerang | Yes | Yes | Yes | Yes | 500 | Yes | No | | Yes | Yes | 123 200 | 42* | 187 | 490 | 49 | 29 | 40 | | | | |
| 36 Parkes | Yes | No | No | Yes | 500 | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program, non-potable supply for stock, roadworks and swimming pools, IWCM Strategy. | Yes | Yes | 120 240 | 63* | 339 | 6,727 | 705 | 465 | 200 | Y | Y | | |

Table 8C: 2009-10 water conservation initiatives (continued)

| WATER UTILITY | CUSTOMER FOCUSED MEASURES | | | | | BUSINESS FOCUSED | | OTHER MEASURES | | | | | | | WATER SUPPLIED | | | | | IWCM | | | | | |
|-----------------------------------|----------------------------|------------------|--|-------------------------|---------------------------|------------------------------|---------------------------|--|------------------|------------------|-----------------------|-----------------------|------------------------------|---|---------------------------------------|---------------------------------------|---------------------------|--|---|-----------------------------|-------------------------|-----------------------|--|----------------|--|
| | Customer Education Program | Retrofit Program | Rebates for Water Efficient Appliances | Rebates for Water Tanks | Max Rainwater Tank Rebate | Effluent or Stormwater Reuse | Leakage Reduction Program | Other Demand Management Measures | | | | | | | Sound Water Conservation Implemented? | Sound Drought Management Implemented? | Water Usage Charge per kL | Residential Revenue from Usage Charges | Average Annual Residential Water Supplied | Total Urban Water Supplied | Total Non Revenue Water | Real Losses (Leakage) | | Status of IWCM | |
| | Yes/No (1) | Yes/No (2) | Yes/No (3) | Yes/No (4) | \$ (5) | Yes/No (6) | Yes/No (7) | (9) | (Yes/No) (10) | (Yes/No) (11) | Step 1 (c/kL) (12) | Step 2 (c/kL) (13) | (%) (14) F4 2009/10 | (kL/property) (15) W12 2009/10 | (ML) (16) W11 2009/10 | (ML) (17) 2009/10 | (ML) (18) 2009/10 | (L/d connection) (19) A10 2009/10 | Evaluation (20) 2009/10 | Strategy (21) 2009/10 | | | | | |
| 17 Queanbeyan (Reticulator) | Yes | Yes | Yes | Yes | 1100 | Yes | Yes | Full pay-for-use pricing, quarterly billing, member waterwise, public education program, restrictions, rainwater tank rebate, rebate for water efficient appliances, subsidised garden mulch, free water audits, effluent reuse, retrofit program, review conservation measures, reservoir drop test. | Yes | Yes | 190 | 276 | 62 | 200 | 4,279 | 551 | 433 | 100 | Y | | | | | | |
| 33 Richmond Valley | Yes | Yes | Yes | Yes | 670 | Yes | No | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, retrofit program, public education program. | Yes | Yes | 163 | 245 | 75* | 195 | 3,180 | 407 | 335 | | Y | Y | | | | | |
| 8 Riverina (Groundwater) (No Sge) | Yes | Yes | Yes | No | | NA | No | Full pay-for-use pricing, customer billing 3 times/a, member waterwise, building code program, restrictions, public education program, separate metering of new & existing multi-unit developments, reservoir drop test, leakage reduction program, monitoring program, review of conservation measures, meter replacement program. | Yes | Yes | 90 | 135 | 80 | 330 | 15,853 | 1,702 | 553 | 50 | Y | | | | | | |
| 4 Rous (Bulk Supplier) (No Sge) | Yes | Yes | Yes | Yes | 670 | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, retrofit program, public education program, appliance rebates, residential tune up program, school grants. | Yes | Yes | | | | | 1,567 | 160 | 160 | | Y | Y | | | | | |
| 3 Shoalhaven | Yes | No | Yes | Yes | 150 | Yes | Yes | Full pay-for-use pricing, quarterly billing, member waterwise/AWA, rainwater tank subsidy, rainwater tank subsidy (toilet/washing machine), restrictions, public education program, Water conservation Tapstar Show, retrofitting of showerheads, leak reduction program, monitoring demand, effluent reuse for agriculture. | Yes | Yes | 145 | 195 | 74 | 145 | 15,234 | 1,456 | 1,156 | 70 | Y | Y | | | | | |
| 35 Singleton | Yes | No | Yes | Yes | 450 | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 91 | 169 | 60* | 281 | 2,654 | 265 | 159 | 70 | | | | | | | |
| 52 Snowy River (Unfiltered) | No | No | No | No | | No | Yes | Full pay-for-use pricing, member of waterwise, subsidy, restrictions, DCP rainwater tanks required in new developments. | | Yes | 115 | 175 | 27* | 127 | 846 | 156 | 140 | 130 | | | | | | | |
| Sydney Water | Yes | Yes | Yes | Yes | 1500 | Yes | Yes | Full pay-for-use pricing, member of waterwise, rainwater tank subsidy, restrictions, retrofit program, public education program, leakage reduction, effluent reuse. | Yes | Yes | 201 | | 82 | 205 | 505,650 | 0 | 0 | 73 | | | | | | | |
| 13 Tamworth Regional | Yes | Yes | Yes | Yes | 500 | Yes | No | Full pay-for-use pricing, billing 4 times/a, member of waterwise, water restrictions, public education program, separate metering for new multi-unit developments, water management plan for premises. Under development - price control, community awareness, residential refit program, water loss management, water conservation including rainwater tank, outdoor watering, effluent reuse and stormwater harvesting. | Yes | Yes | 116 | 174 | 64 | 256 | 9,442 | 1,170 | 1,016 | 140 | | | | | | | |
| 69 Temora (No WS) | | | | | | | Yes | Effluent reuse. | | | | | | | 80 | | | | | | | | | | |
| 68 Tenterfield | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, water restrictions, public education program, effluent reuse, leakage reduction program, retrofit program. | Yes | Yes | 174 | 200 | 42* | 138 | 468 | 42 | 25 | 30 | | | | | | | |
| 93 Tumburumba | No | Yes | Yes | Yes | 1500 | No | No | Full pay-for-use pricing, restrictions, public education program. | Yes | Yes | 137 | 230 | 43* | 177 | 302 | 60 | 24 | | Y | | | | | | |
| 43 Tumut | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, restrictions, public education program, metering. | Yes | Yes | 125 | 192 | 67* | 201 | 1,453 | 130 | 78 | 40 | Y | | | | | | |
| 6 Tweed | Yes | No | No | No | | Yes | No | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 165 | 250 | 75 | 176 | 10,452 | 1,500 | 773 | 90 | Y | Y | | | | | |
| 45 Upper Hunter | Yes | Yes | Yes | Yes | 400 | Yes | No | | Yes | Yes | 121 | 173 | 71* | 448 | 3,045 | 291 | 175 | 120 | Y | | | | | | |
| 73 Upper Lachlan | Yes | No | No | No | | No | No | | Yes | Yes | 195 | 260 | 30* | 71 | 296 | 73 | 18 | 30 | | | | | | | |
| 85 Uralla | No | No | No | No | | No | No | Full pay-for-use pricing, restrictions, considering retrofit program. | | Yes | 135 | | 41* | 127 | 300 | 68 | 31 | 70 | | | | | | | |
| 107 Urana (No WS) | | | | | | | No | | | | | | | | | | | | Y | | | | | | |
| 9 Wagga Wagga (No WS) | | | | | | | Yes | | | | | | | 226 | | | | | Y | | | | | | |
| 88 Wakool (Dual Supply) | | | | | | | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 90 | 142 | 73* | 205 | 1,102 | 38 | 23 | 40 | | | | | | | |
| 98 Walcha | No | No | No | No | | No | Yes | Full pay-for-use pricing, member of waterwise, restrictions. | | | 200 | 294 | 71* | 171 | 213 | 21 | 13 | 40 | Y | | | | | | |
| 79 Walgett (Dual Supply) | No | No | No | No | | Yes | No | Introducing full pay-for-use pricing, member of waterwise, considering rainwater tank subsidy, restrictions, public education program, proposing introduction of water meters. | Yes | Yes | | | | 169 | 1,664 | 47 | 28 | | Y | | | | | | |
| 96 Warren (Dual Supply) | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 87 | 131 | 59* | 300 | 719 | 102 | 61 | 170 | | | | | | | |
| 55 Warrumbungle | No | No | No | No | | Yes | No | | Yes | Yes | 106 | 127 | 42* | 190 | 807 | 81 | 48 | 40 | | | | | | | |
| 95 Weddin (No WS) | | | | | | | Yes | | | | | | | 36 | | | | | Y | | | | | | |
| 57 Wellington | Yes | Yes | No | No | | Yes | Yes | Full Pay-for-use pricing, member of waterwise, restrictions, public education program. | Yes | Yes | 164 | 197 | 63* | 209 | 1,184 | 318 | 246 | 220 | Y | Y | | | | | |
| 74 Wentworth (Dual Supply) | Yes | No | No | No | | No | No | Full pay-for-use pricing, restrictions. | Yes | Yes | 115 | 270 | 59* | 113 | 1,539 | 614 | 55 | 80 | | | | | | | |
| 16 Wingecarribee | Yes | No | No | No | | Yes | Yes | Full pay-for-use pricing, customer billing 4 times/a, member of waterwise, restrictions, showerhead retrofit program, public education program. | Yes | Yes | 136 | 202 | 71 | 190 | 4,862 | 628 | 540 | 90 | Y | Y | | | | | |
| 2 Wyong | Yes | Yes | Yes | Yes | 1000 | Yes | Yes | Full pay-for-use pricing, residential retrofit program, industrial/commercial water usage audits, retrofit of Council owned facilities, leak detection program, restrictions, improved operational procedures, promotion of effluent reuse schemes, development of groundwater schemes, rainwater tank retrofitting (residential, schools - both subsidised and Council properties), require rainwater tanks for new residential properties and public education programs. | Yes | Yes | 187 | | 73* | 154 | 13,900 | 988 | 644 | 30 | Y | Y | | | | | |
| 56 Yass Valley | Yes | Yes | Yes | Yes | 200 | Yes | No | Full pay-for-use pricing, higher access charges for larger services, member of waterwise, rainwater tank rebate, water restrictions, free supply of water restrictors, customer billing 3 times/a, public education, compulsory rainwater tanks for new dwellings and encourages retrofitting etc. | Yes | Yes | 225 | | 62* | 176 | 838 | 184 | 100 | 90 | Y | Y | | | | | |
| 49 Young (Reticulator) | | | | | | Yes | Yes | Full pay-for-use pricing, billing 4 times/a, building code program, member of waterwise, public education program, some stormwater reuse, separate metering of new and some existing multi-unit developments, leak reduction program. | Yes | Yes | 180 | 270 | 71* | 222 | 1,523 | 151 | 90 | 60 | | | | | | | |

Percent "Yes" (Retail) 76% 36% 28% 30% 32% 82% 51%

Percent reporting "YES" (Retail ie. excluding Bulk Suppliers) 89% 93%

Percent reporting completion of IWCM Evaluation Strategy 53% 28%

Table 9: Water supply – utility characteristics (continued)

| WATER UTILITY | ASSESSMENTS - CONNECTIONS - POPULATION | | | | | | | | | | | | | | ASSETS | | | | | | | | | | WORKFORCE | | | | | | | | | | | | | | |
|---|--|---------|---------|----------------------------|---|----------------------------------|---|---|---|-------------------------------------|-------------|-------------------------|------------|----------|--------------|----------------|---------------------|----------------------------------|-----------------------|-----------|-----------|------------------|----------------------------------|---|-----------|----------------------|------------------|-----------------------|--------------|----------|-----------|-------|---------------------|---------|-----------|---------|---------------------------|---------------------------|-------------------------|
| | Total No of Assessments | | | No. of Service Connections | Connected Properties - Total | | Connected Properties - Residential | | | New Residential Dwellings Connected | | | Population | | | Transfer Mains | Trunk + Retic Mains | Properties Served per km of Main | Water Treatment Works | Dams | Bores | Pumping Stations | Pumping Stations / 100km of Main | Capital Expenditure (Assets, Renewals, Plant/Equip) | | Capital Works Grants | Total Work Force | % Undergoing Training | Out-sourcing | Injuries | Days Lost | | | | | | | | |
| | | | | | (Ratio of Connected Properties to Assessment) | Connected Properties (18) x (19) | (Ratio of Residential Assessments to Total Assessments) | (Ratio of Residential Connections to Residential Assessments) | Connected Residential Properties (18)x(21)x(22) | (%) | (Permanent) | (Peak (% of Permanent)) | (km) | (km) | (20) / (25a) | | | | | | | | | (Providing Full Treatment) (No.) | (No.) | | | | | | (No.) | (No.) | (30) / ((25) / 100) | \$/prop | Total \$M | (\$000) | Employees/ 000 properties | (2 or more days per year) | (% of Maintenance Cost) |
| | (18) | (18a) | (19) | (20) C 4 | (21) | (22) | (22a) C 2 | (22b) | (23) C 1 | (24) | (25) | (25a) A 2 | (26) A 3 | (27) A 1 | (28) | (29) | (30) | (30a) | (31) F28 | (31a) F14 | (31b) F26 | (32) | (34) | (37) | (38) | (39) | (40a) | (40b) | | | | | | | | | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | | | | | | | | |
| 42 Corowa | 5,160 | 5,150 | 5,400 | 4,900 | 0.93 | 5,030 | 0.91 | 0.93 | 4,560 | 1.7 | 0.5 | 1.1 | 10,200 | 10,200 | 9,600 | 200 | 2 | 161 | 31 | 3 | | | | 8 | 5 | 312 | 1.4 | | | 1.0 | 100 | | | 1 | 2 | 4 | | | |
| 43 Tumut | 4,470 | 4,640 | 4,670 | 4,900 | 0.95 | 4,440 | 0.87 | 0.95 | 3,870 | 2.1 | 1.8 | 0.2 | 11,700 | 11,700 | 8,600 | 140 | | 172 | 26 | 5 | 1 | 4 | 12 | 7 | | | | | 1.6 | 57 | | | 1 | 2 | 26 | 2 | | | |
| 44 Gunnedah (Groundwater) | 4,440 | 4,440 | 4,550 | 4,460 | 1.02 | 4,640 | 0.90 | 1.02 | 4,180 | 0.8 | 0.2 | 0.3 | 10,500 | 10,600 | 10,700 | 110 | 42 | 156 | 30 | 0 | | 17 | 21 | 13 | | | 155 | 0.7 | | | 1.3 | 100 | 5 | 2 | 3 | 4 | 0 | | |
| 45 Upper Hunter | 4,560 | 4,560 | 4,760 | 3,900 | 0.92 | 4,380 | 0.91 | 0.93 | 4,030 | 3.6 | 1.7 | 1.9 | 9,000 | 9,100 | 9,200 | 100 | | 142 | 31 | 4 | 1 | 8 | 11 | 8 | | | 218 | 1.0 | | | 2.1 | 100 | 5 | 4 | 9 | 178 | 9 | | |
| 46 Narrabri (Groundwater) | 4,420 | 4,460 | 4,470 | 3,980 | 0.98 | 4,380 | 0.84 | 0.98 | 3,680 | 0.5 | 0.2 | 0.6 | 10,700 | 10,700 | 10,700 | 100 | | 112 | 39 | 0 | | 11 | 12 | 11 | | | 52 | 0.2 | | | 1.8 | 100 | | | 4 | 0 | 2 | 0 | |
| 47 Bellington (Unfiltered) | 4,210 | 4,230 | 4,260 | 4,260 | 0.95 | 4,040 | 0.90 | 0.95 | 3,630 | 0.6 | 0.2 | 0.7 | 9,200 | 9,200 | 9,300 | 100 | 4 | 164 | 25 | 2 | 1 | 4 | 6 | 4 | | | 165 | 0.7 | 246 | | | 1.5 | 100 | 5 | 2 | 2 | 7 | 1 | |
| 48 Leeton | 4,320 | 4,250 | 4,340 | 4,340 | 0.92 | 3,990 | 0.86 | 0.92 | 3,430 | 1.5 | 0.4 | | 8,600 | 8,700 | 8,800 | 110 | 2 | 147 | 27 | 3 | 3 | | 6 | 4 | | | 120 | 0.5 | | | 1.8 | 57 | | | 5 | | | | |
| 49 Young (Reticulator) | 4,170 | 4,410 | 4,450 | 3,960 | 1.04 | 4,630 | 0.84 | 1.04 | 3,880 | 1.6 | 0.6 | | 9,100 | 9,200 | 9,200 | | | 145 | 32 | | | | | | | | 12 | 0.1 | | | | | | | | | | | |
| 50 Cooma-Monaro | 3,760 | 4,030 | 4,050 | 3,780 | 0.95 | 3,840 | 0.86 | 0.95 | 3,320 | 0.3 | | 0.3 | 7,600 | 7,600 | 7,000 | 140 | | 130 | 30 | 1 | | 4 | 7 | 5 | | | 852 | 3.3 | | | 2.3 | 89 | | | 2 | 1 | 9 | 0 | |
| 51 Forbes | 3,340 | 3,500 | 3,600 | 3,540 | 1.01 | 3,640 | 0.86 | 1.01 | 3,120 | 0.7 | 0.3 | 0.8 | 7,800 | 7,700 | 7,600 | 110 | 10 | 130 | 28 | 1 | | 2 | 6 | 5 | | | 301 | 1.1 | | | 2.2 | 25 | 25 | | | 1 | | | |
| 52 Snowy River (Unfiltered) | 2,730 | 2,860 | 2,930 | 2,750 | 1.43 | 4,190 | 0.90 | 1.43 | 3,760 | 0.8 | 2.9 | 2.0 | 4,700 | 4,000 | 4,100 | 380 | 15 | 137 | 31 | 7 | | | 9 | 7 | | | 86 | 0.4 | | | 1.4 | 100 | 20 | | | | | | |
| 53 Berrigan (Dual Supply) | 3,560 | 3,560 | 3,590 | 3,250 | 0.98 | 3,520 | 0.88 | 0.98 | 3,110 | 3.3 | 1.2 | 1.1 | 6,900 | 6,600 | 6,700 | 110 | 4 | 216 | 16 | 4 | 4 | | 8 | 4 | | | 387 | 1.4 | 305 | | | 1.6 | 100 | 7 | 2 | 3 | 9 | 1 | |
| 54 Deniliquin | 3,320 | 3,480 | 3,520 | 3,560 | 0.96 | 3,380 | 0.88 | 0.95 | 2,940 | 0.9 | 0.1 | 0.0 | 8,000 | 8,000 | 8,000 | 150 | 1 | 148 | 23 | 1 | | 1 | 4 | 3 | | | 230 | 0.8 | 14 | | | | | | | | | | |
| 55 Warrumbungle | 3,310 | 3,330 | 3,330 | 3,140 | 0.99 | 3,300 | 0.85 | 0.97 | 2,740 | 0.6 | 0.1 | 1.2 | 5,900 | 5,900 | 5,900 | 100 | | 148 | 22 | 4 | 1 | 6 | 8 | 5 | | | 389 | 1.3 | 460 | | | 3.0 | 50 | | | 0 | | | |
| 56 Yass Valley | 3,070 | 3,100 | 3,150 | 2,950 | 0.98 | 3,090 | 0.90 | 0.98 | 2,780 | 2.0 | 0.8 | 1.5 | 6,700 | 6,800 | 6,600 | 120 | 2 | 159 | 19 | 1 | 1 | 5 | 12 | 8 | | | 436 | 1.3 | 277 | | | 1.8 | 55 | 8 | | | 15 | | |
| <i>Medians (% of LWUs basis) or totals 3,001 to 10,000 Properties</i> | | | 148,260 | | | 143,720 | | | 319,800 | | | 310 | | | 6,432 | | | 27 | | | 218 | | | 1.8 | | | 2 | | | 2 | | | | | | | | | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 Wellington | 2,920 | 2,970 | 2,960 | 3,080 | 0.98 | 2,900 | 0.89 | 0.98 | 2,570 | 0.4 | 0.2 | 0.4 | 6,300 | 6,500 | 6,500 | 100 | 5 | 103 | 28 | 2 | | 2 | 7 | 7 | | | 354 | 1.0 | 60 | | | 1.7 | 40 | 3 | | 0 | | | |
| 58 Cootamundra (Reticulator) | 2,910 | 2,930 | 2,950 | 3,010 | 0.99 | 2,920 | 0.87 | 0.99 | 2,550 | 0.5 | 0.3 | 0.7 | 7,300 | 7,500 | 7,600 | 110 | | 92 | 32 | 0 | | | | | | | | | | | 0.7 | 100 | | | 1 | 1 | 5 | 1 | |
| 59 Lachlan | 2,620 | 2,760 | 2,770 | 2,700 | 1.02 | 2,820 | 0.78 | 1.02 | 2,200 | | 0.4 | 0.4 | 5,500 | 5,500 | 5,400 | 110 | 3 | 225 | 13 | 3 | 4 | 1 | 8 | 4 | | | | | | 1.8 | 100 | 21 | | | | | | | |
| 60 Glen Innes Severn | 3,180 | 3,310 | 3,330 | 3,320 | 0.90 | 3,000 | 0.86 | 0.91 | 2,600 | 0.6 | 0.2 | 0.6 | 6,500 | 6,500 | 6,200 | 120 | 5 | 102 | 29 | 1 | | | 2 | 2 | | | 43 | 0.1 | 53 | | | 1.3 | 100 | | | 1 | 0 | 2 | 0 |
| 61 Liverpool Plains | 2,580 | | 2,750 | 2,540 | 0.98 | 2,690 | 0.96 | 0.98 | 2,590 | | | | 5,000 | 5,700 | 5,700 | 110 | 31 | 102 | 26 | 1 | 1 | 10 | 14 | 14 | | | 864 | 2.3 | 731 | | | | | | | | | | |
| 62 Narromine (Groundwater) | 2,200 | 2,330 | 2,210 | 2,220 | 0.95 | 2,100 | 0.88 | 0.95 | 1,850 | 0.3 | 0.2 | 0.5 | 5,400 | 4,800 | 4,900 | 130 | 5 | 60 | 35 | 3 | 2 | 15 | 3 | 5 | | | 64 | 0.1 | | | 2.4 | 80 | 9 | | | | | | |
| 63 Narrandera (Groundwater) | 2,190 | 2,240 | 2,250 | | 0.92 | 2,070 | 0.85 | 0.92 | 1,760 | | | | 4,800 | 4,800 | 4,800 | 110 | | 66 | 31 | 0 | | 3 | 3 | 5 | | | 24 | 0.1 | 7 | | | | | | | | | | |
| 65 Murray (Dual Supply) | 2,800 | 3,090 | 2,900 | 2,640 | 0.95 | 2,760 | 0.88 | 0.95 | 2,430 | 8.3 | 1.0 | 1.2 | 5,900 | 6,000 | 6,100 | 210 | 7 | 137 | 20 | 2 | | | 8 | 6 | | | 119 | 0.3 | 20 | | | 1.4 | 100 | | | | | | |
| 67 Cobar | 2,270 | 2,300 | 2,370 | 2,200 | 0.95 | 2,250 | 0.83 | 0.95 | 1,870 | 3.8 | | 0.5 | 4,500 | 7,000 | 7,000 | 110 | 212 | 116 | 19 | 1 | 5 | 1 | 6 | 5 | | | 138 | 0.3 | | | 4.4 | 100 | | | | | | | |
| 66 Cobar WB | | | | | | | | | | | | | | | | | 336 | 0 | 0 | 3 | | 3 | | | | | | | | | | | | 100 | | | | | |
| 68 Tenterfield | 1,880 | 2,090 | 2,070 | 2,050 | 0.95 | 1,960 | 0.87 | 0.95 | 1,710 | 1.9 | 0.4 | 0.9 | 3,600 | 3,600 | 3,600 | | | 69 | 28 | 1 | 1 | 1 | 2 | 3 | | | 1,139 | 2.2 | 898 | | | 3.1 | 100 | 3 | | | | | |
| 70 Kyogle | 2,000 | 1,930 | 1,940 | 2,020 | 0.95 | 1,840 | 0.82 | 0.95 | 1,500 | 0.7 | 0.2 | 0.8 | 3,700 | 3,700 | 3,700 | 120 | 15 | 56 | 33 | 2 | 1 | 3 | 5 | 9 | | | 669 | 1.2 | 621 | | | 3.8 | 100 | 5 | 2 | 7 | 90 | 6 | |
| 71 Palerang | 1,980 | 2,020 | 2,110 | 2,030 | 0.95 | 2,000 | 0.89 | 0.95 | 1,790 | 5.0 | | 2.2 | 3,800 | 4,500 | 4,600 | 100 | 6 | 45 | 44 | 2 | 2 | 4 | 3 | 7 | | | 777 | 1.6 | 1,349 | | | 1.5 | 100 | | | | | | |
| 73 Upper Lachlan | 1,850 | 1,920 | 1,930 | 1,800 | 1.00 | 1,930 | 0.87 | 1.00 | 1,680 | 0.6 | 0.1 | 0.9 | 2,900 | 2,900 | 2,900 | 110 | 2 | 64 | 30 | 1 | 2 | 7 | 3 | 5 | | | 377 | 0.7 | | | 2.6 | 100 | 2 | 1 | 0 | 20 | 2 | | |
| 74 Wentworth (Dual Supply) | 2,350 | 2,360 | 2,490 | 1,820 | 0.95 | 2,370 | 0.92 | 0.95 | 2,170 | | | 0.9 | 4,000 | 4,000 | 4,000 | 130 | | 167 | 14 | 3 | | | 8 | 5 | | | 20 | 0.0 | | | 3.0 | 100 | | | 2 | | | | |
| 75 Coonamble (Groundwater) | 1,570 | 1,640 | 1,660 | 1,640 | 1.02 | 1,690 | 0.87 | 1.02 | 1,470 | 0.1 | 0.2 | 0.1 | 3,200 | 3,200 | 3,100 | 170 | | 64 | 26 | 0 | | 6 | | | | | 77 | 0.1 | | | 3.5 | 100 | | | 2 | 3 | 43 | 3 | |
| 76 Harden (Reticulator) | 1,830 | 1,820 | 1,940 | 1,850 | 0.96 | 1,870 | 0.67 | 0.95 | 1,240 | 0.7 | 0.4 | 0.2 | 3,900 | 3,900 | 3,900 | 100 | | 170 | 11 | 0 | | | 3 | 2 | | | 41 | 0.1 | | | 2.1 | 113 | 1 | 2 | 3 | 12 | 1 | | |
| 79 Walgett (Dual Supply) | 1,870 | 1,870 | 2,260 | 1,460 | 0.85 | 1,920 | 0.83 | 0.85 | 1,600 | | | | 6,600 | 6,600 | 6,300 | 210 | 6 | 102 | 19 | 2 | | 6 | 7 | 7 | | | 209 | 0.4 | 71 | | | 2.1 | | | | | | | |
| 80 Greater Hume | 1,750 | 1,780 | 1,870 | 1,740 | 0.95 | 1,780 | 0.81 | 0.95 | 1,450 | 1.5 | 0.6 | 2.8</ | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 9: Water supply – utility characteristics (continued)

| WATER UTILITY | ASSESSMENTS - CONNECTIONS - POPULATION | | | | | | | | | | | | ASSETS | | | | | | | | | | WORKFORCE | | | | | | | | | | | | |
|--|--|---------|---------|--|---|----------------------------------|---|---|---|-------------------------------------|-------------|------------------------|---|----------|--------------|---|---------------------------------|----------------------------------|-----------------------|-----------|-----------|---|----------------------------------|--|---------|----------------------|------------------|-----------------------|--------------|----------|-----------|-------|---------------------|---------|-----------|
| | Total No of Assessments | | | No. of Service Connections | Connected Properties - Total | | Connected Properties - Residential | | | New Residential Dwellings Connected | | | Population | | | Transfer Mains | Trunk + Retic Mains | Properties Served per km of Main | Water Treatment Works | Dams | Bores | Pumping Stations | Pumping Stations / 100km of Main | Capital Expenditure (Asses, Renewals, Plant/Equip) | | Capital Works Grants | Total Work Force | % Undergoing Training | Out-sourcing | Injuries | Days Lost | | | | |
| | | | | | (Ratio of Connected Properties to Assessment) | Connected Properties (18) x (19) | (Ratio of Residential Assessments to Total Assessments) | (Ratio of Residential Connections to Residential Assessments) | Connected Residential Properties (18)x(21)x(22) | (%) | (Permanent) | (Peak (% of Permanent) | (km) | (km) | (20) / (25a) | | | | | | | | | (Providing Full Treatment) (No.) | (No.) | | | | | | (No.) | (No.) | (30) / ((25) / 100) | \$/prop | Total \$M |
| | (18) | (18a) | (19) | (20) C 4 | (21) | (22) | (22a) C 2 | (22b) | (23) C 1 | (24) | (25) | (25a) A 2 | (26) A 3 | (27) A 1 | (28) | (29) | (30) | (30a) | (31) F28 | (31a) F14 | (31b) F26 | (32) | (34) | (37) | (38) | (39) | (40a) | (40b) | | | | | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | | | | | |
| <i>LWUs with 200 - 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | 1,530 | 1,530 | 1,530 | 1,670 | 0.95 | 1,460 | 0.87 | 0.95 | 1,260 | 0.4 | 0.1 | 0.1 | 2,600 | 2,600 | 2,600 | 130 | 87 | 17 | 1 | 9 | 1 | 1 | 473 | 0.7 | 2.7 | 100 | 10 | | | | | | | |
| 82 | Gloucester | 1,790 | 1,760 | 1,810 | 1,660 | 0.95 | 1,720 | 0.84 | 0.95 | 1,440 | 2.3 | 1.3 | 2.6 | 3,100 | 3,200 | 3,200 | 120 | 63 | 27 | 1 | 1 | 6 | 10 | 745 | 1.3 | 1.2 | 100 | 75 | | | | | | | |
| 83 | Oberon (Reticulator) | 1,290 | 1,300 | 1,380 | 1,360 | 1.01 | 1,390 | 0.83 | 1.02 | 1,160 | 0.5 | 0.2 | | 3,000 | 3,000 | 3,100 | 130 | 39 | 36 | 1 | | | 0 | 125 | 0.2 | 0.7 | 400 | 8 | | | | | | | |
| 84 | Gilgandra (Groundwater) | 1,400 | 1,400 | 1,380 | 1,350 | 0.98 | 1,350 | 0.89 | 0.98 | 1,200 | 0.4 | 0.2 | 0.5 | 2,900 | 2,900 | 2,900 | 110 | 3 | 51 | 27 | 1 | - | 5 | 1 | 2 | 370 | 0.5 | 1.1 | 67 | | 3 | | | | |
| 85 | Uralla | 1,560 | 1,560 | 1,520 | 1,160 | 1.01 | 1,540 | 0.90 | 1.02 | 1,390 | 1.8 | 0.3 | 0.6 | 2,600 | 2,600 | 2,400 | 100 | 37 | 41 | 1 | 1 | | 1 | 3 | 37 | 0.1 | 1.3 | 100 | 8 | 2 | 3 | 8 | 2 | | |
| 86 | Hay (Dual Supply) | 1,330 | 1,330 | 1,330 | 2,430 | 0.98 | 1,310 | 0.88 | 0.98 | 1,150 | 0.4 | 0.2 | 0.3 | 2,900 | 2,900 | 2,900 | 100 | 2 | 47 | 28 | 1 | | 3 | 6 | 461 | 0.6 | 1.5 | 100 | | | | | | | |
| 87 | Bourke (Dual Supply) | 1,180 | 1,200 | 1,190 | 1,010 | 1.00 | 1,190 | 0.85 | 1.00 | 1,010 | 0.4 | 0.2 | 0.5 | 2,100 | 2,000 | 2,000 | 100 | 27 | 44 | 1 | 1 | 2 | 7 | 141 | 0.2 | 2.5 | 100 | | | | | | | | |
| 88 | Wakool (Dual Supply) | 1,470 | 1,480 | 1,500 | 1,230 | 0.95 | 1,430 | 0.74 | 0.95 | 1,050 | 1.2 | 0.0 | | 2,600 | 2,500 | 2,800 | 100 | 161 | 9 | 5 | - | - | - | 41 | 0.1 | | | | | | | | | | |
| 89 | Bogan | 1,030 | 1,020 | 1,020 | 1,080 | 1.01 | 1,030 | 0.87 | 1.01 | 900 | 0.3 | 0.0 | 0.2 | 2,500 | 2,500 | 2,500 | 140 | 3 | 48 | 22 | 1 | | 1 | 2 | 42 | 0.0 | 15 | 2.9 | 0 | 2 | | | | | |
| 90 | Guyra | 1,230 | 1,230 | 1,270 | 1,120 | 0.95 | 1,200 | 0.88 | 0.95 | 1,060 | 0.3 | 0.7 | | 2,900 | 3,000 | 3,000 | 100 | 10 | 62 | 19 | 1 | 2 | | 1 | 2 | 45 | 0.1 | 2.5 | 67 | 3 | | 2 | | | |
| 91 | Cabonne | 1,210 | 1,210 | 1,210 | 1,110 | 0.95 | 1,150 | 0.86 | 0.95 | 990 | 0.6 | 0.2 | 0.0 | 2,200 | 2,200 | 2,200 | 100 | 50 | 42 | 28 | 1 | 3 | 5 | 4 | 10 | 504 | 0.6 | 282 | 4.4 | 100 | | 2 | | | |
| 92 | Carrahoon (Groundwater) | 1,070 | 1,190 | 1,190 | 1,070 | 0.95 | 1,130 | 0.81 | 0.95 | 910 | 0.6 | 0.4 | 1.1 | 2,000 | 2,000 | 2,000 | 110 | 10 | 476 | 2 | 4 | 3 | 9 | 20 | 4 | 187 | 0.2 | 263 | 5.3 | 100 | 1 | | | | |
| 93 | Tumbarumba | 1,200 | 1,200 | 1,210 | | 0.95 | 1,150 | 0.88 | 0.95 | 1,010 | | | 1.6 | 2,000 | 2,000 | 2,000 | 170 | 66 | 17 | 0 | 1 | 1 | 2 | 3 | 197 | 0.2 | 4.4 | 40 | | | | | | | |
| 94 | Gundagai | 1,030 | 1,030 | 1,030 | 1,090 | 0.85 | 880 | 0.86 | 0.84 | 740 | 1.9 | 0.7 | 1.6 | 2,400 | 2,400 | 2,400 | 210 | 36 | 24 | 1 | | | 2 | 6 | 56 | 0.0 | 2.3 | 100 | 5 | | 2 | | | | |
| 96 | Warren (Dual Supply) | 1,060 | 1,060 | 1,050 | 1,000 | 0.91 | 960 | 0.89 | 0.90 | 840 | 0.2 | 0.4 | 0.2 | 1,800 | 1,800 | 1,800 | 100 | 7 | 53 | 18 | 0 | 5 | 2 | 4 | | | 2.6 | 100 | | | | | | | |
| 97 | Bombala | 890 | 890 | 890 | 850 | 0.95 | 840 | 0.87 | 0.95 | 740 | 0.4 | 0.1 | 0.1 | 1,900 | 1,900 | 1,900 | 110 | 4 | 38 | 22 | 2 | | 3 | 8 | 27 | 0.0 | 2.4 | 100 | | | | | | | |
| 98 | Walcha | 880 | 880 | 900 | 930 | 1.01 | 910 | 0.83 | 1.01 | 750 | 0.5 | 0.3 | 1.1 | 1,700 | 1,700 | 1,700 | 110 | 17 | 57 | 16 | 1 | 1 | | 3 | 5 | 41 | 0.0 | 2.2 | 100 | | | | | | |
| 100 | Bairanald (Dual Supply) | 850 | 910 | 950 | 880 | 0.95 | 900 | 0.83 | 0.95 | 750 | 3.0 | 0.3 | 1.6 | 2,000 | 2,000 | 2,000 | 100 | 2 | 30 | 30 | 2 | | 3 | 10 | 34 | 0.0 | 1.1 | 100 | 9 | | | | | | |
| 101 | Murrumbidgee (Groundwater) | 820 | 880 | 880 | 990 | 1.03 | 900 | 0.89 | 1.03 | 810 | 2.5 | | | 1,700 | 1,700 | 1,700 | | 29 | 31 | 1 | - | - | - | 185 | 0.2 | | | | | | | | | | |
| 103 | Central Darling (Dual Supply) | 690 | 690 | 730 | 680 | 1.00 | 730 | 0.87 | 1.00 | 630 | 0.3 | 0.1 | | 1,400 | 1,400 | 1,400 | 110 | 66 | 11 | 2 | 4 | 2 | 8 | 12 | | | | | | | | | | | |
| 104 | Boorowa | 660 | 720 | 660 | | 0.94 | 620 | 0.98 | 0.94 | 610 | 2.0 | | 0.7 | 1,200 | 700 | 690 | 730 | 58 | 11 | 1 | 1 | 1 | 1 | 2 | 169 | 0.1 | 4.8 | 67 | | | | | | | |
| 105 | Brewarrina | 560 | 560 | 580 | 540 | 0.86 | 490 | 0.89 | 0.86 | 440 | 0.0 | 0.1 | 0.7 | 1,500 | 1,500 | 1,500 | 110 | 7 | 38 | 13 | 2 | 1 | 1 | 2 | 5 | 140 | 0.1 | 46 | 7.1 | 100 | | 1 | 1 | 3 | 0 |
| 106 | Jenilderie (Dual Supply) | 500 | 500 | 500 | 510 | 0.93 | 470 | 0.77 | 0.93 | 360 | 0.6 | 0.3 | 0.6 | 770 | 900 | 900 | 100 | 3 | 44 | 11 | 1 | | | 1 | 2 | 103 | 0.0 | 13 | 4.3 | 100 | | | | | |
| <i>Medians (% of LWUs basis) or totals 200 to 1,500 Properties</i> | | 25,710 | | | 24,750 | | | 49,590 | | | 118 | 1,653 | 22 | | | | 140 | 2.5 | | 2 | | 2 | | | | | | | | | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | | | | | | | | | <i>New res dwellings 0.9 %</i> | | | <i>Properties served per km of main</i> | | | 28 | <i>Capital Expenditure/prop</i> | | | \$180 | 1.8 | | | | | | | | | | | | | | |
| <i>Median All LWUs (Statewide basis)</i> | | | | | | | | | | 1 % | | | 32 | | | \$282 | | | 1.4 | | | | | | | | | | | | | | | | |
| <i>Totals (excluding bulk suppliers)</i> | | | | 815,000 assessments | | | | | | Total Population 1.8 M | | | | | | 180 water treatment works (Note 1) | | | | | | Total WS Capital Expenditure \$380 M (including bulk suppliers) | | | | | | | | | | | | | |
| | | | | 796,000 connected properties | | | | | | | | | | | | 100 dams | | | | | | Reported No. of WS employees 1,390 | | | | | | | | | | | | | |
| | | | | 724,000 residential connected properties | | | | | | | | | | | | 37,600 km of main (includes bulk suppliers) | | | | | | | | | | | | | | | | | | | |

Notes: 1. In addition to these 180 water treatment works, the LWUs also have 105 chlorinators/aerators (see Appendix D1 on page 233).

Table 10: Water supply – asset management and water resource management

| WATER UTILITY | ASSET MANAGEMENT | | | | | | | | | | | | | | WATER RESOURCE MANAGEMENT | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------|-----------|------------|---|--|-------------|---------------------|---------|-----------------------------------|-----------------------|---------|-----------------|-----------------------|---------------------------|------------------|----------------------------|------------------------|----------------------------|---|---|--|---------|---------|---------------------------------|---|---|---------|---|-----|-----|-----|-----|-----|-----|-----|
| | Real Losses (Leakage) (see col (9) Table 8) | | | | | | Main Breaks | | | Unplanned Interruptions to Supply | | | Rehabilitations | | | Renewals | | Mains Maintenance Cost | Total Urban Water Supplied | | | Non-potable Urban Water Supplied | | | % Water Recycled (from Table 8) | | Peak Week to Average Consumption | | Average Annual Residential Water Supplied | | | | | | | |
| | (L/d per connection) | | (kL/km/d) | (ILI) | Reservoir Drop Test (RDT) Waste Metering (WM) or Night Flow Metering (NFZ) Z is No. of District Meter Areas | | | (per 100km of Main) | | | (per '000 properties) | | | Mains (km per 100 km) | Service Connections (%) | Water Meters (%) | (\$'000 per 100km of Main) | (% of CRC) | (\$'000 per 100km of Main) | Potable + Non-potable + Recycled (Excluding Bulk Water Exports) (ML) (from Table 8) | For outdoor uses or industry (Including Recycled) (ML) (from Table 8) | (Total Vol Recycled (Urban + Ag Use)/Total Urban Water Supplied) | (%) | | | From Tables 8 & 9 (1) - [(22a)] Potable (kL/property) | From Tables 8 & 9 [(1)+(11)+(12a)] - [(22a)] Potable+Nonpotable (kL/property) | | | | | | | | | |
| | (41) A 10 | (41a) A 11 | (41b) A 9 | Type (41c) | Year (41d) | Result % (41e) | (42) A 8 | (43) C 17 | (44) | (45) | (45a) | (46) | (47) | (48) | (49) W 11 | (50) | (51) | (53) | (56a) | (56) W12 | | | | | | | | | | | | | | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | | | | | | | |
| Sydney Water | 91 | 81 | 73 | 4.6 | 1.3 | | | 30 | 34 | 28 | 5 | 5 | 4 | | | | | 481,701 | 491,968 | 505,650 | | | | | | | | | 182 | 198 | 205 | | | | | |
| Hunter Water | 80 | 94 | 88 | 3.5 | 1.3 | | | 30 | 33 | 32 | 225 | 271 | 255 | | | | | 66,009 | 67,020 | 68,233 | | | | | | | | | 177 | 180 | 184 | | | | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford | 20 | 30 | 50 | 3.0 | 1.0 | - | - | 29 | 27 | 34 | 181 | 203 | 239 | 0.2 | 0.3 | 1.7 | | | | 319 | 12,100 | 12,600 | 13,600 | 68 | 14 | 2 | 3 | 126 | 133 | 135 | 140 | 146 | 135 | 140 | 146 | |
| 2 Wyong | 30 | 30 | 30 | 1.5 | 1.0 | 2004 | 5.0 | 4 | 9 | 6 | 39 | 61 | 61 | 0.1 | 0.8 | 2.5 | | | | 360 | 12,800 | 13,400 | 13,900 | 832 | 865 | 940 | 9 | 7 | 126 | 142 | 146 | 141 | 154 | 146 | 141 | 154 |
| 3 Shoalhaven | 80 | 60 | 70 | 2.1 | 1.0 | - | - | 9 | 14 | 9 | 59 | - | 39 | 0.7 | | 2.8 | | 62 | 0.2 | 69 | 12,400 | 15,000 | 15,200 | 147 | 2,012 | 2,332 | 29 | 35 | 151 | 126 | 144 | 152 | 145 | 144 | 152 | 145 |
| 4 Rous (Bulk Supplier) (NO SGE) | | | | 3.5 | | - | - | 24 | 16 | 21 | 2 | 2 | 2 | 3.2 | 0.0 | 0.5 | | 2948 | 0.8 | 346 | 630 | 430 | 1,570 | | | | | | | | | | | | | |
| 5 MidCoast (Unfiltered) | 90 | 100 | 90 | 2.2 | 1.1 | NF[34] | 2008 | 11.0 | 9 | 5 | 3 | | | 0.2 | | | | | 232 | 8,940 | 9,170 | 9,160 | 4 | | | 2 | 11 | 158 | 144 | 149 | 150 | 154 | 149 | 150 | 154 | |
| 6 Tweed | 70 | 60 | 90 | 3.1 | 1.5 | - | - | 10 | 5 | 3 | 34 | 9 | 14 | 0.5 | 0.1 | 1.6 | 11189 | 14.1 | 201 | 9,030 | 9,210 | 10,500 | 262 | 645 | 778 | 8 | 9 | 125 | 147 | 174 | 180 | 176 | 174 | 180 | 176 | |
| 7 Port Macquarie-Hastings (Unfiltered) | 40 | 40 | 40 | 1.4 | 1.0 | - | - | 2 | 3 | 2 | 7 | 11 | 5 | 0.4 | 0.1 | 1.2 | 199 | 0.3 | 66 | 6,090 | 6,120 | 6,500 | 158 | 64 | 109 | 3 | 5 | 122 | 109 | 154 | 151 | 166 | 154 | 151 | 166 | |
| 8 Riverina (Groundwater) (NO SGE) | 130 | 60 | 50 | 0.9 | 1.0 | - | - | 13 | 14 | 10 | 54 | 34 | 39 | 0.3 | 0.1 | 19.1 | 139 | 0.9 | 50 | 14,800 | 17,100 | 15,900 | | | | | | 194 | 186 | 327 | 374 | 330 | 327 | 374 | 330 | |
| 10 Coffs Harbour (Unfiltered) | 50 | 50 | 50 | 1.7 | 1.0 | 2008 | - | 7 | 11 | 11 | 20 | 24 | 20 | 0.1 | 0.0 | 2.0 | 97 | 0.1 | 180 | 5,630 | 5,690 | 6,620 | 93 | | 346 | 23 | 16 | 116 | 121 | 169 | 165 | 186 | 169 | 165 | 186 | |
| 11 Albury City | 50 | 50 | 50 | 2.0 | 1.4 | - | - | 8 | 12 | 7 | | | | 0.6 | 0.1 | 5.0 | | | 130 | 5,730 | 6,890 | 6,800 | 6 | 8 | 96 | 100 | 201 | 212 | 193 | 222 | 220 | 193 | 222 | 220 | | |
| 12 Fish River WS (Unfiltered, Bulk Supplier) | | | | 11.0 | | - | - | 2 | 5 | 2 | | | | 0 | 1 | | | | | | 1,270 | 680 | 1,460 | | | | | | | | | | | | | |
| 13 Tamworth Regional | 200 | 190 | 140 | 4.2 | 5.0 | - | - | 28 | 12 | 5 | 7 | - | - | 0.1 | 0.3 | 6.3 | | | 195 | 8,470 | 9,270 | 9,440 | 150 | 157 | 88 | 36 | 38 | 218 | 187 | 192 | 226 | 256 | 192 | 226 | 256 | |
| 14 Clarence Valley | 100 | 50 | 120 | 2.3 | 1.1 | - | - | 19 | 10 | 16 | | | | 0.1 | - | 1.9 | 44 | 0.2 | 109 | 6,650 | 6,220 | 6,440 | 176 | 186 | 233 | 4 | 5 | 136 | 124 | 174 | 172 | 170 | 174 | 176 | 174 | |
| 15 Eurobodalla (Unfiltered) | 170 | 90 | 170 | 3.2 | 2.1 | - | - | 3 | 4 | 6 | 3 | 2 | 3 | 0.4 | | 4.4 | 92 | 0.3 | 79 | 4,440 | 4,000 | 4,320 | 184 | 171 | 281 | 8 | 10 | 176 | 145 | 119 | 129 | 116 | 119 | 129 | 116 | |
| 16 Wingecarribee | 70 | 110 | 90 | 2.3 | 1.0 | - | - | 9 | 8 | 12 | 60 | 46 | 61 | 0.4 | 0.0 | 1.4 | 157 | 0.3 | 68 | 4,240 | 4,830 | 4,860 | 54 | 64 | 73 | 2 | 2 | 212 | 173 | 168 | 183 | 190 | 168 | 183 | 190 | |
| 17 Queanbeyan (Reticulator) | 50 | 60 | 100 | 4.3 | 1.8 | RDT | 2007 | 12.0 | 5 | 1 | 0 | | | 0.5 | | 7.4 | 246 | 0.4 | 76 | 3,780 | 4,050 | 4,280 | | | | 1 | 1 | 136 | 133 | 188 | 198 | 200 | 188 | 198 | 200 | |
| 18 Dubbo | 150 | 180 | 160 | 5.2 | 3.4 | 2009 | - | 7 | 7 | 4 | 20 | 24 | 31 | 0.4 | | 3.8 | 71 | 0.2 | 191 | 7,350 | 8,210 | 7,690 | | | | 97 | 78 | 220 | 235 | 322 | 331 | 329 | 322 | 331 | 329 | |
| 19 Orange | 140 | | | 2.5 | | 2009 | 10.0 | 30 | 28 | 11 | 116 | 175 | - | 20.5 | 0.2 | 1.3 | 67 | 0.1 | 91 | 8,170 | 8,350 | 6,930 | 3,394 | 3,291 | 3,033 | 87 | 90 | 103 | 130 | 177 | 259 | 148 | 177 | 259 | 148 | |
| 20 Goulburn Mulwaree | 40 | 40 | 40 | 1.4 | 1.0 | - | - | 28 | 14 | 14 | | | | 1.0 | 1.4 | 7.8 | 232 | 0.3 | 246 | 2,360 | 2,480 | 2,210 | | | | 100 | 80 | 122 | 137 | 147 | 134 | 136 | 147 | 134 | 136 | |
| 21 Bathurst Regional | 80 | | 70 | 2.7 | 1.0 | - | - | 11 | 9 | 9 | 3 | 2 | 2 | 0.4 | 0.6 | 1.6 | 107 | 0.2 | 251 | 5,780 | 5,780 | 6,000 | 2 | 2 | 2 | 100 | 100 | 232 | 215 | 241 | 240 | 252 | 241 | 240 | 252 | |
| 22 Lismore (Reticulator) | 40 | 110 | 130 | 5.0 | 2.0 | - | - | 20 | 20 | 23 | 42 | 49 | 37 | 0.5 | 1.0 | 2.1 | 445 | 1.0 | | 3,330 | 3,520 | 3,790 | | | | 0 | 1 | | | 163 | 159 | 168 | 163 | 159 | 168 | |
| 23 Bega Valley (Unfiltered) | 80 | 60 | 60 | 1.2 | 1.0 | 2009 | 7.0 | 7 | 5 | 4 | | | | 0.7 | 0.1 | 5.0 | 131 | 0.4 | 132 | 3,700 | 3,990 | 4,210 | 457 | 556 | 613 | 46 | 41 | 158 | 151 | 144 | 154 | 165 | 144 | 154 | 165 | |
| 24 Ballina (Reticulator) | 40 | 120 | 200 | 6.2 | 3.2 | RDT | 2005 | 19.0 | 4 | 9 | 13 | | | 0.1 | 0.1 | 2.2 | 26 | 0.1 | 90 | 3,550 | 3,570 | 4,770 | 107 | 119 | 717 | 3 | 19 | | | 186 | 175 | 188 | 186 | 175 | 188 | |
| 25 Kempsey (Groundwater) | 120 | 80 | 60 | 1.3 | 1.0 | 2008 | 11.0 | 12 | 24 | 11 | 69 | 114 | 23 | 0.0 | 0.2 | 7.4 | 392 | 0.6 | 131 | 3,730 | 3,630 | 3,770 | 34 | 32 | 40 | 1 | 2 | 158 | 147 | 169 | 156 | 177 | 169 | 156 | 177 | |
| 26 Country Energy | 80 | 70 | 80 | 2.1 | 1.3 | - | - | 18 | 11 | 12 | | | | 0.6 | 0.1 | 0.7 | 531 | | 446 | 6,730 | 5,760 | 5,930 | 1,790 | 999 | 1,179 | 41 | 46 | 187 | 187 | 280 | 280 | 279 | 280 | 284 | 280 | |
| 27 Byron (Reticulator) | 50 | 50 | 100 | 4.1 | 2.6 | - | - | 8 | 8 | 12 | 10 | 9 | 11 | | 0.0 | 0.5 | | | 25 | 2,930 | 3,020 | 3,170 | 340 | 235 | 218 | 13 | 15 | | | 181 | 181 | 194 | 181 | 181 | 194 | |
| 28A Goldenfields (Reticulator) (NO SGE) | 100 | | 90 | 0.5 | 1.0 | - | - | 7 | 6 | 19 | 159 | | 117 | 1.3 | 0.3 | 4.5 | 64 | 1.1 | 45 | 4,940 | 5,530 | 5,160 | 130 | 121 | 127 | | | 326 | 319 | 252 | 294 | 256 | 252 | 298 | 259 | |
| 28B Goldenfields (Bulk Supplier) (NO SGE) | | | | | | | | 0 | 0 | | | | | | | | 1066 | 3.1 | 86 | | | | | | | | | | | | | | | | | |
| Medians (% of LWUs basis excl bulk suppliers) for > 10,000 Properties | 60 | 85 | | 2.3 | 1.1 | Note: ILI < 1.0 is meaningless & has been increased to 1.0 | | 9 | 9 | 10 | 39 | 24 | 27 | | | | 131 | | 131 | | | | | | | 9 | 15 | | | 174 | 175 | 177 | 174 | 176 | 177 | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 Armidale Dumaresq | 70 | 60 | 60 | 1.6 | 1.0 | - | - | 24 | 12 | 15 | | | | 0.6 | 4.5 | | 75 | 0.2 | 403 | 3,140 | 2,710 | 2,640 | 40 | 50 | 45 | 33 | 40 | 215 | 185 | 254 | 208 | 215 | 254 | 214 | 221 | |
| 30 Griffith | 110 | 120 | 120 | 2.2 | 1.0 | - | - | 15 | 16 | 19 | 27 | 24 | 24 | 1.2 | 0.2 | 3.0 | 289 | 1.2 | 36 | 7,010 | 6,670 | 7,740 | 629 | 630 | 748 | 11 | 9 | 264 | 189 | 548 | 537 | 560 | 548 | 566 | 584 | |
| 31 Lithgow | | 30 | 30 | 0.5 | 1.0 | - | - | 6 | 23 | | 13 | | | | | | 150 | | | 2,050 | 2,330 | 1,500 | | | | | | 115 | 160 | 173 | 135 | 160 | 173 | 135 | | |
| 32 Mid-Western Regional | 50 | 70 | 70 | 1.8 | 1.0 | 2010 | 6.0 | 8 | 2 | 5 | 34 | 49 | 56 | 0.1 | 0.1 | 3.2 | | | 262 | 2,210 | 1,760 | 2,540 | | | | 7 | 12 | 201 | 206 | 199 | 158 | 205 | 199 | 158 | 205 | |
| 33 Richmond Valley | 110 | | | 4.8 | | - | - | 9 | 5 | 15 | 4 | | | 1.9 | 2.1 | - | 540 | 1.2 | 136 | 3,010 | 3,090 | 3,180 | | | | 13 | 19 | 112 | 189 | 175 | 195 | 189 | 175 | 195 | | |
| 34 Nambucca (Groundwater) | 40 | 50 | 50 | 1.3 | 1.0 | 2010 | - | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 10: Water supply – asset management and water resource management (continued)

| WATER UTILITY | ASSET MANAGEMENT | | | | | | | | | | | | | | WATER RESOURCE MANAGEMENT | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------|-----------|--|--|----------------|---------------------|-----------------------|-----------------------------------|-------------------------|------------------|----------------------------|------------|----------------------------|---|---|--|---------|---------|----------------------------------|---|---|----------------------------------|---------|---|---------|---------|---------|-----|-----|-----|-----|-----|-----|-------|-----|-----|
| | Real Losses (Leakage) (see col (9) Table 8) | | | | | | Main Breaks | | Unplanned Interruptions to Supply | | Rehabilitations | | | Renewals | | Mains Maintenance Cost | Total Urban Water Supplied | | | Non-potable Urban Water Supplied | | % Water Recycled (from Table 8) | Peak Week to Average Consumption | | Average Annual Residential Water Supplied | | | | | | | | | | | | |
| | (L/d per connection) | (kL/km/d) | (LI) | Reservoir Drop Test (RDT) Waste Metering (WM) or Night Flow Metering (NF/Z) Z is No. of District Meter Areas | | | (per 100km of Main) | (per '000 properties) | Mains (km per 100 km) | Service Connections (%) | Water Meters (%) | (\$'000 per 100km of Main) | (% of CRC) | (\$'000 per 100km of Main) | Potable + Non-potable + Recycled (Excluding Bulk Water Exports) (ML) (from Table 8) | For outdoor uses of industry (Including Recycled) (ML) (from Table 8) | (Total Vol Recycled (Urban + Ag Use)/Total Urban Water Supplied) | (%) | (%) | (%) | From Tables 8 & 9 (1) + [(22a)] Potable (kL/property) | From Tables 8 & 9 [(1)+(11)-(12a)] - [(22a)] Potable-Nonpotable (kL/property) | | | | | | | | | | | | | | | |
| | (41) A 10 | (41a) A 11 | (41b) A 9 | Type (41c) | Year (41d) | Result % (41e) | (42) A 8 | (43) C 17 | (44) | (45) | (45a) | (46) | (47) | (48) | (49) W 11 | (50) | (51) | (53) | (53) | (53) | (56a) | (56) W12 | | | | | | | | | | | | | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | | | | | | | | | |
| 38 | Moree Plains (Groundwater) | 160 | 230 | 230 | 7.5 | 6.9 | | 2010 | - | 46 | 45 | 33 | 453 | 739 | 659 | 0.8 | 0.8 | 0.4 | | 397 | 9,720 | 9,010 | 3,530 | 4,944 | 4,300 | 348 | 76 | 65 | 102 | 180 | 936 | 946 | 946 | 936 | 1,960 | 619 | |
| 39 | Cowra | 90 | 150 | 150 | 2.1 | 1.8 | | - | - | 8 | 10 | 12 | 8 | 1 | 2 | 0.1 | 0.5 | 5.9 | | 132 | 2,060 | 2,420 | 2,790 | | 85 | | 100 | 100 | 196 | 155 | 198 | 193 | 202 | 198 | 211 | 202 | |
| 40 | Central Tablelands (NO SGE) | 50 | 50 | 50 | 0.5 | 1.0 | | - | - | 11 | 10 | 10 | 60 | 49 | 50 | 1.3 | 1.6 | 2.9 | | 47 | 1,770 | 2,100 | 1,880 | | | | | | 209 | 233 | 190 | 196 | 201 | 190 | 196 | 201 | |
| 41 | Muswellbrook | 60 | 70 | 70 | 2.3 | 1.3 | | 2010 | - | 22 | 35 | 27 | 10 | 11 | 24 | 0.7 | 0.2 | 2.0 | | 139 | 2,870 | 2,200 | 3,300 | 959 | 136 | 912 | 75 | 76 | | | 240 | 263 | 305 | 240 | 263 | 305 | |
| 42 | Corowa | 150 | 70 | 70 | 2.0 | 1.9 | | - | - | 19 | 19 | 14 | 30 | 15 | 46 | 1.2 | 0.2 | 0.7 | | 129 | 2,690 | 2,060 | 2,180 | 682 | | | | 45 | 228 | 241 | 207 | 245 | 237 | 207 | 245 | 237 | |
| 43 | Tumut | 50 | 40 | 40 | 1.2 | | | 2010 | - | 4 | 6 | 7 | | | 3 | | | 3.6 | | 63 | 1,470 | 1,530 | 1,450 | 25 | 33 | 151 | 4.0 | 19 | 132 | 148 | 224 | 219 | 201 | 224 | 219 | 202 | |
| 44 | Gunnedah (Groundwater) | 100 | 80 | 80 | 2.4 | 1.1 | | 2009 | 3.0 | 13 | 15 | 19 | 3 | 3 | 3 | 0.6 | 0.6 | 5.5 | | 256 | 2,190 | 2,270 | 2,300 | | | | 42 | 75 | 184 | | 247 | 282 | 338 | 247 | 282 | 338 | |
| 45 | Upper Hunter | 60 | 120 | 120 | 3.4 | | | - | - | 74 | 28 | 20 | 17 | 33 | 27 | 2.1 | 0.7 | 6.8 | | 474 | 1,680 | 1,700 | 3,050 | 167 | 135 | | 11 | 10 | | | 216 | 230 | 448 | 216 | 230 | 448 | |
| 46 | Narrabri (Groundwater) | 130 | | | 4.9 | | | - | - | 81 | 96 | 82 | 90 | 23 | 16 | 1.8 | 0.4 | 2.4 | | 121 | 3,480 | 3,550 | 2,290 | | | | 4 | 4 | 200 | 309 | 773 | 548 | 544 | 773 | 548 | 544 | |
| 47 | Bellingen (Unfiltered) | 120 | 50 | 50 | 1.3 | 1.0 | | - | - | 7 | 6 | 8 | | | | 1.8 | 0.6 | 5.6 | | 49 | 1,280 | 1,190 | 1,280 | | | | | 105 | 135 | 173 | 168 | 175 | 173 | 168 | 175 | | |
| 48 | Leeton | 380 | 190 | 190 | 5.6 | 5.2 | | 2007 | 22.0 | 35 | 21 | 6 | 40 | 26 | 11 | 3.4 | 2.5 | 7.1 | | 373 | 2,790 | 3,090 | 2,960 | | | | 1 | 1 | 182 | 168 | 384 | 444 | 442 | 384 | 444 | 442 | |
| 49 | Young (Reticulator) | 110 | 60 | 60 | 1.7 | | | - | - | 17 | 17 | - | 25 | 26 | - | | | - | | 105 | 1,570 | 1,610 | 1,520 | 129 | 99 | | 73 | - | 201 | | 217 | 207 | 222 | 217 | 207 | 222 | |
| 50 | Cooma-Monaro | 70 | 50 | 50 | 1.6 | | | - | - | 22 | 16 | 15 | | | | 0.6 | 0.4 | 2.3 | | 199 | 1,700 | 1,430 | 1,230 | | | | 3 | 25 | | 179 | 320 | 289 | 195 | 320 | 289 | 195 | |
| 51 | Forbes | 80 | 80 | 80 | 2.3 | 2.2 | | 2009 | 15.0 | 34 | 49 | 33 | 123 | 88 | 118 | | 1.0 | 4.8 | | 255 | 1,890 | 1,870 | 1,950 | 166 | 137 | 156 | 1.1 | 82.2 | 290 | 230 | 356 | 363 | 338 | 356 | 363 | 338 | |
| 52 | Snowy River (Unfiltered) | 130 | 130 | 130 | 2.8 | 1.6 | | RDT | 2007 | 6.0 | 10 | 7 | 7 | 1 | 4 | | | 0.5 | | 20 | 860 | 870 | 850 | | | | | | 398 | 468 | 126 | 156 | 127 | 126 | 156 | 127 | |
| 53 | Berrigan (Dual Supply) | 90 | 90 | 90 | 1.3 | 2.0 | | - | - | 29 | 22 | 13 | 11 | 59 | 57 | | 0.8 | 159.3 | | 261 | 1,330 | 1,500 | 1,560 | 626 | 686 | 750 | 20 | 34 | 460 | 366 | 131 | 173 | 158 | 125 | 292 | 272 | |
| 54 | Denilquin | 70 | | | 2.7 | | | - | - | 13 | 18 | - | 2 | 15 | - | | | - | | 111 | 1,870 | 3,010 | 2,430 | 380 | 600 | | 74 | - | 163 | | 403 | 640 | 466 | 403 | 709 | 466 | |
| 55 | Warrumbungle | 30 | 50 | 40 | 0.9 | | | - | - | 3 | 5 | 4 | | | | 0.7 | | 4.0 | | 41 | 590 | 850 | 810 | | | | 10 | 25 | 232 | 162 | 148 | 192 | 190 | 148 | 192 | 190 | |
| 56 | Yass Valley | 90 | 100 | 90 | 1.7 | 2.1 | | - | - | 8 | 12 | 13 | 27 | 36 | 42 | 0.3 | 0.9 | 5.8 | | 74 | 740 | 860 | 840 | | | | 33 | 13 | 140 | 137 | 165 | 184 | 176 | 165 | 184 | 176 | |
| Medians (% of LWUs basis) for 3,000 to 10,000 Properties | | 70 | 2 | 1 | Note: ILI < 1.0 is meaningless & has been increased to 1.0 | | | | 13 | 26 | | | | | | 139 | 134 | | | | 69,000 | | | | | | 25 | | | | 218 | | | | 229 | | |
| LWUs with 1,501 - 3,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Wellington | 130 | 270 | 220 | 6.5 | 3.5 | | RDT | 2004 | 23 | 9 | 12 | 17 | 29 | 45 | 39 | 4.7 | 7.3 | 2.1 | | 912 | 3.5 | 318 | 1,120 | 1,180 | 1,180 | | | 167 | 123 | 304 | 202 | 209 | 304 | 202 | 209 | |
| 58 | Coolamundra (Reticulator) | 50 | 70 | 70 | 2.4 | 1.0 | | - | - | 27 | 66 | 52 | 9 | 9 | 9 | | 0.6 | 4.6 | | 268 | 950 | 910 | 910 | 199 | 202 | 204 | 52 | 50 | | | 208 | 198 | 179 | 208 | 198 | 179 | |
| 59 | Lachlan | 90 | 170 | 130 | 1.5 | 1.7 | | 2009 | 14.0 | 12 | 8 | 7 | 23 | 16 | 11 | 0.8 | 0.3 | 5.8 | | 76 | 1,470 | 1,570 | 1,430 | 129 | 160 | 157 | 24 | 26 | 200 | 193 | 360 | 337 | 349 | 360 | 351 | 360 | |
| 60 | Glen Innes Severn | 100 | 30 | 90 | 3.0 | 1.0 | | 2010 | 15.0 | 7 | 4 | 6 | 70 | 40 | 33 | 0.3 | 1.3 | 2.0 | | 119 | 680 | 580 | 710 | | 59 | 100 | 12 | 143 | 164 | 157 | 155 | 164 | 157 | 155 | | | |
| 61 | Liverpool Plains | 60 | 70 | | 1.7 | 1.0 | | - | - | 9 | 11 | | 28 | 38 | | | 0.6 | 1.5 | | 839 | 950 | 850 | 920 | | | | | 234 | 215 | 242 | 223 | 222 | 242 | 223 | 222 | | |
| 62 | Narromine (Groundwater) | 100 | 250 | 90 | 3.3 | 2.2 | | 2010 | 55.0 | 20 | 18 | 25 | 64 | 51 | 24 | 1.3 | 5.7 | 7.4 | | 298 | 1,380 | 2,170 | 1,110 | 134 | 2 | | 5 | | 361 | 490 | 430 | 434 | 490 | 430 | 434 | | |
| 63 | Narrandera (Groundwater) | | | | 2.9 | | | - | - | 9 | - | - | 75 | - | - | | | - | | 255 | 1,400 | 1,160 | 1,170 | | | | | 355 | 419 | 384 | 376 | 419 | 384 | 376 | | | |
| 65 | Murray (Dual Supply) | 40 | 80 | 80 | 1.5 | 1.7 | | 2010 | 14.0 | 7 | 9 | 4 | 50 | 28 | 8 | 0.6 | 1.5 | 0.7 | | 139 | 930 | 1,130 | 1,140 | 220 | 436 | 431 | 26 | 21 | 181 | 176 | 179 | 156 | 174 | 225 | 260 | 289 | |
| 67 | Cobar | 120 | 50 | | 0.9 | | | - | 6.0 | 10 | 6 | 10 | 2 | 1 | 3 | 0.9 | 0.4 | 2.7 | | | 2,260 | 1,670 | 950 | 220 | 48 | 101 | 35 | 38 | 154 | 257 | 721 | 438 | 309 | 721 | 465 | 310 | |
| 66 | Cobar WB | | | | | | | | | | | | | | | | | | | | 1,170 | 1,540 | | 1,172 | 1,543 | | | | | | | | | | | | |
| 68 | Tenterfield | 40 | 30 | 30 | 1.0 | 1.0 | | 2009 | - | 9 | - | 10 | 39 | - | - | 1.4 | 1.5 | 8.1 | | 229 | 410 | 420 | 470 | | | | 50 | - | 25 | | 125 | 199 | 140 | 138 | 199 | 140 | 138 |
| 70 | Kyogle | 30 | 40 | 40 | 1.4 | 1.0 | | - | - | 9 | 5 | 14 | 3 | 4 | 7 | | 0.7 | 1.3 | | 327 | 390 | 450 | 460 | 13 | 20 | 26 | 100 | 91 | 109 | 108 | 134 | 180 | 164 | 134 | 180 | 164 | |
| 71 | Palerang | 30 | 60 | 40 | 1.8 | 1.0 | | - | - | 29 | 24 | 13 | 33 | 31 | 30 | 1.1 | 1.0 | 1.0 | | 152 | 410 | 480 | 490 | | | | 2 | | 185 | 138 | 141 | 163 | 187 | 141 | 163 | 187 | |
| 73 | Upper Lachlan | 40 | 30 | 30 | 0.8 | 1.0 | | - | - | 5 | 3 | 8 | 3 | 3 | 5 | 4.7 | 1.0 | 2.6 | | 1142 | 460 | 300 | 300 | | | | | 159 | 212 | 179 | 72 | 71 | 179 | 72 | 71 | | |
| 74 | Wentworth (Dual Supply) | 80 | 80 | | 0.9 | | | - | - | 12 | 9 | | 9 | 6 | | | 0.7 | 0.3 | | 93 | 1,980 | 1,540 | 1,540 | 1,690 | 624 | 624 | | | | 83 | 119 | 113 | 560 | 376 | 356 | | |
| 75 | Coonamble (Groundwater) | 190 | 160 | 100 | 2.6 | 2.8 | | - | - | 39 | 27 | 44 | 63 | 60 | 35 | 0.8 | 1.8 | 5.7 | | | 1,060 | 1,110 | 1,030 | 41 | 37 | 34 | 32 | 24 | 213 | 173 | 408 | 419 | 466 | 408 | 419 | 466 | |
| 76 | Harden (Reticulator) | 60 | 50 | 70 | 0.7 | 1.0 | | RDT | 2006 | 7 | 9 | 8 | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | |

Table 10: Water supply – asset management and water resource management (continued)

| WATER UTILITY | ASSET MANAGEMENT | | | | | | | | | | | | | | | WATER RESOURCE MANAGEMENT | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--------------|--|------------|--|---------------------|-----------------------|-----------------------|-----------------------------------|------------------|----------------------------|------------------------|----------------------------|---|---|--|------------------------|-----------------------------|---|---|----------------------------------|---------|--|---------------------------------|---------|---|---------|---|-----|-----|-----|-----|-----|-------|-------|-------|-------------------------------------|-----|
| | Real Losses (Leakage) (see col (9) Table 8) | | | | | | Main Breaks | | | Unplanned Interruptions to Supply | | | Rehabilitations | | | Renewals | | Mains Maintenance Cost | Total Urban Water Supplied | | | Non-potable Urban Water Supplied | | | % Water Recycled (from Table 8) | | Peak Week to Average Consumption | | Average Annual Residential Water Supplied | | | | | | | | | | |
| | (L/d per connection) | (kL/km/d) | (LI) | Reservoir Drop Test (RDT) Waste Metering (WM) or Night Flow Metering (NF/Z) Z is No. of District Meter Areas | | | (per 100km of Main) | (per '000 properties) | Mains (km per 100 km) | Service Connections (%) | Water Meters (%) | (\$'000 per 100km of Main) | (% of CRC) | (\$'000 per 100km of Main) | Potable + Non-potable + Recycled (Excluding Bulk Water Exports) (ML) (from Table 8) | For outdoor uses or industry (Including Recycled) (ML) (from Table 8) | (Total Vol Recycled (Urban + Ag Use)/Total Urban Water Supplied) | (%) | (%) | From Tables 8 & 9 (1) + [(22a)] Potable (kL/property) | From Tables 8 & 9 [(1)+(11)-(12a)] + [(22a)] Potable-Nonpotable (kL/property) | | | | | | | | | | | | | | | | | | |
| | (41) A 10 | (41a) A 11 | (41b) A 9 | Type (41c) | Year (41d) | Result % (41e) | (42) A 8 | (43) C 17 | (44) | (45) | (45a) | (46) | (47) | (48) | (49) W 11 | (50) | (51) | (53) | (56a) | (56) W12 | | | | | | | | | | | | | | | | | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | 2007/08 | 2008/09 | 2009/10 | | | | | | | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | 260 | 40 | 280 | 5.4 | 4.9 | | 2009 | 12.0 | | 13 | 40 | 21 | 11 | 13 | 10 | 0.4 | 3.7 | 1.1 | 114 | 0.7 | 122 | 680 | 380 | 670 | 24 | 27 | 43 | 16 | 17 | 365 | 283 | 219 | 154 | 209 | 219 | 154 | 209 | |
| 82 | Gloucester | 50 | 90 | 2.3 | 2.2 | | - | - | | 7 | 10 | 62 | 10 | 0.8 | 1.9 | 1.3 | 820 | 2.8 | 207 | 400 | 420 | | | | | | | | | | 126 | 166 | 179 | 167 | 166 | 179 | 167 | | |
| 83 | Oberon (Reticulator) | 100 | 70 | 100 | 3.2 | | | - | - | | 17 | 18 | 31 | 14 | 32 | 2.7 | 0.6 | 3.2 | 379 | 1.8 | 121 | 760 | 590 | 570 | | | | 100 | | | | | 175 | 179 | 128 | 175 | 179 | 128 | |
| 84 | Gilgandra (Groundwater) | 140 | | | 4.3 | | 2000 | 15.0 | | 30 | 30 | 40 | 37 | 36 | 37 | 1.2 | 0.4 | 0.7 | 617 | 2.1 | 237 | 820 | 840 | 810 | | | | 100 | 100 | 162 | 167 | 413 | 428 | 433 | 413 | 428 | 433 | | |
| 85 | Uralla | | 70 | 70 | 2.3 | 1.3 | | - | - | 19 | 14 | 32 | 29 | 17 | 78 | 0.3 | 0.9 | | | 250 | | 250 | 270 | 240 | 300 | | | | | 329 | 209 | 123 | 102 | 127 | 123 | 102 | 127 | | |
| 86 | Hay (Dual Supply) | 50 | 30 | 30 | 1.3 | 1.1 | | - | - | 32 | 32 | 32 | 11 | 11 | 11 | 0.6 | 0.4 | 0.8 | | 245 | | 1,320 | 1,460 | 1,340 | | | | | | 115 | 108 | 179 | 184 | 193 | 1,021 | 1,140 | 1,025 | | |
| 87 | Bourke (Dual Supply) | 110 | 110 | 110 | 4.2 | 3.6 | | - | - | 57 | 78 | 167 | 823 | 815 | 844 | | 0.4 | 3.4 | | 507 | | 3,670 | 3,500 | 4,050 | 2,999 | 2,825 | 3,366 | | | 162 | 160 | 383 | 539 | 569 | 3,350 | 3,169 | 3,755 | | |
| 88 | Wakool (Dual Supply) | 100 | 100 | 40 | 0.4 | | | - | - | 0 | 0 | - | - | - | - | | - | - | | 43 | | 1,020 | 1,090 | 1,100 | | | | | | | | 173 | 153 | 205 | 853 | 839 | 891 | | |
| 89 | Bogan | 80 | 330 | 90 | 2.0 | 2.5 | | 2010 | - | 32 | 32 | 36 | 19 | 10 | 71 | | 0.2 | 4.7 | | 137 | | 520 | 580 | 580 | | | | | | 290 | | 479 | 309 | 365 | 479 | 309 | 365 | | |
| 90 | Guyra | 60 | 60 | 70 | 1.3 | 1.0 | | 2009 | 3.0 | | 10 | 8 | | 19 | 15 | 0.2 | 0.2 | 4.5 | | 87 | 0.3 | 185 | 410 | 410 | 490 | | | | | | 151 | 180 | 227 | 215 | 217 | 227 | 215 | 217 | |
| 91 | Cabonne | 140 | 130 | 110 | 2.8 | 2.4 | | 2010 | 22.0 | 37 | 29 | 26 | 25 | - | - | | 1.8 | 1.6 | | 79 | | 380 | 390 | 410 | 145 | 158 | 180 | 46 | 50 | 157 | 157 | 131 | 131 | 135 | 131 | 166 | 168 | | |
| 92 | Carrathool (Groundwater) | 110 | | | 0.4 | | | - | - | 10 | 12 | 5 | 394 | - | 221 | | | 3.3 | | 44 | 0.3 | 33 | 1,320 | 1,300 | 1,680 | 618 | 651 | 649 | | | 184 | 112 | 482 | 446 | 641 | 482 | 1,215 | 1,351 | |
| 93 | Tumbarumba | | | | 1.0 | | | - | - | 6 | 9 | 8 | 13 | 22 | 35 | 2.0 | 0.5 | 2.0 | | 99 | 0.4 | 58 | 380 | 390 | 300 | | | | | | 173 | | 219 | 221 | 177 | 219 | 221 | 177 | |
| 94 | Gundagai | 140 | 130 | 130 | 3.8 | 1.5 | | - | 7.0 | 8 | 11 | 17 | 28 | 29 | 34 | 0.8 | 2.3 | 3.4 | | 106 | | 680 | 730 | 730 | 111 | 117 | 117 | 100 | 100 | 194 | 196 | 230 | 281 | 336 | 230 | 281 | 336 | | |
| 96 | Warren (Dual Supply) | 260 | 180 | 170 | 3.2 | 5.2 | | - | 33.0 | 42 | 51 | 66 | 3 | 3 | - | | 0.2 | 5.3 | | 115 | | 580 | 470 | 720 | 256 | 191 | 334 | 3 | 1 | 186 | 135 | 172 | 164 | 300 | 412 | 352 | 654 | | |
| 97 | Bombala | 80 | 90 | 40 | 0.9 | 1.0 | | - | - | 26 | 26 | 23 | | | | | 0.2 | 1.4 | | 60 | 0.2 | 37 | 230 | 250 | 240 | | | 35 | 100 | 21 | 104 | 156 | 249 | 266 | 193 | 249 | 266 | 193 | |
| 98 | Walcha | 50 | 40 | 40 | 0.6 | 2.8 | | 2010 | 2.0 | 4 | 4 | 4 | 6 | 7 | 6 | 0.4 | 0.3 | 2.0 | | 48 | | 250 | 220 | 210 | | | | | | 168 | 196 | 204 | 176 | 171 | 204 | 176 | 171 | | |
| 100 | Balranald (Dual Supply) | 20 | 40 | 40 | 1.1 | 1.0 | | - | - | 17 | 13 | 33 | | | | | | 1.3 | | 67 | 0.1 | 187 | 660 | 740 | 590 | 458 | 536 | 395 | 73 | | 609 | 131 | 257 | 241 | 232 | 910 | 958 | 758 | |
| 101 | Murrumbidgee (Groundwater) | 240 | | | 3.8 | | | - | - | 7 | - | - | - | - | - | | - | - | | 21 | | 670 | 670 | 670 | 10 | | | | | | | 550 | 474 | 470 | 550 | 474 | 470 | | |
| 103 | Central Darling (Dual Supply) | 20 | | | 0.3 | | | - | - | 32 | 32 | - | 87 | 29 | - | | 0.1 | 1.1 | | 108 | | 350 | 360 | 360 | 270 | 245 | 241 | | | 228 | | 140 | 145 | 103 | 601 | 526 | 484 | | |
| 104 | Boorowa | | | | 0.8 | | | 2009 | 4.0 | 28 | 21 | 9 | 44 | 7 | 3 | | - | - | | 181 | 0.9 | 26 | 220 | 240 | 280 | | | 3 | 1 | 5 | 2 | | 216 | 270 | 295 | 216 | 271 | 296 | |
| 105 | Brewarrina | 130 | 70 | 70 | 1.0 | 1.5 | | - | - | 39 | 50 | 52 | | | 40 | 3.1 | 0.6 | | | 60 | 0.2 | 317 | 830 | 840 | 730 | 540 | 591 | 503 | | 100 | 169 | 116 | 400 | 335 | 293 | 400 | 1,721 | 1,440 | |
| 106 | Jerilderie (Dual Supply) | 40 | 40 | 50 | 0.5 | | | - | - | 30 | 21 | 16 | 9 | | 9 | | 4.9 | 0.4 | | 131 | | 390 | 430 | 430 | 269 | 300 | 284 | 26 | 15 | 159 | | 208 | 245 | 264 | 942 | 1,033 | 1,025 | | |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | | 70 | 1 | 2 | Note: ILI < 1.0 is meaningless & has been increased to 1.0 | | | | | | 22 | 33 | 1 | | 99 | 121 | | | | | | 17,700 | | | | | | | | | | | 36 | | | 217 | | 365 |
| <i>Median All LWUs (% of LWUs basis)</i> | | <i>Leakage</i> | 70 | 2.0 | 1.1 | <i>Main Breaks per 100km of main</i> | | | | | | 12 | <i>Interruptions</i> | 24 | <i>Mains</i> | | | 0.6 | <i>Renewals 0.6% of CRC</i> | | | | | <i>% of Total Urban Water Recycled</i> | | | 24% | | | | | | | | | | | <i>Av Annual Res Water Supplied</i> | 225 |
| <i>Median All LWUs (Statewide basis)</i> | | 70 | | | | | | | | 10 | | 37 | <i>Rehabilitations</i> | | | 0.3 % | | | | | | | | | | | | | | | | | | | | | | 175 | |
| <i>Totals for all LWUs (excluding bulk suppliers)</i> | | <i>34 LWUs reported recent leakage testing</i> | | | | | | | | | | | | | | | <i>Total Urban Water Supplied 291,000 ML</i> | | | | | | | | | | <i>Non-potable Urban Water Supplied 27,900 ML</i> | | | | | | | | | | | | |

+ There are 11 LWUs with a dual water supply in 2009-10: Balranald, Berrigan, Bourke, Central Darling, Hay, Jerilderie, Murray, Wakool, Walgett, Warren, Wentworth.

For these 11 LWUs, note 12 on page 20 reports the approximate total potable annual residential water supplied per property. This is lower than the value reported in Column 56 as it is calculated only for those towns with a dual supply.

Note: 1. The reported Real Losses shown above for NWI indicator A10 have been rounded in recognition of the significant inherent errors in the determination of distribution system leakage.

2. LWUs with >20 connections/km should use Real Losses (L/connection/day) (column (41)) for comparison purposes.

LWUs with <20 connections/km should use Real Losses (L/km water main/day) (column (41a)) for comparison purposes.

3. Leakage relates only to Total Urban Water Supplied (potable) and excludes bulk water exports.

4. 42 LWUs have reported carrying out recent leakage testing. (columns (41c), (41d), (41e))

Table 11: Water supply – financial and efficiency

| WATER UTILITY | WATER SUPPLY FINANCIAL (SEE ALSO COST RECOVERY TABLE 6) | | | | | | | | | | | | | | | | | EFFICIENCY (SEE ALSO COST RECOVERY TABLE 6) | | | | | | | | | | | | | | | | | | | |
|--|---|-----------|----------------------|---|--|--------------------------------------|---|--------------------------------|--|--------------------|----------|-------|---------------------------|-------|----------|------------------|-------|---|---------------------------------------|----------------------------------|-----------------|---------------|-------------------------------------|---------------|-------|-------|----------------------|-------------------|-------|-------|-----------------|-----|-----|-----|-----|-----|----|
| | Total Revenue Water (excl. Capital Works Grants) | | Revenue per property | Residential Revenue | | | Current Replacement Cost (CRC) of System Assets | | | Net Debt to Equity | | | ERRR | | | Return on Assets | | | Operating Result | | Cross Subsidies | | Externalities (Fees to State Water) | Loan Payment | | | Operating Cost (OMA) | | | | Management Cost | | | | | | |
| | (\$'000) | | | Res Revenue (% of rates & charges) (%) [*] | Res Water Supplied (% of water supplied excluding water) | Res Revenue (% of Usage Charges) (%) | Written Down Cost (\$M) | Current Replacement Cost (\$M) | Current Replacement Cost per Assessment (\$) | % | | | see also Table 6 Col (12) | | | (\$/property) | | | Annual Fees & Charges (\$/assessment) | Developer Charge (\$/assessment) | (\$/property) | (\$/property) | | (\$/property) | | | | (\$/property) | | | | | | | | | |
| | (57) F1 | (57a) F5 | (58) | | | | | | | (59) | (58a) F4 | (60) | (61) F9 | (62) | (63) F22 | (63a) F17 | (63b) | (65) | | | | | (64a) | (64b) | (66) | (66a) | (67) F11** | (68) ⁺ | | | | | | | | | |
| 08/09 | 09/10 | 08/09 | 09/10 | 09/10 | 08/09 | 09/10 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | 08/09 | | | | | | |
| Sydney Water | 928,376 | 1,072,500 | 605 | | 82 | | 11,592 | | 62 | 103 | | -0.5 | 1.7 | 2.3 | | | | | | | | | | | | | 284 | 354 | 306 | 311 | | | | | | | |
| Hunter Water | 92,171 | 112,479 | 500 | | | | 15,79 | | 30 | 32 | | 2.0 | 2.5 | 3.7 | | | | | | | | | | | | | 230 | 196 | 189 | 190 | | | | | | | |
| Sydney Catchment Authority | 180,332 | 196,274 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford | 28,900 | 32,900 | 468 | 89 | 75 | 74* | 524 | 655 | 9,714 | 5 | 8 | 11 | -0.3 | 0.3 | 0.1 | -0.4 | 0.2 | -0.7 | -36 | -87 | | | 0.003 | | | 25 | 43 | 84 | 285 | 270 | 284 | 353 | 138 | 130 | 127 | 133 | |
| 2 Wyong | 39,000 | 46,300 | 774 | 90 | 73 | 73* | 511 | 713 | 11,555 | 15 | 18 | 18 | 0.0 | -0.6 | 1.6 | -0.9 | -1.8 | 0.6 | -189 | -16 | | | 0.02 | | 169 | 137 | 239 | 314 | 276 | 564 | 391 | 124 | 107 | 152 | 184 | | |
| 3 Shoalhaven | 16,500 | 19,700 | 431 | 63 | 54 | 74 | 290 | 472 | 9,469 | -8 | -2 | -4 | -0.3 | -0.3 | 0.4 | -0.1 | -0.8 | 0.9 | -65 | 60 | | | 0.02 | | 15 | 21 | 14 | 219 | 233 | 260 | 274 | 113 | 119 | 124 | 124 | | |
| 4 Rous (Bulk Supplier) (NO SGE) | 13,800 | 16,500 | | 10 | | | 310 | 466 | 9,794 | 10 | 11 | 10 | -0.2 | -0.4 | -0.4 | -1.2 | -1.1 | -1.1 | -115 | -138 | | | 0.05 | | 84 | 89 | 89 | 143 | 159 | 182 | 204 | 67 | 73 | 85 | 94 | | |
| 5 MidCoast (Unfiltered) | 18,200 | 23,400 | 645 | 79 | 69 | 77 | 326 | 507 | 13,408 | 6 | 23 | 29 | 0.2 | 0.8 | 3.5 | -3.3 | -1.7 | 2.3 | -181 | 186 | | | 0.29 | | 120 | 42 | 243 | 258 | 326 | 285 | 316 | 53 | 79 | 84 | 72 | | |
| 6 Tweed | 18,300 | 20,600 | 659 | 80 | 65 | 75 | 420 | 547 | 15,958 | -5 | 6 | 9 | 1.3 | 0.2 | 0.4 | 1.6 | -0.2 | -0.1 | -54 | -135 | | | 0.02 | | 475 | 78 | 157 | 289 | 287 | 303 | 356 | 142 | 142 | 153 | 159 | | |
| 7 Port Macquarie-Hastings (Unfiltered) | 21,500 | 23,600 | 814 | 72 | 75 | 70 | 356 | 510 | 16,736 | 1 | 1 | -2 | 0.7 | 1.7 | 1.9 | 0.5 | 0.3 | 2.6 | -77 | 274 | | 57 | 0.04 | | 54 | 55 | 56 | 282 | 239 | 251 | 308 | 94 | 100 | 109 | 124 | | |
| 8 Riverina (Groundwater) (NO SGE) | 17,700 | 18,600 | 649 | 73 | 61 | 80 | 148 | 254 | 8,526 | -7 | 0 | -5.0 | 3.4 | 3.4 | 3.4 | 3.9 | 3.7 | 3.6 | 140 | 90 | | | | | 0 | 0 | 277 | 283 | 303 | 312 | 75 | 81 | 85 | 94 | | | |
| 10 Coffs Harbour (Unfiltered) | 16,200 | 32,300 | 1,343 | 77 | 74 | 76* | 316 | 407 | 15,900 | 13 | 27 | 25 | 3.7 | 1.7 | 6.3 | 1.6 | -0.9 | 4.9 | -117 | 641 | | 67 | 0.004 | | 353 | 579 | 585 | 227 | 236 | 277 | 300 | 106 | 115 | 117 | 134 | | |
| 11 Albury City | 7,860 | 9,160 | 406 | 66 | 74 | 64 | 189 | 337 | 15,394 | -2 | 0 | -0.6 | -0.8 | -1.6 | -1.0 | -0.7 | -1.5 | -0.9 | -123 | -75 | | 22 | 3.8 | | 3 | 0 | 0 | 228 | 270 | 270 | 269 | 94 | 114 | 115 | 105 | | |
| 12 Fish River WS (Unfiltered, Bulk Supplier) | 7,154 | 7,154 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 31 | 31 | 31 | 37 |
| 13 Tamworth Regional | 15,100 | 15,700 | 762 | 64 | 58 | 64 | 162 | 292 | 14,166 | -8 | -8 | -9 | 3.0 | 2.1 | 1.7 | 3.3 | 2.6 | 2.0 | 204 | 159 | | | 12.2 | | 35 | 42 | 46 | 340 | 333 | 396 | 451 | 115 | 109 | 129 | 139 | | |
| 14 Clarence Valley | 15,300 | 12,100 | 579 | 65 | 60 | 65* | 223 | 259 | 12,092 | 10 | 7 | 5 | 9.9 | 1.7 | 0.7 | 9.7 | 1.1 | 0.1 | 138 | 19 | | | 0.03 | | 54 | 171 | 168 | 246 | 244 | 290 | 313 | 143 | 153 | 116 | 145 | | |
| 15 Eurobodalla (Unfiltered) | 12,900 | 13,800 | 713 | 85 | 74 | 54* | 192 | 273 | 13,267 | 0 | -2 | 2 | 2.4 | 2.3 | 2.3 | 3.0 | 2.2 | 2.4 | 140 | 221 | | | 0.04 | | 8 | 11 | 8 | 329 | 326 | 312 | 336 | 155 | 160 | 158 | 133 | | |
| 16 Wingecarribee | 9,050 | 10,900 | 600 | 81 | 75 | 71 | 174 | 294 | 15,374 | -16 | -7 | -7 | 0.4 | 0.0 | 0.6 | 1.4 | 0.3 | 0.8 | -11 | -16 | | | | | 0 | 3 | 21 | 249 | 292 | 297 | 308 | 108 | 120 | 127 | 138 | | |
| 17 Queanbeyan (Reticulator) | 9,670 | 12,000 | 755 | 90 | 75 | 62 | 106 | 173 | 11,189 | -11 | -11 | -7 | 2.2 | -0.7 | -1.2 | 2.6 | -0.5 | -0.7 | -81 | -97 | | | 0.02 | | 0 | 0 | 0 | 363 | 349 | 497 | 453 | 97 | 110 | 112 | 118 | | |
| 18 Dubbo | 9,220 | 11,000 | 650 | 77 | 74 | 77 | 190 | 220 | 14,484 | 11 | 12 | 12 | -0.3 | 0.2 | 0.6 | -1.0 | -0.5 | 0.1 | -76 | -3 | | | 5.2 | | 89 | 112 | 107 | 444 | 437 | 419 | 451 | 162 | 150 | 159 | 159 | | |
| 19 Orange | 12,600 | 9,710 | 602 | 90 | 72 | 70 | 134 | 253 | 15,667 | -8 | -7 | -7 | 1.0 | 2.5 | 0.6 | 1.2 | 2.5 | 1.0 | 85 | -34 | | | 0.1 | | 27 | 61 | 60 | 300 | 317 | 333 | 281 | 109 | 128 | 144 | 118 | | |
| 20 Goulburn Mulwaree | 7,150 | 7,180 | 702 | 71 | 64 | 40 | 140 | 233 | 23,483 | 3 | 3 | 3 | 0.5 | 0.3 | 0.1 | 1.5 | -0.5 | 0.0 | -84 | -1 | | | 0.1 | | 134 | 172 | 174 | 340 | 330 | 360 | 383 | 108 | 92 | 106 | 116 | | |
| 21 Bathurst Regional | 10,600 | 10,800 | 739 | 73 | 62 | 81 | 128 | 209 | 14,958 | -6 | -7 | -8 | 1.1 | 1.9 | 1.4 | -1.6 | 2.3 | 1.7 | 210 | 107 | | | 0.1 | | 11 | 15 | 16 | 403 | 373 | 390 | 427 | 147 | 138 | 143 | 169 | | |
| 22 Lismore (Reticulator) | 7,010 | 8,400 | 597 | 74 | 70 | 72 | 75 | 145 | 10,846 | -1 | 0 | -0.8 | -1.6 | -1.7 | -0.8 | 2.7 | -1.8 | -0.8 | -101 | -63 | | | 0.02 | | 3 | 4 | 6 | 306 | 340 | 378 | 397 | 80 | 97 | 91 | 84 | | |
| 23 Bega Valley (Unfiltered) | 8,660 | 9,840 | 700 | 75 | 69 | 68* | 104 | 173 | 12,030 | -15 | -15 | -18 | 1.6 | 1.5 | 1.9 | -0.2 | 2.4 | 2.7 | 168 | 203 | | | 1.3 | | 1 | 1 | 1 | 348 | 336 | 371 | 402 | 167 | 162 | 174 | 188 | | |
| 24 Ballina (Reticulator) | 6,150 | 7,730 | 539 | 74 | 75 | 70 | 84 | 146 | 9,446 | -11 | -11 | -11 | -1.2 | -2.4 | -1.3 | -0.8 | -1.6 | -0.7 | -97 | -44 | | | 0.1 | | 0 | 0 | 0 | 317 | 317 | 385 | 417 | 90 | 102 | 108 | 106 | | |
| 25 Kempsey (Groundwater) | 7,300 | 7,880 | 636 | 69 | 61 | 52* | 232 | 330 | 27,722 | 3 | 4 | 5 | -0.4 | -0.5 | -0.4 | | | -0.9 | -0.8 | -223 | -170 | | | 1.6 | | 134 | 164 | 160 | 277 | 305 | 334 | 372 | 120 | 114 | 118 | 139 | |
| 26 Country Energy | 12,500 | 12,700 | 1,213 | 52 | 62 | 60 | | | | | | | | | | -0.5 | | | 97 | 144 | | | | | 0 | 0 | 869 | 800 | 800 | 817 | 366 | 210 | 216 | 181 | | | |
| 27 Byron (Reticulator) | 5,680 | 6,660 | 618 | 74 | 72 | 77 | 50 | 77 | 6,863 | -16 | -16 | -16 | -1.3 | 0.2 | 1.3 | 0.1 | 0.0 | 2.2 | -31 | 29 | | | 0.02 | | 2 | 2 | 2 | 353 | 375 | 391 | 409 | 132 | 126 | 130 | 122 | | |
| 28A Goldenfields (Reticulator) (NO SGE) | 6,190 | 6,350 | 632 | 63 | 39 | 78 | 110 | 110 | 10,318 | 0 | -9.4 | | -1.3 | -0.9 | -1.1 | -0.5 | -0.1 | -0.6 | | -72 | | | | | 0 | 0 | 700 | 657 | 657 | 694 | 83 | 107 | 107 | 165 | | | |
| 28B Goldenfields (Bulk Supplier) (NO SGE) | 5,690 | 6,670 | | | | | 109 | 109 | 5,427 | 0 | 0 | -8.1 | -0.5 | -0.8 | -0.4 | 0.5 | -0.5 | 0.0 | | 0 | | | | | 0 | 0 | 0 | 254 | 216 | 216 | 252 | 40 | 49 | 49 | 62 | | |
| <i>Medians (% of LWUs basis excl bulk suppliers) for >10,000 Properties</i> | | | | | | | | | | -2 | 0 | -1 | 0.5 | 0.3 | 0.6 | | | | -60 | 9 | | | | | | | | 303 | 317 | 334 | 364 | 114 | 117 | 125 | 133 | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 Armidale Dumaresq | 4,730 | 6,450 | 766 | 40 | 71 | 62* | 105 | 112 | 13,009 | 1 | 6 | -2 | -0.3 | 0.3 | 1.8 | -0.2 | -0.1 | 1.5 | -198 | 164 | | | 0.1 | | 35 | 58 | 61 | 467 | 526 | 474 | 489 | 211 | 264 | 249 | 217 | | |
| 30 Griffith | 6,060 | 7,550 | 912 | 24 | 62 | 78* | 104 | 121 | 12,381 | -7 | 0 | -6 | 0.4 | 0.1 | 1.4 | 0.0 | -0.2 | 2.0 | -24 | 245 | | | | | 0 | 0 | 562 | 551 | 594 | 616 | 219 | 228 | 252 | 269 | | | |
| 31 Lithgow | 3,710 | 3,980 | 496 | 51 | 75 | 57* | 28 | 61 | 7,392 | -8 | -9 | -12 | -1.4 | 1.0 | -2.6 | -0.2 | 1.5 | -2.2 | 50 | -77 | | | | | 155 | 8 | 60 | 467 | 473 | 351 | 498 | 218 | 173 | 46 | 174 | | |
| 32 Mid-Western Regional | 4,080 | 4,530 | 626 | 25 | 64 | 71* | 64 | 104 | 14,682 | 1 | 0 | -7 | 0.7 | -0.8 | 0.1 | 0.6 | -0.9 | 0.0 | -79 | -34 | | 22,426 | | | 86 | 84 | 86 | 419 | 403 | 450 | 415 | 128 | 118 | 173 | 151 | | |
| 33 Richmond Valley | 4,130 | 5,170 | 737 | 18 | 43 | 75* | 50 | 82 | 11,348 | -9 | 0 | -7 | 0.4 | -0.6 | 0.5 | 1.1 | -0.6 | 1.0 | -225 | -15 | | | 0.1 | | 0 | 0 | 0 | 458 | 439 | 448 | 492 | 208 | 206 | 221 | 233 | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 11: Water supply – financial and efficiency (continued)

| WATER UTILITY | WATER SUPPLY FINANCIAL (SEE ALSO COST RECOVERY TABLE 6) | | | | | | | | | | | | | | | | | | EFFICIENCY (SEE ALSO COST RECOVERY TABLE 6) | | | | | | | | | | | | | | | |
|--|---|-----------|----------------------|--|--|--------------------------------------|---|--------------------------------|--|--------------------|-------|------------|---------------------------|-------|-------|------------------|-------|-------|---|----------------------------------|-----------------|---------------|-------------------------------------|--------------|---------------|-------|----------------------|-------|---------------|-------|-----------------|-------|-----|--|
| | Total Revenue Water (excl. Capital Works Grants) | | Revenue per property | Residential Revenue | | | Current Replacement Cost (CRC) of System Assets | | | Net Debt to Equity | | | ERRR | | | Return on Assets | | | Operating Result | | Cross Subsidies | | Externalities (Fees to State Water) | Loan Payment | | | Operating Cost (OMA) | | | | Management Cost | | | |
| | (\$'000) | | (\$) | Res Revenue (% of rates & charges) (%) | Res Water Supplied (% of water supplied excluding water) | Res Revenue (% of Usage Charges) (%) | Written Down Cost (\$M) | Current Replacement Cost (\$M) | Current Replacement Cost per Assessment (\$) | % | | | see also Table 6 Col (12) | | | (\$/property) | | | Annual Fees & Charges (\$/assessment) | Developer Charge (\$/assessment) | (\$/property) | (\$/property) | | | (\$/property) | | | | (\$/property) | | | | | |
| | (57) F 1 | (57a) F 5 | (58) | (59) | (58a) F 4 | (60) | (61) F 9 | (62) | (63) F 22 | | | (63a) F 17 | | | (63b) | | | (65) | (64a) | (64b) | (66) | (66a) | | | (67) F 11** | | | | (68)* | | | | | |
| | 08/09 | 09/10 | 09/10 | 09/10 | 09/10 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 08/09 | 07/08 | 08/09 | 08/09 | 07/08 | 08/09 | 08/09 | 08/09 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 06/07 | 07/08 | 08/09 | 09/10 | 06/07 | 07/08 | 08/09 | 09/10 | | |
| 36 Parkes | 6,180 | 6,650 | 1,131 | 32 | 29 | 63* | 66 | 136 | 21,946 | -20 | 0 | -22 | 0.7 | 0.6 | 2.1 | -4.7 | -0.2 | 4.1 | -67 | 464 | 8.4 | 0 | 0 | 0 | 551 | 570 | 557 | 598 | 72 | 70 | 78 | 78 | | |
| 37 Inverell | 3,470 | 4,040 | 760 | 45 | 64 | 50* | 45 | 76 | 13,917 | -6 | -4 | -5 | 1.0 | 0.6 | 1.5 | -0.6 | 1.4 | 1.9 | 119 | 159 | 6 | 0.6 | 52 | 52 | 52 | 390 | 479 | 486 | 503 | 123 | 140 | 138 | 102 | |
| 38 Moree Plains (Groundwater) | 3,710 | 3,970 | 889 | 46 | 75 | 78* | 43 | 66 | 14,443 | 5 | 16 | -1 | -0.2 | 0.6 | 0.7 | -3.3 | -0.3 | -0.3 | -98 | -46 | 1.3 | 276 | 120 | 124 | 474 | 496 | 596 | 632 | 151 | 183 | 252 | 241 | | |
| 39 Cowra | 4,340 | 4,730 | 901 | 43 | 46 | 50* | 40 | 97 | 17,588 | 3 | 4 | -4 | 0.8 | -1.4 | -0.2 | 0.3 | -1.9 | -0.7 | -202 | -91 | 9.2 | 53 | 60 | 84 | 524 | 557 | 679 | 651 | 281 | 273 | 366 | 309 | | |
| 40 Central Tablelands (NO SGE) | 4,070 | 4,070 | 768 | 20 | 47 | 73* | 55 | 112 | 20,053 | 6 | 5 | -4 | -0.2 | 0.3 | 0.3 | -0.6 | -0.7 | 0.0 | -110 | -60 | | 111 | 110 | 110 | 401 | 383 | 439 | 421 | 184 | 186 | 221 | 211 | | |
| 41 Muswellbrook | 4,680 | 5,250 | 972 | 28 | 69 | 70* | 43 | 66 | 11,554 | -15 | -16 | -3 | 4.5 | 2.3 | 2.4 | 5.8 | 2.6 | 3.4 | 218 | 204 | | 78 | 78 | 76 | 549 | 424 | 503 | 581 | 131 | 128 | 149 | 157 | | |
| 42 Corowa | 3,600 | 3,010 | 598 | 38 | 55 | 56* | 40 | 52 | 9,688 | -9 | -5 | -7 | -2.7 | 2.6 | 1.2 | -2.7 | 0.8 | 2.9 | 44 | 174 | 12.3 | 0 | 0 | 0 | 352 | 422 | 366 | 384 | 130 | 185 | 189 | 198 | | |
| 43 Tumut | 2,030 | 2,370 | 535 | 26 | 66 | 67* | 35 | 53 | 11,411 | -5 | 0 | -1 | -0.7 | -1.2 | -0.6 | -0.2 | -1.1 | -0.7 | -122 | -55 | 2.6 | 3 | 0 | 9 | 321 | 340 | 342 | 352 | 88 | 78 | 58 | 61 | | |
| 44 Gunnedah (Groundwater) | 2,640 | 2,960 | 639 | 27 | 68 | 62* | 32 | 52 | 11,531 | -11 | 0 | 0 | 2.6 | 2.8 | 3.0 | 2.3 | 2.9 | 4.3 | 189 | 271 | 0.2 | 15 | 7 | 0 | 237 | 244 | 240 | 280 | 69 | 63 | 69 | 105 | | |
| 45 Upper Hunter | 3,310 | 3,520 | 804 | 39 | 69 | 71* | 26 | 39 | 8,226 | -26 | 0 | -26 | 3.6 | 1.9 | 2.8 | 6.0 | 4.6 | 4.6 | 244 | 242 | 0.1 | 0 | 0 | 0 | 369 | 441 | 532 | 473 | 151 | 157 | 162 | 163 | | |
| 46 Narrabri (Groundwater) | 1,470 | 2,340 | 534 | 43 | 75 | 60* | 11 | 50 | 11,207 | -35 | -33 | -19 | -2.5 | -2.9 | 6.3 | -6.0 | -2.1 | 11.8 | -64 | 286 | 1.5 | 4 | 4 | 2 | 292 | 297 | 304 | 322 | 92 | 97 | 81 | 102 | | |
| 47 Bellingen (Unfiltered) | 2,070 | 2,210 | 545 | 48 | 55 | 43* | 27 | 45 | 10,495 | -30 | 0 | -29 | 0.1 | 0.9 | 0.9 | 1.9 | 3.0 | 2.7 | 155 | 153 | 0.5 | 0 | 0 | 0 | | 319 | 304 | 321 | | 189 | 174 | 177 | | |
| 48 Leeton | 2,550 | 3,100 | 777 | 31 | 61 | 64* | 23 | 53 | 12,199 | -17 | -18 | -16 | -1.4 | -0.7 | 1.5 | 0.1 | 0.3 | 2.2 | -28 | 110 | | 6 | 4 | 4 | 413 | 436 | 500 | 472 | 166 | 191 | 114 | 117 | | |
| 49 Young (Reticulator) | 2,410 | 2,690 | 581 | 26 | 63 | 71* | 15 | 26 | 5,845 | -18 | -18 | -1 | 3.0 | 0.7 | 0.2 | 3.8 | 0.6 | 0.1 | 5 | -44 | | 9 | 8 | 8 | 362 | 294 | 246 | 290 | 35 | 35 | 49 | 60 | | |
| 50 Cooma-Monaro | 2,670 | 2,570 | 668 | 52 | 59 | 44* | 26 | 47 | 11,591 | -18 | 0 | -7 | 0.7 | 2.4 | 0.5 | 0.4 | 3.2 | 1.1 | 183 | 59 | | 0 | 0 | 0 | 372 | 428 | 438 | 464 | 118 | 170 | 175 | 213 | | |
| 51 Forbes | 2,010 | 2,150 | 591 | 31 | 65 | 61* | 21 | 53 | 14,657 | -23 | -25 | -26 | -1.3 | -0.9 | -1.6 | 0.7 | 1.3 | -0.3 | 73 | -16 | 12.8 | 34 | 29 | 24 | 355 | 410 | 400 | 384 | 61 | 59 | 52 | 76 | | |
| 52 Snowy River (Unfiltered) | 2,070 | 2,650 | 632 | 80 | 69 | 27* | 25 | 40 | 13,551 | 1 | -3 | -9 | -1.8 | 0.1 | 1.9 | -1.9 | 0.1 | 1.9 | 8 | 117 | 0.2 | 37 | 34 | 33 | 264 | 432 | 314 | 330 | 81 | 134 | 130 | 138 | | |
| 53 Berrigan (Dual Supply) | 2,580 | 2,560 | 726 | 63 | 70 | 34* | 28 | 42 | 11,557 | -7 | -5 | -8 | 1.9 | 2.3 | 1.8 | 2.2 | 2.5 | 2.0 | 138 | 108 | 4.6 | 94 | 57 | 55 | 379 | 411 | 415 | 421 | 97 | 97 | 100 | 102 | | |
| 54 Deniliquin | 2,030 | 2,240 | 662 | 75 | 63 | 30* | 27 | 47 | 13,241 | -16 | -13 | -11 | -0.3 | 0.2 | 0.2 | 1.2 | 1.0 | | -263 | -4 | 10.9 | 23 | 21 | 21 | 444 | 489 | 443 | 496 | 216 | 249 | 228 | 260 | | |
| 55 Warrumbungle | 2,100 | 2,150 | 651 | 52 | 72 | 42* | 21 | 51 | 15,396 | -5 | -12 | | -0.5 | -0.6 | | 1.3 | -0.3 | -0.4 | -79 | -39 | | 0 | 5 | 25 | 383 | 383 | 466 | 478 | 60 | 60 | 96 | 88 | | |
| 56 Yass Valley | 1,640 | 4,590 | 1,488 | 36 | 75 | 62* | 25 | 53 | 16,729 | -14 | 0 | -34 | -0.7 | -0.7 | 10.0 | -0.7 | -0.7 | 10.0 | -69 | 819 | 0.3 | 2 | 1 | 0 | | 345 | 356 | 388 | | 149 | 156 | 177 | | |
| Medians (% of LWUs basis) for 3,000 to 10,000 Properties | | | | | | | | | | -7 | | | 1 | | | 112 | | | 458 | | | | 154 | | | | | | | | | | | |
| LWUs with 1,501 - 3,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 Wellington | 2,140 | 2,190 | 756 | 35 | 62 | 63* | 17 | 27 | 9,050 | 26 | 33 | 1 | -0.3 | 1.1 | 1.2 | -0.7 | -0.5 | -0.6 | -55 | -79 | 1.4 | 218 | 167 | 168 | 430 | 483 | 503 | 513 | 149 | 175 | 171 | 187 | | |
| 58 Coolamundra (Reticulator) | 1,300 | 1,590 | 544 | 41 | 73 | 59* | 3 | 13 | 4,573 | -21 | 0 | -21 | -5.8 | -6.8 | -2.8 | -1.9 | -6.5 | -2.8 | -74 | -34 | | 0 | 0 | 0 | 310 | 265 | 245 | 289 | 42 | 45 | 49 | 50 | | |
| 59 Lachlan | 2,060 | 6,610 | 2,344 | 39 | 70 | 67* | 28 | 60 | 21,832 | -12 | 0 | -17 | -0.4 | -0.3 | 14.3 | -5.5 | 0.0 | 14.9 | -9 | 1465 | 10.8 | 0 | 0 | 0 | | 574 | 491 | 551 | | 77 | 77 | 142 | | |
| 60 Glen Innes Severn | 1,030 | 1,200 | 401 | 27 | 75 | 73* | 17 | 35 | 10,430 | -12 | -12 | -12 | -0.7 | -3.4 | -2.0 | 0.4 | -2.4 | -1.4 | -154 | -92 | | 1 | 1 | 1 | 287 | 293 | 351 | 348 | 99 | 107 | 166 | 142 | | |
| 61 Liverpool Plains | 1,190 | 1,700 | 633 | 46 | 70 | 40* | 28 | 48 | 17,466 | -6 | -6 | -2 | -2.5 | -0.7 | 0.2 | -0.4 | -0.4 | 0.2 | -70 | 22 | | 26 | 32 | 57 | 379 | 331 | 322 | 362 | 119 | 88 | 88 | 137 | | |
| 62 Narramine (Groundwater) | 1,110 | 1,130 | 540 | 35 | 75 | 69* | 4 | 16 | 7,453 | -40 | 0 | -45 | 2.1 | 0.9 | 4.8 | -2.1 | 1.3 | 7.2 | 151 | 152 | 2.3 | 0 | 0 | 0 | 357 | 345 | 328 | 378 | 110 | 101 | 140 | 149 | | |
| 63 Narrandera (Groundwater) | 1,380 | 1,340 | 647 | 43 | 63 | 51* | 9 | 15 | 6,763 | -32 | 0 | -36 | 3.0 | 4.5 | 4.1 | 4.7 | 4.9 | 6.8 | 147 | 215 | 5.2 | 0 | 0 | 0 | 370 | 362 | 402 | 420 | 114 | 118 | 138 | 142 | | |
| 65 Murray (Dual Supply) | 1,680 | 1,810 | 656 | 50 | 68 | 57* | 29 | 40 | 13,781 | 3 | 2 | -3 | 0.2 | 0.5 | 1.1 | 3.0 | 0.3 | 1.0 | 27 | 102 | 5.4 | 115 | 63 | 117 | 319 | 340 | 353 | 350 | 108 | 127 | 112 | 105 | | |
| 67 Cobar | 1,700 | 1,340 | 596 | 41 | 74 | 57* | 13 | 25 | 10,633 | -4 | 0 | -2 | -1.1 | 0.9 | -2.3 | | 1.0 | -2.2 | 123 | -122 | 0.3 | 0 | 0 | 0 | 527 | 546 | 538 | 586 | 47 | 34 | 27 | 36 | | |
| 66 Cobar WB (Bulk Supplier) | | 2,020 | | | | | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 Tenterfield | 1,140 | 1,980 | 1,010 | 53 | 63 | 42* | 14 | 39 | 18,790 | -4 | -3 | 1 | -2.6 | -2.3 | 3.7 | | -2.6 | 4.0 | -166 | 291 | 0.3 | 0 | 5 | 15 | 384 | 451 | 406 | 417 | 171 | 191 | 182 | 155 | | |
| 70 Kyogle | 880 | 1,030 | 561 | 46 | 64 | 46* | 8 | 20 | 10,127 | -10 | 0 | -7 | 2.2 | 2.3 | 2.6 | 0.0 | 2.6 | 2.5 | 61 | 22 | 0.2 | 0 | 0 | 10 | 304 | 292 | 292 | 382 | 117 | 104 | 140 | 134 | | |
| 71 Palerang | 1,730 | 1,770 | 884 | 49 | 75 | 42* | 16 | 28 | 13,320 | -14 | -19 | -42 | 4.3 | 5.1 | 4.7 | -2.1 | 5.9 | 11.1 | 421 | 829 | 0.1 | 20 | 10 | 58 | | 354 | 339 | 337 | | 128 | 118 | 108 | | |
| 73 Upper Lachlan | 1,270 | 1,410 | 731 | 46 | 54 | 30* | 12 | 23 | 12,183 | -4 | -2 | -6 | 4.7 | 1.6 | 2.5 | -3.9 | 1.0 | 2.9 | 50 | 172 | | 64 | 62 | 62 | 368 | 376 | 417 | 400 | 103 | 116 | 113 | 117 | | |
| 74 Wentworth (Dual Supply) | 1,680 | 1,930 | 815 | 49 | 75 | 59* | 17 | 21 | 8,548 | -5 | -6 | -12 | 2.8 | 1.4 | 3.2 | 3.0 | 1.5 | 3.5 | 85 | 235 | 15.9 | 135 | 161 | 30 | 438 | 360 | 401 | 387 | 92 | 90 | 74 | 69 | | |
| 75 Coonamble (Groundwater) | 410 | 440 | 257 | 28 | 75 | 73* | 6 | 14 | 8,628 | -45 | 0 | -44 | -8.3 | -5.0 | -5.1 | 5.2 | -0.4 | -1.9 | -12 | -70 | 0.4 | 0 | 0 | 0 | 262 | 377 | 263 | 269 | 28 | 154 | 48 | 56 | | |
| 76 Harden (Reticulator) | 1,460 | 1,600 | 855 | 27 | 61 | 77* | 14 | 29 | 15,001 | -2 | -3 | -6 | -0.6 | -0.3 | -0.7 | | -0.2 | -0.7 | -20 | -55 | 0.1 | 107 | 107 | 173 | 558 | 557 | 387 | 471 | 80 | 103 | 78 | 92 | | |

Table 11: Water supply – financial and efficiency (continued)

| WATER UTILITY | WATER SUPPLY FINANCIAL (SEE ALSO COST RECOVERY TABLE 6) | | | | | | | | | | | | | | | | | | EFFICIENCY (SEE ALSO COST RECOVERY TABLE 6) | | | | | | | | | | | | | | | |
|--|---|------------------------------------|----------------------|---------------------|---|--|---|-------------------------|--------------------------------|--|--|---------------|----------------------|---------------------------|-------|------------------|-----------------|-------------|---|----------------------------------|-----------------|-------|-------------------------------------|---------------|-----|----------------------------------|----------------------|------|------------------------------|-----------------|-----|-----|-----|-----|
| | Total Revenue Water (excl. Capital Works Grants) | | Revenue per property | Residential Revenue | | | Current Replacement Cost (CRC) of System Assets | | | Net Debt to Equity | | | ERRR | | | Return on Assets | | | Operating Result | | Cross Subsidies | | Externalities (Fees to State Water) | Loan Payment | | | Operating Cost (OMA) | | | Management Cost | | | | |
| | (\$'000) | | | (\$) | Res Revenue (% of rates & charges) (%)* | Res Water Supplied (% of water supplied excluding water) | Res Revenue (% of Usage Charges) (%) | Written Down Cost (\$M) | Current Replacement Cost (\$M) | Current Replacement Cost per Assessment (\$) | % | | | see also Table 6 Col (12) | | | (\$/property) | | Annual Fees & Charges (\$/assessment) | Developer Charge (\$/assessment) | (\$/property) | | | (\$/property) | | | (\$/property) | | | | | | | |
| | (57) F 1 | (57) F 1 | (57a) F 5 | | (58) | (59) | (58a) F 4 | (60) | (61) F 9 | (62) | (63) F 22 | (63a) F 17 | (63b) | (65) | (64a) | (64b) | (66) | (66a) | (67) F 11** | (68) ⁺ | | | | | | | | | | | | | | |
| 08/09 09/10 | | 09/10 10/11 | | 09/10 10/11 | | 09/10 10/11 | | 09/10 10/11 | | 07/08 08/09 08/09 | | | 07/08 08/09 08/09 | | | 08/09 09/10 | | 09/10 10/11 | | 09/10 10/11 | | | 06/07 07/08 08/09 | | | 06/07 07/08 08/09 | | | | | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | 1,100 | 1,590 | 1,093 | 55 | 65 | 32* | 10 | 15 | 9,591 | 19 | 12 | -11 | 2.1 | 3.6 | 8.6 | 1.9 | 7.6 | 58 | 338 | | 1.8 | 116 | 181 | 214 | 562 | 496 | 372 | 116 | 114 | 90 | | | |
| 82 | Gloucester | 1,090 | 1,350 | 781 | 30 | 67 | 64* | 9 | 18 | 10,106 | -5 | 0 | -5 | -2.0 | 1.2 | 4.5 | -0.6 | 1.4 | 4.6 | 211 | | 0.3 | 0 | 3 | 468 | 543 | 543 | 373 | 103 | 94 | 94 | 77 | | |
| 83 | Oberon (Reticulator) | 810 | 980 | 704 | 32 | 30 | 43* | 7 | 8 | 6,105 | 4 | 2 | -2 | -0.1 | -1.7 | 0.6 | -2.0 | -1.7 | 0.5 | -55 | 30 | 41126 | | 87 | 86 | 81 | 378 | 567 | 586 | 555 | 65 | 89 | 141 | 91 |
| 84 | Gilgandra (Groundwater) | 690 | 750 | 557 | 37 | 73 | 66* | 10 | 15 | 10,675 | -16 | 0 | -8 | 1.2 | 0.1 | 1.2 | 1.0 | 1.8 | | 34 | 124 | | 2.4 | 0 | 0 | 0 | 235 | 251 | 335 | 315 | 30 | 31 | 59 | 75 |
| 85 | Uralla | 580 | 630 | 408 | 60 | 75 | 41* | 17 | 18 | 11,600 | -3 | 0 | -3 | -0.5 | -0.6 | -0.2 | -1.3 | -0.5 | -0.8 | -76 | -87 | | 0.1 | 0 | 0 | 0 | 417 | 401 | 393 | 389 | 88 | 148 | 129 | 135 |
| 86 | Hay (Dual Supply) | 720 | 950 | 724 | 62 | 63 | 83* | 9 | 17 | 12,583 | -17 | -16 | -10 | -0.9 | -0.5 | -1.5 | 1.0 | 0.5 | -1.1 | 8 | -74 | | 10.2 | 0 | 0 | 0 | 355 | 410 | 410 | 654 | 83 | 93 | 132 | 211 |
| 87 | Bourke (Dual Supply) | 1,230 | 1,330 | 1,118 | 64 | 75 | 86* | 6 | 23 | 19,289 | 0 | -1 | -16 | -3.3 | -0.3 | -2.7 | -2.0 | -0.2 | -2.5 | -77 | -122 | | 0.7 | 177 | 154 | 156 | 646 | 725 | 670 | 796 | 70 | 92 | 179 | 138 |
| 88 | Wakool (Dual Supply) | 1,230 | 1,190 | 837 | 77 | 63 | 73* | 24 | 30 | 20,253 | 3 | 1 | -2 | 0.4 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | -36 | -15 | | 10.3 | 223 | 182 | 155 | 479 | 448 | 525 | 485 | 74 | 73 | 71 | 76 |
| 89 | Bogan | 700 | 880 | 856 | 45 | 63 | 56* | 10 | 25 | 24,945 | 0 | 0 | -6 | -3.0 | -3.8 | -1.9 | 2.3 | -3.6 | -1.8 | -368 | -183 | | 0.2 | 8 | 0 | 0 | 923 | 771 | 735 | 711 | 290 | 176 | 182 | 192 |
| 90 | Guyra | 810 | 910 | 760 | 37 | 53 | 48* | 16 | 20 | 15,760 | -4 | -5 | -8 | 2.1 | 0.9 | 1.1 | -0.1 | 1.0 | 1.2 | 121 | 155 | | 0.1 | 2 | 2 | 2 | 370 | 420 | 430 | 484 | 100 | 93 | 88 | 139 |
| 91 | Cabonne | 870 | 790 | 693 | 30 | 75 | 47* | 19 | 42 | 34,531 | -14 | 0 | -15 | -1.7 | -0.6 | -1.7 | 0.4 | 0.2 | -1.0 | -10 | -212 | | 1.8 | 0 | 0 | 0 | 557 | 515 | 424 | 536 | 119 | 128 | 151 | 216 |
| 92 | Carrathool (Groundwater) | 920 | 1,130 | 997 | 48 | 63 | 60* | 44 | 71 | 59,601 | -1 | 1 | | -1.7 | | -1.9 | | | -1.9 | | -731 | | 7.6 | 37 | 9 | 752 | 782 | 782 | 807 | 133 | 190 | 190 | 143 | |
| 93 | Tumbarumba | 630 | 610 | 531 | 58 | 74 | 43* | 10 | 18 | 14,980 | -5 | -4 | -5 | 0.8 | 0.4 | 0.1 | -3.3 | 0.4 | 0.6 | 8 | 21 | | 0.6 | 9 | 54 | 6 | 258 | 300 | 323 | 338 | 112 | 121 | 129 | 141 |
| 94 | Gundagai | 560 | 550 | 627 | 25 | 50 | 74* | 8 | 15 | 14,271 | -10 | 0 | -11 | -2.0 | -1.6 | -2.4 | -0.9 | -1.9 | | -63 | -170 | | 7.2 | 0 | 0 | 0 | 356 | 355 | 416 | 563 | 80 | 80 | 90 | 215 |
| 96 | Warren (Dual Supply) | 450 | 510 | 533 | 51 | 75 | 59* | 6 | 12 | 11,437 | -4 | -5 | -6 | -0.8 | -1.1 | -0.5 | 0.2 | -0.9 | -0.2 | -73 | -67 | | 9.1 | 25 | 19 | 3 | 340 | 349 | 379 | 393 | 91 | 93 | 101 | 112 |
| 97 | Bombala | 480 | 480 | 570 | 79 | 75 | 18* | 6 | 13 | 14,554 | -16 | 0 | -18 | 1.1 | -0.1 | 0.6 | | | 1.6 | | 83 | | 0.6 | 0 | 0 | 0 | 366 | 271 | 396 | 346 | 137 | 71 | 92 | 84 |
| 98 | Walcha | 460 | 490 | 543 | 31 | 67 | 71* | 15 | 16 | 18,191 | -3 | 0 | -2 | -0.5 | -1.1 | -0.8 | -2.7 | -0.9 | -0.6 | -239 | -103 | | 0.1 | 0 | 0 | 0 | 442 | 478 | 558 | 533 | 106 | 126 | 188 | 173 |
| 100 | Balranald (Dual Supply) | 460 | 600 | 665 | 51 | 75 | 79* | 10 | 14 | 14,825 | 13 | 13 | -2 | 0.3 | -1.6 | -0.5 | 2.6 | -2.3 | -1.2 | -272 | -140 | | 11.8 | 185 | 145 | 140 | 489 | 479 | 479 | 471 | 126 | 124 | 128 | 122 |
| 101 | Murrumbidgee (Groundwater) | 330 | 340 | 370 | 47 | 63 | 40* | 2 | 5 | 6,074 | -28 | 0 | -26 | -1.9 | -2.9 | -7.9 | -0.8 | -0.6 | -5.9 | -22 | -149 | | | 0 | 0 | 0 | 211 | 254 | 282 | 412 | 93 | 101 | 93 | 92 |
| 103 | Central Darling (Dual Supply) | 670 | 590 | 815 | 46 | 63 | 87* | 30 | 39 | 53,650 | -7 | 0 | -1 | 0.0 | 0.9 | -0.9 | -1.6 | 0.0 | -0.8 | -73 | -664 | | | | | | 514 | 565 | 575 | 441 | 75 | 75 | 75 | 75 |
| 104 | Boorowa | 550 | 510 | 825 | 52 | 72 | 61* | 5 | 12 | 17,890 | -2 | -3 | -5 | 3.1 | 2.1 | 1.1 | 1.4 | 2.1 | 1.1 | 66 | 11 | | 0.3 | 97 | 88 | 87 | 292 | 385 | 424 | 482 | 37 | 42 | 40 | 196 |
| 105 | Brewarrina | 640 | 660 | 1,327 | 90 | 63 | 0 | 5 | 11 | 19,729 | -12 | 0 | -14 | -0.2 | -1.5 | -1.0 | -1.4 | -1.2 | -0.8 | -137 | -158 | 433 | 0.6 | 0 | 0 | 0 | 821 | 1001 | 1173 | 1126 | 96 | 233 | 265 | 313 |
| 106 | Jerilderie (Dual Supply) | 340 | 350 | 738 | 70 | 73 | 84* | 4 | 8 | 15,841 | -14 | 0 | -17 | 0.8 | 0.5 | -1.3 | -0.7 | 1.6 | -0.3 | 97 | -68 | | 6.7 | 0 | 0 | 0 | 425 | 412 | 462 | 620 | 86 | 84 | 101 | 109 |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | | | | | | | | | | -6 | | | 0 | | | -74 | | | | | | 484 | | | 135 | | | | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | | | | | | | | | | <i>Current Replacement Cost \$/Assessment 12,880</i> | | | <i>Net D/E -6.6</i> | | | <i>ERRR 0.5</i> | | | | | | <i>Loan payment \$/prop</i> | | | <i>OMA \$ per property \$410</i> | | | <i>Management Cost \$130</i> | | | | | |
| <i>Median All LWUs (Statewide basis)</i> | | | | | | | | | | | 12,200 | | | -1.0 | | | 0.7 | | | | | | 55 | | | \$350 | | | \$134 | | | | | |
| <i>Totals for all LWUs (including bulk suppliers)</i> | | \$580 M Total Water Supply Revenue | | | | | | | | | | | Total CRC \$11,000 M | | | | | | | | | | | | | | | | | | | | | |

* Where the residential revenue from usage charges is reported to be greater than 90%, a maximum value of 90% has been adopted. This is shown in **italics bold** in column (58).

** The Operating Cost and Total Cost shown in the table exclude the purchase cost of water but include part of the operating cost of the bulk water provider, apportioned according to the ratio of water purchased to total water supplied to all customers. This differs from the NWI definition, as indicated in Note 15 on page 27.

+ If the reported management cost is less than \$20/property or not reported, the previous year's management cost has been adopted in column (68) and is shown in **italics bold**. In such cases, the OMA cost per property has not been increased to include this adopted management cost.

Table 12: Water supply – health and levels of service

| WATER UTILITY | HEALTH | | | | | | | | | | | LEVELS OF SERVICE | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|-------------------------|-------------------------------|-------|-------|-------------------------------|-------|-------|-------------------------------------|-------------------------------|-------|---|-------------------------------------|---|---|--------------|-------|---|------------------------|---|------------------------|--------------|--|-------|--------------|---|-------|-------|--|--|--|
| | Risk Based Drinking Water Quality Plan | | Water Quality Compliance (%) | | | | | | | | | Water Quality Complaints (per 1000 properties) | | | Water Service Complaints (per 1000 properties) | | | Customers with Restrictions or Legal Action for non-payment of Bills per 1000 props | | Average Frequency of Unplanned Interruptions (No./1000 properties) | | | Average Duration of Interruptions (Minutes) | | | Drought Water Restrictions (% of time) | | | | | |
| | | | Physical (69) | | | Chemical (70) | | | Microbiological (E. coli) (71) | | | | | | | | | | | | | | | | | | | | | | |
| | Basis? (69a) | External Assessmt (69b) | 1996 NHMRC/ARMCAMZ Guidelines | | | 1996 NHMRC/ARMCAMZ Guidelines | | | No. zones compliant (70a) H 4 | 1996 NHMRC/ARMCAMZ Guidelines | | | No. zones compliant (71a) H 2 | % Pop'n with compliance (71b) H 3 | (73) C 9 | (74) C 10 | | | Restrictions (75a) C18 | | Legal Action (75b) C19 | (77) C 17 | | | (78) C 15 | | | (78A) | | | |
| H6 | H5 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | | |
| Sydney Water | ISO 9001 | Yes | 100 | 100 | 100 | 100 | 100 | 100 | 13 of 13 | 100 | 100 | 100 | 13 of 13 | 100 | 1 | 1 | 0 | 1 | 0.4 | 0.1 | 4.2 | 0.0 | 6 | 5 | 4 | 167 | 141 | 140 | | | |
| Hunter Water | ADWG | No | 100 | 100 | 100 | | | | 5 of 5 | 100 | | | 5 of 5 | 100 | 3 | 3 | 3 | 4 | 0 | 0.3 | 4.5 | 0.0 | 225 | 271 | 255 | 118 | 121 | 119 | | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LWUs with > 10,000 Properties

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|-------|-----|-----|-----|-----|-----|-----|--------|----------|-----|-----|--------|----------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|
| 1 | Gosford | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 94 | 25 | 39 | - | - | 0 | 7.2 | 181 | 203 | 239 | 232 | 238 | 230 | 100 | 100 | 100 | | |
| 2 | Wyong | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 3 | 5 | 5 | 2 | 4 | 3 | 0 | 0.1 | 39 | 61 | 61 | 202 | 210 | 204 | 100 | 100 | 100 | |
| 3 | Shoalhaven | HACCP | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 100 | 100 | 100 | 4 of 4 | 100 | 3 | 3 | 1 | 6 | 1 | 0 | 1 | 0 | 59 | - | 39 | 180 | - | 112 | 0 | 33 | 35 | |
| 4 | Rous (Bulk Supplier) (NO SGE) | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 0 | 0.2 | 0.4 | 0 | 0 | 0.1 | 0 | 0 | 2 | 2 | 2 | 180 | 180 | 180 | 43 | 0 | 0 | |
| 5 | MidCoast (Unfiltered) | ADWG | Yes | 100 | 100 | 100 | 92 | 93 | 92 | 3 of 4 | 100 | 100 | 100 | 4 of 4 | 100 | 27 | 9 | 12 | 27 | 2 | 2 | 2 | 4.6 | - | - | 348 | - | - | 0 | 0 | 0 | |
| 6 | Tweed | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 1 | 1 | 2.9 | 23 | 20 | 3 | 0 | 1 | 34 | 9 | 14 | 120 | 120 | 120 | 0 | 0 | 0 |
| 7 | Port Macquarie-Hastings (Unfiltered) | ADWG | | 100 | 100 | 100 | 100 | 87 | 100 | 5 of 5 | 100 | 100 | 100 | 5 of 5 | 100 | 6 | 9 | 8 | 22 | 18 | 22 | 0.7 | 0.4 | 7 | 11 | 5 | 210 | 178 | 236 | 100 | 100 | 100 |
| 8 | Riverina (Groundwater) (NO SGE) | HACCP | Yes | 100 | 100 | 100 | 100 | 100 | 100 | 10 of 14 | 100 | 100 | 100 | 14 of 14 | 100 | 4 | 2 | 3 | 9 | 13 | 3 | 1 | 0 | 54 | 34 | 39 | 114 | 334 | 206 | 75 | 100 | 100 |
| 10 | Coffs Harbour (Unfiltered) | ADWG | | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 3 | 8 | 4 | 26 | 40 | 10 | 2 | 0 | 20 | 24 | 20 | 120 | 120 | 120 | 0 | 0 | 0 | |
| 11 | Albury City | ADWG | | 100 | 100 | 100 | 100 | 100 | 81 | 0 of 1 | 95 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 1.1 | 8 | 5 | 4 | 0 | 13 | - | - | 227 | 180 | 200 | 100 | 100 | 100 | |
| 12 | Fish River WS (Unfiltered, Bulk Supplier) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 1 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0.6 | 2550 | 2160 | 1440 | 100 | 100 | 100 | |
| 13 | Tamworth Regional | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 6 of 7 | 100 | 100 | 100 | 6 of 7 | 99 | 0 | - | - | 44 | 43 | 48 | 4 | 0 | 7 | - | - | - | - | 100 | 26 | 82 | |
| 14 | Clarence Valley | ADWG | | 100 | 100 | 100 | 100 | 89 | | 4 of 5 | 97 | 100 | 100 | 4 of 5 | 99 | 9 | 3 | 9 | 0 | 12 | 41 | 0 | 7 | - | - | 120 | 120 | - | 0 | 0 | 0 | |
| 15 | Eurobodalla (Unfiltered) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | - | - | 0 | 0 | 0.2 | 0 | 0 | 3 | 2 | 3 | 300 | - | - | 0 | 61 | 100 |
| 16 | Wingecarribee | ADWG | | 100 | 100 | 100 | 100 | 92 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 10 | 5 | 6 | 31 | 36 | 64 | 7 | 3 | 60 | 46 | 61 | 240 | 120 | - | 100 | 100 | 100 |
| 17 | Queanbeyan (Reticulator) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | - | 39 | 5 | 9 | 0 | 13 | 6 | 5 | 210 | 240 | 180 | 100 | 100 | 100 | |
| 18 | Dubbo | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 0.6 | 3 | 2 | 2 | 0 | 0 | 20 | 24 | 31 | 179 | 138 | 138 | 50 | 25 | 0 |
| 19 | Orange | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 1 | 2 | 2 | 81 | 62 | 77 | 0.2 | 0 | 116 | 175 | - | 180 | 180 | 180 | 100 | 100 | 100 |
| 20 | Goulburn Mulwaree | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 11 | 6 | 4 | 42 | 35 | 38 | 8 | 0 | - | - | - | 90 | 180 | 180 | 100 | 100 | 100 |
| 21 | Bathurst Regional | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 24 | 14 | 17 | 55 | 74 | 63 | 0 | 0 | 3 | 2 | 2 | 120 | 120 | 120 | 0 | 0 | 0 |
| 22 | Lismore (Reticulator) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 2 | 4 | 58 | 72 | 4 | 0 | 1 | 42 | 49 | 37 | 208 | 351 | 271 | 0 | 0 | 0 |
| 23 | Bega Valley (Unfiltered) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 5 of 6 | 100 | 100 | 100 | 6 of 6 | 100 | 2 | 2 | 2 | 4 | 3 | 3 | 0 | 0 | - | - | 180 | 180 | 180 | 0 | 0 | 22 | |
| 24 | Ballina (Reticulator) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0.0 | 3 | 0 | 1 | 3 | 0 | 0 | - | - | 120 | 120 | 120 | 0 | 0 | 0 | |
| 25 | Kempsey (Groundwater) | NHMRC | | 100 | 100 | 100 | 100 | 100 | 100 | 7 of 7 | 100 | 100 | 100 | 7 of 7 | 100 | 0 | 0 | 1.3 | 0 | 0 | 0.2 | 1 | 0 | 69 | 114 | 23 | 111 | 100 | 159 | 0 | 0 | 0 |
| 26 | Country Energy | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 0 | 0 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | - | - | 60 | 60 | - | 0 | 0 | 0 | |
| 27 | Byron (Reticulator) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 0.2 | 1 | 0 | 0 | 7.8 | 0 | 10 | 9 | 11 | 120 | 120 | 120 | 41 | 0 | 0 |
| 28A | Goldenfields (Reticulator) (NO SGE) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 7 | 7 | 7 | 66 | | 49 | 7 | 0 | 159 | | 117 | 180 | 191 | 272 | 98 | 100 | 100 |
| 28B | Goldenfields (Bulk Supplier) (NO SGE) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 2 of 3 | 99 | | | | | | | 0 | | | | | | | 0 | 0 | 0 | |

Medians (% of LWUs basis excl bulk suppliers) for >10,000 Properties

LWUs with 3,001 - 10,000 Properties

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----------------------------|------|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|--------|-----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 29 | Armidale Dumaresq | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | |
| 30 | Griffith | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 1 | 1 | 1.2 | 6 | 39 | 48 | 2.9 | 163 | 27 | 24 | 24 | 180 | 180 | 120 | 100 | 100 | 100 |
| 31 | Lithgow | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | | 6 | 38 | 2 | - | - | 0 | 8 | 13 | - | - | 120 | 120 | | 100 | 100 | |
| 32 | Mid-Western Regional | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 96 | 100 | 96 | 1 of 3 | 16 | 1 | 2 | 3 | 34 | 49 | 54 | 8 | 1 | 34 | 49 | 56 | 120 | 120 | 120 | 0 | 0 | 0 |
| 33 | Richmond Valley | | 100 | 100 | 100 | 90 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 17 | 0 | 0 | 1 | 1 | 1 | - | - | 4 | - | - | 120 | - | - | 40 | 0 | 30 |
| 34 | Nambucca (Groundwater) | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 1 | 1 | 1.3 | 10 | 10 | 4 | - | 0 | 8 | - | - | 120 | 120 | 120 | 100 | 100 | 100 |
| 35 | Singleton | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 2 | 1 | 5.3 | 30 | 6 | 25 | 0 | 3 | 320 | 318 | 219 | 120 | 120 | 120 | 95 | 0 | 0 |
| 36 | Parkes | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 4 | 1 | - | 6 | 7 | 3 | 0 | 0 | - | - | - | 120 | 120 | 120 | 100 | 100 | 100 |
| 37 | Inverell | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 2 | 1 | 0.9 | 4 | 3 | 2 | 6 | 0 | 4 | 2 | 2 | 60 | 50 | 60 | 0 | 0 | 0 |
| 38 | Moree Plains (Groundwater) | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 6 of 6 | 100 | 100 | 100 | 5 of 6 | 93 | 3 | 10 | 1 | 95 | 56 | 78 | - | - | 453 | 739 | 659 | 65 | 60 | 180 | 0 | 8 | 0 |
| 39 | Cowra | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |

Table 12: Water supply – health and levels of service (continued)

| WATER UTILITY | | HEALTH | | | | | | | | | | | LEVELS OF SERVICE | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|-------------------------|-------------------------------|-----|-----|-------------------------------|-----|-----|---------------------------|-----|-----|-------------------------------|--------|-----|--------------------------|----|-----|---|-----|--|-------------------|-----------------------|-----------------------------------|-------------------|-----------|----------------------------|-------------------|-------------|-----|-------------------|-----------|---|-------------------|-----------|--|--|-------|
| | | Risk Based Drinking Water Quality Plan | | Water Quality Compliance (%) | | | | | | | | | Water Quality Complaints | | | Water Service Complaints | | | Customers with Restrictions or Legal Action for non-payment of Bills per 1000 props | | Average Frequency of Unplanned Interruptions | | | Average Duration of Interruptions | | | Drought Water Restrictions | | | | | | | | | | | |
| | | | | Physical | | | Chemical | | | Microbiological (E. coli) | | | (per 1000 properties) | | | (per 1000 properties) | | | Restrictions (75a) C18 | | Legal Action (75b) C19 | | (No./1000 properties) | | | (Minutes) | | | (% of time) | | | | | | | | | |
| | | | | (69) | | | (70) | | | No. Zones compliant | | | (71) | | | No. Zones compliant | | | % Pop'n with compliance | | | (73) C 9 | | | (74) C 10 | | | | | | | (77) C 17 | | | (78) C 15 | | | (78A) |
| | | Basis? (69a) | External Assessmt (69b) | 1996 NHMRC/ARMCAMZ Guidelines | | | 1996 NHMRC/ARMCAMZ Guidelines | | | (70a) H 4 | | | 1996 NHMRC/ARMCAMZ Guidelines | | | (71a) H 2 | | | (71b) H 3 | | | 07/08 08/09 09/10 | | | 07/08 08/09 09/10 | | | 07/08 08/09 09/10 | | | 07/08 08/09 09/10 | | | 07/08 08/09 09/10 | | | | |
| 42 | Corowa | | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 4 | 100 | 100 | 100 | 3 of 4 | 100 | 4 | 4 | 5 | 3 | 2 | 13 | 0 | 30 | 30 | 15 | 46 | 120 | 120 | 120 | 100 | 100 | 100 | | | | | | |
| 43 | Tumut | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 5 | 100 | 100 | 100 | 5 of 5 | 100 | 0 | 5 | 1 | 6 | 2 | 3 | 0 | 1 | - | 3 | 240 | 120 | 120 | 75 | 100 | 87 | | | | | | | |
| 44 | Gunnedah (Groundwater) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 94 | 96 | 100 | 3 of 4 | 99 | 0 | 0 | 0.9 | 4 | 8 | - | 0 | 0 | 3 | 3 | 3 | 120 | 120 | 120 | 100 | 100 | 100 | | | | | | |
| 45 | Upper Hunter | | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 100 | 100 | 100 | 4 of 4 | 100 | 1 | 0 | 1.1 | 6 | 71 | 65 | 0 | 0 | 17 | 33 | 27 | 60 | 45 | 45 | 62 | 10 | 12 | | | | | | |
| 46 | Narrabri (Groundwater) | | | 100 | 100 | 100 | 100 | 100 | 100 | 6 of 6 | 100 | 100 | 100 | 6 of 6 | 100 | 30 | 19 | 18 | 30 | 30 | 34 | 0 | 0 | 90 | 23 | 16 | 120 | 120 | 120 | 0 | 23 | 26 | | | | | | |
| 47 | Bellingen (Unfiltered) | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 1 | 2 | 1 | 29 | 23 | 9 | 0 | 7 | - | - | 120 | 120 | 120 | 0 | 0 | 0 | | | | | | | |
| 48 | Leeton | | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 100 | 100 | 100 | 4 of 4 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 26 | 11 | 120 | 120 | 120 | 100 | 100 | 100 | | | | | | |
| 49 | Young (Reticulator) | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 0 | 6 | 9 | - | - | - | 25 | 26 | - | 120 | 120 | - | 100 | 100 | - | | | | | | |
| 50 | Cooma-Monaro | | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 3 | 1 | 1 | 6 | 22 | 20 | 1 | - | - | - | 180 | 180 | 180 | 100 | 100 | 100 | | | | | | | |
| 51 | Forbes | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 1 | 1 | 1.9 | 3 | 7 | 11 | 2 | 0 | 123 | 88 | 118 | 127 | 135 | 113 | 100 | 100 | 100 | | | | | | |
| 52 | Snowy River (Unfiltered) | | | 100 | 100 | 100 | 100 | 100 | 100 | 5 of 5 | 95 | 100 | 100 | 3 of 5 | 56 | 1 | 0 | 0 | 5 | 0 | 3 | 0 | 0 | 1 | 4 | 120 | 120 | 120 | 1 | 0 | 0 | | | | | | | |
| 53 | Berrigan (Dual Supply) | | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 100 | 100 | 100 | 4 of 4 | 100 | 0 | 0 | 0 | 9 | 22 | 17 | 0 | 3 | 11 | 59 | 57 | 60 | 120 | 120 | 100 | 100 | 100 | | | | | | |
| 54 | Deniliquin | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 4 | 3 | - | 17 | 33 | - | - | - | 2 | 15 | - | 60 | 60 | - | 100 | 100 | 100 | | | | | | |
| 55 | Warrumbungle | | | 100 | 100 | 100 | 100 | 100 | 100 | 8 of 8 | 100 | 100 | 95 | 4 of 8 | 46 | 1 | 1 | 14 | 0 | 0 | 0 | 0 | - | - | - | 120 | 120 | 120 | 100 | 100 | 100 | | | | | | | |
| 56 | Yass Valley | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 96 | 100 | 1 of 1 | 100 | 1 | 2 | 3 | 6 | 11 | 17 | 4 | 0 | 27 | 36 | 42 | 240 | 240 | 220 | 100 | 100 | 100 | | | | | | |
| <i>Medians (% of LWUs basis) for 3,000 to 10,000 Properties</i> | | | | 100 | | | 100 | | | 100 | | | 1 | | | 26 | | | 120 | | | 100 | | | | | | | | | | | | | | | | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Wellington | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 0 | 0 | 0 | 84 | 18 | 12 | 7 | 0 | 29 | 45 | 39 | 120 | 120 | 120 | 33 | 0 | 0 | | | | | | |
| 58 | Cootamundra (Reticulator) | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 52 | 65 | 57 | 0 | 39 | 9 | 9 | 9 | 9 | 9 | 9 | 120 | 120 | 120 | 100 | 100 | 100 | | | | | | |
| 59 | Lachlan | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 2 of 3 | 89 | 7 | 6 | 3 | 7 | 6 | 5 | 33 | 0 | 23 | 16 | 11 | 90 | 85 | 90 | 100 | 100 | 100 | | | | | | |
| 60 | Glen Innes Severn | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 97 | 100 | 2 of 2 | 100 | 8 | 4 | 0 | 5 | 3 | 0 | 6 | 0 | 70 | 40 | 33 | 180 | 180 | 180 | 0 | 8 | 25 | | | | | | |
| 61 | Liverpool Plains | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 0 | 0 | 0 | 42 | 48 | - | - | 28 | 38 | 85 | 85 | 100 | 100 | 100 | 100 | 100 | | | | | | | |
| 62 | Narramine (Groundwater) | ADWG | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 0 | 0 | 0 | 151 | 199 | 204 | 0 | 4 | 64 | 51 | 24 | 180 | 180 | 180 | 13 | 0 | 24 | | | | | | |
| 63 | Narrandera (Groundwater) | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 97 | 0 of 1 | 100 | 0 | 0 | - | 2 | 1 | - | - | - | 75 | - | - | 90 | 90 | - | 0 | 0 | 0 | | | | | | |
| 65 | Murray (Dual Supply) | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 50 | 28 | 8 | 130 | 120 | 90 | 100 | 100 | 100 | | | | | | | |
| 67 | Cobar | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 7 | 6 | 5 | 6 | 0 | 1 | 2 | 1 | 3 | 120 | 60 | 60 | 100 | 100 | 100 | | | | | | |
| 66 | Cobar WB (Bulk Supplier Raw Water only) | | | | | | | | | | | | | | | | | | | | | - | - | | | | | | | | 100 | 100 | 0 | | | | | |
| 68 | Tenterfield | | | 45 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 97 | 100 | 98 | 2 of 2 | 100 | 9 | 0 | 6 | 14 | - | 3 | - | - | 39 | - | - | 130 | - | 120 | 100 | 100 | 100 | | | | | | |
| 70 | Kyogle | | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 3 | 2 | 3 | 28 | 19 | 21 | 0 | 0 | 3 | 4 | 7 | 120 | 120 | 120 | 100 | 100 | 100 | | | | | | |
| 71 | Palerang | | | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 93 | 100 | 100 | 3 of 3 | 100 | 3 | 4 | 3 | 70 | 59 | 55 | 0 | 0 | 33 | 31 | 30 | 100 | 100 | 60 | 100 | 100 | 100 | | | | | | |
| 73 | Upper Lachlan | | | 100 | 100 | 100 | 100 | 70 | 70 | 3 of 4 | 100 | 100 | 100 | 3 of 4 | 91 | 3 | 5 | 10 | 3 | 2 | 3 | 0 | 0 | 3 | 3 | 5 | 120 | 100 | 120 | 0 | 0 | 0 | | | | | | |
| 74 | Wentworth (Dual Supply) | ADWG | Yes | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 100 | 100 | 3 of 3 | 100 | 4 | 5 | 3 | 11 | 8 | 0 | 0 | 9 | 6 | 60 | 60 | 100 | 100 | 100 | 100 | 100 | | | | | | | |
| 75 | Coonamble (Groundwater) | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 3 | 100 | 97 | 100 | 3 of 3 | 100 | 19 | 0 | 16 | 100 | 91 | 73 | 0 | 5 | 63 | 60 | 35 | 60 | 60 | 60 | 0 | 0 | 0 | | | | | | |
| 76 | Harden (Reticulator) | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 14 | - | 21 | 18 | 48 | 3 | 8 | 3 | 6 | 11 | 50 | 60 | 60 | 11 | 100 | 100 | | | | | | |
| 79 | Walgett (Dual Supply) | | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 95 | 1 of 2 | 100 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | |
| 80 | Greater Hume | | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 2 | 97 | 100 | 100 | 2 of 2 | 100 | 0 | 0 | 0 | 6 | 6 | 6 | 0 | 0 | 30 | 30 | 28 | 180 | 90 | 120 | 100 | 100 | 100 | | | | | | |
| <i>Medians (% of LWUs basis) for 1,500 to 3,000 Properties</i> | | | | 100 | | | 100 | | | 100 | | | 3 | | | 11 | | | 105 | | | 100 | | | | | | | | | | | | | | | | |

Table 12: Water supply – health and levels of service (continued)

| WATER UTILITY | HEALTH | | | | | | | | | | | | LEVELS OF SERVICE | | | | | | | | | | | | | | | | | | |
|--|--|--|-------------------------------|-------|---|-------------------------------|-------|--|-----------------------------------|-------------------------------|--|---|---------------------|---|--------------|---|---------------------------|---|--------------|-------|--|--------------|-------|---|-------|-------|-------|-------|-----|-----|-----|
| | Risk Based Drinking Water Quality Plan | | Water Quality Compliance (%) | | | | | | | | | Water Quality Complaints (per 1000 properties) | | Water Service Complaints (per 1000 properties) | | Customers with Restrictions or Legal Action for non-payment of Bills per 1000 props | | Average Frequency of Unplanned Interruptions (No./1000 properties) | | | Average Duration of Interruptions (Minutes) | | | Drought Water Restrictions (% of time) | | | | | | | |
| | | | Physical (69) | | | Chemical (70) | | | Microbiological (E. coli) (71) | | | | | | | | | | | | | | | | | | | | | | |
| | Basis? (69a) | External Assessmt (69b) | 1996 NHMRC/ARMCAMZ Guidelines | | | 1996 NHMRC/ARMCAMZ Guidelines | | | No. Zones compliant | 1996 NHMRC/ARMCAMZ Guidelines | | | No. Zones compliant | % Pop'n with compliance | (73) C 9 | (74) C 10 | Restrictions (75a) C18 | Legal Action (75b) C19 | (77) C 17 | | | (78) C 15 | | | (78A) | | | | | | |
| H6 | H5 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | HACCP | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 100 | 97 | 100 | 4 of 4 | 100 | 3 | 0 | 4 | 0 | 0 | 0 | 34 | 11 | 13 | 10 | 180 | 180 | 180 | 0 | 0 | 0 | |
| 82 | Gloucester | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 92 | 100 | 91 | 1 of 2 | 95 | 3 | 3 | 3 | 29 | 59 | 1 | 0 | 62 | 10 | 300 | 230 | 240 | 0 | 0 | 0 | | |
| 83 | Oberon (Reticulator) | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 3 | 3 | 4 | 7 | 12 | 1 | - | 31 | 14 | 32 | 120 | 120 | 90 | 100 | 100 | 100 | |
| 84 | Gilgandra (Groundwater) | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 7 | 7 | 11 | 26 | 29 | 37 | 0 | 0 | 37 | 36 | 37 | 100 | 100 | 100 | 0 | 0 | 0 |
| 85 | Uralla | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 97 | 97 | 1 of 2 | 92 | 4 | 2 | 20 | 1 | 1 | 8 | 0 | 0 | 29 | 17 | 78 | 120 | 120 | 120 | 0 | 0 | 0 |
| 86 | Hay (Dual Supply) | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 0 | 11 | 11 | 11 | 0 | 0 | 11 | 11 | 11 | 300 | 300 | 300 | 100 | 100 | 100 |
| 87 | Bourke (Dual Supply) | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 95 | 100 | 96 | 0 of 1 | 0 | 0 | 4 | 3 | 29 | 34 | 1 | 34 | 823 | 815 | 844 | 180 | 120 | 60 | 0 | 0 | 13 | |
| 88 | Wakool (Dual Supply) | | 100 | 100 | 100 | 100 | 100 | 100 | 5 of 5 | 100 | 100 | 100 | 3 of 5 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | 100 | 100 | - | |
| 89 | Bogan | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 92 | 100 | 1 of 1 | 100 | 1 | 0 | - | 19 | 48 | 49 | 0 | 0 | 19 | 10 | 71 | 180 | 180 | 120 | 100 | 0 | 0 |
| 90 | Guyra | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 1 | 1.7 | 4 | 3 | 0 | 0 | 0 | 19 | 15 | 180 | 120 | 0 | 0 | 0 | | | |
| 91 | Cabonne | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | 100 | 100 | 100 | 2 of 3 | 87 | 3 | 3 | 0 | 54 | 32 | 38 | 0 | 0 | 25 | - | - | 240 | 240 | 180 | 100 | 74 | 61 |
| 92 | Carrathool (Groundwater) | | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 5 | 96 | 94 | 100 | 3 of 3 | 87 | 2 | 4 | 2 | 28 | 36 | 47 | 0 | 0 | 394 | - | 221 | 180 | 180 | 180 | 100 | 100 | 100 |
| 93 | Tumbarumba | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 91 | 97 | 1 of 2 | 0 | 9 | 2 | 2 | 3 | 5 | 0 | 4 | 13 | 22 | 35 | 100 | 120 | 120 | 0 | 100 | 100 | |
| 94 | Gundagai | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 5 | 5 | 6 | 9 | 5 | 9 | 0 | 11 | 28 | 29 | 34 | 120 | 60 | 60 | 100 | 100 | 100 |
| 96 | Warren (Dual Supply) | HACCP | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | 100 | 97 | 95 | 0 of 3 | 0 | 11 | 18 | 0 | 23 | 71 | 37 | 0 | 6 | 3 | 3 | - | 240 | 120 | 120 | 8 | 0 | 0 |
| 97 | Bombala | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 1 | 1 | 0.0 | 1 | 2 | 7 | 0 | 0 | 18 | 20 | 56 | 53 | - | 100 | - | | |
| 98 | Walcha | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 1 | 1.1 | 5 | 4 | 2 | 0 | 0 | 6 | 7 | 6 | 60 | 70 | 60 | 0 | 0 | 0 |
| 100 | Balranald (Dual Supply) | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 2 of 2 | 100 | 1 | 2 | 1 | 7 | 6 | 86 | 0 | 0 | 60 | 60 | 60 | 100 | 100 | 100 | 100 | 100 | 100 |
| 101 | Murrumbidgee (Groundwater) | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 96 | 100 | 2 of 2 | 0 | 0 | 0 | 0 | 24 | - | - | - | - | - | - | - | - | - | - | 0 | - | - |
| 103 | Central Darling (Dual Supply) | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 97 | 100 | 97 | 1 of 2 | 0 | 12 | 13 | 0 | 44 | 30 | - | - | - | 87 | 29 | - | 150 | 120 | - | 58 | 55 | - |
| 104 | Boorowa | | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 100 | 1 of 1 | 100 | 0 | 0 | 0 | 5 | 3 | 3 | 5 | 0 | 44 | 7 | 3 | 180 | 120 | 100 | 100 | 100 | 100 |
| 105 | Brewarrina | | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | 100 | 100 | 100 | 1 of 2 | 84 | 2 | 0 | 0 | 4 | 2 | 51 | 0 | - | 40 | 30 | 60 | 0 | 0 | 0 | 0 | 0 | |
| 106 | Jerilderie (Dual Supply) | ADWG | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 100 | 100 | 93 | 0 of 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 120 | 120 | 120 | 84 | 100 | 100 | | |
| <i>Medians (% of LWUs) for 200 to 1,500 Properties</i> | | | 100 | | | 100 | | | 100 | | | 1 | | | 33 | | | 120 | | | 37 | | | | | | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | | Physical 100 | | | Chemical 100 | | | Microbiological 100 | | | Quality Complaints 2 | | | Service 9 | | | Interruption Frequency 24 | | | Duration 120 | | | Restrictions 87 | | | | | | | |
| <i>Median All LWUs (Statewide basis)</i> | | | 100 | | | 100 | | | 100 | | | 4 | | | Complaints 3 | | | 37 | | | 159 | | | 87 | | | | | | | |
| <i>Totals for all LWUs (including bulk suppliers)</i> | | <i>Physical 96 LWUs complied (100% of 96 LWUs)</i> | | | <i>Chemical 92 LWUs complied (96% of 96 LWUs)</i> | | | <i>E. coli 85 LWUs complied (89% of 96 LWUs)</i> | | | <i>32 LWUs applied restrictions for non payment of bills</i> | | | <i>56 LWUs reported applying water restrictions (ie. 60% of LWUs reported water restrictions)</i> | | | | | | | | | | | | | | | | | |
| 41 LWUs reported having a Water Quality Plan | | | 98% of 24000 samples complied | | | 98% of 21400 samples complied | | | 99% of 20700 samples complied | | | | | | | | | | | | | | | | | | | | | | |

- NOTES:
- Where the compliance for physical or chemical water quality is equal to or greater than 95%, compliance is deemed to be 100%. Refer also to Note 6 on page 237.
 - Where the compliance for microbiological water quality is equal to or greater than 98%, compliance is deemed to be 100%. Refer also to Note 6 on page 237.

Table 13: Water supply – benchmarking cost data (operation, maintenance and management)

| WATER UTILITY | OPERATION & MAINTENANCE (O&M) COST ² | | | | | | | | | | | MANAGEMENT COST | | | OMA ¹ | | O & M Cost Components for TYPE of ASSET | | | | | | | | | | | | | | |
|---------------|---|--------------------------|-----------|--------|-----------|---------------|--------------------------------|-------|------------|------------------|-----------------|----------------------|------------|---------------------------|-----------------------|--------------------------------------|---|--------------|-----------------|----------|----------------|------------------|-------------|----------|----------|----------------|------------------|----------|----------------|------------------|----------|
| | Total O&M Cost \$/prop (79a) | Components (1) - Process | | | | | Components (2) - Type of Asset | | | | | | Components | | | Total OMA Cost (\$/prop) (91a) | Components | | PUMPING STATION | | | | WATER MAIN | | | TREATMENT | | | | | |
| | | Maintenance | Operation | Energy | Chemicals | Bulk Purchase | Dams & Weirs | Mains | Reservoirs | Pumping Stations | Water Treatment | Other Bulk Purchases | Admin | Engineering & Supervision | Total Management Cost | | Head works | Distribution | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | Energy Cost | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | O&M Cost | Operation Cost | Maintenance Cost | Chemical |
| | | (79) | (80) | (81) | (82) | (82a) | (83) | (84) | (85) | (86) | (87) | (88) | (89) | (90) | (91) | | (92) | (93) | (94) | (95) | (96) | (97) | (98) | (100) | (101) | (102) | (103) | (104) | (105) | (106) | (107) |

LWUs with > 10,000 Properties

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|-----|-----|-----|----|----|-----|----|-----|----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|--|
| 1 | Gosford | 220 | 96 | 73 | 15 | 14 | 21 | 29 | 56 | 12 | 35 | 40 | 27 | 121 | 13 | 133 | 69 | 353 | 18 | 102 | 35 | 21 | 45 | 29 | 389 | 69 | 319 | 205 | 17 | 9 | 14 | | | |
| 2 | Wyong | 208 | 117 | 71 | | | 20 | 17 | 117 | 4 | 24 | 21 | 3 | 184 | | 184 | 60 | 391 | 98 | 294 | 8 | 70 | 44 | 25 | 38 | 613 | 252 | 360 | 70 | 4 | 18 | | | |
| 3 | Shoalhaven | 150 | 36 | 84 | 19 | 10 | 0 | 3 | 47 | 7 | 26 | 39 | 28 | 96 | 28 | 124 | 37 | 274 | 79 | 194 | 8 | 47 | 6 | 6 | 34 | 14 | 143 | 74 | 69 | 116 | 21 | 7 | 10 | |
| 4 | Rous (Bulk Supplier) (NO SGE) | 110 | 40 | 38 | 16 | 16 | | 14 | 9 | 4 | 19 | 41 | 24 | 71 | 24 | 94 | 35 | 204 | 194 | 10 | 7 | 212 | 5 | 29 | 177 | 3 | 346 | | 346 | 150 | 13 | 12 | 16 | |
| 5 | MidCoast (Unfiltered) | 243 | 99 | 113 | 23 | 8 | 0 | 1 | 89 | 10 | 30 | 28 | 85 | 54 | 18 | 72 | 29 | 316 | 126 | 189 | 12 | 41 | 2 | 7 | 33 | 35 | 259 | 27 | 232 | 111 | 15 | 5 | 8 | |
| 6 | Tweed | 197 | 82 | 59 | 31 | 24 | 1 | 12 | 45 | 6 | 41 | 53 | 40 | 113 | 45 | 159 | 47 | 356 | 128 | 228 | 12 | 47 | 4 | 7 | 36 | 13 | 201 | | 201 | 158 | 27 | 2 | 24 | |
| 7 | Port Macquarie-Hastings (Unfiltered) | 184 | 67 | 91 | 18 | 5 | 3 | 17 | 45 | 8 | 35 | 25 | 51 | 87 | 37 | 124 | 55 | 308 | 123 | 185 | 15 | 53 | 2 | 23 | 28 | 20 | 169 | 103 | 66 | 111 | 12 | 8 | 5 | |
| 8 | Riverina (Groundwater) (NO SGE) | 218 | 74 | 55 | 69 | 20 | 0 | | 32 | 7 | 103 | 37 | 38 | 67 | 27 | 94 | 17 | 312 | 206 | 106 | 19 | 80 | 13 | 13 | 53 | 6 | 58 | 8 | 50 | 67 | 14 | 4 | 20 | |
| 10 | Coffs Harbour (Unfiltered) | 166 | 72 | 71 | 7 | 18 | -3 | 14 | 54 | 13 | 14 | 55 | 18 | 93 | 41 | 134 | 49 | 300 | | | 5 | 47 | 11 | 11 | 25 | 20 | 213 | 32 | 180 | 199 | 31 | 5 | 18 | |
| 11 | Albury City | 163 | 51 | 41 | 59 | 7 | 5 | | 32 | 11 | 65 | 36 | 14 | 104 | 1 | 105 | 33 | 269 | 75 | 166 | 20 | 69 | 0 | 6 | 64 | 10 | 130 | | 130 | 114 | 19 | 10 | 7 | |
| 12 | Fish River WS (Unfiltered, Bulk Supplier) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Tamworth Regional | 312 | 147 | 144 | 6 | 15 | | 27 | 87 | 9 | 19 | 147 | 23 | 47 | 92 | 139 | 30 | 451 | 266 | 185 | 4 | 25 | 4 | 13 | 8 | 19 | 273 | 78 | 195 | 321 | 85 | 47 | 15 | |
| 14 | Clarence Valley | 168 | 73 | 78 | 3 | 11 | 3 | 6 | 58 | 7 | 6 | 20 | 68 | 110 | 35 | 145 | 45 | 313 | 16 | 297 | 2 | 7 | 1 | 3 | 3 | 18 | 111 | 2 | 109 | 64 | 7 | 2 | 11 | |
| 15 | Eurobodalla (Unfiltered) | 203 | 52 | 118 | 32 | 1 | | 5 | 111 | 13 | 58 | 1 | 14 | 133 | | 133 | 60 | 336 | 91 | 245 | 26 | 87 | 27 | 12 | 48 | 50 | 230 | 151 | 79 | 7 | 0 | 0 | 1 | |
| 16 | Wingecarribee | 170 | 59 | 24 | 29 | 14 | 45 | 4 | 24 | 11 | 33 | 54 | 0 | 98 | 40 | 138 | 51 | 308 | 228 | 80 | 12 | 38 | 1 | 4 | 33 | 9 | 68 | | 68 | 200 | 17 | 23 | 14 | |
| 17 | Queanbeyan (Reticulator) | 335 | 20 | 83 | 2 | | 229 | | 88 | 3 | 9 | | 5 | 118 | | 118 | 44 | 453 | | 453 | 3 | 37 | 8 | 21 | 9 | 33 | 505 | 429 | 76 | | | | | |
| 18 | Dubbo | 292 | 79 | 140 | 13 | 60 | | | 56 | 5 | 18 | 161 | 53 | 136 | 23 | 159 | 35 | 451 | 284 | 167 | 4 | 33 | 3 | 7 | 24 | 12 | 202 | 11 | 191 | 352 | 79 | 21 | 60 | |
| 19 | Orange | 163 | 47 | 76 | 29 | 12 | | 25 | 48 | | 35 | 55 | | 75 | 43 | 118 | 27 | 281 | 152 | 129 | 8 | 81 | 15 | | 66 | 11 | 154 | 63 | 91 | 127 | 36 | 6 | 12 | |
| 20 | Goulburn Mulwaree | 266 | 101 | 125 | 19 | 18 | 3 | 24 | 116 | 4 | 19 | 72 | 27 | 82 | 35 | 116 | 54 | 383 | 31 | 38 | 9 | 25 | | 1 | 24 | 54 | 442 | 196 | 246 | 333 | 48 | 6 | 18 | |
| 21 | Bathurst Regional | 258 | 110 | 89 | 9 | 51 | | 36 | 68 | 6 | 12 | 123 | 13 | 118 | 51 | 169 | 41 | 427 | 243 | 184 | 3 | 18 | 0 | 5 | 13 | 17 | 270 | 19 | 251 | 302 | 53 | 20 | 51 | |
| 22 | Lismore (Reticulator) | 313 | 23 | 95 | 1 | | 194 | | 66 | 3 | 7 | | 43 | 70 | 14 | 84 | 31 | 397 | | 397 | 3 | 20 | 15 | 4 | 2 | 25 | 274 | 274 | | | | | | |
| 23 | Bega Valley (Unfiltered) | 213 | 95 | 87 | 29 | 2 | | 15 | 91 | 23 | 49 | 35 | | 87 | 101 | 188 | 63 | 402 | 181 | 221 | 16 | 36 | 5 | 10 | 22 | 30 | 222 | 89 | 132 | 117 | 22 | 11 | 2 | |
| 24 | Ballina (Reticulator) | 311 | 51 | 52 | 2 | | 205 | | 45 | 4 | 7 | 5 | 44 | 93 | 13 | 106 | 32 | 417 | 21 | 396 | 2 | 25 | 17 | | 8 | 14 | 185 | 95 | 90 | 14 | 5 | | | |
| 25 | Kempsey (Groundwater) | 233 | 113 | 78 | 33 | 9 | | 6 | 59 | 23 | 50 | 93 | 2 | 72 | 67 | 139 | 45 | 372 | 276 | 97 | 16 | 31 | 1 | 10 | 20 | 19 | 134 | 3 | 131 | 303 | 67 | 17 | 9 | |
| 26 | Country Energy | 636 | 274 | 199 | 86 | 78 | | | 182 | 21 | 179 | 255 | | 128 | 53 | 181 | 32 | 817 | 531 | 286 | 32 | 170 | 39 | 50 | 82 | 32 | 523 | 78 | 446 | 450 | 123 | 55 | 78 | |
| 27 | Byron (Reticulator) | 287 | 33 | 66 | | 5 | 183 | | 22 | 23 | | 18 | 40 | 107 | 15 | 122 | 41 | 409 | 20 | 389 | | | | | | 7 | 99 | 74 | 25 | 62 | 12 | 1 | 5 | |
| 28A | Goldenfields (Reticulator) (NO SGE) | 528 | 165 | 53 | 31 | 1 | 278 | | 111 | 18 | 65 | 1 | 55 | 83 | 83 | 165 | 32 | 694 | 354 | 340 | 13 | 30 | 3 | 12 | 14 | 22 | 61 | 16 | 45 | 3 | 0 | 1 | 1 | |
| 28B | Goldenfields (Bulk Supplier) (NO SGE) | 189 | 59 | 29 | 81 | 18 | 2 | | 18 | 4 | 112 | 40 | 13 | 31 | 31 | 62 | 13 | 252 | 249 | 3 | 24 | 140 | 6 | 32 | 102 | 4 | 109 | 23 | 86 | 86 | 15 | 7 | 18 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----|----|----|----|----|---|----|----|---|----|----|----|----|----|-----|----|-----|-----|-----|---|----|---|----|----|----|-----|----|-----|-----|----|---|----|
| <i>Medians (% of LWUs basis excl bulk suppliers) for >10,000 Properties</i> | | 219 | 74 | 81 | 19 | 13 | 4 | 15 | 57 | 8 | 30 | 39 | 27 | 97 | 35 | 133 | 43 | 364 | 127 | 192 | 9 | 41 | 6 | 10 | 26 | 19 | 207 | 74 | 131 | 122 | 20 | 8 | 13 |
|--|--|-----|----|----|----|----|---|----|----|---|----|----|----|----|----|-----|----|-----|-----|-----|---|----|---|----|----|----|-----|----|-----|-----|----|---|----|

LWUs with 3,001 - 10,000 Properties

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----------------------------|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|
| 29 | Armidale Dumaresq | 272 | 265 | | 7 | 0 | | 19 | 127 | 4 | 13 | 78 | 31 | 106 | 111 | 217 | 69 | 489 | 215 | 274 | 4 | 10 | | 5 | 5 | 41 | 403 | | 403 | 248 | | 77 | 0 | |
| 30 | Griffith | 347 | 64 | 177 | 9 | 35 | 62 | | 71 | 0 | 10 | 152 | 51 | 219 | 50 | 269 | 29 | 616 | 610 | 6 | 1 | 20 | 0 | 1 | 19 | 8 | 118 | 81 | 36 | 163 | 100 | 17 | 35 | |
| 31 | Lithgow | 323 | 176 | | 5 | 5 | 138 | | 86 | 14 | 7 | 79 | | 174 | | 174 | 94 | 498 | | | 4 | 19 | | 6 | 13 | 46 | 150 | | 150 | 423 | | 74 | 5 | |
| 32 | Mid-Western Regional | 264 | 147 | 77 | 11 | 23 | 7 | | 96 | 21 | 22 | 118 | | 49 | 102 | 151 | 43 | 415 | 100 | 62 | 6 | 12 | 2 | 4 | 6 | 28 | 262 | | 262 | 336 | 57 | 38 | 23 | |
| 33 | Richmond Valley | 259 | 50 | 82 | 14 | 37 | 76 | | 0 | 50 | 3 | 15 | 100 | 16 | 132 | 101 | 233 | 51 | 492 | 276 | 217 | 3 | 15 | 0 | 1 | 14 | 11 | 185 | 49 | 136 | 220 | 53 | 10 | 37 |
| 34 | Nambucca (Groundwater) | 133 | 65 | 37 | 31 | | | 30 | 7 | 40 | 13 | 43 | | 74 | 34 | 108 | 44 | 242 | 97 | 145 | 16 | 126 | | 29 | 97 | | | | | 53 | | 13 | | |
| 35 | Singleton | 301 | 88 | 191 | 8 | 4 | 10 | | 68 | 10 | 29 | 147 | 37 | 58 | 92 | 150 | 36 | 451 | 257 | 194 | 7 | 21 | 2 | 13 | 6 | 16 | 175 | 112 | 63 | 354 | 108 | 36 | 4 | |
| 36 | Parkes | 520 | 107 | 161 | 183 | 25 | 44 | | 7 | 50 | 5 | 267 | 85 | 64 | 68 | 10 | 78 | 7 | 598 | 150 | 449 | 23 | 196 | 30 | 32 | 134 | 4 | 65 | 52 | 13 | 74 | 47 | 12 | 25 |
| 37 | Inverell | 401 | 81 | 191 | 93 | 38 | | | 44 | 11 | 118 | 105 | 124 | 88 | 14 | 102 | 23 | 503 | 403 | 101 | 27 | 90 | | 20 | 70 | 10 | 93 | | 93 | 238 | 67 | | 38 | |
| 38 | Moree Plains (Groundwater) | 391 | 191 | 161 | 4 | 35 | | | 75 | 134 | 9 | 10 | 139 | 25 | 213 | 28 | 241 | 30 | 632 | | | 1 | 11 | 4 | 3 | 5 | 17 | 397 | | 397 | 175 | 76 | 27 | 35 |
| 39 | Cowra | 341 | 148 | 78 | 44 | 32 | 39 | | 114 | 28 | 52 | 108 | | 304 | 5 | 309 | 58 | 651 | | | 10 | 15 | 3 | | 13 | 21 | 132 | | 132 | 204 | 61 | 15 | 32 | |

Table 13: Water supply – benchmarking cost data (operation, maintenance and management (continued))

| WATER UTILITY | OPERATION & MAINTENANCE (O&M) COST ² | | | | | | | | | | | MANAGEMENT COST | | | | OMA ¹ | | O & M Cost Components for TYPE of ASSET | | | | | | | | | | | | | | | |
|---|---|--------------------------|-----------|--------|-----------|---------------|--------------------------------|-------|------------|------------------|-----------------|----------------------|------------|---------------------------|-----------------------|--------------------------------------|----------------|---|-----------------------|----------------|----------------------------------|------------------|-------------|------------|-----------------|-----------------|-------------------------|-----------|------------------|------------------------|----------|-------|----|
| | Total O&M Cost \$/prop (79a) | Components (1) - Process | | | | | Components (2) - Type of Asset | | | | | | Components | | | Total OMA Cost (\$/prop) (91b) | Components | | PUMPING STATION | | | | | WATER MAIN | | | | TREATMENT | | | | | |
| | | Maintenance | Operation | Energy | Chemicals | Bulk Purchase | Dams & Weirs | Mains | Reservoirs | Pumping Stations | Water Treatment | Other Bulk Purchases | Admin | Engineering & Supervision | Total Management Cost | | Head works | Distribution | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | Energy Cost | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | O&M Cost | Operation Cost | Maintenance Cost | Chemical | | |
| | | (79) | (80) | (81) | (82) | (82a) | (83) | (84) | (85) | (86) | (87) | (88) | (89) | (90) | (\$/prop) (91a) | | (c/KL) (91) | (\$/prop) (92) | (\$/property) (93) | (c/KL) (94) | (\$'000/pumping station) (95) | (96) | (97) | (98) | (c/KL) (100) | (c/KL) (101) | (\$'000/100km) (102) | (103) | (\$/ML) (104) | (\$/property) (105) | (106) | (107) | |
| 40 | Central Tablelands (NO SGE) | 209 | 117 | 32 | 31 | 29 | 7 | 49 | 6 | 49 | 86 | 12 | 147 | 65 | 211 | 55 | 421 | 185 | 236 | 13 | 8 | 3 | 5 | 13 | 47 | 47 | 223 | 28 | 29 | 29 | | | |
| 41 | Muswellbrook | 424 | 262 | 25 | 44 | 71 | 21 | 45 | 10 | 68 | 214 | 65 | 87 | 70 | 157 | 26 | 581 | 383 | 197 | 11 | 46 | 1 | 15 | 30 | 7 | 145 | 6 | 139 | 351 | 13 | 130 | 71 | |
| 42 | Corowa | 186 | 72 | 84 | 10 | 10 | 11 | 41 | 3 | 19 | 110 | 3 | 74 | 123 | 198 | 46 | 384 | 288 | 96 | 4 | 12 | 6 | 6 | 9 | 129 | 129 | 252 | 81 | 18 | 10 | | | |
| 43 | Tumut | 291 | 211 | 39 | 18 | 23 | | 24 | 11 | 31 | 179 | 46 | 48 | 13 | 61 | 19 | 352 | 148 | 204 | 9 | 11 | 1 | 4 | 7 | 7 | 63 | 63 | 547 | 35 | 121 | 23 | | |
| 44 | Gunnedah (Groundwater) | 175 | 122 | 1 | 52 | 1 | | 86 | 7 | 79 | 1 | 2 | 59 | 46 | 105 | 21 | 280 | 70 | 210 | 16 | 17 | | 6 | 11 | 17 | 256 | 256 | 3 | 1 | 1 | | | |
| 45 | Upper Hunter | 310 | 199 | 67 | 38 | 6 | | 21 | 170 | 3 | 58 | 38 | 20 | 87 | 75 | 163 | 23 | 473 | 123 | 350 | 8 | 23 | 4 | 4 | 15 | 24 | 527 | 53 | 474 | 55 | 17 | 15 | 6 |
| 46 | Narrabri (Groundwater) | 220 | 180 | | 40 | | | 31 | | 131 | | | 58 | 78 | 24 | 102 | 20 | 322 | 161 | 145 | 25 | 48 | | 33 | 15 | 6 | 121 | 121 | | | | | |
| 47 | Bellingen (Unfiltered) | 144 | 52 | 53 | 28 | 11 | | 43 | 3 | 45 | 47 | 6 | 112 | 65 | 177 | 56 | 321 | 48 | 273 | 14 | 30 | 1 | 10 | 19 | 14 | 106 | 58 | 49 | 147 | 25 | 11 | 11 | |
| 48 | Leeton | 355 | 152 | 97 | 37 | 35 | 35 | 137 | 3 | 44 | 132 | 4 | 56 | 61 | 117 | 16 | 472 | 283 | 189 | 6 | 30 | | 5 | 25 | 18 | 373 | 373 | 176 | 97 | | 35 | | |
| 49 | Young (Reticulator) | 74 | 37 | 36 | 1 | | | 49 | 8 | 2 | | 16 | 41 | 19 | 60 | 17 | 134 | | | | | | | | 14 | 155 | 50 | 105 | | | | | |
| 50 | Cooma-Monaro | 251 | 122 | 114 | 2 | 14 | | 67 | 29 | 4 | 102 | 49 | 103 | 110 | 213 | 67 | 464 | | | | 1 | 2 | 0 | 1 | 1 | 21 | 199 | 23 | 176 | 321 | 65 | 23 | 14 |
| 51 | Forbes | 309 | 138 | 119 | 0 | 39 | 14 | 94 | 3 | 8 | 182 | 9 | 64 | 12 | 76 | 12 | 384 | 269 | 115 | 1 | 5 | 1 | 4 | 0 | 15 | 261 | 6 | 255 | 293 | 112 | 31 | 39 | |
| 52 | Snowy River (Unfiltered) | 192 | 38 | 108 | 38 | 8 | | 48 | 20 | 70 | 31 | 22 | 105 | 33 | 138 | 69 | 330 | 248 | 83 | 35 | 33 | 10 | 5 | 18 | 24 | 147 | 126 | 20 | 155 | 12 | 11 | 8 | |
| 53 | Berrigan (Dual Supply) | 319 | | 319 | | | | 71 | | 12 | 230 | 5 | 41 | 61 | 102 | 23 | 421 | 151 | 269 | 3 | 6 | 6 | | | 16 | 116 | 116 | 518 | 230 | | | | |
| 54 | Deniliquin | 236 | 150 | 75 | 11 | | | 105 | 0 | 11 | 120 | | 189 | 70 | 260 | 29 | 496 | | | | 1 | 9 | | | 9 | 12 | 240 | 240 | 135 | 75 | 45 | | |
| 55 | Warrumbungle | 390 | 168 | 163 | 33 | 25 | 0 | 127 | 12 | 52 | 146 | 52 | 65 | 23 | 88 | 36 | 478 | | | | 21 | 22 | 5 | 3 | 14 | 52 | 283 | 68 | 215 | 598 | 83 | 39 | 25 |
| 56 | Yass Valley | 211 | 60 | 114 | 14 | 23 | | 2 | 38 | 13 | 38 | 98 | 23 | 106 | 71 | 177 | 65 | 388 | 213 | 174 | 14 | 10 | 6 | 0 | 4 | 14 | 74 | 74 | 357 | 68 | 6 | 23 | |
| <i>Medians (% of LWUs basis) for 3,000 to 10,000 Properties</i> | | 281 | 122 | 84 | 18 | 23 | 28 | 13 | 68 | 8 | 34 | 107 | 24 | 87 | 61 | 154 | 33 | 458 | 213 | 194 | 8 | 17 | 2 | 5 | 13 | 15 | 150 | 53 | 134 | 230 | 65 | 25 | 23 |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Wellington | 326 | 122 | 144 | 20 | 30 | 10 | 116 | 3 | 24 | 174 | | 103 | 85 | 187 | 46 | 513 | 308 | 205 | 6 | 10 | | 2 | 8 | 28 | 325 | 7 | 318 | 425 | 142 | 1 | 30 | |
| 58 | Cootamundra (Reticulator) | 239 | 87 | 22 | | | | 85 | 3 | | 21 | | 16 | 34 | 50 | 16 | 289 | 72 | 217 | | | | | | 27 | 268 | 268 | | | | | | |
| 59 | Lachlan | 409 | 154 | 179 | 22 | 37 | 18 | 60 | 14 | 46 | 151 | 119 | 60 | 82 | 142 | 28 | 551 | 309 | 242 | 9 | 16 | 1 | 8 | 8 | 12 | 76 | 76 | 295 | 115 | | 37 | | |
| 60 | Glen Innes Severn | 206 | 135 | | 50 | 22 | | 2 | 40 | 2 | 61 | 73 | 28 | 80 | 62 | 142 | 60 | 348 | 139 | 209 | 26 | 92 | | 17 | 75 | 17 | 119 | 119 | 305 | 51 | 22 | | |
| 61 | Liverpool Plains | 224 | | 224 | | | | 20 | 42 | 5 | 49 | 54 | 55 | 137 | | 137 | 40 | 362 | | | | 14 | 10 | 10 | | 12 | 110 | 110 | 156 | 54 | | | |
| 62 | Narromine (Groundwater) | 228 | 122 | 70 | 36 | | | 90 | 16 | 83 | 14 | 25 | 76 | 73 | 149 | 27 | 378 | 189 | 189 | 15 | 58 | 18 | 15 | 25 | 16 | 315 | 17 | 298 | 26 | 2 | 12 | | |
| 63 | Narrandera (Groundwater) | 278 | 83 | 85 | 100 | 10 | | 89 | 3 | 152 | 31 | 2 | 71 | 71 | 142 | 25 | 420 | | | | 27 | 105 | 36 | | 69 | 16 | 279 | 24 | 255 | 55 | 21 | 10 | |
| 64 | Dungog (Reticulator) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | Murray (Dual Supply) | 245 | 105 | 91 | 25 | 16 | 9 | 55 | 4 | 41 | 124 | 11 | 61 | 44 | 105 | 25 | 350 | 221 | 130 | 10 | 14 | 3 | 3 | 9 | 13 | 112 | 47 | 65 | 300 | 54 | 55 | 16 | |
| 67 | Cobar | 550 | 190 | 45 | 4 | 56 | 255 | | 25 | 89 | 137 | 44 | | 36 | 36 | 8 | 586 | 293 | 293 | 21 | 34 | 1 | 32 | 1 | | | | 323 | 81 | 56 | | | |
| 66 | Cobar WB (Bulk Supplier) | | | | | | | | | | | | | | | | | | | | 21 | 179 | 28 | 8 | 143 | 1 | | | | | | | |
| 68 | Tenterfield | 262 | | 206 | 18 | 35 | 4 | 20 | 67 | 5 | 31 | 130 | 7 | 126 | 29 | 155 | 63 | 417 | 167 | 250 | 12 | 30 | 13 | | 18 | 27 | 191 | 191 | 528 | 95 | 35 | | |
| 70 | Kyogle | 247 | 120 | 43 | 15 | 4 | 65 | 99 | 7 | 15 | 44 | 17 | 93 | 42 | 134 | 54 | 382 | 248 | 134 | 6 | 6 | | | 6 | 40 | 327 | 327 | 178 | 41 | 4 | | | |
| 71 | Palerang | 229 | 60 | 132 | 28 | 10 | | 8 | 35 | 12 | 80 | 62 | 35 | 58 | 51 | 108 | 44 | 337 | 236 | 101 | 32 | 53 | 32 | 3 | 18 | 14 | 152 | 152 | 251 | 45 | 7 | 10 | |
| 73 | Upper Lachlan | 283 | 19 | 211 | 26 | 27 | | 17 | 65 | 8 | 76 | 95 | 21 | 64 | 53 | 117 | 76 | 400 | 200 | 200 | 49 | 49 | 30 | 2 | 17 | 43 | 198 | 181 | 17 | 622 | 65 | 3 | 27 |
| 74 | Wentworth (Dual Supply) | 318 | 115 | 157 | 34 | | 13 | 66 | 2 | 70 | 130 | 38 | 49 | 20 | 69 | 11 | 387 | | | | 11 | 21 | 4 | 7 | 10 | 10 | 93 | 93 | 200 | 124 | 6 | | |
| 75 | Coonamble (Groundwater) | 213 | 73 | 109 | 31 | | | 109 | 14 | 71 | | 20 | 25 | 31 | 56 | 9 | 269 | 134 | 134 | 12 | | | | | 18 | 289 | 289 | | | | | | |
| 76 | Harden (Reticulator) | 379 | 132 | 33 | 2 | 16 | 196 | 94 | 18 | 14 | 16 | 40 | 53 | 40 | 92 | 17 | 471 | 71 | 471 | 3 | 9 | | 8 | 1 | 17 | 104 | 104 | 29 | | 16 | | | |
| 79 | Walgett (Dual Supply) | 436 | 206 | 158 | 37 | 34 | | 163 | 14 | 84 | 171 | 4 | 78 | 38 | 115 | 13 | 551 | | | | 10 | 23 | 6 | 7 | 10 | 19 | 306 | 63 | 243 | 198 | 97 | 40 | 34 |
| 80 | Greater Hume | 302 | 63 | 57 | 31 | 3 | 147 | 74 | 53 | 13 | 14 | | 28 | 72 | 100 | 32 | 402 | 149 | 60 | 17 | 48 | | 20 | 28 | 24 | 88 | 68 | 20 | 43 | 10 | 3 | | |
| <i>Medians (% of LWUs basis) for 1,500 to 3,000 Properties</i> | | 270 | 117 | 109 | 27 | 22 | 42 | 17 | 74 | 7 | 61 | 84 | 21 | 64 | 44 | 116 | 27 | 394 | 194 | 203 | 13 | 30 | 11 | 8 | 13 | 17 | 191 | 65 | 136 | 226 | 60 | 11 | 22 |

Table 13: Water supply – benchmarking cost data (operation, maintenance and management) (continued)

| WATER UTILITY | OPERATION & MAINTENANCE (O&M) COST ² | | | | | | | | | | | MANAGEMENT COST | | | | OMA ¹ | | O & M Cost Components for TYPE of ASSET | | | | | | | | | | | | | | | |
|--|---|--------------------------|-----------|--------|-----------|---------------|--------------------------------|-------|------------|------------------|-----------------|-------------------------|------------|---------------------------|-----------------------|------------------|--------------------------------------|---|--------------|-----------------|----------|----------------|------------------|-------------|-----------------|----------|----------------|------------------|----------|----------------|------------------|----------|----|
| | Total O&M Cost \$/prop (79a) | Components (1) - Process | | | | | Components (2) - Type of Asset | | | | | | Components | | | | Total OMA Cost (\$/prop) (91b) | Components | | PUMPING STATION | | | | WATER MAIN | | | | TREATMENT | | | | | |
| | | Maintenance | Operation | Energy | Chemicals | Bulk Purchase | Dams & Weirs | Mains | Reservoirs | Pumping Stations | Water Treatment | Other Excl Bulk Purchas | Admin | Engineering & Supervision | Total Management Cost | | | Head works | Distribution | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | Energy Cost | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | O&M Cost | Operation Cost | Maintenance Cost | Chemical | |
| | | (79) | (80) | (81) | (82) | (82a) | (83) | (84) | (85) | (86) | (87) | (88) | (89) | (90) | (\$/prop) (91a) | (c/kL) (91) | | (92) | (93) | (c/kL) (94) | (95) | (96) | (97) | (98) | (c/kL) (100) | (101) | (102) | (103) | (104) | (105) | (106) | (107) | |
| 2009/10 | 2009/10 | | | | | 2009/10 | | | | | | 2009/10 | | 2009/10 | 2009/10 | | 2009/10 | | | | 2009/10 | | | | | | | | | | | | |
| <i>LWUs with 200 - 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | Gwydir | 282 | 107 | 105 | 49 | 18 | 3 | 105 | 8 | 122 | 36 | 7 | 74 | 16 | 90 | 20 | 372 | 93 | 279 | 27 | 178 | 90 | 17 | 71 | 23 | 175 | 53 | 122 | 79 | 3 | 15 | 18 | |
| 82 | Gloucester | 296 | 180 | 89 | 10 | 16 | | 75 | 12 | 35 | 128 | 45 | 27 | 50 | 77 | 32 | 373 | 205 | 168 | 15 | 10 | 3 | 5 | 3 | 31 | 207 | 207 | 530 | 74 | 38 | 16 | | |
| 83 | Oberon (Reticulator) | 464 | 83 | 118 | | 19 | 243 | 34 | 1 | | 186 | | 41 | 50 | 91 | 22 | 555 | 327 | 227 | | | | | | 8 | 121 | 121 | 455 | 118 | 49 | 19 | | |
| 84 | Gilgandra (Groundwater) | 241 | 116 | 63 | 51 | 10 | | 89 | 4 | 71 | 63 | 13 | 42 | 33 | 75 | 12 | 315 | 126 | 252 | 12 | 96 | 17 | 10 | 69 | 15 | 237 | 237 | 104 | 37 | 16 | 10 | | |
| 85 | Uralla | 253 | 186 | | 16 | 52 | | 23 | 61 | 3 | 16 | 151 | 90 | 45 | 135 | 69 | 389 | 303 | 85 | 8 | 24 | | | 24 | 31 | 250 | 250 | 766 | | 99 | 52 | | |
| 86 | Hay (Dual Supply) | 443 | 336 | 18 | 56 | 25 | 8 | 88 | 28 | 78 | 146 | 95 | 195 | 17 | 211 | 21 | 654 | 445 | 209 | 8 | 34 | | 10 | 24 | 9 | 245 | 245 | 142 | | 120 | 25 | | |
| 87 | Bourke (Dual Supply) | 658 | 647 | | 11 | | | 115 | 2 | 48 | 347 | 146 | 31 | 107 | 138 | 4 | 796 | 119 | 677 | 1 | 29 | | 22 | 7 | 3 | 507 | 507 | 102 | | 347 | | | |
| 88 | Wakool (Dual Supply) | 409 | 84 | 201 | 32 | 32 | 61 | 72 | 8 | 62 | 187 | 18 | 36 | 40 | 76 | 10 | 485 | 461 | 24 | 8 | | | | | 9 | 64 | 21 | 43 | 242 | 134 | 22 | 32 | |
| 89 | Bogan | 518 | 240 | 135 | 18 | 70 | 55 | 3 | 63 | 33 | 46 | 216 | 192 | | 192 | 34 | 711 | | | 8 | 47 | 18 | 10 | 19 | 11 | 137 | 137 | 387 | 117 | 29 | 70 | | |
| 90 | Guyra | 345 | 96 | 169 | 3 | 69 | 8 | 51 | 96 | | 3 | 187 | 139 | | 139 | 34 | 484 | 237 | 247 | 1 | 4 | | | 4 | 23 | 185 | 185 | 457 | 118 | | 69 | | |
| 91 | Cabonne | 320 | 240 | 49 | 13 | 18 | | 28 | 29 | 29 | 55 | 121 | 129 | 86 | 216 | 60 | 536 | 300 | 236 | 15 | 16 | | 12 | 4 | 8 | 79 | 79 | 337 | 24 | 79 | 18 | | |
| 92 | Carrathool (Groundwater) | 664 | 180 | 173 | 263 | 8 | 41 | 140 | 35 | 397 | 38 | 13 | 118 | 25 | 143 | 10 | 807 | 242 | 565 | 27 | 22 | 8 | | 15 | 9 | 33 | 33 | 26 | 30 | | 8 | | |
| 93 | Tumbarumba | 197 | 99 | 85 | 13 | | | 95 | 64 | 16 | 22 | 1 | 51 | 91 | 141 | 54 | 338 | 135 | 203 | 6 | 9 | 2 | | 8 | 36 | 166 | 108 | 58 | 83 | | 22 | | |
| 94 | Gundagai | 348 | 143 | 109 | 72 | 25 | | 69 | 2 | 72 | 206 | | 119 | 96 | 215 | 26 | 563 | 253 | 310 | 9 | 32 | | | 32 | 8 | 167 | 61 | 106 | 246 | 83 | 97 | 25 | |
| 96 | Warren (Dual Supply) | 281 | 144 | 74 | 37 | 10 | 16 | 79 | 16 | 111 | 21 | 39 | 64 | 48 | 112 | 15 | 393 | 157 | 236 | 15 | 53 | 8 | 28 | 18 | 11 | 143 | 28 | 115 | 28 | 6 | 4 | 10 | |
| 97 | Bombala | 262 | 85 | 116 | | 60 | | 1 | 17 | 2 | 51 | 172 | 84 | | 84 | 30 | 346 | 3 | | 18 | 14 | 6 | 8 | | 6 | 37 | 37 | 616 | 76 | 36 | 60 | | |
| 98 | Walcha | 360 | 259 | | 78 | 22 | | 29 | 30 | 15 | 125 | 161 | 104 | 70 | 173 | 73 | 533 | 400 | 133 | 52 | 38 | | 14 | 24 | 13 | 48 | 48 | 678 | | 139 | 22 | | |
| 100 | Balranald (Dual Supply) | 349 | 248 | 2 | 54 | 30 | 14 | 64 | 7 | 183 | 30 | 50 | 122 | | 122 | 19 | 471 | 141 | 330 | 28 | 55 | | 39 | 16 | 10 | 193 | 7 | 187 | 45 | | 30 | | |
| 101 | Murrumbidgee (Groundwater) | 321 | 238 | 18 | 65 | | | 10 | 30 | 269 | 12 | | | 92 | 92 | 12 | 412 | | | 37 | | | | | 1 | 31 | 10 | 21 | 17 | | 12 | | |
| 103 | Central Darling (Dual Supply) | 437 | 302 | 29 | 56 | 50 | | 8 | 98 | 48 | 106 | 127 | 4 | | 4 | 1 | 441 | | | 22 | 10 | 2 | 2 | 5 | 20 | 108 | 108 | 258 | | 77 | 50 | | |
| 104 | Boorowa | 286 | 34 | 212 | 40 | | | 100 | 10 | 90 | 87 | | 130 | 66 | 196 | 43 | 482 | | | 20 | 56 | 31 | | 25 | 22 | 107 | 81 | 26 | 191 | 87 | | | |
| 105 | Brewarrina | 813 | 307 | 346 | 63 | 97 | | 245 | 32 | 162 | 374 | | 182 | 131 | 313 | 21 | 1126 | 338 | 788 | 11 | 40 | 20 | 5 | 16 | 17 | 317 | 317 | 254 | 249 | 28 | 97 | | |
| 106 | Jerilderie (Dual Supply) | 511 | 310 | 11 | 62 | 38 | 90 | 122 | | 86 | 203 | 11 | 56 | 53 | 109 | 12 | 620 | 217 | 403 | 9 | 40 | | 11 | 29 | 13 | 131 | 131 | 221 | 2 | 162 | 38 | | |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | 348 | 180 | 97 | 49 | 25 | 28 | 23 | 79 | 12 | 75 | 146 | 39 | 87 | 52 | 135 | 21 | 484 | 237 | 241 | 13 | 33 | 8 | 11 | 18 | 11 | 143 | 40 | 121 | 242 | 76 | 38 | 25 |

NOTES:

- Operating cost is the OMA cost (operation, maintenance & administration (Col 91b)) which comprises the O & M Cost (operation & maintenance cost (Cols 79 to 82 or Cols 83 to 88)) PLUS Management Costs (Col 91a) which is made up of the Administration cost (Col 89) plus Engineering and Supervision cost (Col 90).
- O & M cost includes a proportion of the OMA cost of the bulk supplier if appropriate or the purchase cost of water if no bulk supplier (Col 82a).

Table 14: Sewerage – utility characteristics

| WATER UTILITY | ASSESSMENTS - CONNECTIONS - POPULATION | | | | | | | | | ASSETS | | | | | | WORKFORCE | | | | | | | | | | |
|---|--|---------|---------|------------------------------|---------|------------------------------------|---------|---------|------------|-----------|-------------|----------------------------------|------------------------|------------------|------------------------------------|---|--------------------------------|----------------------|------------------|----------|-------------|----------|---|---|--|-----------|
| | Total No of Assessments | | | Connected Properties - Total | | Connected Properties - Residential | | | Population | | Sewer Mains | Properties Served per km of Main | Sewage Treatment Works | Pumping Stations | Pumping Stations per 100km of Main | Capital Expenditure (Assets, Renewals, Plant/Equip) | | Capital Works Grants | Total Work Force | % Female | Outsourcing | Injuries | Days Lost | | | |
| | | | | | | | | | | | | | | | | (Ratio of Connected Properties to Assessments) | Connected Properties (1) x (2) | | | | | | (Ratio of Residential Assessments to Total Assessments) | (Ratio of Residential Connections to Residential Assessments) | Connected Residential Properties (1)x(4)x(5) | Permanent |
| | (1) | (2) | (3) C 8 | (4) | (5) | (5a) C6 | (6) C5 | (7) | (8) A 5 | (9) A 6 | (10) A4 | (11) | (12) | (13) F29 | (13a) F15 | (13b) F 27 | (14) | (15) | (19) | (20) | (21) | (22) | (22a) | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | | | |
| Sydney Water | | | | | | | | | 4,333 | | | | | | 264 | 455,005 | 0 | | | | | | | | | |
| Hunter Water | | | | | 1,724 | | | 1,598 | 501 | | | | | | 499 | 106,368 | 0 | | | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford | 64800 | 65,100 | 65,370 | 1.05 | 68,545 | 0.95 | 1.05 | 65,610 | 157,200 | - | 1,323 | 52 | 2 | 184 | 14 | 243 | 16.7 | 1,061 | 1.4 | 14 | 18 | 14 | 4 | 72 | 0 |
| 2 | Wyong | 60150 | 60,450 | 60,670 | 0.98 | 59,157 | 0.96 | 0.97 | 56,243 | 146,900 | 170 | 1,201 | 49 | 6 | 149 | 12 | 170 | 10.0 | 1 | 1.6 | 3 | | 4 | 1 | 178 | 1 |
| 3 | Shoalhaven | 43460 | 44,480 | 45,720 | 0.89 | 40,508 | 0.94 | 0.90 | 38,710 | 80,700 | 400 | 1,139 | 36 | 12 | 221 | 19 | 651 | 26.4 | 5,043 | 2.1 | 8 | 2 | 21 | 3 | 57 | 0 |
| 5 | MidCoast | 33670 | 33,910 | 34,210 | 0.96 | 32,841 | 0.92 | 0.96 | 30,258 | 76,700 | 110 | 954 | 34 | 12 | 206 | 22 | 293 | 9.6 | 219 | 1.6 | 19 | | 4 | 4 | 62 | 0 |
| 6 | Tweed | 32090 | 32,620 | 32,350 | 0.91 | 29,440 | 0.95 | 0.93 | 28,475 | 68,800 | 130 | 691 | 43 | 7 | 182 | 26 | 363 | 10.7 | | 1.9 | 4 | 6 | 4 | 4 | 145 | 1 |
| 7 | Port Macquarie-Hastings | 27340 | 28,620 | 27,800 | 0.95 | 26,408 | 0.93 | 0.95 | 24,512 | 71,000 | 130 | 630 | 42 | 5 | 154 | 24 | 647 | 17.1 | | 1.3 | 3 | 2 | 3 | 0 | 4 | 0 |
| 9 | Wagga Wagga | 22150 | 22,700 | 24,150 | 1.04 | 25,118 | 0.93 | 1.05 | 23,563 | 57,000 | 110 | 573 | 44 | 5 | 36 | 6 | 454 | 11.4 | | 1.1 | 7 | 10 | 1 | 3 | 8 | 0 |
| 10 | Coffs Harbour | 23890 | 24,160 | 24,400 | 0.93 | 22,690 | 0.94 | 0.93 | 21,290 | 64,800 | 120 | 654 | 35 | 5 | 116 | 18 | 583 | 13.2 | 622 | 1.8 | | | 5 | 7 | 25 | 0 |
| 11 | Albury | 20570 | 20,830 | 21,170 | 0.99 | 20,953 | 0.92 | 0.99 | 19,187 | 50,500 | 110 | 497 | 42 | 4 | 67 | 13 | | | | 1.0 | 19 | 43 | 1 | 0 | 1 | 0 |
| 13 | Tamworth Regional | 18210 | 18,380 | 18,600 | 1.00 | 18,600 | 0.91 | 1.00 | 16,961 | 43,200 | 190 | 519 | 36 | 5 | 22 | 4 | 2,595 | 48.3 | | 2.0 | 3 | | 0 | 0 | 0 | 0 |
| 15 | Eurobodalla | 18540 | 18,710 | 18,840 | 0.94 | 17,705 | 0.95 | 0.94 | 16,795 | 35,500 | 340 | 509 | 35 | 5 | 126 | 25 | 359 | 6.4 | | 2.3 | 5 | 2 | 4 | 3 | 50 | 1 |
| 17 | Queanbeyan | 15500 | 15,560 | 15,620 | 1.03 | 16,087 | 0.93 | 1.04 | 15,116 | 39,400 | 100 | 327 | 49 | 1 | 15 | 5 | 63 | 1.0 | | 0.4 | 17 | | 0 | 0 | 0 | 0 |
| 19 | Orange | 14900 | 15,130 | 15,640 | 1.00 | 15,642 | 0.93 | 1.00 | 14,507 | 38,100 | 100 | 395 | 40 | 2 | 24 | 6 | 57 | 0.9 | | 0.8 | 2 | 5 | 0 | 9 | 0 | 0 |
| 18 | Dubbo | 13310 | 13,450 | 13,890 | 1.11 | 15,421 | 0.90 | 1.12 | 14,071 | 32,800 | 110 | 391 | 39 | 1 | 11 | 3 | 137 | 2.1 | | 1.0 | 19 | | 2 | 2 | 22 | 1 |
| 16 | Wingecarribee | 14890 | 15,040 | 15,240 | 0.95 | 14,478 | 0.94 | 0.96 | 13,718 | 33,000 | 120 | 513 | 28 | 5 | 69 | 13 | 916 | 13.3 | 3,133 | 1.9 | 4 | 19 | 6 | 4 | 16 | 0 |
| 14 | Clarence Valley | 14880 | 15,240 | 15,310 | 0.94 | 14,395 | 0.94 | 0.94 | 13,470 | 28,100 | 140 | 331 | 43 | 9 | 89 | 27 | 1,606 | 23.1 | 2,893 | 1.9 | 5 | | 1 | 0 | 5 | 0 |
| 21 | Bathurst Regional | 13290 | 13,450 | 13,710 | 1.08 | 14,806 | 0.90 | 1.08 | 13,255 | 33,300 | 180 | 371 | 40 | 1 | 16 | 4 | 116 | 1.7 | 26 | 0.7 | 10 | 4 | 0 | 0 | 0 | 0 |
| 24 | Ballina | 13470 | 13,670 | 14,080 | 0.93 | 13,098 | 0.93 | 0.93 | 12,241 | 34,900 | - | 319 | 41 | 4 | 107 | 34 | 586 | 7.7 | | 1.6 | | - | 0 | 0 | 0 | 0 |
| 22 | Lismore | 11650 | 11,710 | 11,810 | 1.05 | 12,395 | 0.91 | 1.06 | 11,348 | 29,200 | 100 | 347 | 36 | 3 | 33 | 10 | 456 | 5.7 | | 1.2 | | 25 | 0 | 0 | 0 | 0 |
| 23 | Bega Valley | 11970 | 12,100 | 12,130 | 0.98 | 11,888 | 0.94 | 0.98 | 11,138 | 25,000 | 150 | 390 | 30 | 10 | 970 | 249 | 80 | 1.0 | | 1.9 | | 5 | 3 | 3 | 22 | 0 |
| 27 | Byron | 10410 | 10,260 | 10,560 | 0.96 | 10,133 | 0.89 | 0.96 | 8,996 | 28,800 | 120 | 239 | 42 | 5 | 81 | 34 | 2,775 | 28.1 | 1,789 | 2.2 | 4 | 2 | 1 | 4 | 3 | 0 |
| 26 | Country Energy | 9680 | 9,700 | 9,710 | 1.00 | 9,708 | 0.93 | 1.00 | 9,022 | 18,700 | 110 | 248 | 39 | 2 | 11 | 4 | 99 | 1.0 | | 0.8 | | | 0 | 0 | 0 | 0 |
| 20 | Goulburn Mulwaree | 9010 | 9,820 | 9,270 | 1.03 | 9,552 | 0.91 | 1.03 | 8,734 | 21,600 | 100 | 272 | 35 | 2 | 27 | 10 | 173 | 1.7 | | 2.4 | 7 | | 2 | 1 | 16 | 0 |
| 25 | Kempsey | 8570 | 8,630 | 8,680 | 1.04 | 9,022 | 0.92 | 1.04 | 8,259 | 19,100 | 120 | 268 | 34 | 7 | 78 | 29 | 637 | 5.7 | 35 | 2.1 | 11 | 10 | 2 | 3 | 145 | 3 |
| Medians (% of LWUs basis) and totals for >10,000 Properties | | 538,930 | | | | | | | | 1,234,300 | | 13,101 | 40 | | | | 363 | 263 | | 2 | 7 | | 2 | 3 | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Armidale Dumaresq | 7970 | 8,110 | 8,350 | 0.98 | 8,183 | 0.93 | 0.98 | 7,585 | 20,900 | 110 | 226 | 36 | 1 | 1 | 0 | 22 | 0.2 | | 1.8 | 2 | 6 | 1 | 3 | 5 | 0 |
| 31 | Lithgow | 7380 | 7,380 | 7,580 | 0.98 | 7,425 | 0.94 | 0.98 | 6,984 | 19,800 | 85 | 364 | 20 | 3 | 32 | 9 | 1,017 | 7.6 | | 0.9 | | - | 2 | 4 | 60 | 4 |
| 30A | Hawkesbury | 7660 | 7,660 | 7,700 | 0.98 | 7,522 | 0.88 | 0.99 | 6,699 | 24,000 | 100 | 170 | 44 | 2 | 24 | 14 | 1,498 | 11.3 | | 2.0 | | | 2 | 3 | 92 | 3 |
| 30 | Griffith | 7790 | 7,920 | 8,900 | 0.85 | 7,565 | 0.90 | 0.84 | 6,754 | 21,800 | 110 | 227 | 33 | 3 | 29 | 13 | 245 | 1.9 | | 3.1 | 7 | | 1 | 0 | 19 | 0 |
| 33 | Richmond Valley | 6730 | 6,780 | 6,830 | 0.95 | 6,489 | 0.90 | 0.95 | 5,836 | 15,100 | 120 | 188 | 35 | 4 | 31 | 16 | 225 | 1.5 | 463 | 3.3 | 7 | | 4 | 6 | 43 | 1 |
| 32 | Mid-Western Regional | 6350 | 6,470 | 6,560 | 1.00 | 6,562 | 0.90 | 1.00 | 5,907 | 13,400 | 150 | 205 | 32 | 4 | 12 | 6 | 102 | 0.7 | | 1.5 | 10 | 1 | - | - | - | - |
| 34 | Nambucca | 5860 | 5,740 | 5,630 | 0.95 | 5,347 | 0.90 | 0.95 | 4,803 | 12,500 | 140 | 156 | 34 | 4 | 52 | 33 | 62 | 0.3 | | 1.9 | | - | - | - | - | - |
| 35 | Singleton | 5530 | 5,560 | 5,610 | 0.96 | 5,385 | 0.92 | 0.93 | 4,786 | 15,100 | 100 | 137 | 39 | 1 | 15 | 11 | 117 | 0.6 | | 1.4 | | 30 | 0 | 4 | 0 | 0 |
| 37 | Inverell | 4740 | 4,750 | 4,770 | 0.97 | 4,629 | 0.96 | 0.97 | 4,443 | 11,400 | 110 | 126 | 37 | 4 | 21 | 17 | 25 | 0.1 | | 1.5 | 14 | 8 | 0 | 0 | 0 | 0 |
| 41 | Muswellbrook | 5180 | 5,270 | 5,340 | 0.96 | 5,100 | 0.93 | 0.96 | 4,759 | 16,600 | - | 146 | 35 | 2 | 12 | 8 | 373 | 1.9 | 365 | 1.9 | 18 | 34 | 0 | 0 | 0 | 0 |

Table 14: Sewerage – utility characteristics (continued)

| WATER UTILITY | ASSESSMENTS - CONNECTIONS - POPULATION | | | | | | | | | | ASSETS | | | | | | | WORKFORCE | | | | | | | | | | |
|--|--|---------|---------|--|--------------------------------|---|---|--|------------|-----------------------|-------------|----------------------------------|------------------------|------------------|------------------------------------|---|---------|----------------------|-------------------------|----------|-------------------------|----------|-----------|-------------------------|----|---|---|--|
| | Total No of Assessments | | | Connected Properties - Total | | Connected Properties - Residential | | | Population | | Sewer Mains | Properties Served per km of Main | Sewage Treatment Works | Pumping Stations | Pumping Stations per 100km of Main | Capital Expenditure (Assets, Renewals, Plant/Equip) | | Capital Works Grants | Total Work Force | % Female | Outsourcing | Injuries | Days Lost | | | | | |
| | | | | (Ratio of Connected Properties to Assessments) | Connected Properties (1) x (2) | (Ratio of Residential Assessments to Total Assessments) | (Ratio of Residential Connections to Residential Assessments) | Connected Residential Properties (1)x(4)x(5) | Permanent | Peak (% of Permanent) | (km) | (3) / (8) | (No.) | (No.) | (11) / ((8) x 100) | \$/prop | \$M | (\$'000) | (Employees /1000 props) | (%) | (% of Maintenance Cost) | (No.) | Total (%) | Due to Injury (No.) (%) | | | | |
| | (1) | (2) | (3) C 8 | (4) | (5) | (5a) C6 | (6) C5 | (7) | (8) A 5 | (9) A 6 | (10) A4 | (11) | (12) | (13) F29 | (13a) F15 | (13b) F 27 | (14) | (15) | (19) | (20) | (21) | (22) | (22a) | | | | | |
| | 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | | | | |
| 36 | Parkes | 5230 | 5,230 | 5,210 | 0.95 | 4,945 | 0.86 | 0.95 | 4,271 | 11,400 | 140 | 99 | 50 | 3 | 2 | 2 | 312 | 1.5 | 1,080 | - | - | - | - | - | | | | |
| 42 | Corowa | 4690 | 4,870 | 5,130 | 0.95 | 4,869 | 0.91 | 0.95 | 4,436 | 9,600 | 200 | 145 | 34 | 3 | 67 | 46 | - | - | - | 1.2 | - | 0 | 2 | 0 | | | | |
| 38 | Moree Plains | 3940 | 3,870 | 3,850 | 0.97 | 3,736 | 0.84 | 0.96 | 3,122 | 1,100 | 98 | 88 | 42 | 4 | 28 | 32 | 303 | 1.1 | 703 | 1.6 | 8 | 30 | 0 | 0 | | | | |
| 44 | Gunnedah | 3890 | 3,890 | 3,880 | 1.03 | 3,999 | 0.89 | 1.03 | 3,562 | 10,700 | 110 | 96 | 42 | 2 | 2 | 2 | 195 | 0.8 | - | 1.5 | - | 5 | 0 | 3 | | | | |
| 46 | Narrabri | 3740 | 3,740 | 3,810 | 0.98 | 3,730 | 0.95 | 0.98 | 3,531 | 10,700 | 100 | 97 | 38 | 3 | 22 | 23 | 47 | 0.2 | - | 1.9 | - | 4 | 0 | 0 | | | | |
| 43 | Tumut | 4200 | 4,320 | 4,370 | 0.95 | 4,154 | 0.89 | 0.95 | 3,690 | 8,600 | 130 | 134 | 31 | 5 | 16 | 12 | 176 | 0.7 | - | 1.9 | 13 | 1 | 1 | 26 | | | | |
| 49 | Young | 3510 | 3,540 | 3,570 | 1.04 | 3,708 | 0.89 | 1.04 | 3,304 | 8,500 | - | 88 | 42 | 1 | - | - | 8 | 0.0 | - | - | - | - | - | - | | | | |
| 39 | Cowra | 3730 | 3,740 | 3,740 | 0.95 | 3,552 | 0.88 | 0.95 | 3,116 | 8,700 | 120 | 100 | 36 | 2 | 9 | 9 | 1,224 | 4.3 | 962 | 1.1 | - | 0 | 0 | 0 | | | | |
| 45 | Upper Hunter | 3750 | 3,950 | 4,500 | 0.92 | 4,136 | 0.91 | 0.92 | 3,758 | 9,200 | 100 | 115 | 36 | 4 | 13 | 11 | 83 | 0.3 | - | 0.7 | - | 0 | 0 | 0 | | | | |
| 52 | Snowy River | 2430 | 2,520 | 2,520 | 1.43 | 3,606 | 0.91 | 1.43 | 3,272 | 4,100 | 390 | 75 | 48 | 4 | 19 | 25 | 880 | 3.2 | 1,546 | 1.9 | 14 | 10 | 0 | 0 | | | | |
| 51 | Forbes | 3010 | 3,170 | 3,080 | 1.00 | 3,076 | 0.90 | 1.00 | 2,759 | 7,600 | 110 | 89 | 35 | 1 | 17 | 19 | 50 | 0.2 | - | 2.0 | 33 | 18 | 0 | 2 | | | | |
| 50 | Cooma-Monaro | 3390 | 3,380 | 3,580 | 0.95 | 3,405 | 0.88 | 0.95 | 2,997 | 7,000 | 140 | 227 | 15 | 2 | 7 | 3 | 174 | 0.6 | - | 2.6 | - | 1 | 3 | 4 | | | | |
| 53 | Berrigan | 3420 | 3,340 | 3,360 | 0.98 | 3,297 | 0.89 | 0.98 | 2,928 | 6,700 | 110 | 107 | 31 | 4 | 47 | 44 | 20 | 0.1 | - | 1.7 | - | 12 | 0 | 5 | | | | |
| 48 | Leeton | 3300 | 3,310 | 3,410 | 0.94 | 3,202 | 0.86 | 0.94 | 2,763 | 7,700 | 110 | 90 | 36 | 3 | 31 | 34 | 197 | 0.6 | - | 2.2 | - | 3 | 1 | 0 | | | | |
| 54 | Deniliquin | 3280 | 3,290 | 3,290 | 0.96 | 3,158 | 0.88 | 0.95 | 2,749 | 7,500 | - | 70 | 45 | 1 | - | - | 393 | 1.2 | - | - | - | - | - | - | | | | |
| <i>Medians (% of LWUs basis) and totals for 3,000 to 10,000 Properties</i> | | 116,870 | | | | | | | 265,700 | | 3,395 | | 36 | | | | 176 | | 1 | | 2 | | 11 | | 0 | | 1 | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | Bellingen | 3080 | 3,090 | 3,130 | 0.95 | 2,973 | 0.91 | 0.95 | 2,698 | 7,400 | 110 | 89 | 33 | 3 | 27 | 30 | 298 | 0.9 | - | 2.4 | - | 5 | 2 | 3 | 35 | 2 | | |
| 60 | Glen Innes Severn | 2730 | 2,970 | 3,070 | 0.91 | 2,791 | 0.86 | 0.91 | 2,407 | 6,200 | 120 | 98 | 28 | 2 | 5 | 5 | 6 | 0.0 | - | 1.4 | - | 0 | 0 | 0 | 0 | 0 | | |
| 58 | Cootamundra | 2910 | 2,800 | 2,820 | 0.98 | 2,762 | 0.88 | 0.98 | 2,420 | 7,600 | 110 | 66 | 42 | 1 | 4 | 6 | 13 | 0.0 | - | 0.7 | - | 0 | 0 | 0 | 0 | 0 | | |
| 57 | Wellington | 2420 | 2,430 | 2,720 | 0.98 | 2,665 | 0.87 | 0.98 | 2,324 | 5,900 | 110 | 78 | 34 | 2 | 13 | 17 | 307 | 0.8 | 827 | 0.8 | - | 5 | 1 | 0 | 0 | 0 | | |
| 91 | Cabonne | 2560 | 2,570 | 2,590 | 0.92 | 2,384 | 0.87 | 0.92 | 2,080 | 3,700 | 99 | 56 | 43 | 3 | 10 | 18 | 1,041 | 2.5 | 1,304 | 2.1 | - | 0 | 0 | 0 | 0 | 0 | | |
| 80 | Greater Hume | 2580 | 2,640 | 2,690 | 0.95 | 2,555 | 0.87 | 0.95 | 2,217 | 5,900 | 100 | 75 | 34 | 6 | 19 | 25 | 81 | 0.2 | - | 1.4 | - | 10 | 0 | 3 | 23 | 3 | | |
| 59 | Lachlan | 2180 | 2,090 | 2,100 | 1.03 | 2,160 | 0.87 | 1.03 | 1,889 | 5,000 | 110 | 75 | 29 | 3 | 21 | 28 | - | - | - | 1.9 | - | 9 | 0 | 0 | 0 | 0 | | |
| 65 | Murray | 2800 | 3,090 | 2,810 | 0.95 | 2,670 | 0.88 | 0.95 | 2,343 | 6,100 | 200 | 88 | 30 | 2 | 41 | 47 | 94 | 0.3 | - | 0.6 | - | 0 | 0 | 0 | 0 | 0 | | |
| 62 | Narromine | 2050 | 2,190 | 2,060 | 0.95 | 1,952 | 0.87 | 0.95 | 1,696 | 4,900 | 130 | 49 | 40 | 2 | 13 | 27 | - | - | - | 2.0 | 38 | 0 | 0 | 0 | 0 | 0 | | |
| 56 | Yass Valley | 2280 | 2,350 | 2,350 | 0.94 | 2,205 | 0.90 | 0.94 | 1,994 | 5,600 | 120 | 71 | 31 | 2 | 10 | 14 | 761 | 1.7 | 1,074 | 1.4 | - | 15 | 0 | 2 | 0 | 0 | | |
| 61 | Liverpool Plains | 1890 | 1,850 | 2,000 | 0.98 | 1,961 | 0.92 | 0.98 | 1,798 | 4,800 | - | 58 | 34 | 2 | - | - | 252 | 0.5 | 2 | - | - | - | - | - | - | - | | |
| 55 | Warrumbungle | 2510 | 2,520 | 2,480 | 0.99 | 2,459 | 0.85 | 0.92 | 1,945 | 4,900 | 99 | 78 | 32 | 4 | 9 | 12 | 32 | 0.1 | - | 4.5 | - | 0 | 0 | 0 | 0 | 0 | | |
| 69 | Temora | 2080 | 2,100 | 2,110 | 1.00 | 2,111 | 0.86 | 1.00 | 1,807 | 4,600 | 150 | 47 | 45 | 1 | 4 | 9 | 10 | 0.0 | - | 0.5 | - | 0 | 0 | 0 | 0 | 0 | | |
| 71 | Palerang | 1900 | 1,970 | 2,020 | 0.95 | 1,917 | 0.92 | 0.95 | 1,758 | 4,600 | 100 | 48 | 40 | 3 | 14 | 29 | 2,923 | 5.6 | 3,320 | 1.6 | - | 0 | 0 | 0 | 0 | 0 | | |
| 72 | Bland | 1920 | 1,920 | 1,940 | 0.95 | 1,843 | 0.85 | 0.95 | 1,575 | 4,000 | 110 | 48 | 38 | 3 | 10 | 21 | 251 | 0.5 | - | 1.6 | - | 10 | 0 | 0 | 0 | 0 | | |
| 63 | Narrandera | 1780 | 1,820 | 1,840 | 0.92 | 1,696 | 0.88 | 0.92 | 1,489 | 4,800 | - | 36 | 47 | 1 | - | - | 2 | 0.0 | - | - | - | - | - | - | - | - | | |
| 67 | Cobar | 1820 | 1,820 | 1,830 | 0.95 | 1,735 | 0.91 | 0.95 | 1,582 | 7,000 | 110 | 52 | 33 | 2 | 5 | 10 | 51 | 0.1 | - | 4.6 | - | 0 | 0 | 0 | 0 | 0 | | |
| 74 | Wentworth | 1940 | 1,910 | 1,890 | 0.95 | 1,792 | 0.88 | 0.95 | 1,582 | 5,100 | 120 | 87 | 21 | 5 | 25 | 29 | 103 | 0.2 | - | 3.9 | - | 0 | 0 | 0 | 0 | 0 | | |
| 75 | Coonamble | 1340 | 1,430 | 1,380 | 1.02 | 1,410 | 0.90 | 1.02 | 1,269 | 3,000 | 170 | 46 | 31 | 2 | 12 | 26 | 99 | 0.1 | - | 4.3 | 17 | 1 | 3 | 1 | 8 | 1 | | |
| 70 | Kyogle | 1760 | 1,770 | 1,780 | 0.95 | 1,693 | 0.89 | 0.95 | 1,506 | 3,600 | 120 | 62 | 27 | 3 | 9 | 15 | 44 | 0.1 | - | 4.1 | 14 | 2 | 7 | 90 | 6 | | | |
| 77 | Junee | 1740 | 1,660 | 1,670 | 0.95 | 1,587 | 0.93 | 0.95 | 1,473 | 4,100 | 100 | 92 | 17 | 1 | 0 | - | 183 | 0.3 | - | 1.9 | - | 20 | 0 | 0 | 0 | 0 | | |
| 78 | Blayney | 1710 | 1,750 | 1,850 | 1.03 | 1,903 | 0.85 | 1.03 | 1,616 | 3,700 | 100 | 76 | 25 | 1 | 7 | 9 | - | - | - | 1.1 | - | 0 | 0 | 0 | 0 | 0 | | |
| 79 | Walgett | 1790 | 1,790 | 1,890 | 0.85 | 1,605 | 0.89 | 0.85 | 1,428 | 6,300 | 200 | 48 | 33 | 3 | 9 | 19 | 9 | 0.0 | - | - | - | - | - | - | - | - | | |
| 68 | Tenterfield | 1500 | 1,740 | 1,720 | 0.95 | 1,630 | 0.88 | 0.95 | 1,433 | 3,400 | - | 65 | 25 | 2 | 3 | 5 | 771 | 1.3 | 269 | 4.3 | - | 5 | 0 | 0 | 0 | 0 | | |
| <i>Medians (% of LWUs basis) and totals for 1,500 to 3,000 Properties</i> | | 52,740 | | | | | | | 122,200 | | 1,588 | | 33 | | | | 99 | | 15 | | 2 | | 17 | | 0 | | 0 | |

Table 14: Sewerage – utility characteristics (continued)

| WATER UTILITY | ASSESSMENTS - CONNECTIONS - POPULATION | | | | | | | | | | ASSETS | | | | | | WORKFORCE | | | | | | | | | | |
|---|--|---------------------------------|---------|------------------------------|---------|------------------------------------|---------|---|------------|---------|-------------|---|---------------------------|---------------------------|------------------------------------|---|-----------|--|------------------|--|--------------------------------------|----------|-------------------------|-------|-----------|-------------------|--|
| | Total No of Assessments | | | Connected Properties - Total | | Connected Properties - Residential | | | Population | | Sewer Mains | Properties Served per km of Main | Sewage Treatment Works | Pumping Stations | Pumping Stations per 100km of Main | Capital Expenditure (Assets, Renewals, Plant/Equip) | | Capital Works Grants | Total Work Force | % Female | Outsourcing | Injuries | Days Lost | | | | |
| | | | | | | | | | | | | | | | | \$/prop | \$M | | | | | | (Employees /1000 props) | (No.) | Total (%) | Due to Injury (%) | |
| | (1) | (2) | (3) C 8 | (4) | (5) | (5a) C6 | (6) C5 | (7) | (8) A 5 | (9) A 6 | (10) A4 | (11) | (12) | (13) F29 | (13a) F15 | (13b) F 27 | (14) | (15) | (19) | (20) | (21) | (22) | (22a) | | | | |
| 2007/08 | 2008/09 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | 2009/10 | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | Gilgandra | 1380 | 1,390 | 1,400 | 0.98 | 1,367 | 0.89 | 0.98 | 1,220 | 2,900 | 110 | 36 | 38 | 1 | 13 | 36 | 314 | 0.4 | 0.7 | | 0 | 13 | 0 | | | | |
| 73 | Upper Lachlan | 1410 | 1,420 | 1,420 | 1.00 | 1,417 | 0.87 | 1.00 | 1,227 | 2,800 | 110 | 42 | 34 | 2 | 7 | 17 | 2,514 | 3.6 | 3.5 | 10 | 2 | 0 | 0 | | | | |
| 82 | Gloucester | 1630 | 1,640 | 1,680 | 0.95 | 1,598 | 0.83 | 0.95 | 1,333 | 2,800 | 130 | 53 | 30 | 1 | 6 | 11 | 645 | 1.0 | 0.6 | 75 | 0 | 0 | 0 | | | | |
| 87 | Bourke | 1070 | 1,070 | 1,250 | 1.00 | 1,248 | 0.86 | 1.00 | 1,078 | 2,000 | 100 | 34 | 37 | 1 | 8 | 24 | 80 | 0.1 | 2.4 | | 0 | 0 | 0 | | | | |
| 86 | Hay | 1300 | 1,300 | 1,300 | 0.98 | 1,274 | 0.87 | 0.98 | 1,114 | 2,900 | 100 | 37 | 34 | 1 | 8 | 22 | 117 | 0.1 | 1.6 | 30 | 0 | 0 | 0 | | | | |
| 83 | Oberon | 1330 | 1,340 | 1,340 | 1.02 | 1,368 | 0.82 | 1.02 | 1,116 | 3,100 | 130 | 38 | 36 | 1 | 3 | 8 | 23 | 0.0 | 0.7 | 10 | 0 | 0 | 0 | | | | |
| 81 | Gwydir | 1210 | 1,210 | 1,210 | 0.95 | 1,147 | 0.90 | 0.95 | 1,030 | 2,600 | 140 | 41 | 28 | 2 | 8 | 20 | | | 2.6 | 10 | 0 | 0 | 0 | | | | |
| 85 | Uralla | 1020 | 1,020 | 1,080 | 1.00 | 1,084 | 0.90 | 1.01 | 984 | 2,300 | 99 | 30 | 36 | 1 | 6 | 20 | 36 | 0.0 | 0.9 | 10 | 0 | 0 | 0 | | | | |
| 95 | Weddin | 1090 | 1,090 | 1,090 | 0.94 | 1,026 | 0.87 | 0.93 | 887 | 2,000 | 120 | 31 | 33 | 1 | 0 | | | | 1.4 | | 0 | 0 | 0 | | | | |
| 89 | Bogan | 1030 | 1,040 | 1,020 | 1.01 | 1,026 | 0.88 | 1.01 | 907 | 2,500 | 140 | 20 | 51 | 1 | 4 | 20 | 96 | 0.1 | 1.0 | - | 0 | 0 | 0 | | | | |
| 76 | Harden | 1050 | 980 | 990 | 0.95 | 937 | 0.92 | 0.94 | 850 | 2,100 | 110 | 38 | 25 | 1 | 0 | | | | 1.1 | 50 | 0 | 1 | 2 | | | | |
| 88 | Wakool | 1120 | 1,120 | 1,130 | 0.95 | 1,074 | 0.78 | 0.95 | 836 | 2,100 | - | 47 | 23 | 4 | - | - | 37 | 0.0 | - | - | - | - | - | | | | |
| 93 | Tumbarumba | 1040 | 1,030 | 1,030 | 0.95 | 976 | 0.86 | 0.95 | 844 | 2,000 | 170 | 47 | 21 | 2 | 3 | 6 | 22 | 0.0 | 5.1 | 20 | 0 | 0 | 0 | | | | |
| 94 | Gundagai | 880 | 890 | 890 | 0.85 | 757 | 0.90 | 0.84 | 677 | 2,400 | 130 | 73 | 10 | 1 | 5 | 7 | 74 | 0.1 | 2.6 | | 0 | 0 | 0 | | | | |
| 92 | Carrathool | 920 | 920 | 890 | 0.95 | 847 | 0.87 | 0.95 | 734 | 1,900 | 120 | 22 | 39 | 3 | 12 | 55 | 178 | 0.2 | 2.7 | 7 | - | 0 | 0 | | | | |
| 96 | Warren | 900 | 860 | 880 | 0.92 | 812 | 0.90 | 0.92 | 732 | 1,800 | - | 17 | 48 | 2 | 8 | 47 | 137 | 0.1 | 3.1 | | - | - | - | | | | |
| 99 | Coolamon | 1020 | 1,040 | 1,040 | 0.95 | 990 | 0.87 | 0.95 | 858 | 2,400 | 100 | 44 | 22 | 2 | 8 | 18 | 131 | 0.1 | 1.0 | | 0 | 0 | 0 | | | | |
| 102 | Lockhart | 880 | 870 | 870 | 0.95 | 825 | 0.87 | 0.95 | 721 | 1,800 | 100 | 42 | 20 | 3 | 6 | | 10 | 0.0 | 1.2 | | 0 | 0 | 0 | | | | |
| 98 | Walcha | 790 | 790 | 860 | 1.01 | 866 | 0.82 | 1.01 | 714 | 1,700 | 120 | 30 | 29 | 1 | 1 | 3 | 121 | 0.1 | 1.2 | | 0 | 0 | 0 | | | | |
| 100 | Balranald | 830 | 830 | 890 | 0.95 | 847 | 0.86 | 0.95 | 729 | 2,000 | 110 | 38 | 22 | 2 | 10 | 26 | | | 2.4 | | 0 | 0 | 0 | | | | |
| 97 | Bombala | 800 | 800 | 800 | 0.95 | 758 | 0.86 | 0.95 | 652 | 1,800 | 110 | 35 | 22 | 2 | 5 | 14 | | | 2.6 | | 0 | 0 | 0 | | | | |
| 101 | Murrumbidgee | 710 | 720 | 730 | 1.03 | 747 | 0.94 | 1.05 | 712 | 1,700 | - | 21 | 36 | 2 | - | - | 154 | 0.1 | - | - | - | - | - | | | | |
| 90 | Gyra | 1010 | 1,010 | 1,050 | 0.95 | 998 | 0.77 | 0.95 | 768 | 3,600 | 110 | 56 | 18 | 2 | 2 | 4 | 94 | 0.1 | 2.0 | 5 | 0 | 1 | 0 | | | | |
| 104 | Boorowa | 640 | 640 | 590 | 0.94 | 558 | 0.98 | 0.94 | 545 | 690 | 220 | 30 | 19 | 1 | 2 | 7 | | | 5.4 | | 0 | 0 | 0 | | | | |
| 105 | Brewarrina | 560 | 560 | 580 | 0.86 | 495 | 0.89 | 0.85 | 434 | 1,500 | 110 | 16 | 31 | 3 | 8 | 50 | 12 | 0.0 | 1.0 | | 0 | 0 | 0 | | | | |
| 106 | Jerilderie | 450 | 450 | 450 | 0.95 | 424 | 0.77 | 0.95 | 327 | 900 | 100 | 12 | 35 | 1 | 5 | 42 | | | 4.7 | | 0 | 0 | 0 | | | | |
| 103 | Central Darling | 190 | 190 | 210 | 1.00 | 205 | 0.89 | 1.00 | 183 | 710 | - | 13 | 16 | 1 | - | - | | | - | - | - | - | - | | | | |
| 107 | Urana | 330 | 330 | 330 | 0.95 | 316 | 0.87 | 0.95 | 276 | 720 | 210 | 15 | 21 | 2 | - | - | | | 3.2 | | 0 | 7 | 0 | | | | |
| <i>Medians (% of LWUs basis and totals for 200 to 1,500 Properties)</i> | | 27,000 | | | 25,988 | | 22,486 | | | 57,720 | | 958 | | 30 | | 96 | | 6 | | 2 | | 15 | | 0 | | 0 | |
| <i>Median All LWUs (% of LWUs basis)</i> | | | | | | | | | | | | <i>Properties served per km of main</i> | | 35 | | <i>Capital Expenditure \$160 per property</i> | | | | <i>1.8 employees per 1000 properties</i> | | | | | | | |
| <i>Median All LWUs (Statewide basis)</i> | | | | | | | | | | | | 40 | | <i>\$252 per property</i> | | | | <i>1.6 employees per 1000 properties</i> | | | | | | | | | |
| Totals for all LWUs | | <i>Connected properties</i> | | | 718,000 | | | <i>Total Sge populaton</i> | | | 1.68M | | <i>19,040 km of mains</i> | | | <i>Total Capital Expenditure</i> | | | \$314M | | <i>Total Days Lost Due to Injury</i> | | | 1,145 | | | |
| | | <i>Total no. of Assessments</i> | | | 736,000 | | | <i>Reported No. of Sewage Treatment Works</i> | | | 294 | | <i>Pumping Stations</i> | | | 3887 | | <i>Reported No. of Sge Employees</i> | | | 1,148 | | | | | | |

Table 15: Sewerage – asset management and resource management (continued)

| WATER UTILITY | ASSET MANAGEMENT | | | | | | | | | | | | RESOURCE MANAGEMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|----------------------------|--------------------------|-------------------|---------------------------------|------------------------------|--|-------------|---|---------------------------|------------------------------|---|---------------------------------------|-------------------|--|-----|-------------|-----------------------------|--|-----------------------------------|---|--------------------------|-----|-----|------|---|--|----|---|--|-------------------|------------------|----------------------|--|-----------------------------|--|---|-----|-----|-----|-----|----|
| | Infiltration | | Breaks & Chokes | | Overflows see also Col (31a) | | Rehabilitations | | Renewals | | Mains Maintenance Cost | | Overflows Reported to Regulator | | Total Vol of Sewage Collected | | | Volume of Trade Waste | % Sge Treated that was compliant | STWs compliant at all times | Percentage of Total Sewage Collected | | | | | Level of Treatment (%) | | | Vol of Sewage Collected per Property | | | Biosolids Reused | | Effluent Recycled | | | | | | | | |
| | (ML per 100km of Main) | | (No. per 100 km of Main) | | (No. per 100 km of Main) | | (% of Total Length) (Service Connections %) | | (\$'000 per 100 km of Main) (% of CRC) | | (\$'000 per 100 km of Main) | | (No. per 100km of main) | | (ML) | | | (ML) | % | | Infiltration /Inflow Res Non-Res Trade Waste Other | | | | | Primary Level Secondary Level Tertiary Level | | | (kL/property) | | | % | | Total Volume Recycled (ML) (41a) W 26 | | | Volume Recycled for Urban Water (ML) (41b) W 27 | | | | | |
| | (23) | | (24) A14 | | (25) | | (27) (28) | | (29) (30) | | (31) | | (31a) E13 | | (32) W18 | | | (32a) W17 | (33) | (33a) E 4 | (33b) E 5 | (34) (35) (36) (37) (38) | | | | | (39a) E 1 (39b) E 2 (39c) E 3 | | | (39) W 19 | | | (40) E 8 | | (41a) W 26 (41c) W 27 | | | | | | | |
| 07/08 08/09 09/10 | | 07/08 08/09 09/10 | | 07/08 08/09 09/10 | | 09/10 09/10 | | 09/10 09/10 | | 09/10 09/10 | | 09/10 08/09 09/10 | | 07/08 08/09 09/10 | | | 09/10 09/10 | 09/10 | 09/10 | 09/10 | 09/10 09/10 09/10 09/10 09/10 | | | | | 09/10 09/10 09/10 | | | 07/08 08/09 09/10 | | 09/10 09/10 09/10 | | | | | | | | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | Gilgandra | 114 | 111 | 111 | 166 | 197 | 156 | 6 | 8 | 17 | 0.6 | 0.4 | 31 | 0.1 | 150 | 8.3 | 5.6 | 280 | 285 | 285 | 30 | 100 | 75 | 0 | of 1 | 14 | 61 | 14 | 11 | | | 100 | 207 | 210 | 208 | | 290 | 89 | 100 | 100 | | |
| 73 | Upper Lachlan | 95 | 95 | 95 | 107 | 83 | | 0 | 0 | | 2.4 | 0.4 | 105 | 0.2 | 14 | 0.0 | 0.0 | 240 | 240 | 240 | 5 | 96 | 100 | 2 | of 2 | 17 | 71 | 10 | 2 | | | 100 | 170 | 169 | 169 | | | 0 | 0 | 0 | | |
| 82 | Gloucester | 60 | 38 | 45 | 94 | 64 | 13 | 43 | 34 | 8 | 0.0 | 0.2 | 428 | 1.3 | 196 | 0.0 | 0.0 | 385 | 468 | 251 | | 100 | 83 | 0 | of 1 | 10 | 75 | 15 | | | 100 | 249 | 301 | 157 | 100 | 100 | | | 0 | 0 | 0 | |
| 87 | Bourke | | | | 189 | 135 | | 0 | 0 | 0 | 0.0 | 0.6 | 294 | 0.9 | 185 | 0.0 | 0.0 | 175 | 189 | 195 | | 100 | 29 | 0 | of 1 | | 100 | | | | 100 | 164 | 177 | 156 | | | 0 | 0 | 0 | | | |
| 86 | Hay | 54 | 54 | 54 | 151 | 149 | 81 | 0 | 0 | 0 | 1.4 | 0.6 | 0 | 0.0 | | 0.0 | 0.0 | 277 | 287 | 287 | 5 | 97 | 100 | 1 | of 1 | 7 | 88 | 3 | 2 | | | 100 | 218 | 225 | 225 | | | 0 | 0 | 0 | | |
| 83 | Oberon | | 53 | 39 | 32 | 29 | 29 | 3 | 0 | 21 | 0.3 | 0.7 | 0 | 0.0 | 89 | 0.0 | 0.0 | 384 | 254 | 235 | 43 | 100 | 83 | 0 | of 1 | 6 | 71 | 4 | 18 | 1 | | 100 | 283 | 187 | 172 | | - | 240 | 0 | 0 | 100 | |
| 81 | Gwydir | 51 | 76 | 85 | 115 | 141 | 124 | 49 | 51 | 49 | 2.4 | 3.4 | 0 | 0.0 | 51 | 2.4 | 0.0 | 214 | 242 | 319 | | 100 | 100 | 2 | of 2 | 11 | 78 | 11 | | | 100 | 187 | 211 | 278 | 14 | 14 | 12 | 55 | 43 | 12 | 16 | 17 |
| 85 | Uralla | 50 | 40 | 43 | 77 | 27 | 7 | 17 | 7 | 0 | 0.3 | 0.4 | 0 | 0.0 | 123 | 0.0 | 0.0 | 164 | 137 | 140 | 1 | 100 | 83 | 0 | of 1 | 9 | 87 | 3 | 1 | | 100 | 161 | 135 | 129 | | | 0 | 0 | 0 | | | |
| 95 | Weddin | 3 | 3 | 74 | 129 | 97 | 239 | 0 | 0 | 3 | 5.2 | 0.2 | 0 | 0.0 | | 0.0 | 3.2 | 160 | 153 | 169 | | 100 | 100 | 1 | of 1 | 14 | 79 | 7 | | | 100 | 156 | 149 | 165 | | | 36 | 36 | 18 | 25 | 21 | |
| 89 | Bogan | 50 | 100 | - | 10 | 20 | 10 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 80 | 0.0 | 0.0 | 622 | 622 | 622 | - | 100 | 100 | 1 | of 1 | - | - | - | - | - | | 596 | 594 | 606 | | | 0 | 0 | | | | |
| 76 | Harden | | - | 211 | 42 | 79 | 34 | 0 | 0 | 3 | 0.0 | 0.2 | 0 | 0.0 | 89 | 0.0 | 2.6 | 566 | 352 | 510 | | 100 | 45 | 0 | of 1 | 16 | 84 | | | | 100 | 565 | 377 | 544 | 100 | 80 | 350 | 275 | 15 | 70 | 69 | |
| 88 | Wakool | | | | 0 | 0 | - | 0 | 0 | - | - | - | 0 | 0.0 | 21 | 0.0 | - | 296 | 331 | 331 | | - | 100 | 100 | 4 | of 4 | - | - | - | - | - | | 277 | 311 | 308 | | - | 0 | 0 | 0 | | |
| 93 | Tumbarumba | | | | 43 | 21 | | 2 | 2 | | 0.2 | 0.7 | 45 | 0.2 | | 2.1 | 2.1 | 278 | 293 | 293 | | 100 | 100 | 2 | of 2 | | | | 100 | | 27 | 73 | 282 | 301 | 300 | | - | 0 | 0 | | | |
| 94 | Gundagai | 3 | 3 | 3 | 18 | 22 | 14 | 1 | 3 | 3 | 0.0 | 0.3 | 0 | 0.0 | 33 | 0.0 | 0.0 | 111 | 117 | 117 | | 100 | 100 | 1 | of 1 | 2 | 73 | 26 | | | 100 | 125 | 130 | 154 | | | 117 | 117 | 100 | 100 | 100 | |
| 92 | Carrathool | | | | 282 | 0 | | 0 | 27 | 0 | 0.6 | 0.0 | 686 | 1.5 | 150 | - | 0.0 | 167 | 105 | 111 | | 100 | 100 | 3 | of 3 | | 100 | | | | 100 | 191 | 120 | 131 | | - | 0 | 1 | 7 | | | |
| 96 | Warren | | | | 153 | 176 | - | 6 | 0 | 0 | 0.0 | 0.0 | 653 | 1.0 | 224 | 0.0 | 0.0 | 173 | 172 | 181 | | 100 | 100 | 2 | of 2 | | 100 | | | | 100 | 208 | 217 | 223 | | 2 | 6 | 3 | 1 | | | |
| 99 | Coolamon | 5 | 7 | 5 | 16 | 7 | | 0 | 2 | | 0.0 | 0.0 | 0 | 0.0 | 139 | 0.0 | 0.0 | 95 | 98 | 98 | | 100 | 100 | 2 | of 2 | 2 | 94 | 4 | | 31 | 69 | 98 | 99 | 99 | | | 73 | 50 | 89 | 90 | 100 | |
| 102 | Lockhart | | | | | | | 0 | 0 | | 0.0 | 0.0 | 0 | 0.0 | | 0.0 | | 171 | 158 | 180 | | 97 | 100 | 3 | of 3 | | 100 | | | 53 | 47 | 206 | 192 | 218 | | 27 | 27 | 40 | 1 | 15 | | |
| 98 | Walcha | 93 | 50 | 50 | 23 | 23 | 27 | 17 | 17 | 10 | 0.3 | 0.0 | 0 | 0.0 | | 0.0 | 0.0 | 196 | 166 | 178 | 1 | 100 | 58 | 0 | of 1 | 8 | 74 | 17 | 1 | | 100 | 246 | 207 | 206 | | | 0 | 0 | 0 | | | |
| 100 | Balranald | 8 | 8 | 11 | 24 | 21 | 11 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 21 | 0.0 | 0.0 | 223 | 196 | 203 | | 98 | 100 | 2 | of 2 | 2 | 98 | | | | 100 | 282 | 248 | 240 | | | 147 | 0 | 73 | 73 | | |
| 97 | Bombala | | 3 | | 31 | 123 | 74 | 0 | 34 | 74 | 0.0 | 0.1 | 0 | 0.0 | 40 | 0.0 | 0.0 | 173 | 173 | 173 | | 96 | 100 | 2 | of 2 | 1 | 2 | 1 | | 96 | 100 | 228 | 228 | 228 | | | 35 | 35 | 20 | 100 | 21 | |
| 101 | Murrumbidgee | 14 | | | 95 | - | - | 0 | - | - | - | - | - | 0.0 | | - | - | 86 | 86 | 86 | | - | - | 0 | of 2 | - | - | - | - | - | | 117 | 115 | 115 | | - | 15 | 17 | 17 | 17 | | |
| 90 | Guyra | 94 | 27 | 14 | 39 | 21 | 9 | 6 | 7 | 2 | 0.0 | 0.1 | 168 | 0.6 | | 0.0 | 1.8 | 284 | 168 | 108 | | 100 | 100 | 2 | of 2 | 7 | 88 | 5 | | 0 | 100 | 296 | 175 | 108 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 |
| 104 | Boorowa | | 6 | 7 | | | | 3 | 0 | | 2.0 | 0.4 | 0 | 0.0 | 63 | 0.0 | 0.0 | 88 | 88 | 88 | | 100 | 65 | 0 | of 1 | 2 | 98 | | | | 100 | 147 | 147 | 158 | | | 2 | 1 | 5 | 2 | | |
| 105 | Brewarrina | | 69 | | 131 | 156 | 138 | 0 | 0 | 0 | 0.0 | 0.6 | 0 | 0.0 | 213 | 0.0 | 0.0 | 210 | 210 | 190 | | - | 100 | 2 | of 3 | 6 | 94 | | | 83 | 100 | 438 | 436 | 384 | | | 212 | 81 | 81 | 100 | | |
| 106 | Jerilderie | 708 | 83 | 83 | 25 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 150 | 0.0 | 0.0 | 85 | 77 | 68 | | 100 | 25 | 0 | of 1 | 15 | 85 | | | 100 | 200 | 181 | 160 | | | 10 | 10 | 6 | 26 | 15 | | |
| 103 | Central Darling | | | | 231 | 123 | | 31 | 54 | | - | - | 0 | 0.0 | 500 | - | - | 100 | 100 | 100 | | - | - | 1 | of 1 | - | - | - | - | - | | 515 | 515 | 488 | | - | 0 | 0 | 0 | | | |
| 107 | Urana | | | | 0 | 0 | | 0 | 0 | 0 | - | - | 0 | 0.0 | 33 | 0.0 | 0.0 | 90 | 90 | 90 | | 100 | 100 | 2 | of 2 | | 100 | | | | 100 | 286 | 285 | 284 | | | 0 | 0 | 0 | | | |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | 48 | | 21 | | 1 | | 0 | | 0 | | 0 | | 89 | | | | | | | | | | | | | | | | | 207 | | | Total Vol 1,611 | | | 2 | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | <i>Breaks & Chokes</i> | | 37 | | <i>Overflows</i> | | 3 | | <i>Renewals 0% of CRC</i> | | <i>Median % sge treated that was compliant was 100%</i> | | | | | | | | | | | | | | | <i>Median % of Effluent Recycled</i> | | | 17 | | | | | | | | | | | | |
| <i>Median All LWUs (Statewide basis)</i> | | 39 | | 15 | | <i>Renewals 0.3 % of CRC</i> | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | |
| <i>Totals for all LWUs</i> | | | | | | | | | | | | | | | <i>Total volume of sewage collected = 165,000 ML</i> | | | | | | | | | | | | | | | <i>No. of LWUs Reporting Biosolids Reuse</i> | | | 26 (ie. 26% of LWUs) | | | <i>Total volume of effluent recycled = 39,000 ML</i> | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | <i>No. of LWUs Reporting Recycling for Urban use</i> | | | 43 (ie. 43% of LWUs) | | | <i>Effluent Recycled % of total volume collected = 24%</i> | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | <i>No. of LWUs Reporting Effluent Recycling</i> | | | 80 (ie. 80% of LWUs) | | | | | | | | | |

NOTE: 1. For those councils that did not report the current year's volume of sewage collected (column (32)), either the previous year's value or the current year's volume of sewage treated has been adopted, whichever is the larger.

These adopted values are shown in bold italics in columns (32) and (39).

2 The number of LWUs reporting effluent recycling = 80 (ie. 80% of LWUs providing sewerage services)

The number of LWUs reporting effluent recycling for Urban Water Supply (ie. not for irrigation, environmental use or agriculture) = 43 (ie. 43% of LWUs providing sewerage services)

3 For those councils that did not report the current year's volume of effluent recycled (column (41)), the previous year's value has been adopted.

For such councils, the adopted value is shown in bold italics in column (41).

Table 16: Sewerage – financial and efficiency

| WATER UTILITY | FINANCIAL (SEE ALSO COST RECOVERY TABLE 7) | | | | | | | | | | | | | | | | | | EFFICIENCY (SEE ALSO COST RECOVERY TABLE 7) | | | | | | | | | | | | | | | | | | |
|---|--|-----------|---------------------------|--------------------------------------|---|---|--------------------------------|--|--------------------|-------|-------|---------------------------|-------|-----------|---|--|-----------------|------------------|---|---------------|-------|----------|----------------------|-------|-------|-------|-----------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| | Total Revenue - Sewerage (excl. Capital Works Grants) (\$'000) | | Revenue per property (\$) | Residential Revenue Vs Vol Collected | | Current Replacement Cost (CRC) of System Assets | | | Net Debt to Equity | | | Return on Assets | | | ERRR | | Cross Subsidies | Operating Result | Externalities (Annual Fees to EPA) | Loan Payment | | | Operating Cost (OMA) | | | | Management Cost | | | | | | | | | | |
| | | | | Res Revenue (% of rates and charges) | Res Vol collected (% total excl infiltration) | Written Down Cost (\$M) | Current Replacement Cost (\$M) | Current Replacement Cost per Assessment (\$) | % | | | see also Table 7 Col (11) | | | Annual Fees & Charges (\$/assessment) (49a) | Developer Charge (\$/assessment) (49b) | | | | (\$/property) | | | (\$/property) | | | | (\$/property) | | | | | | | | | | |
| | (42) F2 | (42a) F6 | (43) | (44) | (45) | (46) F10 | (47) | (48) F22 | | | (48a) | | | (48b) F18 | | | (50) | (51) | (51a) | | | (52) F12 | | | | (54) | | | | | | | | | | | |
| 08/09 | 09/10 | | | 09/10 | 09/10 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 06/07 | 07/08 | 08/09 | 09/10 | 06/07 | 07/08 | 08/09 | 09/10 | | | | | | |
| Sydney Water | 995,675 | 1,070,000 | 623 | | | 22,278 | | 62 | 103 | 120 | | | | 1.2 | 0.9 | 1.7 | | | | | | | | 190 | 261 | 240 | 245 | | | | | | | | | | |
| Hunter Water | 111,359 | | 572 | | | 2,715 | | 30 | 32 | 39 | | | | 2.3 | 2.0 | 1.8 | | | | | | | 228 | 259 | 271 | 305 | | | | | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford | 30,200 | 36,700 | 535 | 82 | 82 | 413 | 497 | 7,607 | -7 | -5 | -5 | 1.1 | 1.4 | 2.1 | 1.3 | 1.1 | 2.1 | | | | | | 64 | 126 | 3.9 | 6 | 6 | 6 | 266 | 261 | 282 | 313 | 109 | 105 | 133 | 128 |
| 2 | Wyong | 25,500 | 29,000 | 490 | 87 | 75 | 396 | 567 | 9,344 | -1 | -1 | -1 | -1.2 | -1.6 | -1.0 | -1.2 | -1.6 | -1.0 | | | | | | -107 | -67 | | 67 | 111 | 25 | 284 | 300 | 319 | 327 | 90 | 84 | 112 | 127 |
| 3 | Shoalhaven | 30,400 | 32,700 | 807 | 86 | 82 | 471 | 637 | 13,926 | 8 | 8 | 8 | 1.1 | 0.8 | 1.1 | 1.6 | 1.3 | 1.6 | | | | | | 75 | 120 | 1.8 | 122 | 135 | 162 | 369 | 397 | 424 | 427 | 132 | 143 | 153 | 150 |
| 5 | MidCoast | 26,600 | 31,600 | 962 | 86 | 80 | 437 | 634 | 18,545 | 23 | 26 | 27 | -1.9 | -1.8 | -1.1 | -0.1 | -0.2 | 0.3 | | | | | | -259 | -149 | 2.6 | | 330 | 345 | 416 | 404 | 415 | 416 | 56 | 70 | 80 | 83 |
| 6 | Tweed | 27,500 | 26,300 | 893 | 87 | 90 | 458 | 592 | 18,287 | -2 | -3 | -4 | 0.9 | -0.2 | 0.7 | 1.0 | -0.2 | -0.3 | | | | | | -69 | 88 | 4.9 | 27 | 43 | 63 | 333 | 372 | 413 | 451 | 125 | 132 | 141 | 163 |
| 7 | Port Macquarie-Hastings | 19,200 | 19,600 | 742 | 87 | 90 | 221 | 339 | 12,210 | -8 | 3 | 5 | 0.5 | -0.7 | 1.8 | 0.3 | 2.1 | 1.4 | | 214 | | | | -178 | 86 | 0.0 | 31 | 60 | 80 | 344 | 376 | 349 | 367 | 95 | 107 | 108 | 98 |
| 9 | Wagga Wagga | 13,600 | 14,500 | 577 | 68 | 84 | 219 | 297 | 12,302 | -9 | 4 | -3 | 1.2 | 0.9 | 1.9 | 1.0 | 1.0 | 1.3 | | | | | | 74 | 17 | 0.0 | 8 | 18 | 18 | 211 | 253 | 270 | 251 | 46 | 50 | 54 | 44 |
| 10 | Coffs Harbour | 20,500 | 24,600 | 1,084 | 79 | 90 | 310 | 391 | 16,012 | 13 | 25 | 23 | 0.9 | -0.7 | 1.6 | 2.8 | 2.1 | 2.6 | | 21580 | | | | -113 | 201 | 1.8 | 420 | 685 | 690 | 388 | 415 | 429 | 485 | 117 | 126 | 130 | 164 |
| 11 | Albury City | 12,100 | 14,900 | 711 | 74 | 90 | 162 | 288 | 13,603 | 9 | 11 | 9 | 0.8 | 1.2 | 1.7 | 1.3 | 2.1 | 2.1 | | 30 | | | | 83 | 129 | 2.4 | 96 | 104 | 115 | 330 | 319 | 254 | 386 | 112 | 133 | 31 | 142 |
| 13 | Tamworth Regional | 18,500 | 21,200 | 1,140 | 79 | 56 | 105 | 200 | 10,778 | -17 | -10 | 8 | 7.5 | 8.8 | 7.4 | 6.9 | 7.8 | 6.5 | | | | | | 671 | 743 | 1.0 | 47 | 158 | 56 | 322 | 269 | 277 | 333 | 132 | 91 | 105 | 95 |
| 15 | Eurobodalla | 13,500 | 14,900 | 842 | | 90 | 168 | 269 | 14,278 | 5 | 2 | 1 | 0.4 | 1.3 | 3.1 | 0.7 | 1.6 | 1.8 | | | | | | 80 | 286 | 1.2 | 84 | 151 | 215 | 394 | 441 | 403 | 445 | 103 | 106 | 157 | 165 |
| 17 | Queanbeyan | 5,800 | 6,200 | 385 | 88 | 80 | 112 | 211 | 13,483 | -21 | -20 | -21 | 1.3 | -0.5 | -0.6 | 0.1 | -1.0 | -2.3 | | | | | | -41 | -62 | 0.0 | 1 | 0 | 0 | 227 | 274 | 249 | 366 | 96 | 138 | 104 | 107 |
| 19 | Orange | 13,600 | 7,300 | 467 | 76 | 75 | 107 | 178 | 11,349 | -17 | 0 | -16 | 3.1 | 6.8 | 0.3 | 3.3 | 5.8 | -0.4 | | 810 | | | | 403 | -49 | 1.5 | 0 | 0 | 0 | 261 | 318 | 296 | 300 | 103 | 136 | 123 | 136 |
| 18 | Dubbo | 9,700 | 10,200 | 661 | 70 | 58 | 157 | 187 | 13,427 | -5 | -5 | -6 | 1.7 | 1.2 | 2.2 | 1.7 | 1.4 | 1.7 | | | | | | 89 | 216 | 5.0 | 20 | 20 | 19 | 324 | 335 | 370 | 346 | 145 | 137 | 151 | 157 |
| 16 | Wingecarribee | 9,700 | 10,800 | 746 | 87 | 76 | 206 | 269 | 17,675 | 3 | 4 | 8 | 2.0 | 0.7 | 0.5 | 2.2 | 1.0 | 0.9 | | | | | | 43 | -20 | | 127 | 130 | 163 | 325 | 324 | 323 | 367 | 128 | 140 | 142 | 143 |
| 14 | Clarence Valley | 10,400 | 11,700 | 813 | 81 | 90 | 117 | 159 | 10,357 | -26 | 4 | 14 | 1.9 | -0.1 | 0.6 | 3.6 | 1.2 | 1.7 | | | | | | -56 | 63 | 0.2 | 162 | 370 | 366 | 344 | 356 | 357 | 360 | 151 | 141 | 124 | 149 |
| 21 | Bathurst Regional | 7,800 | 7,900 | 534 | 64 | 68 | 72 | 139 | 10,122 | -15 | -15 | -17 | 1.8 | 2.7 | 1.5 | 1.2 | 2.2 | 1.1 | | | | | | 123 | 63 | 6.2 | 13 | 13 | 1 | 324 | 317 | 342 | 348 | 142 | 136 | 134 | 154 |
| 24 | Ballina | 8,600 | 10,600 | 809 | 81 | 90 | 98 | 195 | 13,839 | -14 | -11 | -9 | 0.8 | -1.2 | 3.4 | -0.7 | -2.3 | -0.3 | | | | | | -126 | 250 | 0.4 | 2 | 2 | 2 | 383 | 456 | 537 | 573 | 133 | 137 | 179 | 194 |
| 22 | Lismore | 7,900 | 8,500 | 686 | 78 | 87 | 181 | 333 | 28,242 | -5 | -5 | -6 | -1.2 | -1.8 | 0.5 | -0.9 | -1.3 | -1.3 | | | | | | -275 | 55 | 0.1 | 5 | 15 | 21 | 331 | 386 | 366 | 392 | 77 | 107 | 110 | 101 |
| 23 | Bega Valley | 12,200 | 13,700 | 1,152 | 84 | 65 | 116 | 188 | 15,522 | 19 | 19 | 15 | 1.3 | 0.4 | 0.8 | 2.1 | 1.5 | 1.9 | | | | | | 35 | 80 | 2.1 | 201 | 197 | 196 | 511 | 574 | 596 | 660 | 184 | 208 | 213 | 228 |
| 27 | Byron | 11,000 | 12,100 | 1,194 | 76 | 73 | 184 | 256 | 24,251 | 12 | 16 | 33 | 0.6 | 0.4 | 0.0 | 1.3 | 1.4 | 1.5 | | | | | | -77 | -138 | 0.4 | 206 | 242 | 417 | 516 | 529 | 571 | 584 | 138 | 148 | 163 | 158 |
| 26 | Country Energy | 4,600 | 4,900 | 505 | 81 | 61 | | 35 | 3,600 | | | | | | | | | | | | | | | 31 | 150 | 4.2 | 0 | 0 | 0 | 234 | 268 | 337 | 253 | 107 | 87 | 83 | 69 |
| 20 | Goulburn Mulwaree | 8,300 | 8,300 | 869 | 73 | 90 | 86 | 133 | 14,327 | 14 | 12 | 8 | 0.4 | 1.8 | 3.3 | 4.2 | 3.6 | 3.6 | | | | | | 134 | 325 | 1.6 | 234 | 190 | 199 | 290 | 350 | 352 | 382 | 124 | 107 | 110 | 112 |
| 25 | Kempsey | 6,400 | 6,800 | 754 | 75 | 67 | 119 | 200 | 23,035 | -2 | 4 | 7 | 0.2 | 0.0 | -0.2 | 0.5 | 0.4 | 0.6 | | | | | | -57 | -65 | 5.5 | 82 | 120 | 203 | 346 | 365 | 381 | 433 | 126 | 127 | 128 | 143 |
| <i>Medians (% of LWUs basis) for > 10,000 Properties</i> | | | | | | | | | 13,721 | | | 5 | | | 1 | | | 1 | | 83 | | | 71 | | | 375 | | | | 142 | | | | | | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Armidale Dumaresq | 4,000 | 5,100 | 623 | 62 | 78 | 63 | 67 | 8,031 | -5 | 0 | -6 | 1.5 | 1.3 | 4.0 | 0.9 | 1.3 | 3.7 | | | | | | -146 | 297 | 4.4 | 0 | 0 | 0 | 342 | 369 | 357 | 290 | 135 | 171 | 186 | 135 |
| 31 | Lithgow | 3,400 | 4,000 | 539 | 90 | - | 28 | 68 | 8,986 | -6 | -2 | -26 | 0.5 | -1.4 | 5.1 | -0.3 | -1.6 | -0.7 | | | | | | 30 | 192 | 0.4 | 144 | 7 | 38 | 630 | 390 | 379 | 419 | 178 | 35 | 42 | 72 |
| 30A | Hawkesbury | 5,200 | 16,400 | 2,180 | 75 | 0 | 77 | 140 | 18,189 | -4 | 0 | -4 | -1.6 | 0.1 | 14.4 | -1.6 | 0.0 | 14.1 | | | | | | 27 | 1477 | 0.1 | 1 | 1 | 0 | 443 | 415 | 429 | 435 | | | | |
| 30 | Griffith | 4,800 | 6,200 | 820 | 74 | 80 | 107 | 131 | 14,738 | -2 | 0 | -2 | -0.1 | 0.1 | 1.7 | 0.2 | 0.3 | 1.3 | | | | | | 8 | 226 | 0.0 | 68 | 63 | 82 | 424 | 442 | 464 | 446 | 126 | 141 | 145 | 151 |
| 33 | Richmond Valley | 6,100 | 6,900 | 1,063 | 88 | 90 | 64 | 118 | 17,316 | 3 | 6 | -14 | 2.4 | 1.1 | 3.1 | 2.6 | 2.2 | 3.5 | | | | | | -77 | 286 | 3.3 | 181 | 197 | 117 | 375 | 417 | 482 | 455 | 175 | 187 | 198 | 223 |
| 32 | Mid-Western Regional | 3,100 | 3,100 | 472 | 90 | 69 | 31 | 74 | 11,312 | -18 | -17 | -20 | 1.7 | 0.1 | -0.1 | 0.6 | -1.0 | -1.2 | | 14560 | | | | 2 | -17 | 6.7 | 17 | 17 | 16 | 298 | 315 | 337 | 341 | 98 | 105 | 133 | 126 |
| 34 | Nambucca | 3,300 | 4,300 | 804 | 60 | 90 | 66 | 92 | 16,386 | -8 | -7 | -24 | 0.1 | 0.5 | 7.0 | 0.4 | 0.9 | 2.0 | | | | | | 56 | 863 | 2.1 | 63 | 77 | 137 | 280 | 312 | 352 | 391 | 90 | 97 | 115 | 125 |
| 35 | Singleton | 2,500 | 2,900 | 539 | 79 | 90 | 29 | 57 | 10,094 | -25 | 0 | -1 | 3.6 | 2.3 | 2.2 | 2.0 | 0.5 | 0.8 | | | | | | 106 | 95 | 23.6 | 0 | 0 | 0 | 200 | 247 | 275 | 316 | 70 | 80 | 85 | 106 |
| 37 | Inverell | 1,800 | 1,700 | 367 | | 90 | 34 | 48 | 10,151 | -7 | 0 | -3 | -2.4 | -1.0 | 0.9 | -0.5 | 0.7 | 0.2 | | 1 | | | | -114 | 23 | 4.8 | 1 | 0 | 0 | 242 | 316 | 250 | 269 | 92 | 90 | 97 | 112 |
| 41 | Muswellbrook | 3,300 | 3,800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 16: Sewerage – financial and efficiency (continued)

| WATER UTILITY | FINANCIAL (SEE ALSO COST RECOVERY TABLE 7) | | | | | | | | | | | | | | | | | | EFFICIENCY (SEE ALSO COST RECOVERY TABLE 7) | | | | | | | | | | | | |
|---|--|-------------|---------------------------|--------------------------------------|-------------------------|---|--|-------------------|------------------------|-------------------|-------------------|-------------------|-----------------|-------------|-------------|-------------------------|-------------------------|--------------------------------|---|--|----------------------------|--|--|------------------------------------|--|--|--|-------------------------------|--|--|--|
| | Total Revenue - Sewerage (excl. Capital Works Grants) (\$'000) | | Revenue per property (\$) | Residential Revenue Vs Vol Collected | | Current Replacement Cost (CRC) of System Assets | | | Net Debt to Equity (%) | | Return on Assets | | | ERRR | | Cross Subsidies | | Operating Result (\$/property) | | Externalities (Annual Fees to EPA) (\$/property) | Loan Payment (\$/property) | | | Operating Cost (OMA) (\$/property) | | | | Management Cost (\$/property) | | | |
| | (42) F 2 | (42a) F6 | (43) | (44) | Written Down Cost (\$M) | Current Replacement Cost (\$M) | Current Replacement Cost per Assessment (\$) | (48) F 22 | (48a) | (48b) F 18 | (49a) | (49b) | (50) | (51) | (51a) | (52) F12 | (54) | | | | | | | | | | | | | | |
| | 08/09 09/10 | 08/09 09/10 | 08/09 09/10 | 08/09 09/10 | 08/09 09/10 | 08/09 09/10 | 08/09 09/10 | 07/08 08/09 09/10 | 07/08 08/09 09/10 | 07/08 08/09 09/10 | 07/08 08/09 09/10 | 07/08 08/09 09/10 | 07/08 09/10 | 07/08 09/10 | 07/08 09/10 | 06/07 07/08 08/09 09/10 | 06/07 07/08 08/09 09/10 | | | | | | | | | | | | | | |
| 36 Parkes | 2,000 2,500 | 506 | 75 72 | 25 43 | 8,242 | -16 0 -16 | -3.1 -0.2 6.0 | 1.5 0.4 4.3 | -122 93 | 8.9 | 0 0 10 | 218 168 210 208 | 35 32 34 36 | | | | | | | | | | | | | | | | | | |
| 42 Corowa | 2,600 3,300 | 678 | 84 90 | 29 41 | 8,009 | 3 4 -9 | 1.8 0.5 2.8 | 1.9 1.4 2.7 | -55 127 | 3.6 | 31 55 45 | 269 335 367 375 | 102 160 155 171 | | | | | | | | | | | | | | | | | | |
| 38 Moree Plains | 3,000 3,100 | 830 | 77 90 | 27 49 | 12,696 | 17 13 -1 | -0.6 1.8 2.4 | 1.7 2.3 2.2 | 25 75 | 4.0 | 205 98 98 | 396 432 423 449 | 62 90 93 56 | | | | | | | | | | | | | | | | | | |
| 44 Gunnedah | 1,400 1,300 | 325 | 89 76 | 22 53 | 13,750 | -15 0 -1 | -0.4 -0.2 0.9 | -0.2 -0.3 -0.8 | -28 43 | 3.0 | 0 0 0 | 140 133 181 177 | 37 37 66 76 | | | | | | | | | | | | | | | | | | |
| 46 Narrabri | 1,700 1,800 | 483 | 90 | 18 90 | 23,736 | -2 -3 -7 | 0.0 -1.0 2.2 | 1.5 -0.6 1.4 | -85 95 | 4.3 | 37 48 64 | 282 239 272 320 | 98 56 48 26 | | | | | | | | | | | | | | | | | | |
| 43 Tumut | 2,600 2,800 | 674 | 79 90 | 24 42 | 9,638 | -5 0 -4 | 3.9 1.1 1.4 | 3.3 0.9 1.0 | 38 68 | 2.8 | 3 0 0 | 326 407 364 381 | 47 99 69 75 | | | | | | | | | | | | | | | | | | |
| 49 Young | 1,500 1,600 | 432 | 65 - | 8 28 | 7,856 | -29 -30 -15 | 10.1 5.8 6.9 | 7.6 5.4 6.6 | 135 71 | 11.7 | 11 11 11 | 107 112 146 145 | 20 20 59 67 | | | | | | | | | | | | | | | | | | |
| 39 Cowra | 2,600 2,700 | 760 | 80 90 | 24 39 | 10,559 | -12 -11 -16 | 5.3 4.0 4.3 | 5.6 4.2 4.7 | 251 296 | 11.7 | 41 40 52 | 242 298 393 361 | 137 161 221 241 | | | | | | | | | | | | | | | | | | |
| 45 Upper Hunter | 1,800 1,900 | 459 | 82 90 | 27 54 | 11,940 | -15 0 -17 | 0.6 -1.2 -1.7 | -0.7 -2.6 -2.7 | -81 -113 | 11.7 | 0 0 0 | 345 422 416 412 | 150 173 163 151 | | | | | | | | | | | | | | | | | | |
| 52 Snowy River | 2,200 3,000 | 832 | - | 23 40 | 15,948 | -14 0 -9 | -0.3 1.8 3.3 | -1.7 0.9 2.7 | 104 215 | 1.3 | 0 0 0 | 290 460 377 455 | 78 153 139 126 | | | | | | | | | | | | | | | | | | |
| 51 Forbes | 1,900 2,100 | 683 | 74 83 | 27 39 | 12,629 | 4 1 -11 | 1.2 1.4 0.1 | 1.6 1.6 0.3 | 122 10 | 3.3 | 305 338 116 | 257 297 310 342 | 37 37 33 57 | | | | | | | | | | | | | | | | | | |
| 50 Cooma-Monaro | 2,400 2,500 | 734 | 83 2 | 27 42 | 11,841 | -3 -3 -3 | -0.8 0.4 -0.7 | -0.4 0.3 -0.7 | 20 -63 | 3.3 | 82 45 42 | 355 470 474 502 | 111 152 163 168 | | | | | | | | | | | | | | | | | | |
| 53 Berrigan | 1,400 1,300 | 394 | 81 90 | 16 39 | 11,736 | -8 0 -15 | 2.5 -1.9 -1.8 | 1.2 -3.1 -3.0 | -127 -123 | 3.1 | 0 0 0 | 216 215 368 307 | 87 85 90 92 | | | | | | | | | | | | | | | | | | |
| 48 Leeton | 2,200 2,200 | 687 | 53 78 | 20 46 | 13,588 | -24 -25 -19 | 2.4 1.4 1.6 | 1.2 0.7 0.7 | 122 69 | 0.0 | 15 115 6 | 365 358 420 439 | 140 156 113 120 | | | | | | | | | | | | | | | | | | |
| 54 Deniliquin | 1,700 1,900 | 602 | - | 14 42 | 12,788 | -20 -16 -3 | 3.8 2.0 3.8 | 1.8 0.8 -0.2 | -28 83 | 7.2 | 18 21 21 | 412 385 391 477 | 131 171 196 259 | | | | | | | | | | | | | | | | | | |
| <i>Medians (% of LWUs basis) for 3,000 to 10,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 11,890 -10 2 1 88 18 378 122 | | | | | | | | | | | | | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 Bellingen | 1,700 1,700 | 572 | 90 | 25 42 | 13,581 | -27 -22 -21 | 0.8 0.3 -0.6 | -0.7 -1.7 -1.8 | -3 -79 | 2.2 | 1 1 1 | 402 451 506 | 181 184 175 | | | | | | | | | | | | | | | | | | |
| 60 Glen Innes Severn | 1,200 1,100 | 394 | 88 | 21 28 | 9,183 | 3 3 -11 | 0.3 -0.1 1.1 | 1.1 1.2 0.6 | -11 71 | 0.5 | 98 91 87 | 236 246 229 238 | 118 115 125 116 | | | | | | | | | | | | | | | | | | |
| 58 Cootamundra | 952 978 | 354 | 75 84 | 17 29 | 10,297 | -1 -3 -5 | -0.4 0.3 -0.1 | -0.3 0.4 0.1 | 15 -56 | 0.0 | 31 38 47 | 192 185 201 227 | 50 51 58 60 | | | | | | | | | | | | | | | | | | |
| 57 Wellington | 1,400 1,600 | 600 | 77 90 | 20 31 | 11,248 | 12 17 -4 | 0.8 -1.1 0.3 | 1.8 0.0 1.2 | -104 2 | | 168 168 149 | 296 312 421 332 | 134 159 154 157 | | | | | | | | | | | | | | | | | | |
| 91 Cabonne | 1,400 1,500 | 629 | 82 90 | 26 35 | 13,653 | -13 -7 -5 | 1.5 1.2 -0.1 | 0.7 0.9 -0.3 | 82 -81 | 1.4 | 65 64 54 | 204 214 240 360 | 50 48 69 184 | | | | | | | | | | | | | | | | | | |
| 80 Greater Hume | 830 861 | 337 | 77 86 | 20 32 | 11,978 | -7 -8 -8 | -0.5 -0.6 -0.9 | -1.1 -1.2 -1.4 | -49 -73 | 0.6 | 23 24 25 | 255 282 282 303 | 78 79 81 101 | | | | | | | | | | | | | | | | | | |
| 59 Lachlan | 732 748 | 346 | 76 | 13 29 | 13,739 | -24 0 -21 | 1.1 -0.4 -1.4 | -0.6 -1.0 -3.1 | -75 -83 | 9.3 | 0 0 0 | 224 284 287 | 54 78 83 | | | | | | | | | | | | | | | | | | |
| 65 Murray | 1,400 1,400 | 524 | 74 67 | 20 27 | 9,720 | -1 -4 -7 | 0.9 1.7 1.9 | 1.0 1.7 1.7 | 109 136 | 3.3 | 45 36 40 | 237 294 241 269 | 98 145 96 108 | | | | | | | | | | | | | | | | | | |
| 62 Narromine | 1,000 1,100 | 563 | 85 90 | 6 18 | 8,796 | -31 0 -38 | 3.3 1.0 4.8 | 2.2 0.8 3.6 | 140 152 | 5.3 | 0 0 0 | 280 308 280 297 | 152 139 149 197 | | | | | | | | | | | | | | | | | | |
| 56 Yass Valley | 1,500 1,500 | 680 | 85 | 15 25 | 10,808 | -35 0 -9 | 5.6 2.7 1.8 | 5.5 2.6 1.4 | 142 104 | | 0 0 0 | 340 371 407 | 150 156 230 | | | | | | | | | | | | | | | | | | |
| 61 Liverpool Plains | 694 733 | 374 | - | 11 28 | 13,931 | -18 0 -17 | -1.3 0.0 -0.2 | -2.3 -0.1 -0.9 | 7 -11 | 4.2 | 0 0 0 | 232 230 205 249 | 94 86 76 143 | | | | | | | | | | | | | | | | | | |
| 55 Warrumbungle | 1,100 1,300 | 529 | 73 70 | 16 29 | 11,668 | -19 -21 | 0.4 2.1 | 0.6 1.6 | 24 131 | | 11 11 | 301 301 285 294 | 70 70 73 55 | | | | | | | | | | | | | | | | | | |
| 69 Temora | 534 562 | 266 | 90 90 | 9 15 | 6,994 | -6 0 -9 | 0.8 1.5 0.2 | 0.4 1.0 -0.3 | 62 9 | 0.0 | 0 0 0 | 155 159 155 219 | 37 33 32 48 | | | | | | | | | | | | | | | | | | |
| 71 Palerang | 2,300 2,200 | 1,148 | 90 | 23 36 | 18,072 | -17 -17 -30 | 6.7 6.6 4.0 | 6.0 6.0 3.6 | 583 469 | 1.5 | 149 110 143 | 395 386 396 | 175 162 145 | | | | | | | | | | | | | | | | | | |
| 72 Bland | 897 946 | 513 | 90 | 10 20 | 10,518 | 0 -19 | 0.1 2.0 | 0.5 1.0 | 4 136 | 0.0 | 22 0 | 324 324 312 292 | 141 141 64 49 | | | | | | | | | | | | | | | | | | |
| 63 Narrandera | 961 945 | 557 | 79 - | 6 11 | 5,883 | -25 0 -30 | -1.2 0.8 2.1 | -1.2 0.9 0.0 | -13 53 | 6.8 | 0 8 0 | 409 406 355 373 | 145 169 134 136 | | | | | | | | | | | | | | | | | | |
| 67 Cobar | 520 508 | 293 | 90 | 9 16 | 8,946 | -3 0 -1 | 0.6 1.2 0.4 | 0.3 1.1 0.3 | 67 24 | 7.8 | 0 0 0 | 142 165 137 129 | 20 55 20 20 | | | | | | | | | | | | | | | | | | |
| 74 Wentworth | 986 1,200 | 670 | 90 | 24 29 | 15,417 | 2 3 -1 | -1.0 -0.9 0.5 | -0.7 -0.5 0.7 | -133 47 | | 110 120 112 | 279 260 276 251 | 56 54 57 56 | | | | | | | | | | | | | | | | | | |
| 75 Coonamble | 471 488 | 346 | 86 88 | 4 18 | 13,182 | -45 -28 -33 | -2.2 -2.5 -3.9 | -6.9 -7.5 -8.1 | -65 -119 | 4.9 | 7 7 7 | 215 296 275 300 | 23 85 44 53 | | | | | | | | | | | | | | | | | | |
| 70 Kyogle | 1,000 1,000 | 591 | 80 71 | 17 28 | 15,631 | 1 3 -6 | 0.9 0.9 0.2 | 1.1 1.1 0.6 | 83 8 | 2.1 | 27 54 50 | 298 319 332 375 | 101 88 103 105 | | | | | | | | | | | | | | | | | | |
| 77 Junee | 587 628 | 396 | 86 85 | 12 20 | 12,107 | -9 0 -8 | 0.4 0.7 0.0 | -0.1 0.1 -0.4 | 47 1 | 0.0 | 0 0 0 | 230 221 238 275 | 54 57 53 57 | | | | | | | | | | | | | | | | | | |
| 78 Blayney | 933 1,100 | 578 | 89 | 15 22 | 11,986 | -10 -11 -16 | -2.0 -0.4 0.2 | 0.3 -0.2 0.4 | -29 16 | 0.0 | 41 64 61 | 301 341 335 335 | 129 150 153 151 | | | | | | | | | | | | | | | | | | |
| 79 Walgett | 628 640 | 399 | 0 | 10 16 | 8,442 | -13 -15 -16 | 1.9 0.5 0.6 | 1.8 0.5 0.5 | 76 36 | | 13 5 5 | 248 194 221 280 | 124 73 32 77 | | | | | | | | | | | | | | | | | | |
| 68 Tenterfield | 1,200 1,500 | 920 | 81 - | 21 30 | 17,657 | -9 10 2 | -2.0 -2.4 0.1 | 1.3 -1.2 0.2 | -308 5 | 1.3 | 11 139 110 | 410 421 569 510 | 214 221 260 153 | | | | | | | | | | | | | | | | | | |
| <i>Medians (% of LWUs basis) for 1,500 to 3,000 Properties</i> | | | | | | | | | | | | | | | | | | 11,823 -10 0 0 12 9 295 106 | | | | | | | | | | | | | |

Table 16: Sewerage – financial and efficiency (continued)

| WATER UTILITY | FINANCIAL (SEE ALSO COST RECOVERY TABLE 7) | | | | | | | | | | | | | | | | | EFFICIENCY (SEE ALSO COST RECOVERY TABLE 7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------------------------|---------------------------|--------------------------------------|--|---|--------------------------------|--|--------------------|-----------------|-----------|------------------|-----------|------------|---|------------|--|---|---------------|------------------|-------|---|---------------|-----------|----------------------------------|----------------------|---------------|-------------|--------------|-----------------|----------------------------|-----|--------------|-----|--------------|--|--|--|-----------------------|--|--|--|--------------|--|--|--|
| | Total Revenue - Sewerage (excl. Capital Works Grants) (\$'000) | | Revenue per property (\$) | Residential Revenue Vs Vol Collected | | Current Replacement Cost (CRC) of System Assets | | | Net Debt to Equity | | | Return on Assets | | | ERRR | | | Cross Subsidies | | Operating Result | | Externallities (Annual Fees to EPA) (\$/property) | Loan Payment | | | Operating Cost (OMA) | | | | Management Cost | | | | | | | | | | | | | | | | |
| | | | | Res Revenue (% of rates and charges) | Res Vol collected (% total exd infiltration) | Written Down Cost (\$M) | Current Replacement Cost (\$M) | Current Replacement Cost per Assessment (\$) | % | | | | | | Annual Fees & Charges (\$/assessment) (49a) | | Developer Charge (\$/assessment) (49b) | | (\$/property) | | | | (\$/property) | | | | (\$/property) | | | | | | | | | | | | | | | | | | | |
| | (42) F 2 | (42a) F 6 | (43) | (44) | (45) | (46) F 10 | (47) | (48) F 22 | | | (48a) | | | (48b) F 18 | | | | | | | (51a) | | | (52) F 12 | | | | (54) | | | | | | | | | | | | | | | | | | |
| 08/09 | 09/10 | | 09/10 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | 09/10 | 07/08 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 06/07 | 07/08 | 08/09 | 09/10 | 06/07 | 07/08 | 08/09 | 09/10 | | | | | | | | | | | | | | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | Gilgandra | 523 | 571 | 418 | 78 | 71 | 8 | 15 | 10,804 | -12 | -8 | -7 | 1.8 | 1.3 | 0.5 | 1.0 | 0.7 | 0.3 | | 21 | -16 | 8.1 | 0 | 0 | 53 | 170 | 180 | 186 | 249 | 23 | 23 | 34 | 44 | | | | | | | | | | | | | |
| 73 | Upper Lachlan | 1,800 | 952 | 672 | 85 | 86 | 13 | 20 | 13,890 | -3 | 1 | -16 | 0.2 | -0.3 | 2.4 | 1.4 | 1.3 | 1.9 | | 699 | 2882 | 1.9 | 159 | 159 | 159 | 290 | 319 | 318 | 318 | 91 | 107 | 109 | 104 | | | | | | | | | | | | | |
| 82 | Gloucester | 726 | 981 | 614 | 73 | 83 | 11 | 17 | 10,309 | -20 | 0 | -10 | 0.1 | 0.3 | 3.6 | 0.1 | -0.2 | 3.0 | | -17 | 186 | 2.0 | 0 | 0 | 0 | 421 | 392 | 360 | 287 | 78 | 74 | 85 | 57 | | | | | | | | | | | | | |
| 87 | Bourke | 638 | 665 | 533 | 88 | 90 | 6 | 11 | 8,964 | -16 | -17 | -20 | 0.5 | 0.2 | 2.9 | -0.8 | -0.4 | 1.8 | | 22 | 149 | 0.9 | 63 | 64 | 54 | 472 | 374 | 477 | 286 | 58 | 67 | 162 | 51 | | | | | | | | | | | | | |
| 86 | Hay | 663 | 773 | 607 | 82 | 90 | 5 | 18 | 14,200 | -22 | -24 | -24 | -1.1 | 2.1 | -0.6 | -2.7 | 0.9 | -1.5 | | 64 | -21 | 7.7 | 0 | 0 | 0 | 246 | 255 | 300 | 466 | 69 | 77 | 94 | 179 | | | | | | | | | | | | | |
| 83 | Oberon | 598 | 628 | 459 | 57 | 76 | 4 | 6 | 4,337 | -8 | 0 | -4 | 1.9 | 0.7 | 1.9 | 0.2 | -0.3 | 0.6 | 10208 | -8 | 69 | 0.0 | 0 | 0 | 0 | 375 | 368 | 399 | 383 | 87 | 105 | 112 | 127 | | | | | | | | | | | | | |
| 81 | Gwydir | 663 | 704 | 614 | 71 | 88 | 5 | 14 | 11,224 | -15 | -17 | -21 | -3.3 | 2.0 | 3.4 | -4.2 | 0.9 | 2.3 | 13118 | 62 | 99 | 5.7 | 10 | 7 | 3 | 581 | 336 | 315 | | 358 | 100 | 72 | | | | | | | | | | | | | | |
| 85 | Uralla | 470 | 462 | 426 | 90 | 90 | 7 | 8 | 7,383 | -9 | -9 | -9 | 1.6 | 1.3 | 0.2 | 0.7 | 1.4 | 1.8 | | 59 | -1 | 1.1 | 0 | 2 | 11 | 261 | 400 | 350 | 294 | 82 | 165 | 125 | 101 | | | | | | | | | | | | | |
| 95 | Weddin | 213 | 233 | 227 | 90 | 90 | 3 | 11 | 10,092 | -15 | 0 | -11 | 0.7 | -1.6 | -0.6 | -0.1 | -1.9 | -1.0 | | -151 | -27 | | 0 | 0 | 0 | 124 | 133 | 185 | 127 | 27 | 25 | 25 | 25 | | | | | | | | | | | | | |
| 89 | Bogan | 473 | 455 | 443 | | | 7 | 10 | 9,935 | -14 | -14 | -14 | -0.3 | 2.0 | 0.2 | -1.0 | 1.2 | -0.4 | | 133 | 14 | 22.1 | 19 | 20 | 19 | 275 | 281 | 293 | 316 | 186 | 187 | 178 | 181 | | | | | | | | | | | | | |
| 76 | Harden | 558 | 561 | 599 | 80 | 90 | 3 | 12 | 12,004 | -3 | -11 | -21 | -1.9 | 2.3 | 4.2 | -2.0 | 2.2 | 3.9 | | 78 | 125 | 0.1 | 116 | 137 | 139 | 271 | 320 | 285 | 239 | 72 | 75 | 79 | 96 | | | | | | | | | | | | | |
| 88 | Wakool | 567 | 597 | 556 | 77 | - | 15 | 28 | 24,316 | -5 | -6 | -8 | -1.0 | -0.9 | -1.2 | -1.1 | -1.0 | -1.3 | | -123 | -183 | 9.2 | 118 | 55 | 55 | 231 | 257 | 266 | 296 | 60 | 67 | 68 | 69 | | | | | | | | | | | | | |
| 93 | Tumbarumba | 460 | 466 | 478 | 77 | 0 | 6 | 13 | 13,111 | -21 | 0 | -26 | 2.7 | 1.7 | 3.8 | 0.7 | 1.4 | 1.3 | | 79 | 215 | 5.6 | 0 | 112 | 0 | 221 | 237 | 217 | 255 | 78 | 75 | 77 | 82 | | | | | | | | | | | | | |
| 94 | Gundagai | 364 | 371 | 490 | 62 | 74 | 6 | 13 | 14,545 | -1 | 0 | -1 | -1.7 | -1.1 | -1.4 | -1.8 | -1.2 | -1.5 | | -71 | -107 | 6.0 | 0 | 0 | 0 | 266 | 309 | 317 | 403 | 56 | 69 | 77 | 98 | | | | | | | | | | | | | |
| 92 | Carrathool | 151 | 156 | 184 | | 90 | 6 | 10 | 11,217 | 0 | | 11 | -2.0 | | -3.9 | -2.1 | | -3.9 | | | -291 | 14.3 | 0 | 0 | 0 | 194 | 147 | 147 | 269 | 26 | 24 | 24 | 27 | | | | | | | | | | | | | |
| 96 | Warren | 458 | 462 | 569 | 78 | 90 | 3 | 12 | 13,112 | -33 | 0 | -37 | 1.8 | 1.1 | 0.8 | -1.3 | -1.8 | -2.0 | | 10 | -5 | | 25 | 26 | 0 | 290 | 378 | 414 | 412 | 86 | 93 | 100 | 134 | | | | | | | | | | | | | |
| 99 | Coolamon | 576 | 421 | 425 | 80 | 90 | 8 | 11 | 10,283 | -10 | 0 | -10 | 1.6 | 3.0 | 0.6 | 1.0 | 2.4 | 0.1 | | 269 | -18 | 0.0 | 0 | 0 | 0 | 147 | 189 | 197 | 271 | 57 | 65 | 62 | 67 | | | | | | | | | | | | | |
| 102 | Lockhart | 336 | 335 | 406 | 90 | 90 | 6 | 11 | 12,759 | -17 | 0 | -21 | -0.5 | 0.2 | -0.2 | -1.5 | -0.8 | -1.0 | | 5 | -11 | 0.0 | 0 | 0 | 0 | 330 | 274 | 266 | 281 | 30 | 34 | 63 | 24 | | | | | | | | | | | | | |
| 98 | Walcha | 344 | 348 | 402 | | 80 | 7 | 8 | 9,681 | -4 | -6 | -7 | 1.3 | 1.0 | 1.8 | 1.1 | 1.1 | 1.4 | | 62 | 149 | | 6 | 6 | 6 | 254 | 284 | 254 | 211 | 51 | 75 | 60 | 62 | | | | | | | | | | | | | |
| 100 | Balranald | 227 | 233 | 275 | 85 | 90 | 10 | 14 | 15,550 | -8 | 0 | -10 | 0.5 | 0.1 | 0.3 | -0.1 | -0.3 | -0.2 | | 15 | 38 | 8.1 | 0 | 0 | 0 | 172 | 159 | 152 | 120 | 50 | 44 | 43 | 40 | | | | | | | | | | | | | |
| 97 | Bombala | 340 | 352 | 464 | 82 | 2 | 8 | 13 | 15,732 | -10 | -11 | -13 | 1.4 | -0.1 | 0.5 | 0.5 | -0.4 | -0.3 | | -41 | 16 | 2.4 | 8 | 16 | 11 | 168 | 173 | 287 | 297 | 61 | 62 | 120 | 41 | | | | | | | | | | | | | |
| 101 | Murrumbidgee | 217 | 222 | 297 | | | 2 | 5 | 6,706 | -41 | 0 | -41 | 4.6 | 3.0 | 4.6 | 0.2 | -0.9 | 1.3 | | 67 | 106 | 6.9 | 0 | 0 | 0 | 155 | 136 | 188 | 137 | 54 | 59 | 54 | 54 | | | | | | | | | | | | | |
| 90 | Guyra | 516 | 540 | 541 | | 90 | 15 | 15 | 14,642 | 3 | 3 | -3 | 1.3 | 0.6 | 0.9 | 1.5 | 1.1 | 1.1 | | 63 | 99 | 3.0 | 492 | 116 | 102 | 334 | 300 | 362 | 350 | 189 | 107 | 108 | 108 | | | | | | | | | | | | | |
| 104 | Boorowa | 316 | 341 | 611 | | 90 | 2 | 9 | 15,370 | -14 | -20 | -30 | -0.4 | 1.4 | 2.2 | -1.1 | 0.7 | 0.7 | | 32 | 29 | 0.9 | 37 | 37 | 41 | 163 | 170 | 200 | 245 | 21 | 23 | 23 | 106 | | | | | | | | | | | | | |
| 105 | Brewarrina | 313 | 335 | 677 | 81 | 90 | 7 | 11 | 19,127 | -5 | -5 | -6 | -1.1 | -1.1 | -1.1 | -1.1 | -1.2 | -1.1 | 80 | -154 | -204 | 1.3 | 6 | 6 | 6 | 444 | 508 | 523 | 548 | 48 | 108 | 139 | 168 | | | | | | | | | | | | | |
| 106 | Jerilderie | 248 | 247 | 583 | 69 | 90 | 3 | 6 | 14,289 | -27 | 0 | -27 | 3.5 | 3.4 | 2.4 | 0.9 | 1.0 | 0.2 | | 233 | 151 | 4.1 | 12 | 0 | 0 | 311 | 334 | 313 | 363 | 120 | 85 | 80 | 94 | | | | | | | | | | | | | |
| 103 | Central Darling | 97 | 96 | 468 | | | 2 | 2 | 10,146 | -9 | 0 | -9 | -0.3 | -0.5 | 0.6 | -0.6 | -0.7 | 0.4 | | -62 | 10 | 15.6 | 0 | 0 | 0 | 528 | 392 | 428 | 346 | | | | | | | | | | | | | | | | | |
| 107 | Urana | 153 | 158 | 499 | | 90 | 6 | 7 | 20,336 | -6 | -7 | -12 | 0.5 | 0.0 | -0.5 | 0.1 | -0.2 | -0.6 | | -22 | -85 | | 219 | 216 | 215 | 309 | 280 | 320 | 405 | 116 | 111 | 111 | 114 | | | | | | | | | | | | | |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | | | | | | | | 12,382 | | | | -11 | | | | 0.6 | | | | 0.3 | | | | 17 | | | | 2 | | | | | 295 | | | | | 82 | | | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | <i>Revenue/prop</i> | | <i>\$570</i> | | <i>CRC \$/Assessment</i> | | | <i>\$12260</i> | <i>Net D/E</i> | | | <i>-9</i> | | | <i>0.9</i> | | | <i>ERRR</i> | | | <i>0.6</i> | | | <i>Loan Payment per property</i> | | | <i>\$20</i> | | | <i>OMA \$ per property</i> | | | | <i>\$340</i> | | | | <i>Mngmnt \$/prop</i> | | | | <i>\$110</i> | | | |
| <i>Median All LWUs (Statewide basis)</i> | | <i>\$680</i> | | | | | | | | <i>\$12,600</i> | <i>-2</i> | | | | | | <i>1.6</i> | | | | | | <i>1.3</i> | | | <i>\$38</i> | | | <i>\$360</i> | | | | <i>\$128</i> | | | | | | | | | | | | | |
| Totals for all LWUs | | Total Sge Revenue \$500 M | | | Total CRC \$9,600 M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTE: 1. If the reported management cost is <\$20/property or not reported, the previous year's management cost has been adopted and is shown in *italics bold*. In such cases, the OMA cost per property has not been increased to include this adopted management cost.
 2. If the OMA cost is not reported, the previous year's value has been adopted and is shown in *italics bold*.
 3. Where the residential revenue or residential volume is reported to be greater than 90%, a maximum value of 90% has been adopted. This is shown in *italics bold*.

Table 17: Sewerage – environmental and levels of service

| WATER UTILITY | ENVIRONMENTAL | | | | | | | | | | | | | | | | LEVELS OF SERVICE | | | | | | | | | | | |
|--|----------------------------------|-------|-----------------------|-------|----------------|-------|-----------------------|-------|-------|-------|--------------|------------------|---------------------------------------|-----------------------------|---|-----------------------|-------------------|--------|-----------------------|-------|-------|-------------------------------|-----------|-------|-------|-----------|-----|-----|
| | DEC DISCHARGE LICENCE COMPLIANCE | | | | | | | | | | | | Sewage Treated that was Compliant (%) | STWs Compliant at all times | Compliance with Environmental Regulator | Odour Complaints | | | Service Complaints | | | Average Sewerage Interruption | | | | | | |
| | BOD | | | | SS | | | | N | P | Oil & Grease | Faecal Coli-form | | | | (per 1000 properties) | | | (per 1000 properties) | | | (minutes) | | | | | | |
| | Compliance (%) | | 90 %-ile Limit (mg/L) | | Compliance (%) | | 90 %-ile Limit (mg/L) | | | | | | | | | (%) | (%) | (%) | (%) | (61) | | | (62) C 11 | | | (65) C 16 | | |
| 07/08 | 08/09 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | (59a) | (59b) | (59c) | (59d) | 07/08 | 08/09 | 09/10 | (59e) E4 | (59f) E5 | (60) E7 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | |
| Sydney Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hunter Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 1 | 2 | 2 | 1 | - | 2 | 134 | 116 | 161 |
| 2 | Wyong | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 6 of 6 | Yes | 1 | 1 | 1 | 11 | 12 | 12 | 165 | 156 | 150 | |
| 3 | Shoalhaven | 100 | 100 | 100 | 40 | 88 | 88 | 83 | 40 | 100 | 100 | 100 | 100 | 86 | 70 | 83 | 10 of 12 | No | 0 | 1 | 0 | 23 | 7 | 7 | 120 | - | 96 | |
| 5 | MidCoast | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 30 | 99 | 100 | 100 | 100 | 98 | 100 | 99 | 11 of 12 | No | 2 | 1 | 1 | 12 | 2 | 1 | 330 | - | - | |
| 6 | Tweed | 100 | 100 | 100 | 15 | 100 | 99 | 97 | 20 | 97 | 98 | 100 | 98 | 89 | 85 | 93 | 1 of 7 | No | 1 | 0 | 0 | 8 | 4 | 4 | 180 | 180 | 174 | |
| 7 | Port Macquarie-Hastings | 89 | 91 | 90 | 10 | 100 | 99 | 82 | 15 | 100 | 69 | 100 | 100 | 89 | 56 | 58 | 2 of 5 | No | 0 | 0 | 0 | 3 | 6 | 5 | 60 | 60 | 60 | |
| 9 | Wagga Wagga | 100 | 100 | 100 | 20 | 88 | 99 | 99 | 30 | 100 | 71 | 100 | 100 | 88 | 95 | 70 | 3 of 5 | No | 0 | 0 | 0 | 89 | 76 | 68 | 90 | 83 | 47 | |
| 10 | Coffs Harbour | 100 | 100 | 100 | 50 | 100 | 100 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 5 of 5 | Yes | 0 | 0 | 2 | 34 | 27 | 4 | 120 | 120 | 120 | |
| 11 | Albury City | 100 | 100 | 100 | 12 | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 92 | 87 | 86 | 92 | 3 of 4 | No | 0 | 0 | 0 | 47 | 49 | 44 | 133 | 120 | 118 | |
| 13 | Tamworth Regional | 100 | 99 | 99 | 30 | 100 | 100 | 99 | 25 | 100 | 100 | 100 | 100 | 100 | 99 | 99 | 4 of 5 | No | 0 | 0 | 1 | 25 | 25 | 21 | - | - | - | |
| 15 | Eurobodalla | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 5 of 5 | Yes | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | |
| 17 | Queanbeyan | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 0 | 0 | 0 | 27 | 17 | 19 | 60 | 240 | 60 | |
| 19 | Orange | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 25 | 100 | 100 | 100 | 100 | 100 | 45 | 100 | 2 of 2 | Yes | 1 | 1 | 2 | 21 | 25 | 23 | - | - | - | |
| 18 | Dubbo | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 25 | 100 | 100 | 100 | 100 | 70 | 75 | 92 | 0 of 1 | No | 0 | 0 | 1 | 11 | 13 | 10 | 91 | 93 | 89 | |
| 16 | Wingecarribee | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 15 | 97 | 100 | 100 | 100 | 100 | 100 | 97 | 4 of 5 | No | 1 | 1 | 3 | 40 | 22 | 31 | 120 | 120 | 120 | |
| 14 | Clarence Valley | 100 | 90 | 98 | 20 | 89 | 87 | 84 | 30 | 100 | 85 | 100 | 93 | 94 | 83 | 70 | 1 of 8 | No | 2 | 1 | 2 | 15 | 10 | 30 | 120 | 120 | - | |
| 21 | Bathurst Regional | 100 | 100 | 100 | 20 | 88 | 100 | 100 | 25 | 100 | 100 | 100 | 100 | 88 | 100 | 100 | 1 of 1 | Yes | 0 | 0 | 0 | 29 | 27 | 30 | 120 | 120 | 120 | |
| 24 | Ballina | | 100 | 98 | 20 | | 100 | 96 | 30 | 100 | 100 | 100 | 94 | 89 | 93 | 96 | 3 of 4 | No | 0 | 1 | 0 | 10 | 11 | 6 | 120 | 120 | 120 | |
| 22 | Lismore | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | Yes | 0 | 1 | 1 | 33 | 26 | 4 | 60 | 60 | 60 | |
| 23 | Bega Valley | 100 | 100 | 97 | 20 | 100 | 100 | 95 | 30 | 100 | 100 | 100 | 100 | 100 | 97 | 95 | 8 of 10 | No | 2 | 0 | 0 | 4 | 8 | 11 | 120 | 120 | 120 | |
| 27 | Byron | 100 | 97 | 99 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 97 | 90 | 88 | 98 | 4 of 5 | No | 2 | 1 | 2 | 2 | 2 | 2 | 60 | 60 | 60 | |
| 26 | Country Energy | | 100 | 100 | 50 | | 100 | 100 | 50 | 100 | 100 | 100 | 100 | | 100 | 100 | 2 of 2 | Yes | 0 | 1 | 1 | 0 | 1 | 1 | 60 | 60 | - | |
| 20 | Goulburn Mulwaree | | 83 | 100 | 20 | | 58 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 58 | 100 | 2 of 2 | Yes | 0 | 0 | 1 | 89 | 38 | 41 | 90 | 90 | 90 | |
| 25 | Kempsey | 100 | 100 | 100 | 15 | 74 | 82 | 76 | 20 | 100 | 100 | 100 | 90 | 74 | 82 | 76 | 5 of 7 | No | 2 | 0 | 1 | 2 | 1 | 1 | 175 | 146 | 83 | |
| <i>Medians (% of LWUs basis) for >10,000 Properties</i> | | | | | 98 | | | | 84 | | | | 99 | | | | 1 | | | 11 | | | 10,155 | | | | | |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Armidaale Dumaresq | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 0 | 0 | 0 | 1 | 0 | 0 | 136 | 105 | 95 | |
| 31 | Lithgow | | 95 | 100 | 15 | | 100 | 100 | 25 | 100 | 100 | 100 | 75 | | 18 | 75 | 0 of 3 | No | | 1 | - | 0 | 9 | 162 | 60 | - | - | |
| 30A | Hawkesbury | 100 | 100 | 100 | 10 | 100 | 96 | 100 | 15 | 100 | 100 | 100 | 100 | 91 | 84 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 20 | 19 | 20 | 60 | 60 | 60 | |
| 30 | Griffith | 100 | 100 | 100 | 30 | 61 | 76 | 39 | 30 | 100 | 100 | 100 | 100 | 61 | 76 | 39 | 1 of 3 | No | 2 | 0 | 0 | 53 | 23 | 21 | 120 | 120 | 60 | |
| 33 | Richmond Valley | 100 | 100 | 100 | 20 | 86 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 86 | 95 | 100 | 4 of 4 | Yes | 1 | 0 | 1 | 4 | 0 | 1 | 120 | 120 | 120 | |
| 32 | Mid-Western Regional | 100 | 100 | 81 | 20 | 100 | 100 | 100 | 50 | 74 | 43 | 100 | 100 | 53 | 22 | 43 | 3 of 4 | No | 0 | 0 | 0 | 24 | 17 | 51 | 120 | 120 | 120 | |
| 34 | Nambucca | 100 | 99 | 87 | 20 | 100 | 99 | 69 | 30 | 76 | 100 | 100 | 100 | 96 | 99 | 45 | 0 of 4 | No | 0 | 0 | 1 | 8 | 13 | 8 | 45 | 45 | 60 | |
| 35 | Singleton | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 0 | 0 | 1 | 9 | 13 | 17 | 180 | 180 | 180 | |
| 37 | Inverell | 100 | 100 | 96 | 20 | 100 | 100 | 92 | 30 | 96 | 96 | 96 | 96 | 99 | 100 | 92 | 1 of 4 | No | 0 | - | 0 | 65 | 43 | 43 | 60 | 50 | 45 | |
| 41 | Muswellbrook | 65 | 74 | 84 | 20 | 78 | 55 | 38 | 30 | 100 | 100 | 100 | 100 | 62 | 55 | 38 | 0 of 2 | No | 4 | 7 | 4 | 67 | 53 | 64 | 91 | 101 | 107 | |
| 36 | Parkes | 100 | 100 | 85 | 30 | 56 | 57 | 47 | 50 | 100 | 100 | 100 | 100 | 56 | 57 | 47 | 2 of 3 | No | 1 | 0 | 0 | 17 | 14 | 14 | 50 | 50 | 50 | |
| 42 | Corowa | | 100 | 100 | NL | | 100 | 100 | NL | 100 | 100 | 100 | 100 | 23 | 93 | 100 | 3 of 3 | Yes | 4 | 1 | 1 | 31 | 23 | 32 | 120 | 120 | 120 | |

Table 17: Sewerage – environmental and levels of service (continued)

| WATER UTILITY | ENVIRONMENTAL | | | | | | | | | | | | | LEVELS OF SERVICE | | | | | | | | | | | | | |
|---|----------------------------------|-------------------------------|-------------------------------|------------------------|-------------------------------|-----|-------------------|-------------------|------------------------------|----------------------------------|-------|-------|--|--|---|---|--------|-------|---|-------|-------|--|-------|-------|-------|-----|-----|
| | DEC DISCHARGE LICENCE COMPLIANCE | | | | | | | | | | | | Sewage Treated that was Compliant (%) (59e) E4 | STWs Compliant at all times (59f) E5 | Compliance with Environmental Regulator (60) E7 | Odour Complaints (per 1000 properties) (61) | | | Service Complaints (per 1000 properties) (62) C 11 | | | Average Sewerage Interruption (minutes) (65) C 16 | | | | | |
| | BOD | | | SS | | | N (%) (59a) | P (%) (59b) | Oil & Grease (%) (59c) | Faecal Coli-form (%) (59d) | 07/08 | 08/09 | | | | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | |
| | Compliance (%) (55) | 90 %-ile Limit (mg/L) (56) | 90 %-ile Limit (mg/L) (58) | Compliance (%) (57) | 90 %-ile Limit (mg/L) (58) | | | | | | | | | | | | | | | | | | | | | | |
| 38 | Moree Plains | 100 | 100 | 97 | 20 | 100 | 100 | 97 | 30 | 97 | 97 | 97 | 97 | 5 | 100 | 100 | 3 of 4 | No | 7 | 0 | 0 | 51 | 38 | 34 | 130 | 250 | 310 |
| 44 | Gunnedah | 100 | 100 | 100 | 20 | 60 | 75 | 60 | 30 | 100 | 100 | 100 | 100 | 60 | 75 | 60 | 1 of 2 | No | 0 | 0 | - | 25 | 32 | 29 | 60 | 60 | 60 |
| 46 | Narrabri | 55 | 76 | 100 | 20 | 35 | 37 | 100 | NL | 100 | 100 | 100 | 100 | 35 | 37 | 100 | 3 of 3 | Yes | 1 | 0 | 0 | 37 | 33 | 33 | 120 | 19 | 60 |
| 43 | Tumut | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 100 | 98 | 100 | 100 | 5 of 5 | Yes | 0 | 0 | 0 | 47 | 41 | 32 | 112 | 90 | 90 |
| 49 | Young | 100 | - | - | 20 | 100 | - | - | 25 | 100 | 100 | - | 100 | 100 | - | - | 0 of 1 | No | 0 | 1 | - | 29 | 21 | - | 120 | 100 | - |
| 39 | Cowra | 100 | 100 | - | 20 | 75 | 75 | - | 30 | - | - | - | - | 40 | 45 | - | 1 of 2 | No | 0 | 0 | - | 25 | 0 | 39 | 240 | 240 | 240 |
| 45 | Upper Hunter | 100 | 100 | 100 | 20 | 100 | 60 | 100 | 30 | 100 | 100 | 96 | 100 | 100 | 60 | 100 | 4 of 4 | No | 0 | 0 | 0 | 22 | 10 | 9 | 120 | 131 | 120 |
| 52 | Snowy River | 100 | 54 | 92 | 10 | 100 | 66 | 92 | 15 | 100 | 100 | 100 | 100 | 80 | 54 | 92 | 3 of 4 | No | 0 | - | 0 | 20 | 14 | 20 | 120 | - | 60 |
| 51 | Forbes | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 50 | 83 | 100 | 100 | 100 | 100 | 83 | - | 0 of 1 | No | 0 | 0 | 0 | 8 | 18 | 14 | 105 | 103 | 96 |
| 50 | Cooma-Monaro | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 85 | 100 | 100 | 85 | 1 of 2 | No | 0 | 1 | 1 | 59 | 82 | 42 | 120 | 120 | 120 |
| 53 | Berrigan | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | - | - | 4 of 4 | Yes | 0 | 0 | 0 | 35 | 57 | 39 | 120 | 120 | 120 |
| 48 | Leeton | 100 | 100 | 100 | 70 | 84 | 100 | 100 | 70 | 100 | 100 | 100 | 98 | 82 | 98 | 98 | 2 of 3 | No | 0 | 0 | 0 | 0 | 2 | 3 | 120 | 120 | 120 |
| 54 | Deniliquin | 100 | 100 | - | 20 | 83 | 100 | - | 30 | - | - | - | - | 83 | 100 | - | 0 of 1 | No | 2 | 3 | - | 42 | 54 | - | 120 | 120 | - |
| <i>Medians (% of LWUs basis) for 3,000 to 10,000 Properties</i> | | 100 | | | 100 | | | 100 | | | 92 | | | 0 | | | 30 | | | 107 | | | | | | | |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | Bellingen | 89 | 100 | 97 | 10 | 82 | 100 | 95 | 15 | 100 | 100 | 100 | 100 | 78 | 100 | 91 | 1 of 3 | No | 2 | 1 | 1 | 10 | 15 | 7 | 60 | 60 | 60 |
| 60 | Glen Innes Severn | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 34 | 11 | 37 | 120 | 40 | 40 |
| 58 | Cootamundra | 100 | 100 | 100 | 30 | 85 | 100 | 75 | 40 | 100 | 100 | 100 | 100 | 85 | 100 | 75 | 0 of 1 | No | 0 | 0 | 0 | 55 | 71 | 67 | 120 | 120 | 120 |
| 57 | Wellington | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 2 | 1 | 0 | 5 | 13 | 8 | 30 | 50 | 55 |
| 91 | Cabonne | 100 | 100 | 100 | 30 | 100 | 93 | 100 | 30 | 100 | 100 | 100 | 100 | 82 | 93 | 100 | 3 of 3 | Yes | 0 | 0 | 0 | 10 | 7 | 14 | 480 | 360 | 300 |
| 80 | Greater Hume | 100 | 100 | 100 | 20 | 68 | 70 | 100 | 30 | 100 | 100 | 100 | 100 | 68 | 66 | 100 | 6 of 6 | Yes | 0 | 0 | 0 | 24 | 16 | 0 | 180 | 100 | 100 |
| 59 | Lachlan | 59 | 60 | 61 | 20 | 35 | 35 | 20 | 30 | 61 | 61 | 61 | 61 | 35 | 35 | 20 | 0 of 3 | No | 0 | 1 | - | 24 | 32 | 25 | 55 | 50 | 55 |
| 65 | Murray | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 1 | 0 | 0 | 2 | 0 | 2 | 80 | 60 | 50 |
| 62 | Narromine | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 17 | 7 | 10 | 120 | 90 | 90 |
| 56 | Yass Valley | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 30 | 32 | 34 | 180 | 180 | 150 |
| 61 | Liverpool Plains | 92 | - | - | 20 | 22 | - | - | 30 | - | - | - | - | 22 | - | - | 0 of 2 | No | 0 | - | - | 0 | 21 | - | 60 | - | - |
| 55 | Warrumbungle | 94 | 96 | 20 | 20 | 94 | 96 | 25 | 92 | 100 | 100 | 100 | 100 | 84 | 92 | 3 of 4 | No | 0 | 0 | 0 | 89 | 48 | 30 | 120 | 120 | 120 | |
| 69 | Temora | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 40 | 100 | 100 | 80 | 100 | 100 | 75 | 80 | 0 of 1 | No | 0 | 0 | 0 | 58 | 48 | 40 | 60 | 60 | 60 |
| 71 | Palerang | 100 | 100 | 84 | 10 | 87 | 100 | 100 | 15 | 100 | 100 | 100 | 100 | 87 | 100 | 84 | 2 of 3 | No | 0 | 0 | 1 | 23 | 34 | 34 | 60 | 60 | 60 |
| 72 | Bland | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | Yes | 0 | 0 | 0 | 0 | 66 | 54 | - | - | - |
| 63 | Narrandera | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 80 | 80 | 100 | 1 of 1 | Yes | 0 | 0 | 0 | 73 | 103 | 0 | 90 | 90 | - |
| 67 | Cobar | 100 | 100 | 100 | 19 | 100 | 100 | 100 | 86 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 0 | 3 | 3 | 120 | 120 | 120 |
| 74 | Wentworth | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 45 | 100 | 100 | 100 | 100 | 100 | 38 | 100 | 5 of 5 | Yes | 12 | 7 | 5 | 12 | 24 | 16 | 0 | 60 | 60 |
| 75 | Coonamble | 100 | 100 | 100 | 20 | 87 | 86 | 85 | 50 | 100 | 100 | 100 | 88 | 91 | 78 | 85 | 1 of 2 | No | 0 | 0 | 0 | 23 | 0 | 16 | 60 | 60 | 60 |
| 70 | Kyogle | 100 | 86 | 100 | 20 | 100 | 98 | 86 | 30 | 100 | 100 | 100 | 100 | 98 | 84 | 86 | 1 of 3 | No | 1 | 1 | 2 | 19 | 17 | 22 | 60 | 60 | 60 |
| 77 | June | 100 | 100 | 100 | 30 | 100 | 100 | 75 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 75 | 0 of 1 | No | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 30 | 30 |
| 78 | Blayney | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 25 | 100 | 70 | 100 | 100 | 100 | 100 | 70 | 0 of 1 | No | 0 | 0 | 0 | 23 | 13 | 14 | 60 | 60 | 60 |
| 79 | Walgett | - | - | 100 | NL | - | - | 100 | NL | 100 | 100 | 100 | 100 | - | - | 100 | 3 of 3 | Yes | - | - | - | 0 | - | 4 | - | - | 2 |
| 68 | Tenterfield | - | - | 100 | 40 | - | - | 100 | 45 | 100 | 100 | 100 | 100 | - | - | 100 | 1 of 2 | Yes | 0 | - | 1 | 64 | - | 34 | 90 | - | 120 |
| <i>Medians (% of LWUs basis) for 1,500 to 3,000 Properties</i> | | 84 | | | 75 | | | 100 | | | 0 | | | 22 | | | 1,670 | | | | | | | | | | |

Table 17: Sewerage – environmental and levels of service (continued)

| WATER UTILITY | ENVIRONMENTAL | | | | | | | | | | | | LEVELS OF SERVICE | | | | | | | | | | | | | | |
|--|----------------------------------|--|----------------|----------------------|-------|--|-------|-------|-------|--|--------------|---------------------------------------|-----------------------------|---|------------------|-----------------------|---|--------------------|-----------------------|-------|-------------------------------|-----------|-------|-------|-------|-----|-----|
| | DEC DISCHARGE LICENCE COMPLIANCE | | | | | | | | | | | Sewage Treated that was Compliant (%) | STWs Compliant at all times | Compliance with Environmental Regulator | Odour Complaints | | | Service Complaints | | | Average Sewerage Interruption | | | | | | |
| | BOD | | | | SS | | | | N | P | Oil & Grease | | | | Faecal Coliform | (per 1000 properties) | | | (per 1000 properties) | | | (minutes) | | | | | |
| | Compliance (%) | 90 %ile Limit (mg/L) | Compliance (%) | 90 %ile Limit (mg/L) | (%) | (%) | (%) | (%) | | | | (%) | (%) | (%) | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| (55) | (56) | (57) | (58) | (59a) | (59b) | (59c) | (59d) | (59e) | (59f) | (60) | (61) | (62) | (63) | (64) | (65) | (66) | (67) | (68) | (69) | (70) | (71) | (72) | (73) | | | | |
| 07/08 | 08/09 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | 07/08 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 09/10 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | 07/08 | 08/09 | 09/10 | | |
| LWUs with 200 - 1,500 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | Gilgandra | 100 | 100 | 75 | 20 | 100 | 100 | 75 | 50 | 75 | 75 | 75 | 100 | 100 | 100 | 75 | 0 of 1 | No | 3 | 2 | 2 | 47 | 50 | 61 | 60 | 60 | 60 |
| 73 | Upper Lachlan | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 28 | 28 | 28 | 60 | 40 | 40 |
| 82 | Gloucester | 100 | 100 | 100 | 30 | 100 | 100 | 83 | 40 | 100 | 100 | 100 | 100 | 100 | 100 | 83 | 0 of 1 | No | 0 | 0 | 0 | 16 | 12 | 7 | 120 | 120 | 120 |
| 87 | Bourke | 25 | 25 | 33 | 15 | 33 | 25 | 29 | 20 | 80 | 80 | 80 | 100 | 25 | 25 | 29 | 0 of 1 | No | 5 | 3 | 2 | 134 | 148 | 102 | 120 | 120 | 120 |
| 86 | Hay | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 40 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 0 | 0 | 0 | 39 | 39 | 39 | 0 | - | 300 |
| 83 | Oberon | | 100 | 100 | 20 | | 50 | 100 | 25 | 83 | 100 | 100 | 100 | | 42 | 83 | 0 of 1 | No | 0 | 0 | 0 | 6 | 7 | 0 | 120 | 120 | - |
| 81 | Gwydir | 100 | 100 | 100 | 20 | 46 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 46 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - |
| 85 | Uralla | 100 | - | 100 | 15 | 100 | - | 100 | 20 | 100 | 100 | 100 | 100 | 100 | - | 83 | 0 of 1 | No | 0 | 0 | 2 | 23 | 13 | 18 | 120 | 120 | 180 |
| 95 | Weddin | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 0 | 0 | 0 | 29 | 20 | 72 | 120 | 120 | 120 |
| 89 | Bogan | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 3 | 8 | 4 | 27 | 27 | 40 | 180 | 180 | 180 |
| 76 | Harden | | 66 | 100 | 20 | | 100 | 45 | 30 | 100 | 100 | 100 | 100 | | 66 | 45 | 0 of 1 | No | 0 | 0 | 0 | 26 | 30 | 18 | 50 | 60 | 60 |
| 88 | Wakool | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4 of 4 | Yes | 1 | 0 | - | 1 | 0 | - | 0 | - | - |
| 93 | Tumbarumba | | 100 | 100 | NL | | 100 | 100 | NL | 100 | 100 | 100 | 100 | | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 1 | 0 | 16 | 3 | | 60 | 60 |
| 94 | Gundagai | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 0 | 1 | 1 | 6 | 11 | 13 | 30 | 30 | 30 |
| 92 | Carrathool | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | Yes | 0 | 0 | 0 | 55 | 54 | 45 | 120 | 120 | 120 |
| 96 | Warren | 100 | 100 | 100 | 45 | 69 | 100 | 100 | 65 | 100 | 100 | 100 | 100 | 75 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 30 | 34 | 31 | 120 | 120 | 90 |
| 99 | Coolamon | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 100 | 90 | 100 | 100 | 2 of 2 | Yes | | 0 | 0 | 0 | 8 | 5 | | - | 120 |
| 102 | Lockhart | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 3 of 3 | Yes | 0 | 2 | 0 | 24 | 10 | 28 | | 35 | 90 |
| 98 | Walcha | 100 | 100 | 58 | 20 | 75 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 75 | 100 | 58 | 0 of 1 | No | 0 | 0 | 0 | 10 | 6 | 10 | 70 | 70 | 70 |
| 100 | Balranald | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 11 | 13 | 8 | 60 | 60 | 60 |
| 97 | Bombala | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 5 | 8 | 0 | 20 | 65 | 45 | 120 | 95 | 120 |
| 101 | Murrumbidgee | 25 | - | - | 10 | 25 | - | - | 15 | - | - | - | - | 25 | - | - | 0 of 2 | No | 0 | - | - | 18 | - | - | 120 | - | - |
| 90 | Guyra | 100 | 100 | 100 | 15 | 100 | 100 | 100 | 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 0 | 0 | 0 | 13 | 10 | 11 | 120 | 120 | 120 |
| 104 | Boorowa | 100 | 100 | 100 | 20 | 55 | 65 | 65 | 30 | 100 | 100 | 100 | 100 | 55 | 65 | 65 | 0 of 1 | No | 3 | 3 | 4 | 3 | 7 | 5 | 60 | 60 | 60 |
| 105 | Brewarrina | | - | - | 20 | | - | - | 30 | | | | | | | | 2 of 3 | No | 0 | 0 | 0 | 21 | 10 | 44 | 60 | 60 | 60 |
| 106 | Jerilderie | 25 | 100 | 50 | 20 | 25 | 100 | 25 | 30 | 100 | 100 | 75 | 100 | 25 | 100 | 25 | 0 of 1 | No | 0 | 12 | 0 | 5 | 19 | 0 | 300 | 300 | 300 |
| 103 | Central Darling | 100 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | Yes | 15 | 0 | - | 196 | 227 | - | 110 | 60 | - |
| 107 | Urana | 39 | 100 | 100 | NL | 100 | 100 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 of 2 | Yes | 6 | 6 | 0 | 19 | 19 | 0 | 60 | 60 | - |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | 100 | | | | 100 | | | | 100 | | | | 0 | | | 18 | | | 105 | | | | | | | |
| <i>Median All LWUs (% of LWUs basis)</i> | | BOD 100.0 % | | | | SS 100.0 % | | | | Odour 0.0 | | | Service 16.4 | | | Duration 93 | | | | | | | | | | | |
| <i>Median All LWUs (Statewide basis)</i> | | 100 % | | | | 100 % | | | | 0.6 | | | 10 | | | 118 | | | | | | | | | | | |
| <i>Totals for all LWUs</i> | | 84 LWUs complied with BOD licence (84% of LWUs complied) | | | | 74 LWUs complied with SS licence (74% of LWUs complied) | | | | 47 LWUs fully complied with regulator | | | | 293 STWs were reported to be in use by LWUs | | | 208 of these STWs were compliant at all times | | | | | | | | | | |
| | | 98% of sample days complied (4020 sample days) | | | | 94% of sample days complied with SS licence (4020 sample days) | | | | 16 LWUs had no discharge licence and 6 LWUs did not report BOD or SS | | | | | | | | | | | | | | | | | |

- Notes:
- Where there is no limit (NL) for BOD or SS licences, compliance is deemed to be 100%.
 - Where an LWU has 100 percentile licence limits rather than 90 percentile licence limits, the 100 percentile limits are shown.
 - An LWU is deemed to comply with its BOD or SS licence if it achieves >=90% compliance with the 90 percentile limit.

Table 18: Sewerage – benchmarking cost data (operation, maintenance and management)

| WATER UTILITY | OPERATION & MAINTENANCE (O&M) COST* | | | | | | | | | | MANAGEMENT COST (A)* | | | OMA* | O&M COST COMPONENTS for TYPE of ASSET | | | | | | | | | | | | | | | |
|--|--------------------------------------|--------------------------|-----------|--------|-----------|----------------------|--------------------------------|------------------|------------------|-------|----------------------|---------------------------|-----------------------|--------------------------------------|---------------------------------------|--------------|----------|----------------|----------------|----------------------------------|-------------|----------|----------------|----------------|------------------------|----------|----------------|------------------|-----------------------|------|
| | Total O&M Cost (\$/prop) (66a) | Components (1) - Process | | | | | Components (2) - Type of Asset | | | | Components | | | Total OMA Cost (\$/prop) (76b) | Components | | Pumping | | | | Sewer Main | | | | Treatment | | | | | |
| | | Maintenance | Operation | Energy | Chemicals | Effluent & Biosolids | Mains | Pumping Stations | Sewage Treatment | Other | Admin | Engineering & Supervision | Total Management Cost | | Treatment | Reticulation | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | Energy Cost | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | O&M Cost | Operation Cost | Maintenance Cost | Chemical | |
| | | (66) | (67) | (68) | (69) | (69a) | (70) | (71) | (72) | (73) | (74) | (75) | (\$/prop) (76a) | | (c/kL) (76) | (77) | (78) | (c/kL) (79) | (80) | (\$'000/pumping station) (81) | (82) | (83) | (c/kL) (85) | (86) | (\$'000/100km) (87) | (88) | (89) | (90) | (\$/property) (91) | (92) |
| 2009/10 | 2009/10 | | | | 2009/10 | | | | 2009/10 | | | 2009/10 | 2009/10 | | 2009/10 | | | | 2009/10 | | | | 2009/10 | | | | | | | |
| LWUs with > 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford | 185 | 78 | 85 | 21 | 1 | 40 | 59 | 72 | 14 | 123 | 5 | 128 | 68 | 313 | 72 | 99 | 31 | 22 | 2 | 16 | 4 | 21 | 207 | 109 | 98 | 379 | 45 | 16 | 1 | |
| 2 Wyong | 200 | 96 | 104 | | | 35 | 69 | 93 | 4 | 127 | | 127 | 54 | 327 | 93 | 104 | 29 | 27 | 13 | 15 | | 15 | 173 | 39 | 134 | 393 | 61 | 31 | | |
| 3 Shoalhaven | 277 | 52 | 182 | 24 | 3 | 52 | 80 | 110 | 36 | 118 | 32 | 150 | 88 | 427 | 110 | 131 | 46 | 15 | 8 | 4 | 2 | 30 | 184 | 172 | 12 | 639 | 60 | 18 | 3 | |
| 5 MidCoast | 333 | 86 | 158 | 40 | 8 | 27 | 54 | 144 | 108 | 65 | 19 | 83 | 43 | 416 | 144 | 81 | 28 | 9 | 2 | 4 | 2 | 14 | 93 | 14 | 79 | 734 | 45 | 25 | 8 | |
| 6 Tweed | 289 | 112 | 96 | 43 | 12 | 38 | 81 | 153 | 17 | 115 | 47 | 163 | 54 | 451 | 153 | 119 | 27 | 13 | 4 | 6 | 3 | 13 | 160 | 0 | 160 | 511 | 58 | 31 | 12 | |
| 7 Port Macquarie-Hastings | 269 | 117 | 66 | 44 | 3 | 24 | 78 | 131 | 36 | 65 | 33 | 98 | 33 | 367 | 131 | 102 | 26 | 13 | 2 | 9 | 3 | 8 | 101 | 20 | 80 | 440 | 14 | 46 | 3 | |
| 9 Wagga Wagga (NO WS) | 207 | 21 | 173 | 7 | | 37 | 24 | 110 | 35 | 44 | | 44 | 21 | 251 | 110 | 61 | 12 | 17 | 10 | 2 | 4 | 18 | 162 | 85 | 77 | 535 | 104 | | | |
| 10 Coffs Harbour | 320 | 87 | 118 | 52 | 13 | 35 | 99 | 175 | 12 | 109 | 56 | 164 | 58 | 485 | 175 | 134 | 35 | 19 | 9 | 7 | 3 | 12 | 120 | 51 | 69 | 607 | 47 | 29 | 13 | |
| 11 Albury City | 244 | 82 | 86 | 38 | 6 | 35 | 40 | 115 | 54 | 134 | 8 | 142 | 66 | 386 | 115 | 75 | 18 | 12 | 1 | 8 | 4 | 16 | 148 | | 148 | 531 | 30 | 21 | 6 | |
| 13 Tamworth Regional | 238 | 98 | 92 | 16 | 13 | 83 | 26 | 129 | | 9 | 87 | 95 | 37 | 333 | 129 | 109 | 10 | 22 | 5 | 14 | 3 | 32 | 298 | 89 | 209 | 497 | 61 | 23 | 13 | |
| 15 Eurobodalla | 280 | 52 | 183 | 35 | 11 | 59 | 98 | 120 | 4 | 165 | | 165 | 80 | 445 | 120 | 156 | 48 | 14 | 8 | 3 | 2 | 29 | 204 | 157 | 47 | 585 | 77 | 14 | 11 | |
| 17 Queanbeyan | 259 | 41 | 138 | 26 | 43 | 104 | 30 | 118 | 7 | 107 | | 107 | 47 | 366 | 118 | 134 | 13 | 33 | 16 | 8 | 9 | 46 | 512 | 383 | 129 | 536 | 41 | 4 | 43 | |
| 19 Orange | 164 | 20 | 98 | 26 | 19 | 20 | 24 | 121 | | 79 | 56 | 136 | 62 | 300 | 121 | 44 | 11 | 15 | 11 | 3 | 2 | 9 | 78 | 33 | 45 | 558 | 74 | 4 | 19 | |
| 18 Dubbo | 189 | 49 | 100 | 30 | 10 | 30 | 29 | 91 | 39 | 116 | 42 | 157 | 84 | 346 | 91 | 59 | 15 | 41 | 15 | 13 | 13 | 16 | 118 | 18 | 100 | 482 | 47 | 13 | 10 | |
| 16 Wingecarribee | 224 | 87 | 83 | 29 | 17 | 56 | 46 | 122 | | 129 | 14 | 143 | 66 | 367 | 122 | 102 | 21 | 10 | 6 | 2 | 2 | 26 | 158 | | 158 | 562 | 56 | 19 | 17 | |
| 14 Clarence Valley | 212 | 70 | 90 | 27 | 13 | 39 | 46 | 115 | 12 | 99 | 49 | 149 | 71 | 360 | 115 | 85 | 22 | 7 | 2 | 3 | 2 | 19 | 169 | 10 | 159 | 548 | 63 | 16 | 13 | |
| 21 Bathurst Regional | 194 | 86 | 70 | 27 | 0 | 46 | 15 | 133 | | 98 | 57 | 154 | 56 | 348 | 133 | 61 | 5 | 14 | 3 | 9 | 2 | 17 | 185 | | 185 | 669 | 67 | 31 | 0 | |
| 24 Ballina | 379 | 181 | 142 | 49 | 7 | 63 | 169 | 131 | 17 | 128 | 65 | 194 | 63 | 573 | 131 | 232 | 55 | 21 | 6 | 12 | 3 | 21 | 258 | | 258 | 428 | 83 | 14 | | |
| 22 Lismore | 291 | 144 | 82 | 9 | 36 | 61 | 49 | 175 | 6 | 62 | 39 | 101 | 23 | 392 | 175 | 109 | 11 | 18 | 1 | 13 | 3 | 14 | 216 | 21 | 195 | 404 | 73 | 48 | 36 | |
| 23 Bega Valley | 432 | 106 | 301 | 12 | 13 | 88 | 83 | 261 | | 143 | 85 | 228 | 135 | 660 | 261 | 171 | 49 | 1 | 0 | 0 | 0 | 52 | 268 | 131 | 137 | 1544 | 227 | 22 | | |
| 27 Byron | 426 | 119 | 186 | 56 | 36 | 33 | 97 | 252 | 45 | 138 | 20 | 158 | 49 | 584 | 252 | 130 | 30 | 12 | 4 | 5 | 3 | 10 | 139 | 55 | 84 | 776 | 103 | 54 | 36 | |
| 26 Country Energy | 184 | 139 | 29 | 8 | 3 | 69 | 24 | 91 | | 51 | 18 | 69 | 49 | 253 | 91 | 93 | 17 | 22 | | 18 | 4 | 49 | 269 | | 269 | 653 | 29 | 50 | 3 | |
| 20 Goulburn Mulwaree | 270 | 64 | 106 | 33 | | 72 | 24 | 173 | | 93 | 19 | 112 | 68 | 382 | 173 | 97 | 15 | 9 | 7 | | 2 | 44 | 254 | 27 | 226 | 1055 | 78 | | | |
| 25 Kempsey | 290 | 128 | 78 | 41 | 14 | 45 | 69 | 173 | 3 | 55 | 89 | 143 | 54 | 433 | 173 | 114 | 26 | 8 | | 6 | 2 | 17 | 153 | | 153 | 651 | 77 | 33 | 14 | |
| Medians (% of LWUs basis) | | 86 | 99 | 29 | 12 | 17 | 43 | 51 | 126 | 17 | 108 | 40 | 142 | 57 | 375 | 126 | 103 | 24 | 14 | 5 | 7 | 3 | 18 | 171 | 45 | 135 | 553 | 61 | 23 | 12 |
| LWUs with 3,001 - 10,000 Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 Armidale Dumaresq | 155 | 128 | | 10 | 17 | 81 | 2 | 62 | 11 | 66 | 69 | 135 | 52 | 290 | 62 | 83 | 1 | 16 | | 11 | 5 | 31 | 292 | | 292 | 239 | | 36 | | |
| 31 Lithgow | 347 | 283 | | 33 | 31 | 56 | 97 | 194 | | 72 | | 72 | | 419 | 194 | 153 | | 22 | | 16 | 6 | | 115 | | 115 | 809 | | 156 | | |
| 30A Hawkesbury (NO WS) | 243 | 72 | 138 | | | 43 | 42 | 158 | 1 | 106 | 86 | | 60 | 243 | 158 | 84 | 13 | 13 | | 13 | | 13 | 188 | 65 | 124 | 500 | 123 | 3 | | |
| 30 Griffith | 295 | 41 | 208 | 22 | 13 | 77 | 103 | 99 | 15 | 105 | 46 | 151 | 53 | 446 | 99 | 181 | 37 | 27 | 22 | 2 | 3 | 27 | 258 | 219 | 39 | 351 | 44 | 20 | 13 | |
| 33 Richmond Valley | 232 | 68 | 107 | 27 | 7 | 32 | 59 | 130 | 10 | 139 | 84 | 223 | 79 | 455 | 130 | 91 | 21 | 12 | 4 | 6 | 2 | 11 | 112 | 89 | 22 | 458 | 62 | 22 | 7 | |
| 32 Mid-Western Regional | 215 | 136 | 70 | 9 | 0 | 69 | 28 | 118 | | 102 | 25 | 126 | 58 | 341 | 118 | 97 | 13 | 16 | 4 | 9 | 2 | 31 | 220 | | 220 | 537 | 62 | 50 | | |
| 34 Nambucca (Groundwater) | 266 | 149 | 66 | 44 | 7 | 19 | 67 | 115 | 66 | 99 | 25 | 125 | 43 | 391 | 115 | 85 | 23 | 7 | | 5 | 2 | 6 | 64 | | 64 | 392 | | 86 | | |
| 35 Singleton | 210 | 116 | 73 | 20 | 1 | 125 | 18 | 66 | 1 | 35 | 71 | 106 | 48 | 316 | 66 | 143 | 8 | 6 | | 6 | 0 | 57 | 492 | 129 | 363 | 302 | 39 | 6 | 1 | |
| 37 Inverell | 157 | 45 | 90 | 22 | | 45 | 27 | 85 | | 61 | 51 | 112 | 68 | 269 | 85 | 73 | 17 | 6 | 5 | | 1 | 27 | 167 | | 167 | 512 | 69 | | | |
| 41 Muswellbrook | 302 | 217 | 67 | 18 | | 55 | 67 | 168 | 11 | 72 | 75 | 146 | 62 | 448 | 168 | 123 | 29 | 29 | 2 | 22 | 4 | 23 | 194 | 20 | 174 | 711 | 48 | 112 | | |

Table 18: Sewerage – benchmarking cost data (operation, maintenance and management) (continued)

| WATER UTILITY | OPERATION & MAINTENANCE (O&M) COST* | | | | | | | | | | MANAGEMENT COST (A)* | | | | OMA* Total OMA Cost (\$/prop) (76b) 2009/10 | O&M COST COMPONENTS for TYPE of ASSET | | | | | | | | | | | | | | |
|---|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|---------------------------|---|---------------------------------------|---------------------------|---------------------------|---------------------------|---|---|---|---------------------------|---------------------------|-----------------------------------|---------------------------|----------------------------|----------------------------------|----------------------------------|----------------------------------|
| | Total O&M Cost (\$/prop) (66a) 2009/10 | Components (1) - Process | | | | | Components (2) - Type of Asset | | | | Components | | | | | Components | | Pumping | | | | | Sewer Main | | | | Treatment | | | |
| | | Maintenance | Operation | Energy | Chemicals | Effluent & Biosolids | Mains | Pumping Stations | Sewage Treatment | Other | Admin | Engineering & Supervision | Total Management Cost | | | Treatment | Reticulation | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | Energy Cost | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | O&M Cost | Operation Cost | Maintenance Cost | Chemical |
| | | (\$/property) (66) 2009/10 | (\$/property) (67) 2009/10 | (\$/property) (68) 2009/10 | (\$/property) (69) 2009/10 | (\$/property) (69a) 2009/10 | (\$/property) (70) 2009/10 | (\$/property) (71) 2009/10 | (\$/property) (72) 2009/10 | (\$/property) (73) 2009/10 | (\$/property) (74) 2009/10 | (\$/property) (75) 2009/10 | (\$/prop) (76a) 2009/10 | (c/kL) (76) 2009/10 | | (\$/prop) (77) 2009/10 | (c/kL) (78) 2009/10 | (c/kL) (79) 2009/10 | (c/kL) (80) 2009/10 | (\$'000/pumping station) (81) 2009/10 | (\$'000/pumping station) (82) 2009/10 | (\$'000/pumping station) (83) 2009/10 | (c/kL) (85) 2009/10 | (c/kL) (86) 2009/10 | (\$'000/100km) (87) 2009/10 | (c/kL) (88) 2009/10 | (\$/ML) (89) 2009/10 | (\$/property) (90) 2009/10 | (\$/property) (91) 2009/10 | (\$/property) (92) 2009/10 |
| 36 Parkes | 172 | 51 | 113 | 1 | 3 | 3 | 66 | 106 | | 31 | 6 | 36 | 20 | 208 | 106 | 66 | | | | | | 37 | 327 | 82 | 245 | 1058 | 97 | 2 | 3 | |
| 42 Corowa | 203 | 117 | 41 | 27 | 2 | 16 | 39 | 52 | 111 | 1 | 42 | 129 | 171 | 110 | 375 | 111 | 91 | 33 | 4 | 3 | 1 | 25 | 132 | | 132 | 732 | 41 | 39 | 2 | |
| 38 Moree Plains | 393 | 150 | 184 | 57 | | 2 | 69 | 76 | 96 | 152 | 49 | 7 | 56 | 18 | 449 | 96 | 145 | 25 | 10 | 3 | 5 | 22 | 292 | | 292 | 311 | 9 | 44 | | |
| 44 Gunnedah | 102 | 88 | | 13 | 1 | | 35 | 17 | 49 | 1 | 15 | 61 | 76 | 50 | 177 | 49 | 52 | 11 | 34 | | 16 | 23 | 146 | | 146 | 244 | | 45 | 1 | |
| 46 Narrabri | 294 | 102 | 168 | 24 | | | 100 | 61 | 133 | | 8 | 18 | 26 | 12 | 320 | 133 | 161 | 27 | 10 | 5 | 3 | 44 | 384 | 146 | 237 | 574 | 103 | 25 | | |
| 43 Tumut | 306 | 215 | 11 | 37 | 40 | 3 | 40 | 34 | 215 | 16 | 50 | 25 | 75 | 38 | 381 | 215 | 75 | 18 | 9 | 1 | 6 | 21 | 125 | | 125 | 1098 | 8 | 138 | 40 | |
| 49 Young | 78 | 28 | 41 | 6 | | 4 | 21 | 4 | 37 | 16 | 52 | 16 | 67 | | 145 | 37 | 24 | | | | | | 88 | | 88 | 197 | 25 | 4 | | |
| 39 Cowra | 120 | 75 | 32 | 12 | | | 43 | 22 | 56 | | 220 | 21 | 241 | 123 | 361 | 56 | 64 | 11 | 9 | 0 | 6 | 22 | 151 | | 151 | 284 | 32 | 17 | | |
| 45 Upper Hunter | 261 | 131 | 97 | 22 | 2 | 9 | 84 | 51 | 117 | 9 | 73 | 78 | 151 | 66 | 412 | 117 | 135 | 22 | 16 | 5 | 6 | 37 | 303 | 23 | 281 | 305 | 65 | 34 | 2 | |
| 52 Snowy River | 329 | 72 | 207 | 38 | 11 | | 41 | 100 | 119 | 68 | 108 | 19 | 126 | | 455 | 119 | 141 | | 19 | 9 | 6 | 4 | 199 | 97 | 101 | 26875 | 72 | 18 | 11 | |
| 51 Forbes | 284 | 69 | 149 | 39 | 27 | | 35 | 46 | 157 | 46 | 43 | 15 | 57 | 27 | 342 | 157 | 81 | 22 | 8 | 1 | 4 | 17 | 122 | 16 | 107 | 751 | 91 | 16 | 27 | |
| 50 Cooma-Monaro | 334 | 110 | 143 | 37 | 14 | 30 | 89 | 48 | 197 | 1 | 98 | 70 | 168 | 86 | 502 | 197 | 136 | 24 | 23 | 8 | 13 | 2 | 45 | 133 | 41 | 93 | 1006 | 100 | 21 | 14 |
| 53 Berrigan | 215 | | 215 | | | | 34 | 72 | 106 | 3 | 37 | 55 | 92 | 70 | 307 | 106 | 106 | 55 | 5 | 5 | | 26 | 104 | 104 | | 810 | 106 | | | |
| 48 Leeton | 320 | 107 | 148 | 46 | 18 | | 57 | 62 | | | 57 | 62 | 120 | 43 | 439 | 184 | 120 | | | | 5 | 2 | | | 202 | | 137 | | 18 | |
| 54 Deniliquin | 218 | 191 | | 27 | | | 59 | 35 | 122 | 2 | 234 | 25 | 259 | | 477 | 122 | 94 | | | | | | 266 | | 266 | 693 | | 109 | | |
| <i>Medians (% of LWUs basis) for 3,000 to 10,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 110 | 102 | 24 | 7 | 10 | | 55 | 49 | 115 | 11 | 63 | 46 | 122 | 53 | 378 | 116 | 96 | 22 | 11 | 5 | 6 | 2 | 26 | 167 | 89 | 151 | 537 | 62 | 34 | 7 |
| <i>LWUs with 1,501 - 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 Bellingen | 331 | 116 | 116 | 40 | 30 | 28 | 49 | 71 | 206 | 5 | 114 | 61 | 175 | 74 | 506 | 206 | 119 | 30 | 8 | 3 | 3 | 2 | 21 | 163 | 37 | 126 | 871 | 78 | 46 | 30 |
| 60 Glen Innes Severn | 121 | 26 | 69 | 27 | | | 16 | 6 | 94 | 5 | 65 | 51 | 116 | 53 | 238 | 94 | 22 | 3 | 3 | | 2 | 1 | 8 | 47 | | 47 | 429 | 69 | | |
| 58 Coolamundra | 168 | 90 | 8 | 25 | 5 | 39 | 41 | 16 | 108 | 4 | 17 | 43 | 60 | 40 | 227 | 108 | 56 | 10 | 11 | 1 | 8 | 3 | 27 | 170 | | 170 | 721 | 8 | 34 | 5 |
| 57 Wellington | 175 | 56 | 67 | 36 | 17 | | 26 | 38 | 111 | | 75 | 82 | 157 | 72 | 332 | 111 | 64 | 17 | 8 | | 6 | 2 | 12 | 90 | | 90 | 508 | 67 | 2 | 17 |
| 91 Cabonne | 176 | 53 | 102 | 21 | | | 14 | 56 | 105 | | 13 | 110 | 184 | 155 | 360 | 105 | 70 | 48 | 13 | 10 | 1 | 2 | 12 | 61 | 7 | 54 | 890 | 57 | 36 | |
| 80 Greater Hume | 202 | 157 | 15 | 23 | 7 | | 15 | 35 | 140 | 13 | 29 | 72 | 101 | 67 | 303 | 140 | 50 | 23 | 5 | | 4 | 1 | 10 | 51 | 51 | | 925 | | 116 | 7 |
| 59 Lachlan | 204 | 38 | 141 | 25 | | | 21 | 48 | 99 | 35 | 42 | 41 | 83 | 37 | 287 | 99 | 69 | 22 | 5 | 4 | 1 | 1 | 10 | 61 | | 61 | 431 | 71 | 8 | |
| 65 Murray | 161 | 98 | 44 | 19 | | | 33 | 101 | 27 | | 54 | 54 | 108 | 49 | 269 | 27 | 134 | 46 | 7 | 2 | 3 | 1 | 15 | 101 | 7 | 94 | 116 | 6 | 19 | |
| 62 Narromine | 100 | 5 | 95 | | | | 9 | 36 | 55 | | 102 | 95 | 197 | 68 | 297 | 55 | 45 | 12 | 5 | 5 | | 3 | 37 | 16 | 20 | 188 | 55 | | | |
| 56 Yass Valley | 177 | 6 | 130 | 24 | 2 | 15 | 10 | 42 | 112 | 13 | 137 | 93 | 230 | 121 | 407 | 112 | 52 | 22 | 9 | 7 | 1 | 2 | 5 | 32 | 32 | | 592 | 76 | 3 | 2 |
| 61 Liverpool Plains | 106 | | 106 | | | | 12 | 14 | 78 | 1 | 143 | | 143 | | 249 | 78 | 27 | | | | | | | 41 | 41 | | 419 | 78 | | |
| 55 Warrumbungle | 239 | 81 | 133 | 19 | 5 | 1 | 52 | 40 | 141 | 5 | 40 | 15 | 55 | 30 | 294 | 141 | 93 | 22 | 11 | 4 | 3 | 4 | 29 | 165 | 32 | 133 | 778 | 104 | 26 | 5 |
| 69 Temora (NO WS) | 171 | 26 | 55 | 15 | | 76 | 55 | 4 | 112 | | 48 | | 48 | 82 | 219 | 112 | 59 | 6 | 2 | | 2 | | 93 | 247 | 247 | | 1975 | | 22 | |
| 71 Palerang | 251 | 58 | 160 | 24 | 9 | | 29 | 50 | 143 | 29 | 87 | 58 | 145 | 94 | 396 | 143 | 78 | 32 | 7 | 3 | 2 | 1 | 19 | 115 | | 115 | 926 | 106 | 12 | 9 |
| 72 Bland (NO WS) | 243 | 3 | 205 | 35 | | | 40 | 30 | 173 | | 49 | | 49 | 34 | 292 | 173 | 71 | 21 | 6 | 5 | | 0 | 28 | 154 | 154 | | 1074 | 137 | 3 | |
| 63 Narrandera | 237 | 120 | 96 | 21 | | | 74 | 45 | 116 | 2 | 136 | | 136 | | 373 | 116 | 119 | | | | | | | 347 | | 347 | 311 | 96 | | |
| 67 Cobar | 114 | 45 | 20 | 14 | | 34 | | 59 | 55 | | 7 | 7 | 15 | 10 | 129 | 55 | 59 | 38 | 20 | | 16 | 5 | | | | | 358 | 20 | | |
| 74 Wentworth | 194 | 49 | 62 | 27 | | 56 | 46 | 61 | 66 | 21 | 41 | 15 | 56 | 5 | 251 | 66 | 107 | 5 | 4 | 1 | 2 | 2 | 4 | 94 | 74 | 21 | 220 | | 8 | |
| 75 Coonamble | 247 | 162 | 62 | 23 | | | 70 | 72 | 105 | | 27 | 26 | 53 | 24 | 300 | 105 | 142 | 32 | 9 | 2 | 5 | 1 | 31 | 213 | | 213 | 465 | 43 | 51 | |
| 70 Kyogle | 270 | 29 | 187 | 25 | 29 | | 27 | 43 | 200 | | 67 | 37 | 105 | 46 | 375 | 200 | 70 | 19 | 8 | 5 | 0 | 2 | 12 | 74 | | 74 | 874 | 158 | | 29 |
| 77 Junee (NO WS) | 217 | 164 | | 29 | | 24 | 43 | | 174 | | 46 | 11 | 57 | 33 | 275 | 174 | 43 | | | | | | 25 | 74 | | 74 | 1015 | | 122 | |
| 78 Blayney (NO WS) | 184 | | 159 | 21 | | 4 | 15 | 24 | 143 | 2 | 151 | | 151 | 105 | 335 | 143 | 39 | 17 | 7 | 5 | | 1 | 10 | 37 | 37 | | 993 | 123 | | |
| 79 Walgett | 203 | 118 | 85 | | | | 70 | 47 | 70 | 15 | 63 | 14 | 77 | 20 | 280 | 70 | 118 | 12 | 8 | 4 | 5 | | 18 | 235 | | 235 | 180 | 50 | 20 | |
| 68 Tenterfield | 358 | | 266 | 47 | 23 | 23 | 61 | 23 | 273 | | 129 | 23 | 153 | | 510 | 273 | 85 | | 13 | 12 | | 1 | | 154 | 154 | | 1378 | 183 | | 23 |
| <i>Medians (% of LWUs basis) for 1,500 to 3,000 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 56 | 96 | 24 | 9 | 26 | | 33 | 42 | 112 | 5 | 64 | 43 | 106 | 49 | 295 | 112 | 70 | 21 | 8 | 4 | 3 | 2 | 14 | 94 | 37 | 92 | 657 | 74 | 21 | 9 |

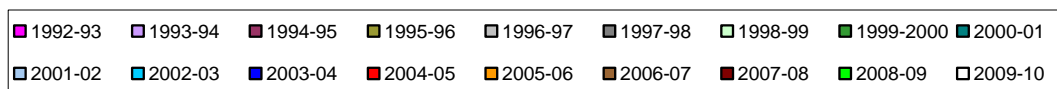
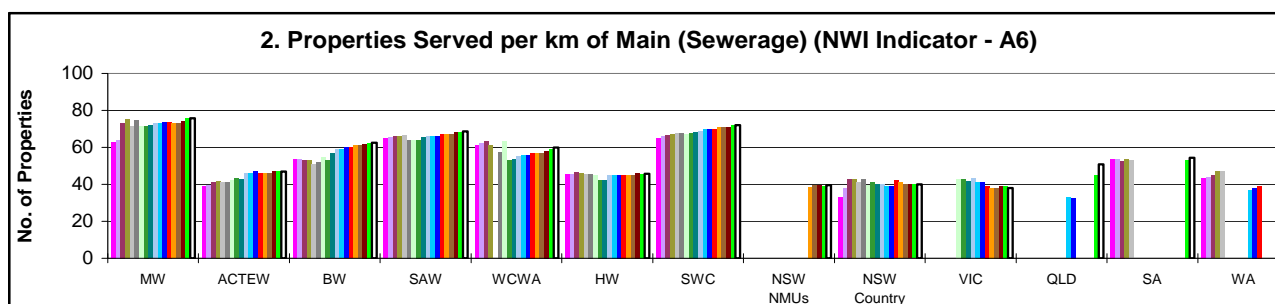
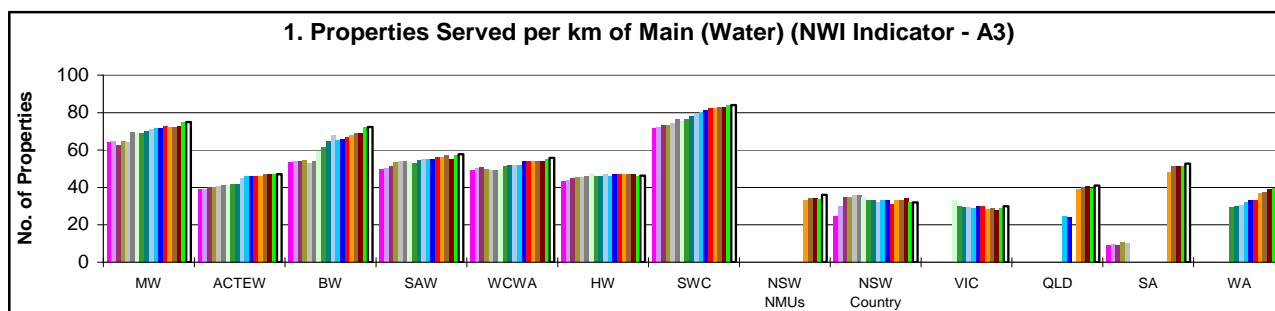
Table 18: Sewerage – benchmarking cost data (operation, maintenance and management) (continued)

| WATER UTILITY | OPERATION & MAINTENANCE (O&M) COST* | | | | | | | | | | MANAGEMENT COST (A)* | | | | OMA* | O&M COST COMPONENTS for TYPE of ASSET | | | | | | | | | | | | | | | |
|--|--------------------------------------|--------------------------|-----------|--------|-----------|----------------------|--------------------------------|------------------|------------------|-------|----------------------|---------------------------|-----------------------|----------------|------|---------------------------------------|-----------|--------------|----------------|----------|----------------------------------|------------------|-------------|----------------|----------|------------------------|------------------|----------|----------------|-----------------------|----------|
| | Total O&M Cost (\$/prop) (66a) | Components (1) - Process | | | | | Components (2) - Type of Asset | | | | Components | | | | | Components | | Pumping | | | | | Sewer Main | | | | Treatment | | | | |
| | | Maintenance | Operation | Energy | Chemicals | Effluent & Biosolids | Mains | Pumping Stations | Sewage Treatment | Other | Admin | Engineering & Supervision | Total Management Cost | | | Total OMA Cost | Treatment | Reticulation | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | Energy Cost | O&M Cost | O&M Cost | Operation Cost | Maintenance Cost | O&M Cost | Operation Cost | Maintenance Cost | Chemical |
| | | (66) | (67) | (68) | (69) | (69a) | (70) | (71) | (72) | (73) | (74) | (75) | (\$/prop) (76a) | (c/kL) (76) | | (76b) | (77) | (78) | (c/kL) (79) | (80) | (\$'000/pumping station) (81) | (82) | (83) | (c/kL) (85) | (86) | (\$'000/100km) (87) | (88) | (89) | (90) | (\$/property) (91) | (92) |
| <i>LWUs with 200 - 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 Gilgandra | 206 | 116 | 76 | 13 | | 45 | 63 | 73 | 25 | 39 | 4 | 44 | 21 | 249 | 73 | 108 | 30 | 7 | 1 | 4 | 1 | 21 | 169 | 19 | 150 | 345 | 57 | 16 | | | |
| 73 Upper Lachlan | 215 | 37 | 132 | 22 | 11 | 12 | 19 | 41 | 152 | 3 | 56 | 48 | 104 | 61 | 318 | 152 | 60 | 24 | 8 | 5 | 1 | 3 | 11 | 64 | 50 | 14 | 935 | 90 | 30 | 11 | |
| 82 Gloucester | 230 | 118 | 78 | 24 | 10 | | 65 | 44 | 121 | | 34 | 23 | 57 | 36 | 287 | 121 | 109 | 28 | 12 | 4 | 6 | 2 | 41 | 196 | | 196 | 769 | 64 | 31 | | |
| 87 Bourke | 235 | 103 | 101 | 30 | 1 | | 50 | 135 | 49 | | 23 | 28 | 51 | 33 | 286 | 49 | 186 | 87 | 21 | 8 | 8 | 5 | 32 | 185 | | 185 | 313 | 47 | 1 | | |
| 86 Hay | 287 | 4 | 256 | 27 | | | 115 | 49 | 122 | 1 | 167 | 12 | 179 | 79 | 466 | 122 | 164 | 22 | 8 | 6 | | 2 | 51 | 397 | 397 | | 563 | 102 | 4 | | |
| 83 Oberon | 256 | 53 | 168 | 25 | 10 | | 25 | 26 | 205 | | 26 | 101 | 127 | 74 | 383 | 205 | 51 | 15 | 12 | 8 | 1 | 3 | 14 | 89 | | 89 | 1167 | 150 | 27 | 10 | |
| 81 Gwydir | 243 | 57 | 155 | 24 | 3 | 4 | 24 | 41 | 176 | 3 | 69 | 3 | 72 | 26 | 315 | 176 | 65 | 15 | 6 | 3 | 2 | 1 | 8 | 66 | 15 | 51 | 633 | 128 | 22 | 3 | |
| 85 Uralla | 193 | 77 | | 38 | 77 | | 34 | 18 | 141 | | 44 | 57 | 101 | 79 | 294 | 141 | 52 | 14 | 3 | | 2 | 1 | 26 | 123 | | 123 | 1093 | | 31 | | |
| 95 Weddin (NO WS) | 101 | 5 | 91 | 6 | | | 23 | | 78 | | 8 | 18 | 25 | 15 | 127 | 78 | 23 | | | | | 14 | 77 | 77 | | 473 | 67 | 5 | | | |
| 89 Bogan | 134 | 41 | 79 | 15 | | | 16 | 80 | 27 | 12 | 181 | | 181 | 30 | 316 | 27 | 96 | 13 | 21 | 14 | 4 | 3 | 3 | 80 | | 80 | 45 | 14 | 10 | | |
| 76 Harden | 143 | 38 | 82 | 14 | 9 | | 36 | | 107 | | 52 | 43 | 96 | 18 | 239 | 107 | 36 | | | | | 7 | 89 | | 89 | 196 | 82 | 2 | | | |
| 88 Wakool | 227 | 45 | 136 | 47 | | | 16 | 77 | 115 | 19 | 34 | 35 | 69 | | 296 | 115 | 93 | | | | | | 36 | 15 | 21 | 375 | 72 | 13 | | | |
| 93 Tumbarumba | 173 | 115 | 53 | 5 | | | 50 | 3 | 120 | | 31 | 51 | 82 | 27 | 255 | 120 | 53 | 1 | 1 | | 1 | 17 | 104 | 104 | | 375 | 3 | 112 | | | |
| 94 Gundagai | 305 | 115 | 131 | 24 | 12 | 24 | 32 | 90 | 181 | 3 | 98 | | 98 | 63 | 403 | 181 | 121 | 58 | 14 | 2 | 10 | 1 | 21 | 33 | | 33 | 1171 | 115 | 16 | 12 | |
| 92 Carrathool | 242 | 192 | 11 | 39 | | | 39 | 94 | 89 | 20 | 22 | 5 | 27 | 21 | 269 | 89 | 133 | 72 | 7 | | 5 | 2 | 30 | 150 | | 150 | 676 | | 71 | | |
| 96 Warren | 278 | 165 | 95 | 18 | | | 70 | 106 | 102 | | 70 | 64 | 134 | 60 | 412 | 102 | 176 | 48 | 11 | 1 | 8 | 2 | 31 | 335 | 112 | 224 | 458 | 65 | 36 | | |
| 99 Coolamon (NO WS) | 204 | 88 | 79 | 23 | 14 | | 62 | 35 | 107 | | 27 | 39 | 67 | 67 | 271 | 107 | 97 | 36 | 4 | | 3 | 1 | 62 | 139 | | 139 | 1082 | 79 | | | |
| 102 Lockhart (NO WS) | 257 | 199 | | 35 | 23 | | 33 | 41 | 183 | | 24 | | 24 | 11 | 281 | 183 | 74 | 19 | 6 | | 6 | 15 | | | | 863 | | 125 | | | |
| 98 Walcha | 149 | 14 | 127 | 7 | 1 | | 21 | 21 | 107 | | 39 | 23 | 62 | 30 | 211 | 107 | 42 | 10 | 18 | | 12 | 6 | 10 | 60 | 60 | | 522 | 106 | | 1 | |
| 100 Balranald | 80 | 42 | 19 | 15 | 4 | | 28 | 48 | 4 | | 40 | | 40 | 17 | 120 | 4 | 77 | 20 | 4 | | 3 | 1 | 12 | 63 | 42 | 21 | 15 | | 4 | | |
| 97 Bombala | 256 | 165 | 91 | | | | 18 | 45 | 193 | | 41 | | 41 | 18 | 297 | 193 | 63 | 20 | 7 | 3 | 4 | | 8 | 40 | | 40 | 880 | 70 | 123 | | |
| 101 Murrumbidgee | 83 | 50 | | 21 | 12 | | 9 | 35 | 39 | | | | 54 | 54 | 137 | 39 | 44 | | | | | | | | | | 337 | | 19 | 12 | |
| 90 Guyra | 241 | | 106 | 45 | 36 | 54 | 29 | 8 | 204 | | 40 | 68 | 108 | 100 | 350 | 204 | 37 | 7 | 4 | | | 4 | 27 | 52 | 52 | | 1885 | 77 | | 36 | |
| 104 Boorowa | 140 | 52 | 75 | 13 | | | 34 | 21 | 84 | | 100 | 5 | 106 | 67 | 245 | 84 | 56 | 14 | 6 | | 5 | 1 | 22 | 63 | | 63 | 534 | 75 | | | |
| 105 Brewarrina | 380 | 125 | 212 | 34 | 8 | | 69 | 135 | 176 | | 91 | 77 | 168 | 44 | 548 | 176 | 204 | 35 | 8 | 4 | 2 | 2 | 18 | 213 | | 213 | 458 | 146 | 20 | 8 | |
| 106 Jerilderie | 269 | 231 | 5 | 33 | | | 42 | 61 | 160 | 5 | 59 | 35 | 94 | 59 | 363 | 160 | 104 | 38 | 5 | | 4 | 1 | 26 | 150 | | 150 | 1000 | | 139 | | |
| 103 Central Darling | 346 | 322 | | 24 | | | 317 | 24 | 5 | | | | | | 346 | 5 | 341 | | | | | | | 500 | | 500 | 10 | | 5 | | |
| 107 Urana (NO WS) | 291 | 253 | 25 | 13 | | | 16 | 202 | 73 | | 25 | 89 | 114 | 40 | 405 | 73 | 218 | 71 | | | | | 6 | 33 | | 33 | 256 | 6 | 66 | | |
| <i>Medians (% of LWUs basis) for 200 to 1,500 Properties</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 88 | 91 | 24 | 10 | 13 | 33 | 44 | 111 | 5 | 40 | 37 | 82 | 36 | 295 | 111 | 85 | 22 | 7 | 4 | 4 | 2 | 18 | 89 | 52 | 89 | 528 | 75 | 22 | 10 | |

* Operating cost is the OMA cost (operation, maintenance & administration (Col 76b)) which comprises the O & M Cost (operation & maintenance cost (Cols 66 to 69a or Cols 70 to 73)) PLUS Management Costs (Col 76a) which is made up of the Administration cost (Col 74) plus Engineering and Supervision cost (Col 75).

Appendix A: National performance comparisons 1992-93 to 2009-10

Performance comparisons – utility characteristics



Metropolitan Water Utilities

| | |
|-------|---|
| MW | Melbourne Water Consolidated (see note 1) |
| ACTEW | ACT Electricity and Water |
| BW | Brisbane Water |
| SAW | SA Water Corporation (Adelaide) |
| WCWA | WA Water Corporation (Perth) |
| HW | Hunter Water Corporation |
| SWC | Sydney Water Corporation |

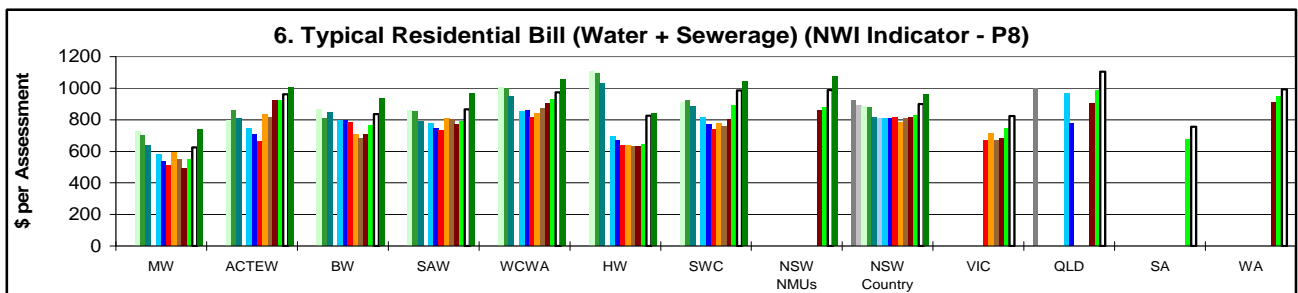
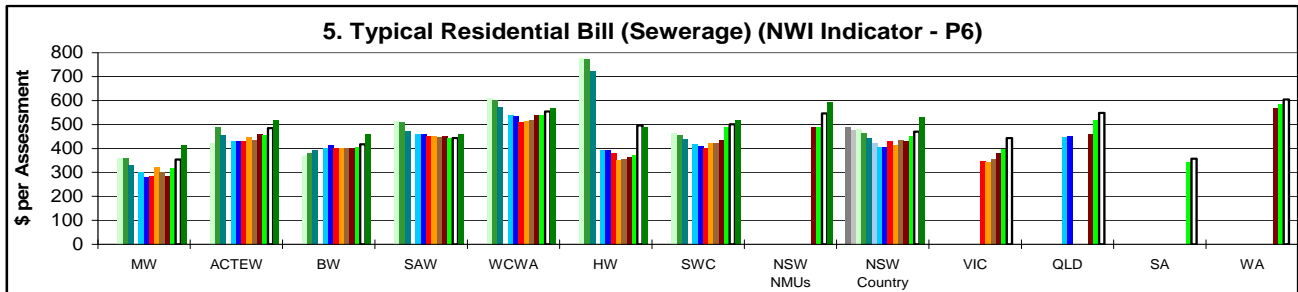
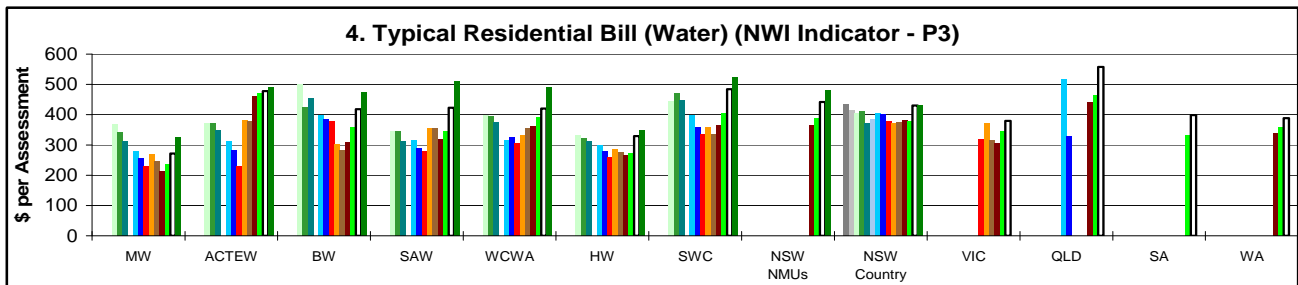
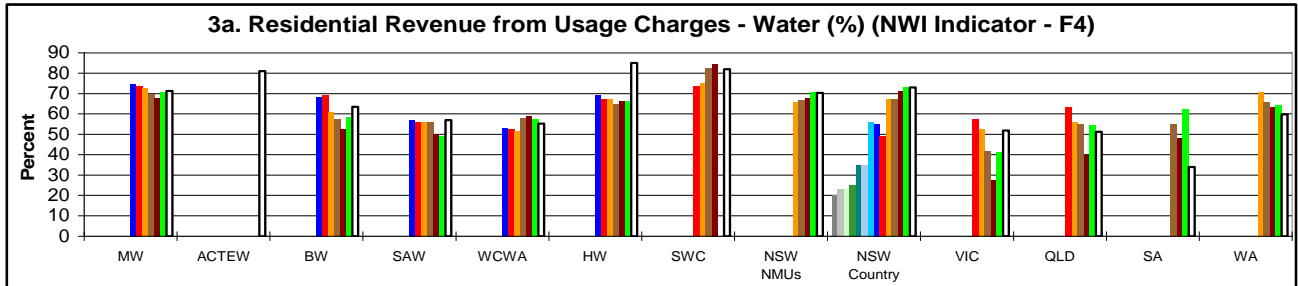
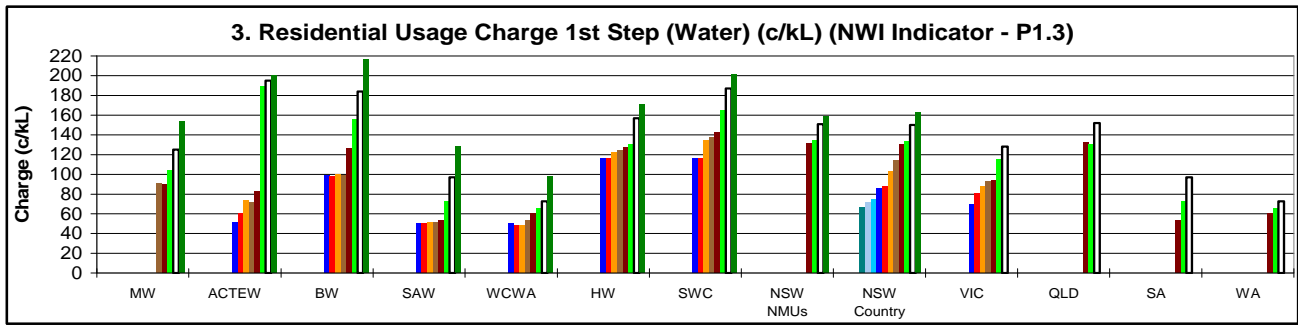
Country Water Utilities

| | |
|-------------|--|
| NSW NMUs | Median of NSW non-metropolitan LWUs with > 10,000 connected properties |
| NSW Country | Statewide median for all NSW non-metropolitan LWUs |
| VIC | VIC Country (see note 3) |
| QLD | QLD Country (see note 5) |
| SA | SA Country (see note 4) |
| WA | WA Country (see note 6) |

NOTES:

- Melbourne Water was disaggregated into 4 constituent utilities in 1994. Melbourne Water Consolidated results for 1994-95 to 2009-10 are either aggregated results of the constituent utilities or consolidated results reported in the *National Performance Report 2009/10*, *WSAA Facts* (note 2) or reported in *Urban Water Review* (note 3).
- Metropolitan Utilities - *National Performance Report 2009-10* used to obtain results from 2001-02 to 2009-10. *WSAA Facts 2005* and *WSAA Facts 1999* (published by the Water Services Association of Australia) used to obtain results from 1994-95 to 1999-00.
- Victorian Country - *Urban Water Review 1998* and *2004-2005*, (published by the Victorian Water Industry Association), used to obtain results for Victoria Country from 1996-97 to 2004-05. Results from 2005-06 to 2009-10 obtained from median of Victorian utilities (excluding Melbourne Water and its constituents) published in the *2009-10 National Performance Report*.
- SA Country - *Government Trading Enterprises Performance Indicators 1992-93 to 1996-97 and 1990-91 to 1994-95*, (published by Steering Committee on National Performance Monitoring of Government Trading Enterprises), used to obtain results for 1990-91 to 1996-97. Results from 2005-06 to 2009-10 obtained from median of SA NMUs (Whyalla and Mt Gambier) published in the *National Performance Report 2009-10*. **The results shown from 2005-06 do not report the overall performance of SA country utilities.**
- QLD Country - *Urban Water Service Providers Queensland Report 2003-2004*, (published by Queensland Department of Natural Resources and Mines), used to obtain results from 2002-03 and 2003-04. These results are for 18 large and medium utilities and exclude Brisbane City Council. Results from 2005-06 to 2009-10 obtained from median of QLD NMUs (Cairns, Logan, Ipswich, Mackay, Townsville) published in the *National Performance Report 2009-10*. **The results shown from 2002-03 report a maximum of 5 of the 72 Queensland country utilities**
- WA Country - *Government Trading Enterprises Performance Indicators 1992-93 to 1996-97 and 1990-91 to 1994-95*, (published by Steering Committee on National Performance Monitoring of Government Trading Enterprises), used to obtain results for 1990-91 to 1996-97. Results from 1999-2005 obtained from *Water Performance Information on 32 Major WA Towns 1999-2003* and *2001-2005* prepared by the Western Australia Economic Regulation Authority. The results are for regional towns and do not include Perth. Results from 2005-06 to 2009-10 obtained from median of WA NMUs (Albany, Bunbury, Busselton, Geraldton, Kalgoorlie-Boulder, Mandurah) published in the *National Performance Report 2009-10*. **The results shown from 1999 do not report the overall performance of WA country utilities.**
- Except for Graphs 3 to 6 which are in 2010-11 dollars, financial data is presented in 2009-10 dollars.

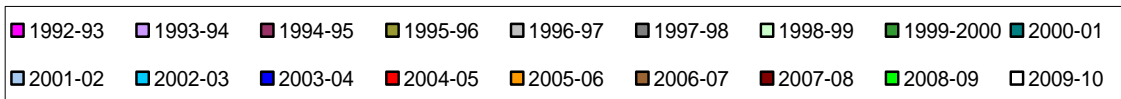
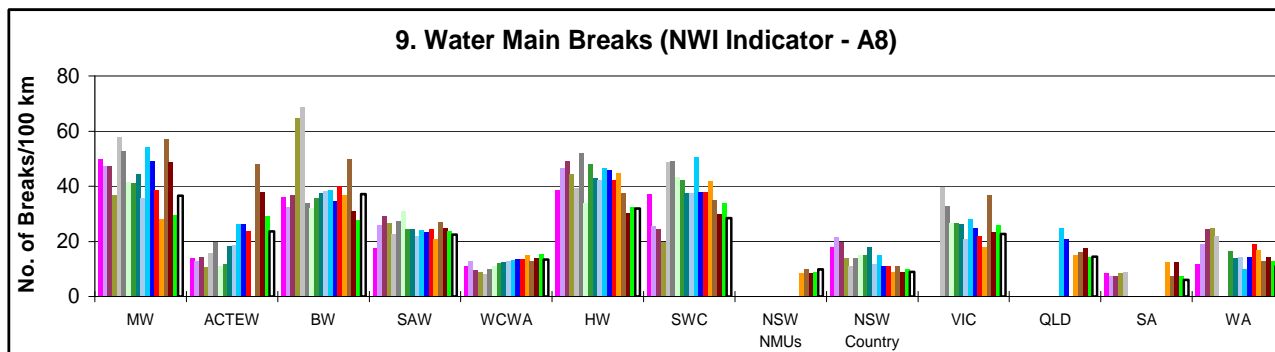
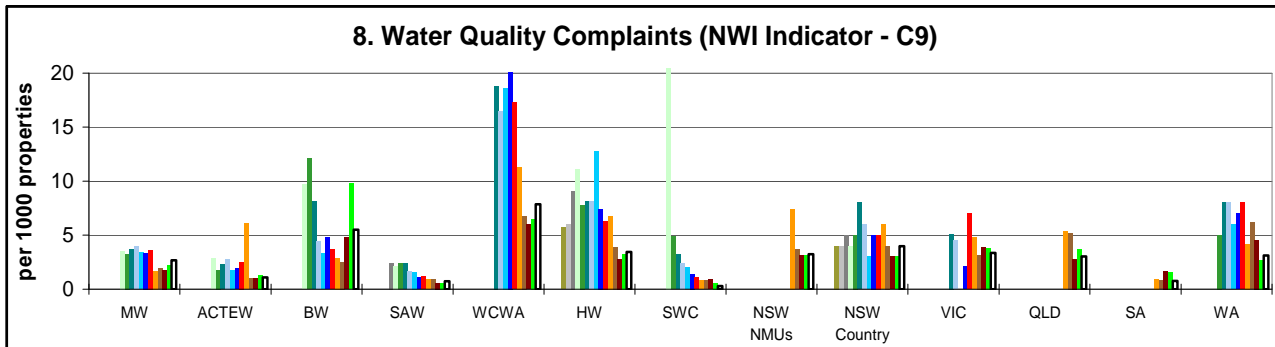
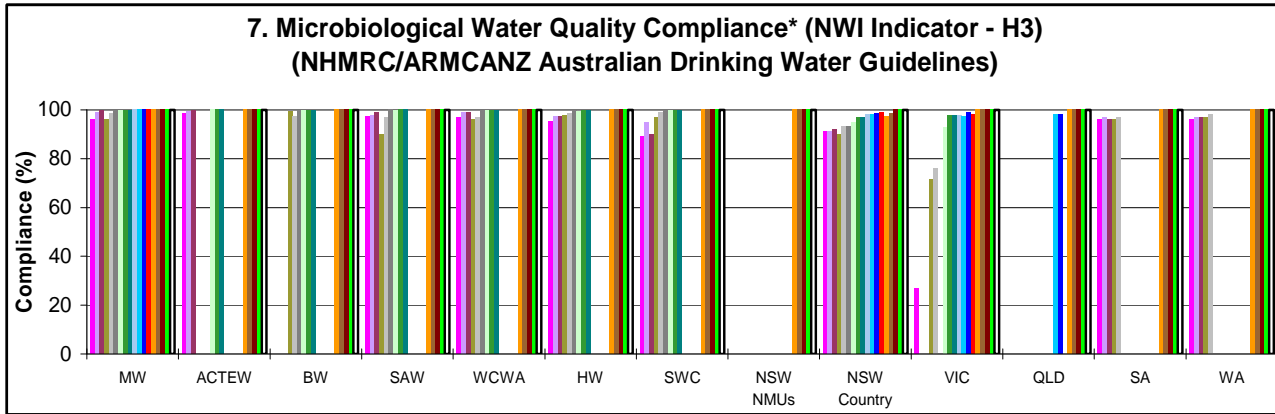
Performance comparisons – social (bills)



| | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|
| 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-2000 | 2000-01 | 2001-02 |
| 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | |

- NOTES**
- The Typical Residential Bill (TRB) is the annual bill paid by a residential customer using the utility's average annual residential water supplied.
 - The TRB is the principal indicator of the overall cost of a water supply or sewerage system.
 - The 2010-11 Usage Charge and TRB for the capital city utilities have been determined from data published on each utility's website.
 - As the 2009-10 value for Indicator F4 was not reported by ACTEW and Hunter Water, it has been conservatively estimated in graph 3a from the utility's reported TRB and fixed charge for 2008-09: $(TRB - Fixed Charge) / TRB \times 100$.

Performance comparisons – social (water)



*** Microbiological Water Quality Compliance**

1991 to 1998 results are generally on the basis of the *1987 NHMRC/AWRC Drinking Water Quality Guidelines*.

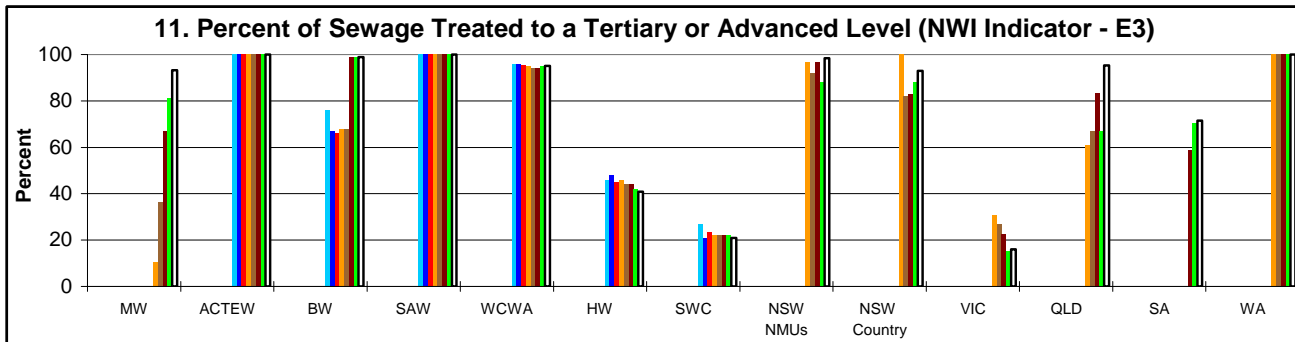
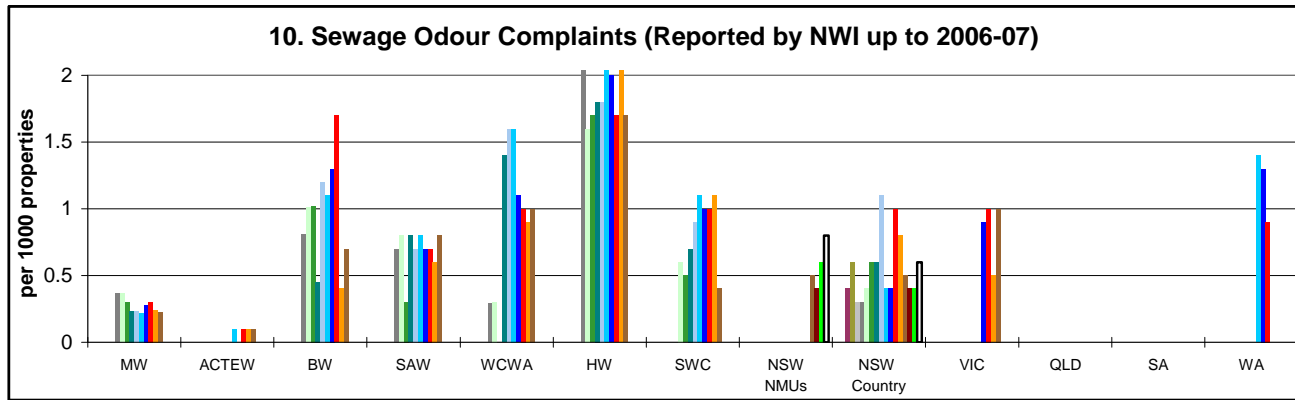
1998-99 and subsequent results are generally on the basis of *E. coli* in the more stringent

1996 and 2004 *NHMRC/ARMCANZ Australian Drinking Water Guidelines (ADWG)*.

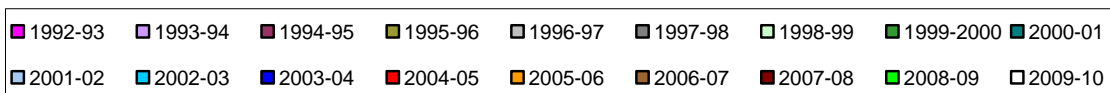
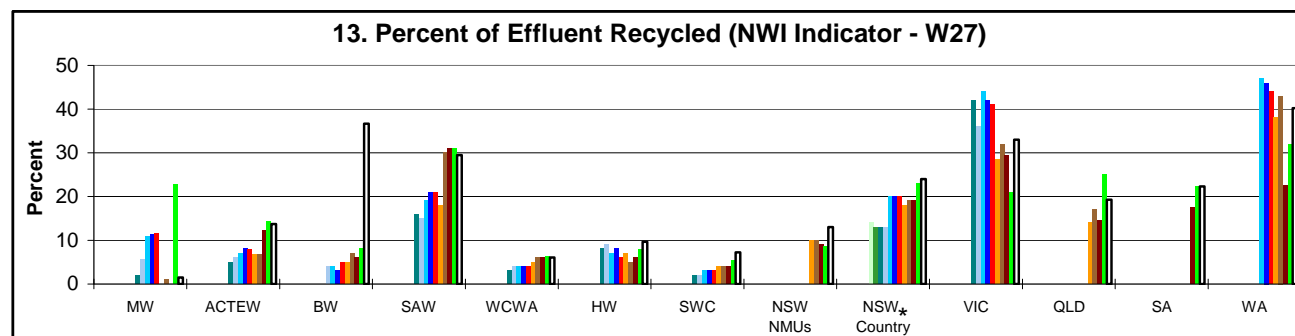
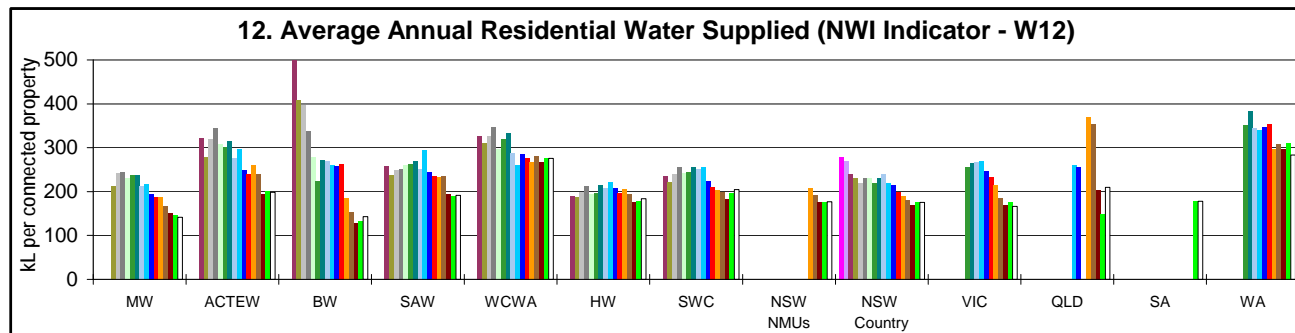
The exceptions are Victorian country utilities where results up to 2003-04 are on the basis of the less stringent *1984 World Health Organisation Guidelines* and which are now on the basis of the Victorian Safe Drinking Water Regulations 2005, and also Melbourne Water where prior to 2004-05 the results are on the basis of the above 1987 Guidelines and which are now on the basis of the 2004 ADWG.

For 2005-06 to 2009-10, the results shown are for "% of population where microbiological compliance was achieved", in accordance with NWI Indicator H3.

Performance comparisons – social (sewerage)



Performance comparisons – environmental (water)

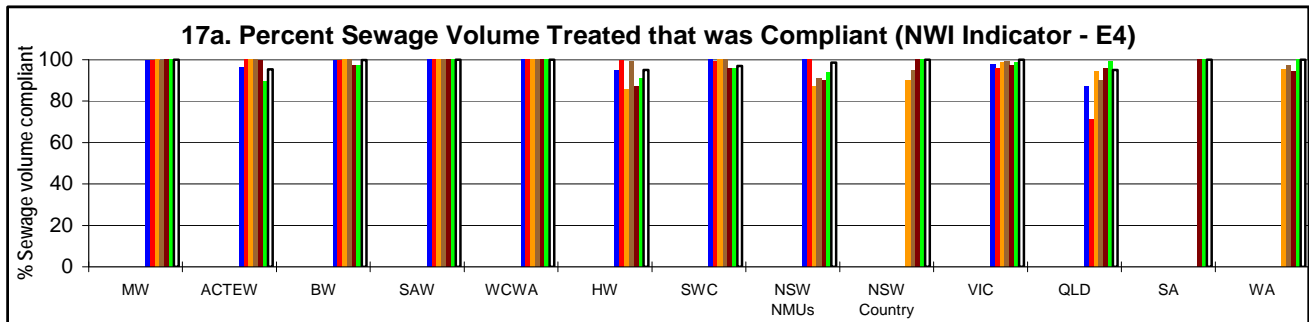
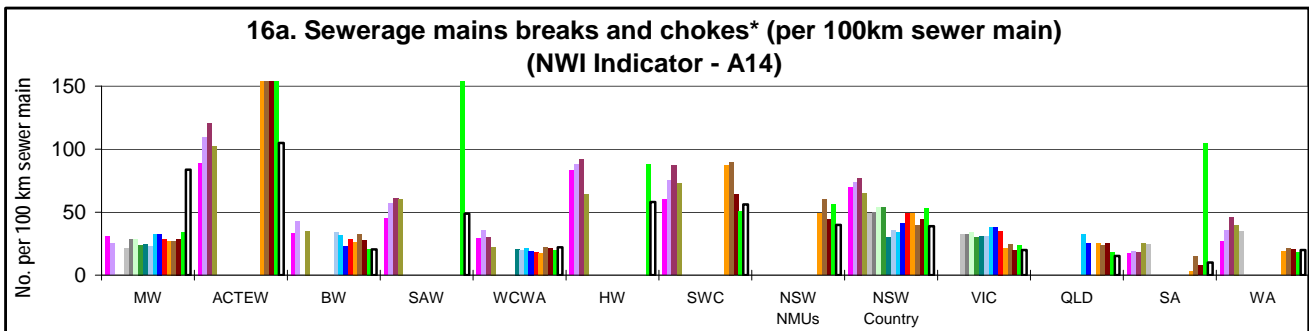
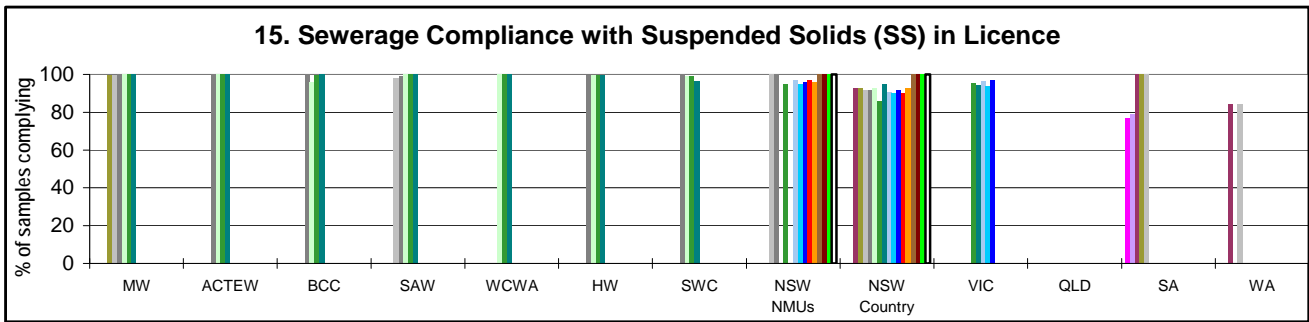
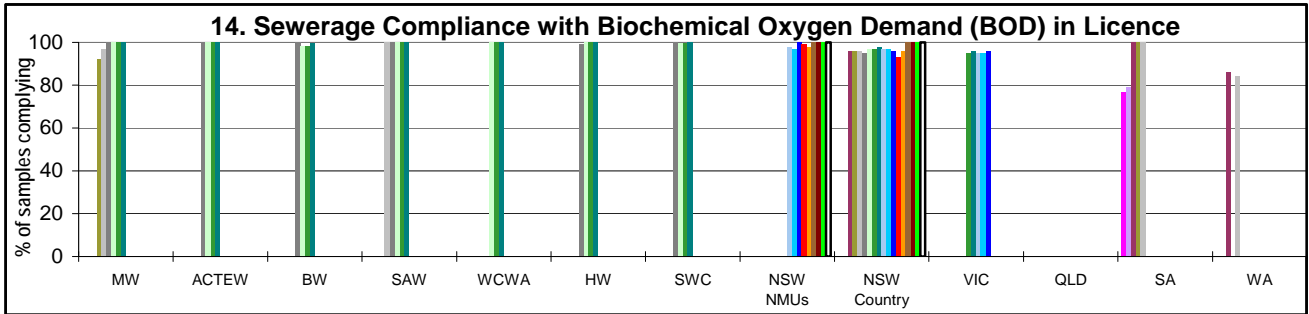
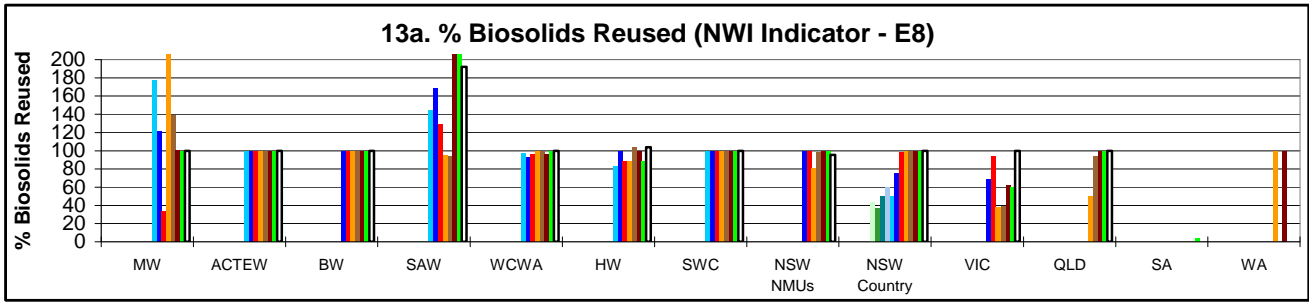


* NSW Effluent Result

The values shown for country NSW are the percentages of total volume of sewage collected in non-metropolitan NSW that was recycled.

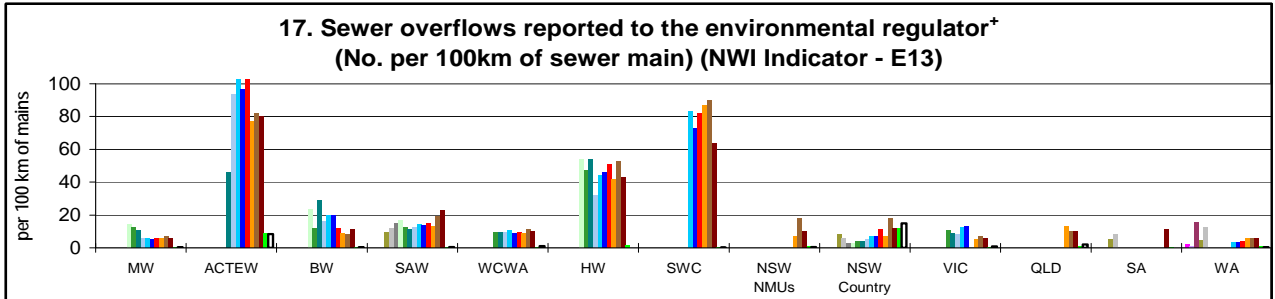
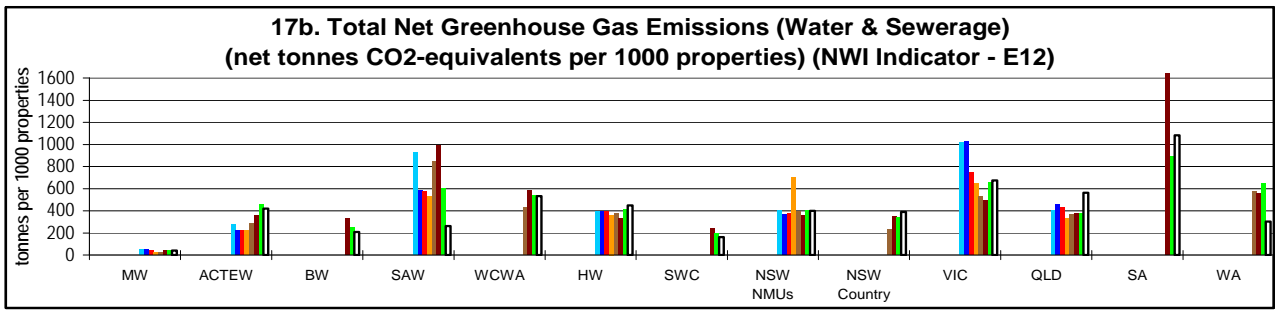
For country NSW, 39,000 ML of wastewater was recycled in 2009-10, which is 24 per cent of the total volume of sewage collected and was carried out by 80 per cent of the utilities, mostly for agriculture.

Performance comparisons – environmental (sewerage)

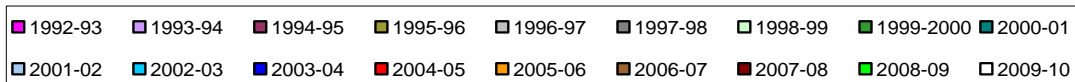
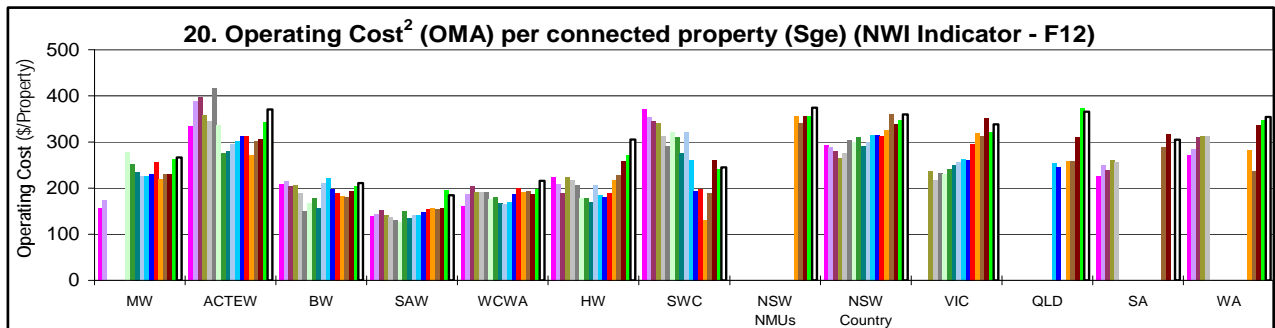
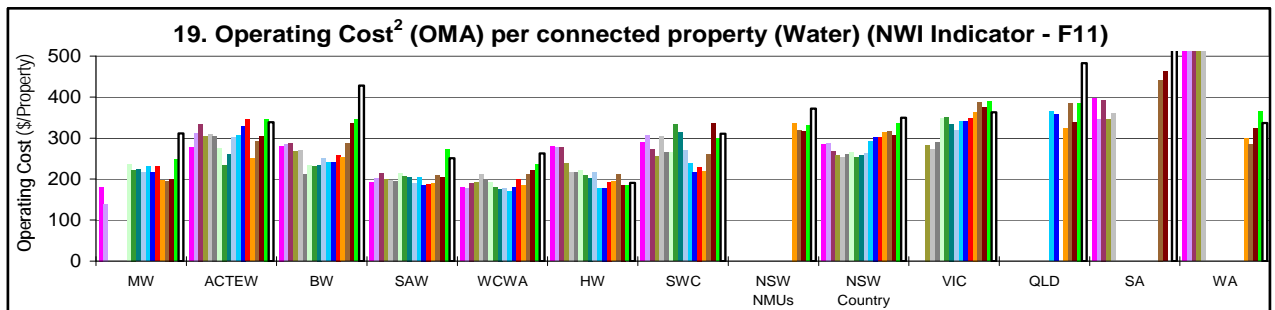
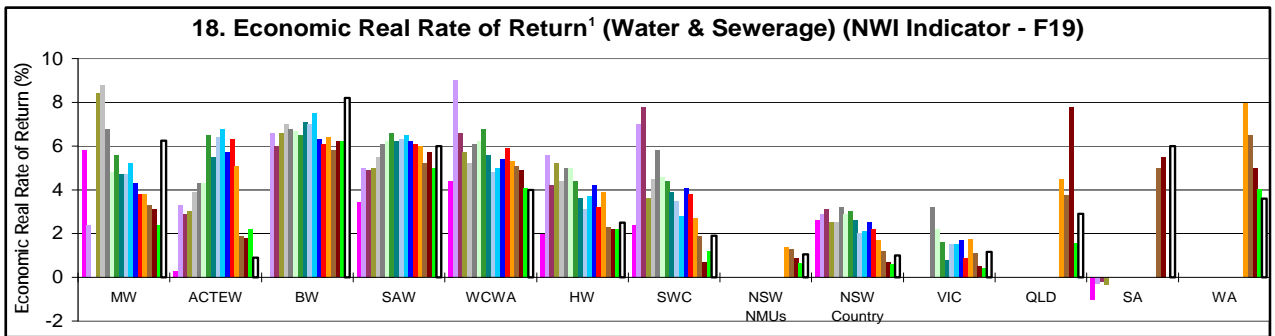


| | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|-----------|---------|
| 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-2000 | 2000-01 |
| 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |

* The values shown prior to 2009-10 are the reported values for sewerage breaks and chokes for indicator A12 in the National Performance Framework 2008-09 Urban Water Performance Indicators and Definitions Handbook.

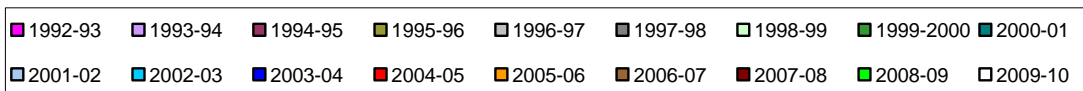
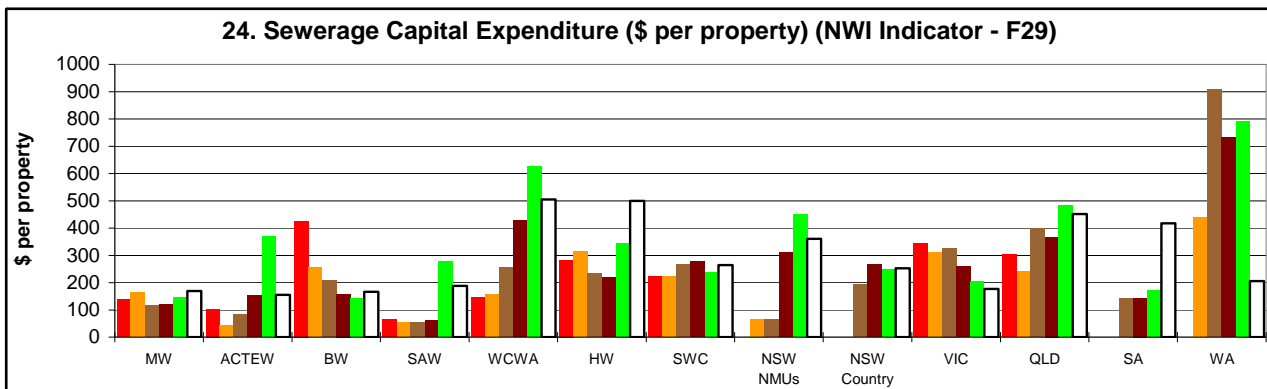
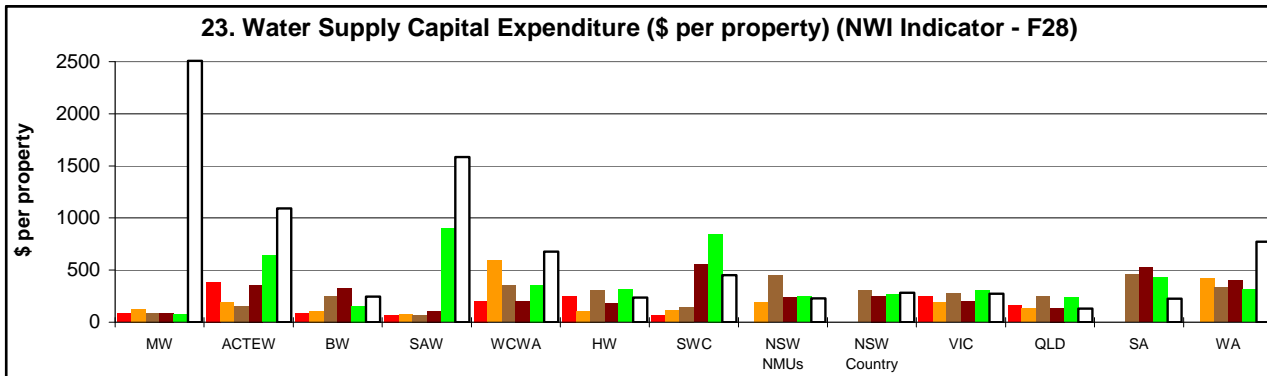
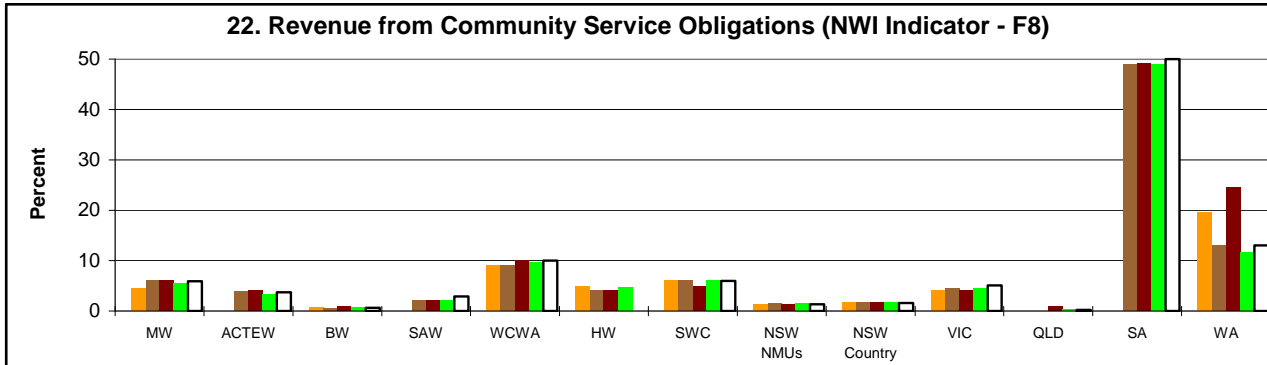
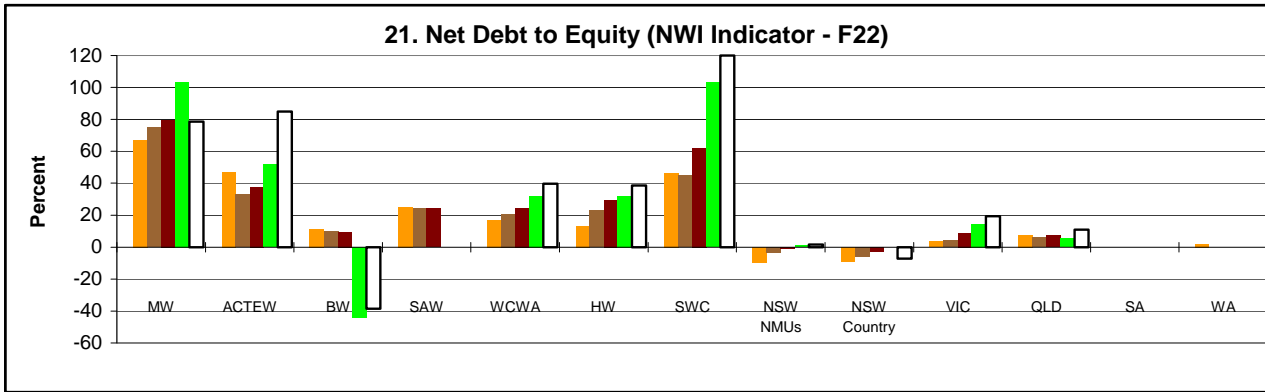


Performance comparisons – economic



- NOTES:**
- As the economic real rate of return (ERRR) was not reported by utilities other than NSW NMUs and Country NSW in 2001/02 to 2004/05, the reported values for "return on assets" has been shown in graph 16 for all the other utilities for these years.
 - Operating Cost (OMA) is the Operation, Maintenance and Administration Cost in 2009/10\$.
- + The values shown prior to 2008-09 are all reported sewer overflows in accordance with definition for indicator E13 in the National Performance Framework 2007-08 Urban Water Performance Indicators and Definitions Handbook.

Performance comparisons – economic (continued)



- NOTES:**
- The Water Supply Capital Expenditure per property shown for Melbourne Water for 2009-10 includes the full \$3.5B capital expenditure by a private consortium for the Victorian Desalination Plant project.
 - The Water Supply Capital Expenditure per property shown for Brisbane Water for 2009-10 includes the \$230M capital expenditure by SEQ Water and LinkWater.

Appendix B: NSW performance monitoring database

Water business data

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|---|---|---------|---------|------|---|---|
| 1 | C1 | Population served | Permanent | | | n | Population supplied with water in June this reporting year | Exclude population in non-serviced areas |
| 2 | | Population served | Peak | | | n | Maximum population supplied anytime this reporting year | Permanent population plus temporary influx (tourists, seasonal workers). Exclude population in non-serviced areas |
| 7 | | Dams | Number | | | n | Dams owned by the utility for seasonal water storage as distinct from daily balancing storages for distribution systems | Include on-stream and off-stream storages |
| 8 | | Dams | Capacity | | | ML | | |
| 9 | | Service reservoirs | Number | | | n | Distribution storage facilities used in the delivery of potable water to customers such as steel or concrete tanks used as daily balancing storages | Include clear water tanks at water treatment works |
| 10 | | Service reservoirs | Capacity | | | ML | | |
| 11 | | Weirs | Number | | | n | Low barriers, generally within the stream banks, to divert flow to an offtake | |
| 12 | | Weirs | Capacity | | | ML | | |
| 13 | | Bores | Number | | | n | Bore holes connecting to an aquifer from which water is drawn | |
| 14 | | Bores | Capacity | | | ML/d | | |
| 15 | | Pumping stations - potable and nonpotable | Number | | | n | Pumping stations for headworks and distribution systems | Include potable and non-potable pumping stations. Include pumping stations at treatment works that are used to deliver treated water into the distribution system. A pump station may include multiple pumps |
| 16 | | Pumping stations - potable and nonpotable | Capacity | | | ML/d | | |
| 17 | A1 | Treatment works | Number | | | n | Treatment works providing comprehensive water treatment to achieve high quality water | Include facilities that remove colour and/or turbidity as well as filtration, disinfection and pH adjustment. Exclude facilities that do not provide filtration and disinfection. Exclude secondary or booster disinfection plants. Exclude flouridation plants. |
| 18 | | Treatment works | Capacity | | | ML/d | | |
| 20a | | Water mains - potable and nonpotable | Headworks transfer length | | | km | Trunk mains which are part of the headworks system (eg. dam, river) for delivery of water either from scheme to scheme or to treatment works. Bulk suppliers should include trunk mains to other urban centres or schemes. Exclude disused pipe even if maintained for future use. | Include potable and non-potable mains |
| 20 | [A2] | Water mains - potable and nonpotable | Trunk main length | | | km | A transfer main delivering water from a treatment works or service reservoir to a distribution area. | Include potable and non-potable gravity and rising (pressure) mains. Exclude disused pipe even if maintained for future use. |
| 21 | [A2] | Water mains - potable and nonpotable | Reticulation length | | | km | A reticulation main is relatively small pipework distributing supply to a network of customers. | Include potable and non-potable reticulation. Exclude non-potable reticulation to non-urban areas (eg. for agriculture). Exclude disused pipe even if maintained for future use. Exclude pipework associated with property water services (mains to property meter or service connections). Exclude private mains. |
| 22 | A2 | Water mains - potable and nonpotable | Total length | | | km | Sum of (20) and (21). Excludes (20a) | |
| 23 | | Renewals - potable and nonpotable | Mains renewed | | | km | Existing water mains renewed or replaced in the reporting period | Exclude maintenance work (refer to Section 5 of NSW Local Government Asset Accounting Manual, 1999) |
| 24 | | Renewals - potable and nonpotable | Property service connections | | | n | Existing service connections renewed or replaced in the reporting period | |
| 25 | | Renewals - potable and nonpotable | Customer water meters | | | n | Existing customer water meters renewed or replaced in the reporting period | |
| 30 | | Service connections | Service connections | | | n | A service connection is not the same as a connected property. The number of service connections is the number of metered accounts minus the total of any submeters (after master meters eg. to shops or flats) plus the estimated service connections (eg fire connections). The number of service connections includes residential and non-residential and is only used to calculate the Infrastructure Leakage Index and real losses (L / connection / d) | The number of metered units and their configuration are not material for determining the number of service connections. Examples: a block of 30 units with a single shared connection is one service connection; a block of 30 units with sub-meters and separate bills for each unit but with a single shared connection to the water main is also one service connection; retirement villages, where there is a single shared connection to the water main that services the whole of the retirement village are also counted as one service connection |
| 31 | | New residential connections | New residences connected | | | n | Number of new residences connected this reporting year | Include each individual house, flat, villa, unit, townhouse etc whether separately metered or not |
| 32 | [C2] | Assessments | Residential assessments | | | n | Residential assessments for water supply services | Include vacant lots |
| 33 | [C3] | Assessments | Non-residential assessments | | | n | Non-residential assessments for water supply services | Include vacant lots |
| 36 | [C4] | Assessments | Total assessments | | | n | Sum of (32) and (33) | |
| 37 | | Connected Property-Assessment ratios | Connected properties / total assessments | | | n | See notes for (38) | |
| 37a | | Connected Property-Assessment ratios | Residential assessments / total assessments | | | n | See notes for (38) | |

Water business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|--------------------------------------|--|---------|---------|------|---|---|
| 38 | | Connected Property-Assessment ratios | Connected residential properties / residential assessments | | | n | These ratios do not vary significantly from year to year for water supply systems. NOW has worked with LWUs to establish these ratios and will continue to use the existing ratio shown. If you consider that another ratio is more appropriate, you will need to provide detailed evidence to NOW to support such a change. Evidence that would be required includes the number of residential (single and multi) and non-residential assessments and connected properties from your financial, water and sewerage reports over the last 3 years together with details of vacant lots and new properties connected. Note that ratios are stored as floating decimals but are displayed on this page to two decimal places only | Connected properties are not the same as assessments. Connected properties rather than assessments are used for consistency with the National Performance Framework 2009-10. A connected property is one which is connected to the water supply system but which may or may not have a separate assessment |
| 39 | | Unserved properties and population | Unserved urban properties | | | n | Number of properties in urban zoned land in towns and villages in your utility's area of operations not served by a reticulated public water supply scheme | Only applies to properties in urban zoned land. Information on the unserved urban properties and population of each village is available in your LWU's water supply strategic business plan. Exclude vacant land and rural properties. Exclude premises in land zoned rural residential |
| 40 | | Unserved properties and population | Unserved urban population | | | n | Estimated permanent population occupying unserved urban properties | |
| 41 | [W1] | Water sources | Off-stream dams | | | ML | Volume of water abstracted from off-stream dams. | Measured at the point of abstraction. Include volumes pumped from open channels supplied by these dams. |
| 42 | [W1] | Water sources | On-stream dams | | | ML | Volume of water abstracted from on-stream dams. | Measured at the point of abstraction. Include volumes pumped from open channels fed by these dams. Exclude volumes fed to off-stream dams for storage. |
| 43 | [W1] | Water sources | Run-of-river pumping excluding volumes pumped to dams | | | ML | Volume of water abstracted from run-of-river pumping. | Measured at the point of abstraction. Exclude volumes pumped to an off-stream dam or desalination plant |
| 44 | [W1] | Water sources | River release from State Water dams | | | ML | Volume of water drawn as a release from a State Water dam. | |
| 45 | W2 | Water sources | Groundwater extraction | | | ML | Volume abstracted from groundwater. | Measured at the point of abstraction, not delivery. Exclude desalinated groundwater. Exclude volumes from artificial recharge by sources counted elsewhere eg. river abstraction and greywater/stormwater collection systems (Recycled water, W47). |
| 46 | W3 | Water sources | Desalinated water | | | ML | Volume of water sourced from desalination. | |
| 47 | W4 | Water sources | Recycled water | | | ML | Volume of non-potable water for urban supply sourced from recycling. Include treated sewage effluent and water sourced from greywater and stormwater systems. | Include recycled water supplied for residential, industrial/commercial and municipal/institutional uses; Exclude: recycled water supplied for agriculture. This volume will not necessarily equal the volume of recycled treated sewage (entered as sewage treatment works indicator T25) if greywater and stormwater are also sourced. |
| 48 | | Water sources | Total water from utility's sources | | | ML | Sum of (41) to (47) | |
| 49 | [W5] | Water sources | Bulk purchase: potable | | | ML | Volume of potable water purchased from a bulk supplier outside your utility's geographic area of responsibility. | |
| 50 | [W5] | Water sources | Bulk purchase: non-potable | | | ML | Volume of non-potable water purchased from a bulk supplier outside your utility's geographic area of responsibility. | |
| 51 | | Water sources | Potable bulk supplier/supply scheme | | | | Select the name of bulk supplier or bulk supply scheme, or leave as "unknown" if no purchase was made | If a bulk supplier or scheme is not included in the pick list, please notify the Manager, Performance Monitoring, NOW. |
| 52 | | Water sources | Purchase price potable bulk water | | | c/kL | | |
| 53 | W7 | Water sources | Total water from all sources | | | ML | Sum of (48), (49) and (50) | |
| 54 | [W8] | Authorised potable supply | Residential | | | ML | Total metered and estimated non-metered potable water supplied to residential properties. | Internal use includes bathroom, kitchen & laundry use. External use includes garden watering. Include metered and estimated unmetered water supplied |
| 55 | [W9] | Authorised potable supply | Commercial | | | ML | Total metered and estimated non-metered potable water supplied to commercial customers. | Include offices, shops, clubs, hotels, motels, caravan parks etc. Include metered and estimated unmetered water supplied |
| 56 | [W9] | Authorised potable supply | Industrial | | | ML | Total metered and estimated non-metered potable water supplied to manufacturing and industrial customers. | For industrial consumers within urban zoned land or industrial consumers that are supplied with potable water outside of urban zoned land. Include factories, mills (eg flour, paper, timber) poultry farms, feed lots, sale yards, abattoirs, mining etc. Include metered and estimated unmetered water supplied |
| 57 | [W9] | Authorised potable supply | Rural | | | ML | Total metered and estimated non-metered potable water supplied to farms and hobby farms outside urban zoned land. | Include potable water supplied for stock and domestic uses outside of urban zoned land including market gardens, agricultural irrigation. Include metered and estimated unmetered water supplied |
| 58 | [W9] | Authorised potable supply | Institutional | | | ML | Total metered and estimated non-metered potable water supplied to institutional customers. | Include hospitals, schools, nursing homes, colleges, universities, gaols etc. Include metered and estimated unmetered water supplied |

Water business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|-------------------------------|------------------------------------|---------|---------|------|---|--|
| 59 | W14 | Authorised potable supply | Bulk sales | | | ML | Total volume of potable water sold to other utilities or entities outside your utility's geographic area of responsibility. Include water sourced from another geographic area. | |
| 60 | [W9] | Authorised potable supply | Public parks | | | ML | Total metered and estimated non-metered potable water supplied for watering public parks and gardens. | Include watering of public parks, gardens and ovals etc. Include metered and estimated unmetered water supplied |
| 61 | [W10] | Authorised potable supply | Unbilled | | | ML | Metered and estimated unmetered authorised supply for which a bill is not issued to the consumer. | Include firefighting and mains flushing as this is authorised supply and is not a water loss. The National Performance Framework default value for unmetered, unbilled authorised supply is 0.5% of total water supplied. Examples: firefighting (customer fire connections and street hydrants); mains flushing; public parks and gardens etc |
| 62 | [W11] | Authorised potable supply | Total authorised potable supply | | | ML | Sum of (54) to (58), (60) and (61) | |
| 63 | [W8] | Authorised non-potable supply | Residential | | | ML | Non-potable water reticulated to residential customers. | Include metered and estimated unmetered supply. Exclude recycled water |
| 64 | [W9] | Authorised non-potable supply | Non-residential | | | ML | Non-potable water for town water supply reticulated to non-residential customers. | Include metered and estimated unmetered supply. Exclude recycled water |
| 64b | [W8] | Authorised non-potable supply | Recycled residential | | | ML | Recycled water for non-potable town water supply reticulated to residential customers. | Include metered and estimated unmetered recycled water supplied |
| 64c | [W9] | Authorised non-potable supply | Recycled non-residential | | | ML | Recycled water for non-potable town water supply reticulated to non-residential customers. | Include metered and estimated unmetered recycled water supplied. Include recycled water used for watering of parks and gardens or supply to industry. |
| 64d | [W11] | Authorised non-potable supply | Total authorised non-potable | | | ML | | |
| 82 | | Peak water supplied | Peak day | | | ML | The maximum 24 hour potable water supplied in the reporting year | |
| 83 | | Peak water supplied | Peak week | | | ML | The maximum 7 day potable water supplied in the reporting year | |
| 65 | | Apparent potable losses | Unauthorised supply | | | ML | Include theft and illegal use (illegal connections, illegal use of unmetered fire connections). | Exclude firefighting and mains flushing - this is included in unbilled authorised potable supply (indicator 61). The National Performance Framework default value for unauthorised consumption is 0.1% of total water supplied |
| 66 | | Apparent potable losses | Meter inaccuracies | | | ML | Under-registration of customer meters and errors in system meters. | Your utility should have in place a meter testing program and appropriate statistical analysis to determine metering error. Retail meter error defaults are: 2.0% of BACMR (billed authorised consumption, metered residential) or 2.0% of indicator 54 less estimated non-metered supply (Note: an additional sum of 0.5% of BACMR may be added to the residential meter error to account for meter non-registration); 2% of BACMN (billed authorised consumption, metered non-residential) or 2% of summed indicators 55, 56, 57, 58, 60, 61 less non-metered water supplied |
| 67 | | Apparent potable losses | Total apparent losses | | | ML | Apparent losses are the sum of unauthorised potable supply plus meter inaccuracies | |
| 68 | [A10] | Real potable losses | Leakage | | | ML | Leakage from mains, reservoirs and connections including property service connections to customer meters. | If leakage is less than 6% of total water supplied, your data should be carefully re-examined as leakage studies have found 6% to be a minimum for leakage for other than bulk water suppliers. Losses of less than 6% should be supported by evidence (eg. waste metering, reservoir drop test or night flow analysis). Real losses represent a wasted resource and reduce the effective capacity of the supply system resulting in unnecessary capital and operating expenditures. |
| 69 | | Total potable losses | Total potable losses | | | ML | Sum of real plus apparent losses | |
| 77 | | Leakage factors | Average system pressure | | | m | Estimated average operating pressure in the distribution system. | Pressures should be averaged over 24 hours. For multiple zones report a weighted average using average pressures and the number of connections in each zone |
| 78 | | Leakage factors | Average length of property service | | | m | Estimated average length of property service from the reticulation main to the customer meter. | Assumed to be zero if the customer meter is normally located at or close to the property boundary. If the customer meter is normally located some distance from the boundary, estimate the average length by randomly sampling an appropriate number of property service connections |
| 74 | | Leakage testing | Leakage test method | | | | Select the test used or leave as "unknown" if no test was carried out | |
| 75 | | Leakage testing | Year of test | | | year | Year that latest leakage measurement was carried out or leave as "unknown" if no test was carried out | Enter the final year if testing was undertaken over several years (eg if 2003 to 2004, enter 2004) |
| 76 | | Leakage testing | Result of test: percent leakage | | | % | If leakage is less than 6% of total water consumption, this data should be carefully examined as leakage studies have found 6% to be a minimum for leakage for other than bulk water suppliers. Losses of less than 6% should be supported by evidence (eg. waste metering, reservoir drop test or night flow analysis) | |
| 84 | | Demand management initiatives | Customer education program | | | Y/N | | |
| 85 | | Demand management initiatives | Permanent water savings measures | | | Y/N | Permanent water savings measures in place to conserve water | Example: no hosing of concrete or hard surfaces at any time |

Water business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|-------------------------------|---|---------|---------|------|--|--|
| 88 | | Demand management initiatives | Retrofit program | | | Y/N | | |
| 89 | | Demand management initiatives | Rebates for water efficient appliances | | | Y/N | | |
| 90 | | Demand management initiatives | Customer billing interval | | | mths | Interval between customer bills this reporting year | |
| 91 | | Demand management initiatives | Other initiative | | | | | |
| 92 | | Demand management initiatives | Other initiative | | | | | |
| 93 | | Rainwater tanks | Rebate for tanks | | | Y/N | | |
| 94 | | Rainwater tanks | Maximum rebate available | | | \$ | | |
| 95 | | Drought restrictions | Days water restrictions due to drought | | | days | Include all days of water restriction regardless of the level of restriction. | |
| 96 | [C10] | Complaints | Service complaints | | | n | Complaints relating to service quality and reliability, including leaks. Exclude water quality complaints and billing complaints. Exclude queries about service quality and reliability. | Include bursts, leaks, service interruptions, adequacy of service, water pressure, affordability, behaviour of staff or agents. Exclude complaints about tariff structure. A complaint is a written or verbal expression of dissatisfaction about an action, proposed action or failure to act by the water utility, its employees or contractors. Complaints from separate customers arising from the same cause count as separate complaints. Include complaints received by the water utility in person, by mail, by fax, phone, email or text message. Exclude complaints about planned service interruptions unless the customer expresses dissatisfaction about the interruption. Australian Standard AS ISO 10002-2006 refers. Examples: Include complaints about pressure when found to be caused by a leaking mains or when a customer expresses dissatisfaction with the normal pressure. |
| 97 | | Complaints | Common service complaint 1 | | | | A complaint is a written or verbal expression of dissatisfaction about an action, proposed action or failure to act by the utility, its employees or contractors | Include complaints in person, by mail, email, fax, phone, or text messaging. |
| 98 | | Complaints | Common service complaint 2 | | | | | |
| 99 | [C12] | Complaints | Billing complaints | | | n | Complaints concerning account payment, financial loss or overcharging and billing errors. Exclude queries. | Do not include complaints on government pricing policy or complaints about the tariff or queries about how the tariff is calculated. A complaint is a written or verbal expression of dissatisfaction about an action, proposed action or failure to act by the water utility, its employees or contractors. Complaints from separate customers arising from the same cause count as separate complaints. Includes complaints received by the water utility in person, by mail, by fax, phone, email or text message. When a customer queries an account, this is not counted as a complaint unless the customer identifies that they have rung to make a complaint. If the customer rings to make an enquiry but remains dissatisfied or the enquiry identifies an error in the bill, this should be recorded as a complaint. If a customer makes repeated contact on the same billing issue this should be recorded as a complaint. If an operator is doubtful whether the customer is making an enquiry or complaint they should ask the customer whether they want a complaint to be recorded. |
| 100 | [C10] | Complaints | Other complaints | | | n | Complaints other than water quality, service or billing. Exclude queries. | A complaint is a written or verbal expression of dissatisfaction about an action, proposed action or failure to act by the water utility, its employees or contractors. Complaints from separate customers arising from the same cause count as separate complaints. Include complaints received by the water utility in person, by mail, by fax, phone, email or text message. Exclude complaints on government pricing policy or tariff structures |
| 101a | C9 | Complaints | Water quality complaints (bulk supplies) | | | n | Customer complaints concerning the quality of reticulated bulk potable supplies. Exclude queries. | Water quality complaints for areas where your utility did not carry out water treatment (where the supply is obtained from a bulk supplier). |
| 101b | [C9] | Complaints | Water quality complaints (treated supplies) | | | n | Complaints relating to water treated by your utility's treatment plants. Exclude queries. | Sum of water quality complaints for your treatment works (entered under Water Treatment/Service Levels NSW Reference T37) |
| 102 | [C13] | Complaints | Total complaints | | | n | Sum of (96), (97), (99), (100), (101a) and (101b) | |

Water business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|--------------------------------|--|---------|---------|------|--|--|
| 103 | C14 | Telephone connect time | Percent of calls answered by an operator within 30 seconds | | | % | Percentage of calls answered by an operator within 30 seconds. If a percentage is provided for Sewerage indicator 41, do not provide a percentage here | If your utility does not record the "time to connect to telephone" leave this indicator blank. Exclude calls resolved by automated systems, hang-ups or where the customer has selected an incorrect dialing option. Examples: if a customer elects to speak with an operator via automatic dialling, the connect time is from the time when the customer was connected by the system until it is answered by an operator. The connect time starts when the call gets connected by person, (in which case the connect time would be zero), by an auto attendant (IVR) or by a message informing the caller they have been put in a queue. The connect time finishes when the caller is answered by a person. If the caller hangs up before they speak to a person, the call is not counted. Similarly, if the caller's question is answered by an IVR, meaning they dont need to speak to an operator, the call is not counted |
| 104 | [A8] | Unplanned supply interruptions | Water main breaks | | | n | Total number of water main breaks, bursts and leaks in all diameter water distribution and reticulation mains. Includes potable and non-potable water mains. | Exclude: Breaks in the property service connection; weeps and seepages in above-ground mains that can be fixed without shutting down the main. |
| 105 | | Unplanned supply interruptions | Property service connection failures | | | n | Unplanned incidents where water is lost due to failure of a property service connection | Exclude a burst or leak which causes no discernable impact on customers, property or the environment |
| 106 | | Unplanned supply interruptions | Properties affected | | | n | Unplanned interruptions are a total loss of water supply due to failure of the water asset | An unplanned interruption is when the customer has not received at least 24 hours notification of the interruption. Interruptions include both potable and recycled interruptions. Include each occurrence of interruption. Exclude interruptions caused by burst or leaks in the property service connection and interruptions where there is some reduction to service but where normal activities (eg. shower, washing machine, toilet flushing etc) are still possible |
| 107 | [C15] | Unplanned supply interruptions | Average duration | | | min | Measured from time of notification of interruption to time of restoration of normal service. Include: interruptions due to bursts or leaks in property service connections; all the period of planned interruptions where the duration exceeds planned duration. Exclude planned interruptions where planned duration is not exceeded. | For this indicator, include interruptions caused by bursts or leaks in property service connections as this indicator reports the average duration that customers are without a water supply service. This is different to indicators 103 to 105. If the utility responds to notification of a broken main, unless the notification also indicates a loss of supply, duration commences once the break is isolated. Examples - A utility advises customers an interruption will occur and will last 3 hours. The actual duration is 5 hours. The unplanned interruption duration is 5 hours. - A customer calls advising they are without water. The interruption commences at the time of notification. - A customer calls advising of a broken main. Unless the notification also indicates a loss of supply, the interruption commences when staff arrive at the main and isolate the break. - Mains are shut down due to fire fighting requirements. This interruption is included and commences at the time the mains are shut down. Include un-notified interruptions caused by third parties. |
| 113 | H6 | Water quality management | Risk-based drinking water quality plan? | | | Y/N | Minimum requirement for answering "yes" is a documented water quality management plan in accordance with page 2-1 of the Australian Drinking Water Quality Guidelines 2004. Any other more rigorous plans are also satisfactory | |
| 113a | | Water quality management | Specify planning framework | | | | State the basis for your Drinking Water Quality Management Plan | Examples: Framework for Management of Drinking Water Quality, HACCP, ISO 9001, WSA (National Water Quality Framework Continuous Improvement Tool) |
| 114 | H5 | Water quality management | External assessment of plan | | | | State the basis for the external accreditation | For each external assessment, external third party accredited assessments must have taken place within the last 12 months. The scope of these quality systems must cover the entire water business water quality management system. If the quality system covers a more limited area, the indicated quality system must be footnoted with a description of the area covered |
| 115 | | Public health incidents | Category 1 incidents | | | n | Incidents with nil or inconsequential public health effects | Example: a minor failure of a water treatment process or asset that results in a limited boil water alert. |
| 116 | | Public health incidents | Category 2 incidents | | | n | Incidents with a limited public health impact | Examples: non-compliance with health parameters (E. coli) of ADWG, 2004 for more than 7 days; system-wide boil water notice; failure of a disinfection system of more than 3 days; failure of a major treatment process or asset at a treatment works of more than 4 days; chlorine or ammonia gas leak (chlorination/chloramination); non-pathogenic/toxic contamination of the potable water supply due to a cross connection; an incident resulting in unplanned interruptions to supply of more than 2 days (if more than 7 days report as Category 3) |

Water business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|------------------------------------|---|---------|---------|------|--|--|
| 117 | | Public health incidents | Category 3 incidents | | | n | Incidents with a major impact on public health | Examples: outbreak of water borne disease and/or hospitalisation from water supplied by your utility's water supply system; an incident resulting in unplanned interruptions to supply of more than 7 days; pathogenic contamination of the potable water supply due to a cross connection; toxic contamination of water supply |
| 118 | | Public health incidents | Category 3 incidents detail | | | | | |
| 119 | | Public health investment | Capital investment to improve health performance | | | \$k | Capital expenditure with the principal outcome of improved health performance | This indicator highlights public health improvement and innovation. Include expenditure undertaken for compliance purposes having IMPROVED performance as an outcome. Include new treatment works. Exclude renewals. (Enter \$111,500 as 111.5, \$3,999,000 as 3999 etc) |
| 120 | | Workforce and training | Total workforce in water business | | | FTE | A full-time employee has an FTE of 1. Part-time and casual employees will have an FTE of less than one based on hours employed. | Include water supply business workforce engaged in operation, maintenance and management including billing as well as contracted staff. Exclude staff engaged on design and construction |
| 121 | | Workforce and training | Female workforce | | | FTE | | |
| 122 | | Workforce and training | Workforce receiving 2 or more training days | | | FTE | The training days FTE of water supply business employees that have undertaken at least 2 days of training in the reporting year. This number will be less than or equal to the workforce FTE | The training days FTE of a casual or part-time employee is the FTE of that employee multiplied by the number of days that employee trained in the reporting year |
| 123 | | Days lost | Total days lost | | | FTE | Total FTE days lost for water supply business | Include days lost due to workplace injury, disease and industrial action. Exclude recreation leave, long-service leave, public holidays, rostered days off or flexi-leave, maternity leave, jury duty, leave for Army Reserve training, etc. Exclude days lost for staff engaged in design or construction |
| 124 | | Days lost | Confirmed injuries | | | n | Include water supply business injuries that resulted in a fatality, permanent disability or time lost from work of one day or more. Include injuries for equivalent contractor employees. Exclude injuries for employees engaged in design or construction | |
| 125 | | Days lost | Days lost due to injury | | | FTE | Total FTE days lost due to injury | Include days lost for injuries for equivalent contractor employees. Exclude days lost for injuries for employees engaged in design or construction |
| 128 | | Workforce outsourced | Management costs outsourced | | | % | The percentages expended by the water supply business on outsourcing of management, operational and maintenance costs | |
| 129 | | Workforce outsourced | Operational costs outsourced | | | % | | |
| 130 | | Workforce outsourced | Maintenance costs outsourced | | | % | | Outsourcing is subcontracting part of the operation and/or management of a utility's business to a third party, where the subcontractor undertakes work that would normally be done by the utility's workforce. Include legal work, electrical maintenance, operation of a treatment works etc. |
| 131 | | Community | Reduction in fees and charges to community organisations | | | \$k | The value of reductions in fees or charges permitted by legislation which are provided by your water supply business to the community. Exclude pensioner rebates | Utilities may elect to provide reduced fees and charges for certain non-profit and community organisations and charities (including non-rateable properties) as permitted by legislation. This indicator reports the total amount of reductions provided to such community organisations in comparison with the standard fees and charges for non-residential customers |
| 131a | | Community | Progress towards implementing the National Guidelines for Residential Customers' Water Accounts | | | % | Estimate your utility's percent progress toward implementing the National Guidelines for Residential Customers' Water Accounts, 2006 (available at www.mincos.gov.au) | |
| 132a | C18 | Community | Restrictions for non-payment of water bill | | | n | Restrictions and disconnections applied for non-payment of water bills in the reporting period | Include: all cases where restriction devices are fitted to reduce water flows to a customer (residential and non-residential). Multiple restrictions for one customer are to be counted as separate restrictions. Exclude: customers who choose to disconnect from the water supply; disconnections carried out due to unsafe infrastructure connected to the water utility's system; instances where your utility elects not to restrict supply due to non-payment. |
| 132b | C19 | Community | Legal action for non-payment of water bill | | | n | Legal actions for non-payment of water bills in the reporting period. | Legal action commences from issue of summons. Include action taken against both residential and non-residential customers. Multiple actions against one customer are to be counted as separate actions. Exclude cases where your utility threatens to take legal action but does not proceed |
| 133 | | Operation and Maintenance expenses | Headworks | | | % | Financial data is provided by your utility in Special Schedule No.3 to the Annual Financial Statement, specifically "Operation and Maintenance Expenses". Divide this total into "headworks" and "distribution and reticulation" | |

Water business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|---|---|---------|---------|----------|---|---|
| 134 | | Operation and Maintenance expenses | Distribution and reticulation | | | % | | |
| 135 | | Developer charges | Typical developer charge for this reporting year | | | \$ | This is the typical developer charge determined by your utility to recover part of the cost of water supply infrastructure for new development. | |
| 136 | | Developer charges | Typical developer charge for next reporting year | | | \$ | | |
| 137 | | Environmental incidents | Category 1 incidents | | | n | Incidents with little or no impact on the environment | Examples: a reportable incident but not a breach of environmental regulations; an incident resulting in under 4 days of odour or noise complaints; a minor spillage of non-toxic chemicals or sludge to waterway or land |
| 138 | | Environmental incidents | Category 2 incidents | | | n | Incidents with limited and non-permanent impact on the environment | Examples: a minor breach of environmental regulations eg. non maintenance of the required environmental flows, an incident resulting in over 4 days of odour or noise complaints, a major soil erosion incident requiring remediation, a significant chemical or sludge spill to waterway or land |
| 139 | | Environmental incidents | Category 3 incidents | | | n | Incidents with major and irreversible impact on the environment | Examples: a major breach of environmental regulations, a dam failure, a severe algal outbreak in storages/waterways, a major toxic chemical or sludge spill into waterways, widespread destruction of native forests/ecosystems |
| 140 | | Environmental incidents | Category 3 incidents detail | | | | | |
| 141 | | Environmental management | Environmental management plan? | | | Y/N | | |
| 142 | | Environmental management | Plan developed in consultation with other bodies including Catchment Management Board | | | Y/N | | |
| 143 | | Environmental management | Environmental consultative process in place | | | Y/N | | |
| 144 | | Environmental management | Capital investment to improve environmental performance | | | \$k | Capital expenditure with the principal outcome of improved environmental performance | This indicator highlights environmental improvement and innovation. Include expenditure undertaken for compliance purposes having IMPROVED performance as an outcome. Include new treatment works. Exclude renewals. (Enter \$111,500 as 111.5, \$3,999,000 as 3999 etc). |
| 144a | W13 | Environmental flows supplied | Environmental flows (new indicator 2008/09) | | | ML | Wholesale flow allocations to the environment, generally upstream of the master meter, as specified in the environmental flow management regime as required by the environmental regulator. Exclude unplanned releases unless these can be incorporated into the environmental flow regime. | |
| 145 | | Energy | Non-renewable energy | | | MWh | Energy derived from non-renewable sources used by your water supply business | |
| 146 | | Energy | Renewable energy | | | MWh | Energy derived from accredited renewable sources used by your water supply business | |
| 147 | | Energy | Total energy | | | MWh | Sum of (145) and (146) | |
| 148 | E9 | Greenhouse gas emissions - water supply | Operating emissions | | | t CO2 eq | Greenhouse gas emissions for all operations relating to water supply | The Greenhouse Gas calculator provided to you by the NSW Office of Water will simplify this task (copy available in Appendix G of the 2009-10 NSW Water Supply and Sewerage Benchmarking Report). |
| 148b | E11 | Greenhouse gas emissions - water supply | Net administrative emissions | | | t CO2 eq | Net greenhouse gas emissions for other water supply activities (transport, office buildings and sequestration) | The Greenhouse Gas calculator provided to you by the NSW Office of Water will simplify this task (copy available in Appendix G of the 2009-10 NSW Water Supply and Sewerage Benchmarking Report). |

Water treatment data

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|------------------|--------------------------------------|---------|---------|------|---|--|
| T1 | | Works parameters | Year commissioned / augmented | | | year | Year of commissioning or latest major augmentation | |
| T2 | | Works parameters | Design capacity | | | ML/d | | |
| T3 | | Works parameters | Type of works | | | | For multiple processes, hold the Control key and select the processes used | |
| T5 | | Works parameters | Percentage of population served | | | % | Estimated percent of your utility's permanent population supplied by this treatment works | |
| T4 | | Works parameters | Comments | | | | | |
| T7a | | Qualifications | Operator 1 qualification | | | | Highest qualification obtained by this operator | |
| T7e | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T7b | | Qualifications | Operator 2 qualification | | | | Highest qualification obtained by this operator | |
| T7f | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T7c | | Qualifications | Operator 3 qualification | | | | Highest qualification obtained by this operator | |
| T7g | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T7d | | Qualifications | Operator 4 qualification | | | | Highest qualification obtained by this operator | |
| T7h | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T6 | | Volume treated | Volume treated | | | ML | Volume treated by this treatment works this reporting year | |
| T26 | | E.coli | Number of system samples | | | n | Include samples taken at this treatment works for system performance monitoring. Exclude samples for operational monitoring. | System performance monitoring is a wide ranging assessment of the quality of the water supplied to customers. Operational monitoring is used as a trigger for immediate corrective action to improve water quality and to check equipment is working properly. Sampling location and frequency should be scheduled sampling on the basis of Attachment 2 and ADWG 2004. The number of samples reported should be those taken for system performance monitoring from representative locations in the water supply system and not those taken for operational monitoring |
| T27 | H2 | E.coli | Percent complying | | | % | Number of samples taken for system compliance monitoring divided by the total number of such samples. Water quality compliance data for each treatment works will be used to determine NWI indicators H2, H3 and H4 | It is neither physically nor economically feasible to test on an ongoing basis for all substances in a water supply system. Each water supply system will have its own key characteristics. It is therefore common for water utilities to monitor regularly for contaminants such as disinfection by-products whereas a wide range of other non-key characteristics will only be monitored irregularly. |
| T16 | | Physical | Number of system performance samples | | | n | Include samples taken at this treatment works for system performance monitoring. Exclude samples for operational monitoring. | System performance monitoring is a wide ranging assessment of the quality of the water supplied to customers. Operational monitoring is used as a trigger for immediate corrective action to improve water quality and to check equipment is working properly. Sampling location and frequency should be scheduled sampling on the basis of Attachment 2 and ADWG 2004. The number of samples reported should be those taken for system performance monitoring from representative locations in the water supply system and not those taken for operational monitoring |
| T17 | | Physical | Percent complying | | | % | Number of samples taken for system compliance monitoring divided by the total number of such samples. | It is neither physically nor economically feasible to test on an ongoing basis for all substances in a water supply system. Each water supply system will have its own key characteristics. It is therefore common for water utilities to monitor regularly for contaminants such as disinfection by-products whereas a wide range of other non-key characteristics will only be monitored irregularly. |
| T18 | | Chemical | Number of system samples | | | n | Include samples taken at this treatment works for system performance monitoring. Exclude samples for operational monitoring. | System performance monitoring is a wide ranging assessment of the quality of the water supplied to customers. Operational monitoring is used as a trigger for immediate corrective action to improve water quality and to check equipment is working properly. Sampling location and frequency should be scheduled sampling on the basis of Attachment 2 and ADWG 2004. The number of samples reported should be those taken for system performance monitoring from representative locations in the water supply system and not those taken for operational monitoring |

Water treatment data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|--------------------------|---|---------|---------|--------|---|--|
| T19 | H4 | Chemical | Percent complying | | | % | Number of samples taken for system compliance monitoring divided by the total number of such samples. Water quality compliance data for each treatment works will be used to determine NWI indicators H2, H3 and H4 | It is neither physically nor economically feasible to test on an ongoing basis for all substances in a water supply system. Each water supply system will have its own key characteristics. It is therefore common for water utilities to monitor regularly for contaminants such as disinfection by-products whereas a wide range of other non-key characteristics will only be monitored irregularly. |
| T22 | | pH | Number of system samples | | | n | Include samples taken at this treatment works for system performance monitoring. Exclude samples for operational monitoring | System performance monitoring is a wide ranging assessment of the quality of the water supplied to customers. Operational monitoring is used as a trigger for immediate corrective action to improve water quality and to check equipment is working properly. Sampling location and frequency should be scheduled sampling on the basis of Attachment 2 and ADWG 2004. The number of samples reported should be those taken for system performance monitoring from representative locations in the water supply system and not those taken for operational monitoring |
| T23 | | pH | Percent complying | | | % | Number of samples taken for system compliance monitoring divided by the total number of such samples | It is neither physically nor economically feasible to test on an ongoing basis for all substances in a water supply system. Each water supply system will have its own key characteristics. It is therefore common for water utilities to monitor regularly for contaminants such as disinfection by-products whereas a wide range of other non-key characteristics will only be monitored irregularly. |
| T8 | | Colour | Raw water maximum | | | HU | For this treatment works only | |
| T9 | | Colour | Raw water average | | | HU | For this treatment works only | |
| T10 | | Colour | Treated water maximum | | | HU | For this treatment works only | |
| T11 | | Colour | Treated water average | | | HU | For this treatment works only | |
| T24 | | Colour | Number of system performance samples | | | n | For this treatment works only | |
| T25 | | Colour | Percent complying | | | % | For this treatment works only | |
| T12 | | Turbidity | Raw water maximum | | | NTU | For this treatment works only | |
| T13 | | Turbidity | Raw water average | | | NTU | For this treatment works only | |
| T14 | | Turbidity | Treated water maximum | | | NTU | For this treatment works only | |
| T15 | | Turbidity | Treated water average | | | NTU | For this treatment works only | |
| T20 | | Turbidity | Number of system performance samples | | | n | For this treatment works only | |
| T21 | | Turbidity | Percent complying | | | % | For this treatment works only | |
| T30 | | Non-compliance | Common reason for non-compliance | | | | | |
| T31 | | Chemical usage | Alum | | | tonnes | For this treatment works only | |
| T32 | | Chemical usage | Alkali | | | tonnes | For this treatment works only | |
| T33 | | Chemical usage | Chlorine | | | tonnes | For this treatment works only | |
| T34 | | Chemical usage | Flouride | | | tonnes | For this treatment works only | |
| T35 | | Malfunctions | Number of days chlorination system failed | | | days | For this treatment works only | |
| T36 | | Malfunctions | Number of days of major treatment process failure | | | days | For this treatment works only | |
| T37 | [C9] | Water quality complaints | Number of complaints | | | n | Include only water quality complaints from customers supplied by this treatment works. Exclude complaints about adequacy and interruptions to supply, water pressure etc. | Include complaints about discolouration, taste, odour, stained washing, illness or cloudy water. Example: complaints about milky water caused by mains flushing. |
| T38 | | Water quality complaints | Common complaint 1 | | | | Most frequent water quality complaint from customers supplied by this treatment works only | |
| T39 | | Water quality complaints | Common complaint 2 | | | | | |

Sewerage business data

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|--------------------------------------|--|---------|---------|------|---|---|
| 1 | C5 | Population served | Permanent | | | n | Population served with sewerage service in June this reporting year | Exclude population in non-serviced areas |
| 2 | | Population served | Peak | | | n | Maximum population served anytime this reporting year | Permanent population plus temporary influx (tourists, seasonal workers). Exclude population in non-serviced areas |
| 3 | A4 | Treatment works | Number | | | n | Include all primary, secondary and tertiary treatment works | |
| 4 | | Treatment works | Capacity | | | EP | | |
| 5 | | Pumping stations | Number | | | n | | |
| 6 | | Pumping stations | Capacity | | | ML/d | | |
| 7 | A5 | Sewage mains | Gravity / reticulation length | | | km | Length of mains, including trunk and reticulation mains, aqueducts etc. of all diameters. | Exclude pressure (rising) mains. Exclude property or house connections and conduits carrying treated effluent |
| 8 | A5 | Sewage mains | Pressure / Rising length | | | km | Length of pressure (rising) mains. | |
| 9 | A5 | Sewage mains | Total length | | | km | | |
| 10 | | Renewals | Mains renewed / replaced in reporting year | | | km | Include existing mains renewed or replaced in the reporting year. Exclude maintenance work (Sect 5 of NSW Local Government Asset Accounting Manual, 1999) | |
| 11 | | Renewals | Property connections renewed / replaced in reporting year | | | n | A house or property connection is a short sewer owned and operated by your utility which connects the main sewer and the customer sanitary drain | |
| 12 | | New residential connections | New residences connected | | | n | Number of new residences connected this reporting year | Include each individual flat, villa, unit, townhouse etc. whether separately metered or not |
| 13 | [C6] | Assessments | Residential | | | n | Residential assessments for sewerage services. Include vacant lots | |
| 14 | [C7] | Assessments | Non-residential | | | n | Non-residential assessments for sewerage services. Include vacant lots | |
| 17 | [C8] | Assessments | Total assessments | | | n | Sum of (13) and (14) | |
| 18 | [C8] | Connected Property-Assessment ratios | Connected properties / total assessments | | | n | See notes for (19) | |
| 18a | [C6] | Connected Property-Assessment ratios | Residential assessments / total assessments | | | n | See notes for (19) | |
| 19 | [C6] | Connected Property-Assessment ratios | Connected residential properties / residential assessments | | | n | These ratios do not vary significantly from year to year for sewerage systems. NOW has worked with LWUs to establish these ratios and will continue to use the existing ratio shown. If you consider that another ratio is more appropriate, you will need to provide detailed evidence to NOW to support such a change. Evidence that would be required includes the number of residential (single and multi) and non-residential assessments and connected properties from your financial, water and sewerage reports over the last 3 years together with details of vacant lots and new properties connected. Note that ratios are stored as floating decimals but are displayed on this page to two decimal places only | Connected properties are not the same as assessments. Connected properties rather than assessments are used for consistency with the National Performance Framework 2009-10. A connected property is one which is connected to the sewerage system but which may or may not have a separate assessment |
| 20 | | Unserviced in reporting year | Unserviced urban properties | | | n | Number of properties in urban zoned land in towns and villages in your utility's area of operations that are not served by a reticulated public sewerage service | Exclude premises in land zoned rural residential. Information on the unserviced urban properties and population of each village is available in your LWU's sewerage strategic business plan. |
| 21 | | Unserviced in reporting year | Unserviced urban population | | | n | Estimated permanent population in unserviced urban properties | |
| 34 | [C13] | Complaints | Sewage chokes | | | n | Complaints relating to sewage chokes. Exclude odour, billing and sewerage service complaints. Exclude queries. | |
| 38 | [C11] | Complaints | Service | | | n | Complaints other than chokes, odour or billing. Exclude queries. | Include complaints concerning sewerage system reliability, trade waste services, behaviour of staff and all other sewerage issues. Exclude complaints about chokes, odour or billing. Australian Standard AS ISO 10002-2006 refers. |
| 35 | | Complaints | Common service complaint 1 | | | | Most frequent service complaints should be entered in these two fields | |
| 36 | | Complaints | Common service complaint 2 | | | | | |
| 37 | [C12] | Complaints | Billing | | | n | Complaints concerning account payment, financial loss or overcharging and billing errors. Exclude queries. | Exclude complaints about government pricing policy, the tariff structure or queries about how the tariff is calculated |
| 39 | [C11] | Complaints | Odour | | | n | Sum of odour complaints for treatment works, pumping stations and pipe network in your sewerage business | See Sewage Treatment/Service Levels NSW References 68 and 69 |
| 40 | [C13] | Complaints | All complaints | | | n | Sum of complaints | A complaint is a written or verbal expression of dissatisfaction about an action, proposed action or failure to act by the water utility, its employees or contractors. Complaints from separate customers arising from the same cause count as separate complaints. Includes complaints received by the utility in person, by mail, by fax, phone, email or text message |

Sewerage business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|--------------------------|--|---------|---------|------|--|--|
| 41 | C14 | Telephone connect time | Percent of calls answered by an operator within 30 seconds | | | % | Percentage of calls answered by an operator within 30 seconds. If a percentage is provided for Water indicator 103, do not provide a percentage here. | If your utility does not record the "time to connect to telephone" leave this indicator blank. Exclude calls resolved by automated systems, hang-ups or where the customer has selected an incorrect dialling option. Examples: if a customer elects to speak with an operator via automatic dialling, the connect time is from the time when the customer was connected by the system until it is answered by an operator. The connect time starts when the call gets connected by person, (in which case the connect time would be zero), by an auto attendant (IVR) or by a message informing the caller they have been put in a queue. The connect time finishes when the caller is answered by a person. If the caller hangs up before they speak to a person, the call is not counted. Similarly, if the caller's question is answered by an IVR, meaning they don't need to speak to an operator, the call is not counted |
| 43 | [C16] | Unplanned interruptions | Average sewerage interruption | | | min | Measured from time when utility is aware that sewerage services are no longer available. This is an average based on the total minutes of all interruptions divided by the total number of interruptions. | Exclude planned interruptions, repair times relating to breaks, chokes and leaks in the property connection and time for site restoration. Include un-notified interruptions caused by third parties |
| 44 | | Public health incidents | Category 1 incidents | | | n | Incidents with no or inconsequential public health effects | Example: minor failure of sewage treatment processes |
| 45 | | Public health incidents | Category 2 incidents | | | n | Incidents with a limited public health impact | Examples: an algal outbreak in receiving waters attributable to sewerage system; issue of public notice with receiving waters; sewer overflow affecting public access to land or water; sewage contamination of fishing or recreational water areas; a failure of effluent disinfection system; a failure of major treatment processes at a treatment works of more than 4 days; an incident resulting in unplanned interruptions to service of more than 3 days (if more than 20 days, report as Category 3); a chlorine leak |
| 46 | | Public health incidents | Category 3 incidents | | | n | Incidents with a major impact on public health | Examples: an outbreak of water borne disease due to sewerage system; hospitalisations from water borne disease due to sewerage system; contamination of an oyster farming area; sewer overflow into a water supply catchment; an incident resulting in unplanned interruptions to service of more than 20 days |
| 47 | | Public health incidents | Category 3 incidents detail | | | | | |
| 48 | | Public health investment | Capital investment to improve health performance | | | \$k | Capital expenditure with the principal outcome of improved health performance | This indicator highlights public health improvement and innovation. Include expenditure undertaken for compliance purposes having IMPROVED performance as an outcome. Include new treatment works. Exclude renewals. (Enter \$111,500 as 111.5, \$3,999,000 as 3999 etc) |
| 49 | | Resources and training | Total workforce in sewerage business | | | FTE | A full-time employee has an FTE of 1. Part-time and casual employees will have an FTE of less than one based on hours employed. | Include sewerage business employees engaged in operation, maintenance and management including billing. Include equivalent contractor employees. Exclude employees engaged on design and construction |
| 50 | | Resources and training | Female workforce | | | FTE | | |
| 51 | | Resources and training | Workforce receiving 2 or more training days | | | FTE | The training days FTE of sewerage business employees that have undertaken at least 2 days of training in the reporting year. This number will be less than or equal to the workforce FTE | The training days FTE of a casual or part-time employee is the FTE of that employee multiplied by the number of days that employee trained in the reporting year |
| 52 | | Days lost | Total days lost | | | FTE | Total FTE days lost for sewerage business | Include days lost due to workplace injury, disease and industrial action. Exclude recreation leave, long-service leave, public holidays, rostered days off or flexi-leave, maternity leave, jury duty, leave for Army Reserve training, etc. Exclude days lost for staff engaged in design or construction |
| 53 | | Days lost | Confirmed injuries | | | n | Include sewerage business injuries that resulted in a fatality, permanent disability or time lost from work of one day or more. Include injuries for equivalent contractor employees. Exclude injuries for employees engaged in design or construction | |
| 54 | | Days lost | Days lost due to injury | | | FTE | Total FTE days lost due to injury | Include days lost for injuries for equivalent contractor employees. Exclude days lost for injuries for employees engaged in design or construction |
| 57 | | Workforce outsourced | Management costs outsourced | | | % | The percentages expended by the sewerage business on outsourcing of management, operational and maintenance costs | |
| 58 | | Workforce outsourced | Operational costs outsourced | | | % | | |
| 59 | | Workforce outsourced | Maintenance costs outsourced | | | % | | Outsourcing is subcontracting part of the operation and/or management of a utility's business to a third party, where the subcontractor undertakes work that would normally be done by the utility's workforce. Include legal work, electrical maintenance, operation of a treatment works etc. |
| 60 | | Community | Reduction in fees and charges to community organisations | | | \$k | The value of reductions in fees or charges permitted by legislation which are provided by the sewerage business to the community. Exclude pensioner rebates | Utilities may elect to provide reduced fees and charges for certain non-profit and community organisations and charities (including non-rateable properties) as permitted by legislation. This indicator reports the total amount of reductions provided to such community organisations in comparison with the standard fees and charges for non-residential customers. |
| 61 | | Developer charges | Typical developer charge for this reporting year | | | \$ | The typical developer charge per equivalent tenement determined to recover part of the cost of sewerage infrastructure for new developments. | |

Sewerage business data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|---|---|---------|---------|----------|--|--|
| 62 | | Developer charges | Typical developer charge for next reporting year | | | \$ | | |
| 63a | | Overflows and chokes | Overflows | | | n | Include all overflows/surcharges in utility sewers, access chambers and pumping stations in any weather | Include contained and uncontained spills. Count each access chamber, pumping station etc. overflow as one overflow. Exclude spills or overflow caused by a blockage in the property connection sewer or customers house drains. Exclude overflows contained within emergency storages where there is no pollution of the environment |
| 63b | [E13] | Overflows and chokes | Reported overflows (new indicator 2008/09) | | | n | Overflows/surcharges reported to the environmental regulator | Exclude overflows/surcharges not reported to the environmental regulator |
| 64 | [A14] | Overflows and chokes | Sewerage main breaks and chokes (new indicator 2009-10) | | | n | Confirmed partial or total blockages, or failures in a reticulation (gravity) sewer resulting in an interruption to the sewerage service | Exclude breaks and chokes in rising mains, property connections or chokes within customers house drains. Exclude pipelines carrying treated effluent. |
| 65 | | Overflows and chokes | Rising / pressure main chokes and breaks | | | n | Confirmed chokes, breaks and leaks in sewer rising (pressure) mains resulting in a significant interruption to the sewerage service | |
| 66 | | Overflows and chokes | Sewer chokes and breaks attended within 5 hours | | | n | | |
| 67 | [A15] | Overflows and chokes | Property connection sewer breaks and chokes (new indicator 2009-10) | | | n | Chokes, breaks or leaks in property connections resulting in an interruption to the sewerage service | Exclude blockages in customer's house drains (internal drains) |
| 69 | | Environmental incidents | Category 1 incidents | | | n | Incidents with little or no impact on the environment | Examples: a reportable incident but not a breach of environmental regulations; an incident resulting in under 4 days of odour or noise complaints; a minor spillage of non-toxic chemicals or sludge to waterway or land |
| 70 | | Environmental incidents | Category 2 incidents | | | n | Incidents with limited and non-permanent impact on the environment | Examples: a minor breach of environmental regulations eg. non maintenance of the required environmental flows; an incident resulting in over 4 days of odour or noise complaints; a major soil erosion incident requiring remediation; a significant chemical or sludge spill to waterway or land |
| 71 | | Environmental incidents | Category 3 incidents | | | n | Incidents with major and irreversible impact on the environment | Examples: a dry weather sewer overflow; a major breach of environmental regulations; a major wet weather sewer overflow or an overflow for more than 3 hours; a failure of STW resulting in discharge of large volumes of untreated sewage to the environment; a major toxic chemical or sludge spill into waterways; widespread destruction of native forests/ecosystems; embankment failure of a sludge lagoon |
| 72 | | Environmental incidents | Category 3 incidents detail | | | | | |
| 73 | | Environmental management | Environmental management plan? | | | Y/N | | |
| 74 | | Environmental management | Plan developed in consultation with other bodies including Catchment Management Board | | | Y/N | | |
| 75 | | Environmental management | Environmental consultative process in place | | | Y/N | | |
| 76 | | Environmental management | Capital investment to improve environmental performance | | | \$k | Capital expenditure with the principal outcome of improved environmental performance | This indicator highlights environmental improvement and innovation. Include expenditure undertaken for compliance purposes having IMPROVED performance as an outcome. Include new treatment works. Exclude renewals. (Enter \$111,500 as 111.5, \$3,999,000 as 3999 etc) |
| 77 | | Energy | Non-renewable energy | | | MWh | | |
| 78 | | Energy | Renewable energy | | | MWh | Energy derived from accredited renewable sources used by the sewerage business | |
| 79 | | Energy | Total energy | | | MWh | Sum of (77) and (78) | |
| 80a | E10 | Greenhouse gas emissions - sewerage service | Operating emissions | | | t CO2 eq | Greenhouse gas emissions for all operations relating to sewerage service | The Greenhouse Gas calculator provided to you by the NSW Office of Water will simplify this task (copy available in Appendix G of the 2009-10 NSW Water Supply and Sewerage Benchmarking Report). |
| 80b | E11 | Greenhouse gas emissions - sewerage service | Net administrative emissions | | | t CO2 eq | Net greenhouse gas emissions for other sewerage service activities (transport, office buildings and sequestration). If your utility cannot split this value between sewerage and water, leave this field blank and place the consolidated value under water business at NSW Reference 148b | The Greenhouse Gas calculator provided to you by the NSW Office of Water will simplify this task (copy available in Appendix G of the 2009-10 NSW Water Supply and Sewerage Benchmarking Report). |

Sewage treatment data

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|---------------------------|--|---------|---------|------|---|---|
| T1 | | Works parameters | Year built / augmented | | | year | Year of commissioning or latest major augmentation | |
| T10 | | Works parameters | Design capacity | | | EP | | |
| T2 | | Works parameters | Type of works | | | | For multiple processes, hold the Control key and select the processes used | |
| T3 | | Works parameters | Standard of treatment | | | | | |
| T5 | | Works parameters | Nitrogen removal | | | Y/N | Select yes only if at least 90% of nitrogen is removed from effluent | |
| T6 | | Works parameters | Phosphorus removal | | | Y/N | Select yes only if this treatment works operates either a chemical dosing facility to precipitate phosphorus or a carefully managed biological nutrient removal (BNR) system | |
| T7a | | Qualifications | Operator 1 qualification | | | | Highest qualification obtained by this operator | |
| T7e | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T7b | | Qualifications | Operator 2 qualification | | | | Highest qualification obtained by this operator | |
| T7f | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T7c | | Qualifications | Operator 3 qualification | | | | Highest qualification obtained by this operator | |
| T7g | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T7d | | Qualifications | Operator 4 qualification | | | | Highest qualification obtained by this operator | |
| T7h | | Qualifications | Year of qualification / update | | | year | Year qualification obtained or updated | |
| T67 | | Malfunctions | Number of days of major treatment process failure | | | days | Include days when a significant treatment process was not operating. Exclude periods due to routine maintenance | Include loss of MLSS and odour production |
| T68 | [C11] | Odour complaints | Number of odour complaints from this treatment works | | | n | Exclude complaints that have been investigated and can be shown not to arise from this treatment works | A complaint is a written or verbal expression of dissatisfaction about an action, proposed action or failure to act by the utility, its employees or contractors. Complaints from separate customers arising from the same cause count as separate complaints. Includes complaints received by the water business in person, by mail, fax, phone, email or text message |
| T69 | [C11] | Odour complaints | Number of odour complaints from pumping stations and the sewerage network in this treatment work's catchment | | | n | Exclude complaints that have been investigated and can be shown not to arise from the network or pumping stations | |
| T8 | | Compliance summary | Licence expiry date | | | date | | |
| T9 | | Compliance summary | Volume licenced | | | ML/d | | |
| T64 | E7 | Compliance summary | Compliance with environmental regulators | | | Y/N | Compliance occurs when the licence conditions prescribed for the treatment plant and all attached system components (network, treatment, recycling and disposal) have been met. | Non-compliance is where your utility did not meet licence conditions, or received a financial penalty (>\$10,000) or had any successful litigation against it, by the environmental regulator. Include: penalties relating to infringements occurring in a previous reporting year. |
| T65 | | Compliance summary | Penalty or litigation for non-compliance | | | Y/N | Include successful litigation against your utility by an environmental regulator, a financial penalty, any other penalty imposed by an environmental regulator | |
| T66 | | Compliance summary | Details of penalty or litigation | | | | Provide brief details of penalties and litigation | |
| T49 | | Biochemical oxygen demand | 90th percentile limit | | | mg/L | The limit shown is reproduced from this plant's EPA licence. 100 percentile limits are shown where 90th percentiles are not specified. Absence of a value indicates that no limit is specified. | |
| T50 | | Biochemical oxygen demand | Percent compliance | | | % | Where the licence specifies a 90th percentile limit and the number of complying samples divided by the total number of scheduled samples is greater than 90%, compliance is deemed to be 100% | |
| T51 | | Total suspended solids | 90th percentile limit | | | mg/L | The limit shown is reproduced from this plant's EPA licence. 100 percentile limits are shown where 90th percentiles are not specified. Absence of a value indicates that no limit is specified. | |
| T52 | | Total suspended solids | Percent compliance | | | % | Where the licence specifies a 90th percentile limit and the number of complying samples divided by the total number of scheduled samples is greater than 90%, compliance is deemed to be 100% | |
| T53 | | Nitrogen (total) | 90th percentile limit | | | mg/L | The limit shown is reproduced from this plant's EPA licence. 100 percentile limits are shown where 90th percentiles are not specified. Absence of a value indicates that no limit is specified. | |

Sewage treatment data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|---------------------------------|-----------------------------------|---------|---------|-----------|---|---|
| T54 | | Nitrogen (total) | Percent compliance | | | % | Where the licence specifies a 90th percentile limit and the number of complying samples divided by the total number of scheduled samples is greater than 90%, compliance is deemed to be 100% | |
| T57 | | Oil and grease | 90th percentile limit | | | mg/L | The limit shown is reproduced from this plant's EPA licence. 100 percentile limits are shown where 90th percentiles are not specified. Absence of a value indicates that no limit is specified. | |
| T58 | | Oil and grease | Percent compliance | | | % | Where the licence specifies a 90th percentile limit and the number of complying samples divided by the total number of scheduled samples is greater than 90%, compliance is deemed to be 100% | |
| T59 | | Phosphorus (total) | 90th percentile limit | | | mg/L | The limit shown is reproduced from this plant's EPA licence. 100 percentile limits are shown where 90th percentiles are not specified. Absence of a value indicates that no limit is specified. | |
| T60 | | Phosphorus (total) | Percent compliance | | | % | Where the licence specifies a 90th percentile limit and the number of complying samples divided by the total number of scheduled samples is greater than 90%, compliance is deemed to be 100% | |
| T61 | | Faecal coliforms | 90th percentile limit | | | cfu/100mL | The limit shown is reproduced from this plant's EPA licence. 100 percentile limits are shown where 90th percentiles are not specified. Absence of a value indicates that no limit is specified. | |
| T62 | | Faecal coliforms | Percent compliance | | | % | Where the licence specifies a 90th percentile limit and the number of complying samples divided by the total number of scheduled samples is greater than 90%, compliance is deemed to be 100% | |
| T63 | | Sampling days | Number of scheduled sampling days | | | days | The scheduled sampling days are those specified in the treatment work's licence | |
| T32 | [W16] | Volumes collected by this works | Network residential | | | ML | Estimated network residential sewage | |
| T33 | [W16] | Volumes collected by this works | Network non-residential | | | ML | Estimated network non-residential sewage | |
| T31 | [W16] | Volumes collected by this works | Network infiltration / inflow | | | ML | Estimated groundwater infiltration and stormwater inflow | |
| T34 | W17 | Volumes collected by this works | Network trade waste | | | ML | Estimated non-metered and metered network trade waste | |
| T12 | [W16] | Volumes collected by this works | Tankered septic tank effluent | | | kL | Enter volume in kilolitres not Megalitres | |
| T13 | [W16] | Volumes collected by this works | Tankered septic sludge / pan | | | kL | Enter volume in kilolitres not Megalitres | |
| T14 | [W16] | Volumes collected by this works | Tankered grease trap waste | | | kL | Enter volume in kilolitres not Megalitres | |
| T15 | W18 | Volumes collected by this works | Total sewage collected | | | ML | Sum of (20) to (24a) | |
| T16 | | Volumes treated by this works | No treatment | | | ML | | |
| T17 | E1 | Volumes treated by this works | Primary treatment only | | | ML | Include only volume treated to remove suspended solids (primary standard). Exclude volumes treated to secondary or tertiary standard. | Primary treatment may include screening, clarification and grease removal. |
| T18 | E2 | Volumes treated by this works | Secondary treatment only | | | ML | Include only volume treated to primary standard with further polishing of effluent to reduce at least 85% of biochemical oxygen demand and suspended solids (secondary standard). Exclude volume treated to primary standard only or tertiary standard. | Secondary treatment may include a polishing step, activated sludge, anaerobic/aerobic processes, biological/sand filtration and lagoon sedimentation. |
| T19 | E3 | Volumes treated by this works | Tertiary treatment only | | | ML | Include only volume treated to secondary standard with further disinfection of effluent and filtering to remove nutrients and nitrogen using artificial wetland, ponds, chlorination, ozonation or UV treatment (tertiary standard). Exclude volume treated to primary or secondary standard only | Tertiary treatment may include biological/chemical dosing nutrient removal, reverse osmosis, advanced filtration systems, membrane bioreactors and secondary treatment with wetland nutrient removal. |

Sewage treatment data (continued)

| NSW No. | NWI No. | Indicator Group | Reported Indicator | 2009/10 | Acc/Rel | Unit | Indicator Definition | Instruction |
|---------|---------|----------------------------------|---|---------|---------|--------|---|--|
| T20 | W22 | Volumes recycled by this works | Agriculture | | | ML | Total metered and estimated non-metered supply. Include horticulture, viticulture, forestry and pasture improvement. Exclude environmental flows. | |
| T21 | [W21] | Volumes recycled by this works | Municipal / Institutional | | | ML | Total metered and estimated non-metered supply. Include supply to race-courses, parks, gardens, ovals and golf-courses. | |
| T22 | [W21] | Volumes recycled by this works | Industrial / Commercial | | | ML | Total metered and estimated non-metered supply. Include supply to mine sites. | |
| T23 | [W20] | Volumes recycled by this works | Residential | | | ML | Total metered and estimated non-metered supply. Include supply to all urban zone residences. | |
| T24a | W25 | Volumes recycled by this works | Other | | | ML | Total metered and estimated non-metered supply. Include recycled water used for fire fighting, mains flushing and other uses. Include estimated leakage and customer meter error. | |
| T24 | [W24] | Volumes recycled by this works | Sewage treatment works | | | ML | Total metered and estimated non-metered supply. Include supply for on-site reuse . Exclude volumes used to support the treatment process. Exclude evaporation loss. | On-site reuse includes landscape watering and toilet flushing. Exclude treatment process maintenance such as screen and filter cleaning etc. |
| T24b | [W21] | Volumes recycled by this works | Environmental (new indicator 2008/09) | | | ML | Include discharge to a waterway for environmental purposes. Such discharge must be approved by the environmental regulator as meeting the definition of environmental flow. | To provide a net benefit to the environment, recycled water must meet quality standards determined by the environmental regulator. Exclude volumes disposed to forest and bushland unless otherwise endorsed by the regulator. |
| T24c | [W21] | Volumes recycled by this works | Bulk sales (recycled) | | | ML | Include recycled water sold to another utility or entity outside your utility's geographic area of responsibility. | |
| T25 | W26 | Volumes recycled by this works | Total volume reused | | | ML | | |
| T25a | | Charges | Usage charge for recycled town water | | | c/KL | | |
| T26X | [E8] | Biosolids produced by this works | Mass extracted | | | tonnes | Include stabilised organic solids extracted from effluent. Exclude screened inorganic material | |
| T27 | E8 | Biosolids produced by this works | Percentage of mass reused | | | % | Include application as a soil conditioner on land used for agriculture or forestry, rehabilitation of mine and industrial sites and general landscaping. Include use in manufacturing other products. Include energy generation. Exclude landfill | |
| T29 | | Biosolids produced by this works | Percent of total disposed to landfill | | | % | Include injection below ground level, burial and disposal to tip or treatment works site. | |
| T30 | | Biosolids produced by this works | Percent to other | | | % | Include incineration | |
| T36 | | Large trade waste dischargers | Number of LTWDs | | | n | A large trade waste discharger (LTWD) is one approved to discharge over 20 kL/d into the sewerage system | |
| T37 | | Large trade waste dischargers | Maximum daily volume | | | kL/d | | |
| T38 | | Large trade waste dischargers | Equivalent BOD load | | | EP | Total approved trade waste BOD-5 concentration converted to EP | $EP = (\text{concentration (mg/L)} \times \text{discharge volume (kL/d)})/70$ |
| T39 | | Large trade waste dischargers | Equivalent TSS load | | | EP | Total approved trade waste SS concentration converted to EP | $EP = (\text{concentration (mg/L)} \times \text{discharge volume (kL/d)})/70$ |
| T40 | | Discharge | Volume disposed to ocean | | | ML | Include effluent disposed within estuaries | |
| T41 | | Discharge | Volume disposed to river / creek | | | ML | Include effluent disposed to wetlands connected to a river or creek. Exclude disposal within estuaries | |
| T42 | | Discharge | Volume disposed to land | | | ML | Include effluent disposed to evaporation basins, dunes and exfiltration beds | |
| T43 | | Flow data | Average dry weather flow permanent population | | | L/s | | Summed values of dry weather flows outside peak population periods divided by number of these records |
| T44 | | Flow data | Average dry weather flow peak population | | | L/s | | Summed values of dry weather flows during peak population periods divided by number of these records |
| T45 | | Flow data | Peak dry weather flow - permanent population | | | L/s | Maximum flow rate recorded during dry weather outside peak population periods | |
| T46 | | Flow data | Peak dry weather flow - peak population | | | L/s | Maximum flow rate recorded during dry weather during peak population periods | |
| T48 | | Flow data | Peak 1 hour wet weather flow | | | L/s | Maximum volume recorded in any 1 hour period following a wet weather event during the reporting year. | |
| T47 | | Flow data | Peak 24 hr wet weather volume | | | ML | Maximum volume recorded in any 24 hour period following a wet weather event during the reporting year. | |

Australian Drinking Water Guidelines 2004 – Sampling location and frequency

Guidelines

The Australian Drinking Water Guidelines 2004 (NHMRC/NRMMC) supersede the 1996 Guidelines. The **main difference** between the 2004 Guidelines and those of 1996 is that the new Guidelines include the Framework for Management of Drinking Water Quality. The Framework incorporates a preventative risk management approach to water supply system management.

The Guidelines outline the aesthetic and health characteristics required for good quality drinking water. NSW local water utilities (LWUs) are required to adopt a 'best practice' approach for the supply of drinking water using the Framework for Management of Drinking Water Quality (Public Health Act 2010). In addition, the *Best-Practice Management of Water Supply and Sewerage Guidelines, 2007* strongly encourage all LWUs to prepare and implement a risk based drinking water quality management plan using relevant elements of the Framework (refer also to pages 8 and 9 of the *2009-10 NSW Water Supply and Sewerage Benchmarking Report*). The measurable characteristics fall into the following categories:

- Microbiological
- Physical
- Chemical
- Radiological.

For each characteristic, the Guidelines identify three parameters, namely location of sampling, frequency of sampling and acceptable performance measures. Compliance requires that all three parameters be satisfied.

Table I indicates the number of microbiological samples required annually for systems supplying populations of 5,000, 10,000, 20,000, 50,000 and 100,000 respectively is 52, 64, 88, 160 and 280. See note to Table 1.

Sampling location

Samples for system performance monitoring should be taken from representative locations within the system. These should include headworks, service reservoirs, the start of the distribution system and at representative points throughout the distribution system. Suggested locations for each characteristic are shown on pages 10.16 to 10.19 (all references to page numbers below refer to the 2004 Guidelines). NSW Health recommends that drinking water quality monitoring rotate amongst designated sample sites throughout the distribution system. Sample sites should give good geographical representation of the water supply system and enable the comparison of water quality over time for particular sections of the system.

Sampling frequency

The frequency of sampling is dependent on the type of characteristic. The suggested sampling frequency for various water supply characteristics are shown on pages 10.16 to 10.19.

The sampling frequency required for microbiological quality is provided on page 10.5 and summarised in Table 1. The frequency should be increased following repair work, interruptions to supply, at times of flooding or during/after emergency operations. With small water supply systems, periodic sanitary surveys are likely to yield more information than infrequent sampling.

Table 1 – Microbiological quality sampling frequency*

| Population | Recommended no. of samples |
|------------------|---|
| <1,000 | Refer to pages 10.14 to 10.15 of the Guidelines. |
| 1,000 to 5,000 | 1 sample per week. |
| 5,000 to 100,000 | 1 sample per week plus 1 per month for each 5,000 above 5,000 population. |
| >100,000 | 6 samples per week plus 1 per month for each 10,000 above 100,000 population. |

* Note: the actual sample numbers recommended under the NSW Health Drinking Water Monitoring Program reflect the complexity of the system as well as population.

Sampling for the key physical characteristics should be carried out as shown in Table 2 where these are significant.

Table 2 – Physical Quality Sampling Frequency+

| Characteristic | Sampling frequency |
|-----------------------|--|
| pH, turbidity, colour | Fortnightly at water treatment works or chlorinator. Monthly sample to lab in systems serving a population of 5,000 or more, otherwise biannually. |
| Hardness | Quarterly. |

+ All of these are aesthetic (non-health related). However, turbidity >1 may reduce the effectiveness of disinfection.

Sampling for the full range of chemical characteristics should be carried out biannually. In addition, tests for key characteristics of a particular water supply should be undertaken more frequently as shown in Table 3 where these are significant.

Table 3 – Chemical quality sampling frequency#

| Characteristic | Sampling frequency |
|---|---|
| Fluoride | Daily if the water supply is fluoridated |
| Aluminium, antimony, arsenic, barium, boron, cadmium, calcium, chloride, chromium, copper, fluoride, iodine, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, nitrate, nitrite, selenium, silver, sodium, sulfate, zinc | Monthly in systems serving a population of 5,000 or more, otherwise biannually. |

All of these chemicals are health related with the exception of:

- aluminium, calcium, chloride, iron, magnesium and zinc
- sodium which may be of concern to people on a low-sodium diet.

Radiological sampling should be assessed when a new water supply is brought into service, and then every two years for groundwater supplies and every five years for surface water supplies (page 10.14).

In order to satisfy the guidelines it may be necessary to carry out more frequent monitoring for some characteristics. Each water utility should carry out a detailed assessment of its water supply system when planning a monitoring program.

Performance

Performance is regarded as satisfactory if over the preceding 12 months sampling location and frequency have complied with the Guidelines, and all guidelines values for each characteristic have been met. Guidelines values for microbiological characteristics are shown on page 10.21 and are summarised in Table 4.

Table 4 – Microbiological performance

| Indicator | Guidelines value |
|---|--|
| Performance is regarded as satisfactory if, over the preceding 12 months: | |
| E.coli | At least 98% of scheduled samples contain no E. coli |

Guidelines values for physical and chemical characteristics are shown on pages 10.22 to 10.26. Health related physical and chemical water quality is satisfactory if, over the preceding 12 months, 95 per cent of the results are less than the guidelines value (page 10.20). For non health related characteristics, water quality is satisfactory if the mean of results is less than the guidelines value (page 10.20).

Examples of environmental and public health incidents

Water supply

Environmental incidents (NSW Indicator Nos 137 to 140 on page 191)

Category 1 – Minor incidents with inconsequential effects

- A reportable incident but not a breach of environmental regulations.
- An incident resulting in under four days of odour or noise complaints.
- A minor spillage of non-toxic chemicals or sludge to waterway or land.

Category 2 – Incident with limited environmental effects

- A minor breach of environmental regulations, e.g. non maintenance of the required environmental flows.
- An incident resulting in over four days of odour or noise complaints.
- A major soil erosion incident requiring remediation.
- A significant chemical or sludge spill to waterway or land.

Category 3 – Severe incident with irreversible environmental effects

- A major breach of environmental regulations.
- A dam failure.
- A severe algal outbreak in storages/waterways.
- A major toxic chemical or sludge spill into waterways.
- Widespread destruction of native forests/ecosystems.

Public health incidents (NSW Indicator Nos 115 to 118 on pages 189 and 190)

Category 1 – Minor incidents with inconsequential effects

- A minor failure of water treatment processes.
- An incident resulting in a limited boil water notice.

Category 2 – Incidents with limited health effects

- Non-compliance with health parameters (E. coli) of 2004 NHMRC/NRMMC water quality guidelines for over seven days.

- A system-wide boil water notice.
- A failure of a disinfection system for over three days.
- A failure of major treatment processes at a treatment works for over four days.
- A chlorine or ammonia gas leak (chlorination/chloramination).
- Non-pathogenic/toxic contamination of the potable water supply due to a cross connection.
- An incident resulting in unplanned interruptions to supply for over two days (if over seven days report as Category 3).

Category 3 – Incidents with major health effects

- An outbreak of water borne disease due to water supply system.
- Hospitalisations from water borne disease due to water supply.
- An incident resulting in unplanned interruptions to supply for over seven days.
- A pathogenic contamination of the potable water supply due to a cross connection.
- A toxic contamination of water supply.

Notes:

1. Environmental regulations include any licence conditions.
2. An incident with both environmental and public health impacts should be reported in both categories.

Sewerage

Environmental incidents (NSW Indicator Nos 69 to 72 on page 196)

Category 1 – Minor Incidents with Inconsequential Effects

- A reportable incident but not a breach of environmental regulations
- An incident resulting in under 4 days of odour or noise complaints
- A minor spillage of non-toxic chemicals or sludge to waterway or land

Category 2 – Incident with limited environmental effects

- A minor breach of environmental regulations, e.g.:
 - discharge of partially treated effluent to receiving waters
 - embankment failure of an effluent pond.
- A wet weather sewer overflow for under three hours.
- An incident resulting in over four days of odour or noise complaints.
- A major soil erosion incident requiring remediation.
- A significant chemical or sludge spill to waterways or land.

Category 3 – Severe incident with irreversible environmental effects

- A dry weather sewer overflow
- A major breach of environmental regulations, e.g.:
 - a major wet weather sewer overflow or an overflow for over three hours
 - a failure of STW, resulting in discharge of large volume of untreated sewage to environment
 - a major toxic chemical or sludge spill into waterways
 - widespread destruction of native forests/ecosystems
 - embankment failure of a sludge lagoon.

Public health incidents (NSW Indicator Nos 44 to 47 on page 195)

Category 1 – Minor Incidents with Inconsequential Effects

- A minor failure of sewage treatment processes.

Category 2 – Incidents with limited health effects

- An algal outbreak in receiving waters attributable to sewerage system.
- Issue of public no-contact notice with receiving waters.
- Sewer overflow affecting public access to land or water.
- Sewage contamination of fishing or recreational water areas.
- A failure of effluent disinfection system.
- A failure of major treatment processes at a treatment works for over four days.
- An incident resulting in unplanned interruptions to service for over three days (if over 20 days, report as Category 3).
- A chlorine leak.

Category 3 – Incidents with major health effects

- An outbreak of water borne disease due to sewerage system.
- Hospitalisations from water borne disease due to sewerage system.
- Contamination of an oyster farming area due to sewerage system.
- A sewer overflow into a water supply catchment.
- An incident resulting in unplanned interruptions to service for over 20 days.

NSW Council

Special Schedule No. 3 (continued) Water Supply – Cross-subsidies as at 30 June 2010 \$'000

Yes No Amount

D Best practice annual charges and developer charges[#]

27. Annual charges

a. Does Council have best-practice water supply annual charges and usage charges*?

| | |
|--|--|
| | |
|--|--|

If Yes, go to 28a.

If No, please report if council has removed land value from access charges (ie rates)?

| | |
|--|--|
| | |
|--|--|

* Such charges for both residential customers and non-residential customers comply with section 3.2 of *Water Supply, Sewerage and Trade Waste Pricing Guidelines*, NSW Office of Water, December, 2002. Such charges do not involved significant cross-subsidies.

b. Cross-subsidy from residential customers using less than allowance (page 25 of Guidelines)

c. Cross-subsidy to non-residential customers (page 24 of Guidelines)

d. Cross-subsidy to large connections in unmetered supplies (page 26 of Guidelines)

28. Developer charges

a. Has council completed a water supply Development Servicing** Plan?

| | |
|--|--|
| | |
|--|--|

b. Total cross-subsidy in water supply developer charges for 2009/10 (page 47 of Guidelines)

** In accordance with page 9 of *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater*, NSW Office of Water, December, 2002.

29. Disclosure of cross-subsidies

Total of cross-subsidies (27b +27c + 27d + 28b)

Councils which have not yet implemented best practice water supply pricing should disclose cross-subsidies in items 27b, 27c and 27d above.

However, disclosure of cross-subsidies is **not** required where a Council has implemented best practice pricing and is phasing in such pricing over a period of three years.

NSW Council

Special Schedule No. 4 Water Supply – Balance sheet (Gross including Internal Transactions) as at 30 June 2010 \$'000

| | Current | Non current | Total |
|--|---------|-------------|-------|
| ASSETS | | | |
| 30. Cash and investments | | | |
| a. Developer charges | | | |
| b. Special purpose grants | | | |
| c. Accrued leave | | | |
| d. Unexpended loans | | | |
| e. Sinking fund | | | |
| f. Other | | | |
| 31. Receivables | | | |
| a. Specific purpose grants | | | |
| b. Rates and charges | | | |
| c. Other | | | |
| 32. Inventories | | | |
| 33. Property, plant and equipment | | | |
| a. System assets | | | |
| b. Plant and equipment | | | |
| 34. Other assets | | | |
| 35. Total assets | | | |
| LIABILITIES | | | |
| 36. Bank overdraft | | | |
| 37. Creditors | | | |
| 38. Borrowings | | | |
| a. Loans | | | |
| b. Advances | | | |
| c. Finance leases | | | |
| 39. Provisions | | | |
| a. Tax equivalents | | | |
| b. Dividend | | | |
| c. Other | | | |
| 40. Total liabilities | | | |
| 41. Net assets committed | | | |
| EQUITY | | | |
| 42. Accumulated surplus | | | |
| 43. Asset revaluation reserve | | | |
| 44. Total equity | | | |
| Note to system assets: | | | |
| 45. Current replacement cost of system assets | | | |
| 46. Accumulated current cost depreciation of system assets | | | |
| 47. Written down current cost of system assets | | | |

NSW Council

Special Schedule No. 5 Sewerage Income Statement (Gross including Internal Transactions) as at 30 June 2010 \$'000

| | 2010 | 2009 |
|---|-------|-------|
| A Expenses and Income | | |
| Expenses | | |
| 1. Management expenses | | |
| a. Administration | | |
| b. Engineering and Supervision | | |
| 2. Operations and Maintenance Expenses | | |
| - Mains | | |
| a. Operation expenses | | |
| b. Maintenance expenses | | |
| - Pumping Stations | | |
| c. Operation expenses (excluding energy costs) | | |
| d. Energy costs | | |
| e. Maintenance expenses | | |
| - Treatment | | |
| f. Operation expenses (excluding chemical, energy, effluent and biosolids management costs) | | |
| g. Chemical costs | | |
| h. Energy costs | | |
| i. Effluent management | | |
| j. Biosolids management | | |
| k. Maintenance expenses | | |
| - Other | | |
| l. Operation expenses | | |
| m. Maintenance expenses | | |
| 3. Depreciation | | |
| a. System assets | | |
| b. Plant and equipment | | |
| 4. Miscellaneous | | |
| a. Interest expenses | | |
| b. Revaluation decrements | | |
| c. Other expenses | | |
| 5. Total expenses | <hr/> | <hr/> |
| Income | | |
| 6. Residential charges (including rates) | | |
| 7. Non-residential charges | | |
| a. Access (including rates) | | |
| b. Usage charges | | |
| 8. Trade Waste Charges | | |
| a. Annual fees | | |
| b. Usage fees | | |
| c. Excess mass charges | | |
| d. Re-inspection fees | | |
| 9. Extra charges | | |
| 10. Interest income | | |
| 11. Other income | | |
| 12. Grants | | |
| a. Grants for acquisition of assets | | |
| b. Grants for pensioner rebates | | |
| c. Other grants | | |

NSW Council

Special Schedule No. 5 (continued) Sewerage Income Statement (Gross including Internal Transactions) as at 30 June 2010 \$'000

2010 2009

A Expenses and Income (continued)

| | | | |
|------|---|--|--|
| 13. | Contributions | | |
| | a. Developer charges | | |
| | b. Developer provided assets | | |
| | c. Other contributions | | |
| 14. | Total income | | |
| 15. | Gain or loss on disposal of assets | | |
| 16. | Operating result | | |
| 16a. | Operating result (less grants for acquisition of assets) | | |

B Capital transactions

Non-operating expenditures

| | | | |
|-----|-----------------------------|--|--|
| 17. | Acquisition of Fixed Assets | | |
| | a. Subsidised scheme | | |
| | b. Other new system assets | | |
| | c. Renewals | | |
| | d. Plant and equipment | | |
| 18. | Repayment of debt | | |
| | a. Loans | | |
| | b. Advances | | |
| | c. Finance leases | | |
| 19. | Transfer to sinking fund | | |
| 20. | Totals | | |

Non-operating funds employed

| | | | |
|-----|----------------------------------|--|--|
| 21. | Proceeds from disposal of assets | | |
| 22. | Borrowing utilised | | |
| | a. Loans | | |
| | b. Advances | | |
| | c. Finance leases | | |
| 23. | Transfer from sinking fund | | |
| 24. | Totals | | |

C Rates and charges

| | | | |
|-----|---|----|----|
| 25. | Number of assessments | | |
| | a. Residential (occupied) | | |
| | b. Residential (unoccupied ie vacant lot) | | |
| | c. Non-residential (occupied) | | |
| | d. Non-residential (unoccupied ie vacant lot) | | |
| 26. | Number of ETs for which developer charges were received | | ET |
| 27. | Total amount of pensioner rebates | \$ | |

NSW Council

Special Schedule No. 5 (continued) Sewerage – Cross-subsidies as at 30 June 2010 \$'000

| | Yes | No | Amount |
|---|--------------------------|--------------------------|--------|
| D Best practice annual charges and developer charges[#] | | | |
| 28. Annual charges | | | |
| a. Does Council have best-practice sewerage annual charges, usage charges and trade waste fees and charges*? | <input type="checkbox"/> | <input type="checkbox"/> | |
| If Yes, go to 29a. | | | |
| If No, please report if council has removed land value from access charges (ie rates)? | <input type="checkbox"/> | <input type="checkbox"/> | |
| * Such charges for both residential customers and non-residential customers comply with sections 4.2 and 4.3 of <i>Water Supply, Sewerage and Trade Waste Pricing Guidelines</i> , NSW Office of Water, December, 2002. Such charges do not involved significant cross-subsidies. | | | |
| b. Cross-subsidy to non-residential customers (page 45 of Guidelines) | | | |
| c. Cross-subsidy to trade waste discharges (page 46 of Guidelines) | | | |
| 29. Developer charges | | | |
| a. Has council completed a sewerage Development Servicing** Plan? | <input type="checkbox"/> | <input type="checkbox"/> | |
| b. Total cross-subsidy in sewerage developer charges for 2009/10 (page 47 of Guidelines) | | | |
| ** In accordance with page 9 of <i>Developer Charges Guidelines for Water Supply, Sewerage and Stormwater</i> , NSW Office of Water, December, 2002. | | | |
| 30. Disclosure of cross-subsidies | | | |
| Total of cross-subsidies (28b +28c + 29b) | | | |

Councils which have not yet implemented best practice sewerage pricing and liquid trade waste pricing should disclose cross-subsidies in items 28b and 28c above.

However, disclosure of cross-subsidies is **not** required where a Council has implemented best practice sewerage and liquid trade waste pricing and is phasing in such pricing over a period of three years.

NSW Council

Special Schedule No. 6 Sewerage service – Balance sheet (Gross including Internal Transactions) as at 30 June 2010 \$'000

| | Current | Non current | Total |
|--|---------|-------------|-------|
| Assets | | | |
| 31. Cash and investments | | | |
| a. Developer charges | | | |
| b. Special purpose grants | | | |
| c. Accrued leave | | | |
| d. Unexpended loans | | | |
| e. Sinking fund | | | |
| f. Other | | | |
| 32. Receivables | | | |
| a. Specific purpose grants | | | |
| b. Rates and charges | | | |
| c. Other | | | |
| 33. Inventories | | | |
| 34. Property, plant and equipment | | | |
| a. System assets | | | |
| b. Plant and equipment | | | |
| 35. Other assets | | | |
| 36. Total assets | | | |
| Liabilities | | | |
| 37. Bank overdraft | | | |
| 38. Creditors | | | |
| 39. Borrowings | | | |
| a. Loans | | | |
| b. Advances | | | |
| c. Finance leases | | | |
| 40. Provisions | | | |
| a. Tax equivalents | | | |
| b. Dividend | | | |
| c. Other | | | |
| 41. Total liabilities | | | |
| 42. Net assets committed | | | |
| Equity | | | |
| 43. Accumulated surplus | | | |
| 44. Asset revaluation reserve | | | |
| 45. Total equity | | | |
| Note to system assets: | | | |
| 46. Current replacement cost of system assets | | | |
| 47. Accumulated current cost depreciation of system assets | | | |
| 48. Written down current cost of system assets | | | |

Notes to Special Schedules 3 and 5

Administration⁽¹⁾ (item 1a of Special Schedules 3 and 5) comprises the following:

- Administration staff:
 - Salaries and allowance
 - Travelling expenses
 - Accrual of leave entitlements
 - Employment overheads.
- Meter reading.
- Bad and doubtful debts.
- Other administrative/corporate support services.

Engineering and supervision⁽¹⁾ (item 1b of Special Schedules 3 and 5) comprises the following:

- Engineering staff:
 - Salaries and allowance
 - Travelling expenses
 - Accrual of leave entitlements
 - Employment overheads.
- Other technical and supervision staff:
 - Salaries and allowance
 - Travelling expenses
 - Accrual of leave entitlements
 - Employment overheads.

Operation expenses (item 2 of Special Schedules 3 and 5) comprise the day to day operational expenses excluding maintenance expenses.

Maintenance expenses (item 2 of Special Schedules 3 and 5) comprise the day to day repair and maintenance expenses. (Refer to Section 5 of the Local Government Asset Accounting Manual regarding capitalisation principles and the distinction between capital and maintenance expenditure).

Other expenses (item 4c of Special Schedules 3 and 5) include all expenses not recorded elsewhere.

Revaluation decrements (item 4b of Special Schedules 3 and 5) is to be used when infrastructure assets have decreased in fair value.

Residential charges⁽²⁾ (items 6a, 6b and item 6 of Special Schedules 3 and 5 respectively) include all income from residential charges. Item 6 of Schedule 3 should be separated into 6a Access Charges (including rates if applicable) and 6b User Charges. Exclude non-residential charges.

Non-residential charges⁽²⁾ (items 7a, 7b of Special Schedules 3 and 5) include all income from non-residential charges separated into 7a Access Charges (including rates if applicable) and 7b User Charges. Exclude residential charges.

Trade waste charges (item 8 of Special Schedule 5) include all income from trade waste charges separated into 8a Annual Fees, 8b Usage Charges, 8c Excess Mass Charges and 8d Re-inspection Fees.

Other income (items 10 and 11 of Special Schedules 3 and 5 respectively) include all income not recorded elsewhere.

Other contributions (items 12c and 13c of Special Schedules 3 and 5 respectively) include capital contributions for water supply or sewerage services received by Council under Section 565 of the Local Government Act.

Notes:

- (1) Administration and engineering costs for the development of capital works projects should be reported as part of the capital cost of the project and not as part of the recurrent expenditure (ie. in item 16 for water supply and item 17 for sewerage, and **not** in items 1a and 1b).
- (2) To enable accurate reporting of **residential revenue from usage charges**, it is essential for councils to accurately separate their residential (item 6) and non-residential (item 7) charges.
- (3) Particular attention should be paid to the underlined items above, which have been incorrectly reported by a number of councils.

Note 2 Water Supply Business best practice management disclosure requirements

2010

1. Calculation and Payment of Tax-Equivalents

| | | | |
|-------|--|----|---|
| (i) | Calculated Tax Equivalents | \$ | |
| (ii) | No of assessments multiplied by \$3/assessment | \$ | |
| (iii) | Amounts payable for Tax Equivalents (lesser of (i) and (ii)) | \$ | 0 |
| (iv) | Tax Equivalents paid | \$ | |

2. Dividend from Surplus

| | | | |
|-------|---|----|---|
| (i) | 50% of Surplus before Dividends (Calculated in accordance with Best Practice Management for Water Supply and Sewerage guidelines.) | \$ | |
| (ii) | No of assessments multiplied by \$30/assessment, less tax equivalent charges/assessment | \$ | |
| (iii) | Cumulative Surplus before Dividends for 3 years to 30 June 2010, less cumulative dividends paid for 2 years to 30 June 2009 | \$ | |
| (iv) | Maximum Dividend from Surplus (least of (i), (ii) and (iii)) | \$ | 0 |
| (v) | Dividend paid from Surplus | \$ | |

3. Required Outcomes for 6 Criteria

| | | | |
|-------|---|--------|--|
| (i) | Complete current Strategic Business Plan (including Financial Plan) | Yes/No | |
| (ii) | Full cost-recovery, without significant cross subsidies (Item 2(a) in Table 1 on page 22 of Best Practice Management Guidelines) Complying charges (Item 2(b) in Table 1) DSP with Commercial Developer Charges (Item 2(e) in Table 1) If Dual Water Supplies, Complying Charges (Item 2(g) in Table 1) | Yes/No | |
| (iii) | Sound Water Conservation & Demand Management implemented | Yes/No | |
| (iv) | Sound Drought Management implemented | Yes/No | |
| (v) | Complete Performance Reporting (by 15 September each year) | Yes/No | |
| (vi) | a. Complete Integrated Water Cycle Management Evaluation | Yes/No | |
| | b. Complete and implement Integrated Water Cycle Management Strategy | Yes/No | |

National Water Initiative (NWI) Financial Performance Indicators

| | | | |
|---------|---|-----------|--|
| NWI F1 | Total Revenue (Water) = Total income (w13) - Grants for acquisition of assets (w11a) - Interest income (w9) | \$ ('000) | |
| NWI F4 | Revenue from Residential Usage Charges (Water) = Income from residential usage charges (w6b) x 100 / (Income from residential usage charges (w6a) + Income from residential access charges (w6b)) | % | |
| NWI F9 | Written Down Replacement Cost of Fixed Assets (Water) = Written down current cost of system assets (w47) | \$ ('000) | |
| NWI F11 | Operating Cost (OMA) (Water) = Management expenses (w1) + Operation and maintenance expenses (w2) | \$ ('000) | |
| NWI F14 | Capital Expenditure (Water) = Acquisition of fixed assets (w16) | \$ ('000) | |
| NWI F17 | Economic Real Rate of Return (Water) = (Total income (w13) - Interest income (w9) - Grants for acquisition of assets (w11a) - Operating cost (NWI F11) - Current cost depreciation (w3)) x 100 / (Written down current cost of system assets (w47) + Plant and equipment (w33b)). | % | |
| NWI F26 | Capital Works Grants (Water) = Grants for acquisition of assets (w11a) | \$ ('000) | |

Notes:

- References to w (eg. w12) refer to item numbers in Special Schedules Nos. 3 and 4 of each Council's Annual Financial Statements.
- The NWI performance indicators are based on the National Performance Framework handbook for Urban Performance Reporting Indicators and Definitions.
The NWI indicators are to be calculated using the formulae shown above.

Note 3 Sewerage Business best practice management disclosure requirements

2010

1. Calculation and Payment of Tax-Equivalents

| | | | |
|-------|--|----|---|
| (i) | Calculated Tax Equivalents | \$ | |
| (ii) | No of assessments multiplied by \$3/assessment | \$ | |
| (iii) | Amounts payable for Tax Equivalents (lesser of (i) and (ii)) | \$ | 0 |
| (iv) | Tax Equivalents paid | \$ | |

2. Dividend from Surplus

| | | | |
|-------|---|----|---|
| (i) | 50% of Surplus before Dividends (Calculated in accordance with Best Practice Management for Water Supply and Sewerage guidelines.) | \$ | |
| (ii) | No of assessments multiplied by \$30/assessment, less tax equivalent charges/assessment | \$ | |
| (iii) | Cumulative Surplus before Dividends for 3 years to 30 June 2010, less cumulative dividends paid for 2 years to 30 June 2009 | \$ | |
| (iv) | Maximum Dividend from Surplus (least of (i), (ii) and (iii)) | \$ | 0 |
| (v) | Dividend paid from Surplus | \$ | |

3. Required Outcomes for 4 Criteria

| | | | |
|-------|---|--------|--|
| (i) | Complete current Strategic Business Plan (including Financial Plan) | Yes/No | |
| (ii) | Pricing with full cost-recovery, without significant cross subsidies (Item 2(a) in Table 1 on page 22 of Best Practice guidelines) | Yes/No | |
| | Complying charges (a) Residential (Item 2(c) in Table 1) | Yes/No | |
| | (b) Non-Residential (Item 2(c) in Table 1) | Yes/No | |
| | (c) Trade Waste (Item 2(d) in Table 1) | Yes/No | |
| | DSP with Commercial Developer Charges (Item 2(e) in Table 1) | Yes/No | |
| | Liquid Trade Waste Approvals & Policy (Item 2(f) in Table 1) | Yes/No | |
| (iii) | Complete Performance Reporting Form (by 15 September each year) | Yes/No | |
| (iv) | a. Complete Integrated Water Cycle Management Evaluation | Yes/No | |
| | b. Complete and implement Integrated Water Cycle Management Strategy | Yes/No | |

National Water Initiative (NWI) Financial Performance Indicators

| | | | |
|---------|---|-----------|--|
| NWI F2 | Total Revenue (Sewerage) = Total income (s14) - Grants for acquisition of assets (s12a) - Interest income (s10) | \$ ('000) | |
| NWI F10 | Written Down Replacement Cost of Fixed Assets (Sewerage) = Written down current cost of system assets (s48) | \$ ('000) | |
| NWI F12 | Operating cost (Sewerage) = Management expenses (s1) + Operation and maintenance expenses (s2) | \$ ('000) | |
| NWI F15 | Capital Expenditure (Sewerage) = Acquisition of fixed assets (s17) | \$ ('000) | |
| NWI F18 | Economic Real Rate of Return (Sewerage) =((Total income (s14) - Interest income (s10) - Grants for acquisition of assets (s12a) - Operating cost (NWI F12) - Current cost depreciation (s3)) x 100 / (Written down current cost (WDCC) of system assets (s48) + Plant and equipment (s34b)) | % | |
| NWI F27 | Capital Works Grants (Sewerage) = Grants for acquisition of assets (s12a) | \$ ('000) | |
| NWI F3 | Total Income (Water and Sewerage) = Total income (w13+s14) + Gain/loss on disposal of assets (w14+s15) - Grants for acquisition of assets (w11a+s12a) - Interest income (w9+s10) | \$ ('000) | |
| NWI F8 | Revenue from Community Service Obligations (Water and Sewerage) = Community service obligations (NWI F25) x 100 / Total income (NWI F3) | % | |
| NWI F16 | Capital Expenditure (Water and Sewerage) = Acquisition of fixed assets (w16 + s17) | \$ ('000) | |
| NWI F19 | Economic Real Rate of Return (Water and Sewerage) = (Total income (w13 + s14) - Interest income (w9 + s10) - Grants for acquisition of assets (w11a + s12a) - Operating cost (NWI F11 + NWI F12) - Current cost depreciation (w3 + s3)) x 100 / (Written down replacement cost of fixed assets (NWIF9 + NWIF10) + Plant and equipment (w33b + s34b)) | % | |
| NWI F20 | Dividend (Water and Sewerage) = Dividend paid from surplus (2(v) of Note 2 + 2(v) of Note 3) | \$ ('000) | |
| NWIF21 | Dividend Payout Ratio (Water and Sewerage) = Dividend (NWI F20) x 100 / Net profit after tax (NWI F24) | % | |
| NWI F22 | Net Debt to Equity (Water and Sewerage) = (Overdraft (w36 + S37) + Borrowings (w38 + s39) - Cash and investments (w30 + s31)) x 100 / (Total assets (w35 + s36) - Total liabilities (w40 + s41)) | % | |
| NWI F23 | Interest Cover (Water and Sewerage) = EBIT / NI Earnings before Interest and Tax (EBIT) = Operating result (w15a+s16a) + Interest expense (w4a + s4a) - Interest income (w9 + s10) - Gain/loss on disposal of assets (w14 + s15) + Miscellaneous expenses (w4b + w4c + s4b + s4c) Net Interest (NI) = Interest expense (w4a+s4a) - Interest income (w9+s10) Note: If EBIT > 0 AND Net Interest <= 0 THEN Interest Cover is to be reported as ">100" If EBIT < 0 THEN Interest Cover = 0 | | |
| NWI F24 | Net Profit After Tax (Water and Sewerage) =(Surplus before dividends (w15a + s16a) - Tax paid (1(iv) of Note 2 + 1(iv) of Note 3)) | \$ ('000) | |
| NWI F25 | Community Service Obligations (Water and Sewerage) = Grants for pensioner rebates (w11b + s12b) | \$ ('000) | |

- Notes:*
- 1 References to s (eg s12) refer to item numbers in Special Schedules Nos. 5 and 6 of each Council's Annual Financial Statements.
 - 2 The NWI performance indicators are based on the National Performance Framework handbook for Urban Performance Reporting Indicators and Definitions.
The NWI indicators are to be calculated using the formulae shown above.

Formulae for calculation of performance indicators in tables 5 to 18

Formulae for calculation of performance indicators in table 5

| 5. 2009/10 NSW Water Utility Performance Summary | | | |
|--|---|---|--|
| Column No. | Performance Indicator | Background to Formula | Formula |
| Water Supply | | | |
| (1) | Water Supply Connected Properties (No.) | Total number of water supply connected properties (Residential plus Non-residential). | From Col (20) Table 9 |
| (2) | Total Water Supplied (Potable + Non-potable + Recycled Excl. Bulk Supply) (ML) | Total annual water supplied (Potable plus Non-potable plus recycled. Excludes bulk water supplied). Where a Local Water Utility (LWU) has not reported the total water supplied, the previous year's value has been used and is shown in italics bold. | From Col (49) Table 10 |
| (3) | Average Annual Residential Water Supplied (Potable + Nonpotable) (KL/ connected property) | Where an LWU has not reported potable residential water supplied, the residential water supplied has been estimated as 58% of the reported annual potable water supplied. As shown in Note 8 of Table 8, the average reported residential water supplied is 58% of the total potable water supplied. | From Col (56) Table 10 ÷ 1000 |
| (3a) | Water Main Breaks (per 100km of main) | | From Col (42) Table 10 |
| (3b) | Average Duration of an Unplanned Interruption (mins) | | From Col (78) Table 12 |
| (4) | Revenue (\$M) | Total Revenue including gain/loss on disposal of assets, less grants for acquisition of assets, less interest income [Residential Charges + Non-residential Charges + Extra Charges + Grants (excluding grants for Acquisition of Assets) + Contributions (Developer Charges + Developer Provided Assets + Other Contributions)] + Gain/loss on disposal of assets. | From Col (57) Table 11 |
| (7) | Water Quality Compliance - Chemical (%) | Chemical water quality compliance | From Col (70) Table 12 |
| (7a) | Zones Compliant | | From Col (70a) Table 12 |
| (8) | Water Quality Compliance - Microbiological - E. coli (%) | Number of samples tested that meet the water quality requirements divided by the total number of samples tested. Note that this is the number of samples not tests, one sample may have a number of tests performed. | From Col (71) Table 12 |
| (8a) | Zones Compliant | | From Col (71a) Table 12 |
| (8b) | % Population with Microbiological Compliance | | From Col (71b) Table 12 |
| (8c) | Water Quality Complaints (per 1000 properties) | | From Col (73) Table 12 |
| Sewerage | | | |
| (9) | Revenue (\$M) | Total Revenue including gain/loss on disposal of assets, less grants for acquisition of assets and less revenue from investment activities. [Residential Charges + Non-residential Charges + Trade Waste Charges + Extra Charges + Other Revenues + Grants (less receipts from government for Acquisition of Assets) + Contributions (Developer Charges + Developer Provided Assets + Other Contributions)] + Gain/loss on disposal of assets. | From Col (42) Table 16 |
| (10) | % Sewage that was Compliant | | From Col (33a) Table 15 |
| (10a) | Sewer Overflows (per 100km of main) | All overflows, whether reported to environmental regulator or not. | From Col (25) Table 15 |
| (11) | Sewage Odour Complaints (per 1000 properties) | Sum of odour complaints from all sewage treatment works. | From Col (61) Table 17 |
| (12) | Recycled Water (%) | Percent of Effluent Recycled | From Col (41c) Table 15 |
| (12a) | Recycled Water (ML) | Total Effluent Recycled | From Col (41a) Table 15 |
| Water Supply and Sewerage | | | |
| (13a) | Net Profit After Tax (\$M) | | Col (32) Table 5A ÷ 1000 |
| (13b) | Typical Residential Bill (\$/assessment) | Sum of water and sewerage Typical Residential Bills. | Col (8) Table 6 + Col (8) Table 7 |
| (14) | Typical Developer Charge (\$/ET) | Sum of water and sewerage Typical Developer Charges. | Col (7) Table 6 + Col (7) Table 7 |
| (15) | Current Replacement Cost per Assessment (\$) | | Col (62) Table 11 + Col (47) Table 16 |
| (17) | OMA Cost (\$/connected property) | Total water supply and sewerage operation, maintenance and administration (OMA) costs (excluding cost of purchasing water) divided by number of connected properties. OMA includes engineering and supervision costs. | Col (67) Table 11 + Col (52) Table 16 |
| (18) | Management Cost (\$/connected property) | Total water supply and sewerage management costs divided by number of connected properties. | Col (68) Table 11 + Col (54) Table 16 |
| (19) | Economic Real Rate of Return (%) | | Col (25) Table 5A |
| (19a) | Net Debt to Equity | | Col (26) Table 5A |
| (19b) | Capital Expenditure (\$/property) | | Col (24B) Table 5A |
| (19c) | Capital Expenditure (\$M) | | Col (31a) Table 9 + Col (13a) Table 14 |
| (21) | Strategic Business Plans Prepared? (Yes/No) | | |

Notes:

- A. References to W (eg. W₁₅) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement. Similarly, references to S (eg. S₁₆) refer to each LWU's Special Schedules Nos 5 and 6.
- B. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data or previous year's data).

Formulae for calculation of performance indicators in tables 5A and 5B

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------------------------------|--------------------------------------|---|---|
| Water Supply & Sewerage | | | |
| (23) | Operating Cost (OMA) (\$/property) | Total water supply and sewerage operation, maintenance and administration (OMA) costs (excluding cost of purchasing water) divided by number of connected properties. OMA includes engineering and supervision costs. | Col (67) Table 11 + Col (52) Table 16 |
| (24) | Income per Property (\$/property) | Total income divided by total connected properties (water or sewerage) | (24a) ÷ Col (15) Table 6 |
| (24a) | Total Income (\$M) | Total income plus gain/loss on disposal of assets less grants for acquisition of assets less interest income. | $[(W_{13} + W_{14} - W_{11a} - W_9) + (S_{14} + S_{15} - S_{12a} - S_{10})]$ |
| (24b) | Capital Expenditure (\$/property) | Assets, Renewals, Plant/Equipment. | Col (24B) Table 5A |
| (24c) | Return on Assets (%) | | |
| (25) | Economic Real Rate of Return (%) | Revenue from operations (water supply and sewerage) less operating expenses (OMA + current cost depreciation) divided by written down replacement value of water supply and sewerage operational assets. Revenue from operations excludes interest income, grants for acquisition of assets or gain/loss on disposal of assets. Operational assets include system assets and plant and equipment. | $\frac{[(W_{15} - W_9 - W_{11a} - W_{14} + W_{4a} + W_{4b} + W_{4c}) + (S_{16} + S_{4a} + S_{4b} + S_{4c} - S_{10} - S_{12a} - S_{15})]}{(S_{34} + W_{33})} \times 100$ |
| (26) | Net Debt to Equity | Net debt (water supply and sewerage) divided by equity (water supply and sewerage). Net debt is borrowings plus bank overdrafts less cash and investments. Equity is Total Assets less Total Liabilities. | $\frac{[(W_{36} + W_{38} - W_{30}) + (S_{37} + S_{39} - S_{31})]}{(W_{44} + S_{45})} \times 100$ |
| (27) | Interest Cover | Earnings before interest and tax (EBIT) for the whole water utility (water supply and sewerage) divided by net interest expense for the whole water utility (water supply and sewerage). The interest cover is nil for a loss making utility. Net interest expense is interest expenses less interest income and is zero for interest income greater than interest expense. | $\frac{[(W_{15} - W_9 - W_{11a} + W_{4a}) + (S_{16} - S_{10} - S_{12a} + S_{4a})]}{(W_{4a} - W_9 + S_{4a} - S_{10})}$ |
| (29) | Dividend Payable | | From SPFR Notes 2 & 3 |
| (30) | CSOs (\$'000) | Subsidy provided by government to allow for the provision of a service at less than the total cost. Eg. If legislation requires a utility to provide a \$100 reduction to the water bills for pensioners for which the government provides \$60, the CSO is \$60. | |
| (31) | % Revenue from CSOs | Revenue from CSOs divided by the total revenue (including CSOs). | |
| (32) | Net Profit After Tax (NPAT) (\$'000) | Surplus before dividends less tax paid. | $(W_{15a} + S_{16a}) - \text{Tax paid}$ |
| (32a) | NPAT Ratio | Net profit after tax divided by Total Income. | $(32) \div [(24a) \times 1000] \times 100$ |

5B. 2009/10 NSW Water Utility Performance Summary

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------------------------------|--|--|---|
| Water Supply & Sewerage | | | |
| (33) | Billing Complaints (per 1000 properties) | Billing complaints for both water supply and sewerage businesses. | $(Q_{99 \text{ Water}} + Q_{37 \text{ sewerage}}) \div \text{Col (20) Table 9}$ |
| (34) | % of calls answered by Operator within 30 seconds | Proportion of calls that, where the customer has selected a relevant operator option, are answered by an operator within 30 seconds. | W_{103} |
| (35a) | Greenhouse Gas Emissions - Water (tonnes CO2 per 1000 properties) | | W_{148} |
| (35b) | Greenhouse Gas Emissions - Sewerage (tonnes CO2 per 1000 properties) | | S_{80a} |
| (35c) | Greenhouse Gas Emissions - Other (tonnes CO2 per 1000 properties) | | $W_{148b} + S_{80b}$ |
| (35d) | Greenhouse Gas Emissions - Total (tonnes CO2 per 1000 properties) | | $W_{148} + S_{80a} + W_{148b} + S_{80b}$ |

Notes:

- References to W (eg. W_{15}) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement. Similarly, references to S (eg. S_{16}) refer to each LWU's Special Schedules Nos 5 and 6.
- Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data or previous year's data).
- References to Q (eg. $Q_{99 \text{ Water}}$) refer to questions in each LWU's Water Supply or Sewerage Performance Reporting database.

Formulae for calculation of performance indicators in tables 6 and 7

6. Water Supply - 2009/10 Charges, 2010/11 Bills

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|---|---|---|
| (2) | Fixed Charge (or Minimum) (\$) | Fixed charge component of tariff. | From Council's Schedule of Fees and Charges |
| (5) | Usage Charge for Steps 1 and 2 (c/kL) | Includes first two steps of usage charges ("All" if no steps or "N/A" if not applicable) | From Council's Schedule of Fees and Charges |
| (6) | Operating Cost (OMA) c/kL | Total operation, maintenance and administration cost (excluding purchase of water) divided by total annual town water consumption (potable + non-potable - recycled). | $[W_1 + W_{2a \text{ to } n}] \div [\text{Col (13) Table 8}]$ |
| (7) | Typical Developer Charge 2010/11 (\$/Equivalent Tenement (ET)) | Upfront infrastructure contribution for new developments. | Q ₁₃₆ (see notes C & D) |
| (8) | Typical Residential Bill 2010/11 (\$/assessment) (see note D) | Calculated using the average residential water supplied for 2009/10 multiplied by the usage charges for 2010/11 plus the access charge for 2010/11. | $\text{Col}(5) \times \text{Col}(14) \div 100 + \text{Col}(2) \text{ Table 6}$ |
| (11) | Return on Assets (%) | Total revenue less grants for acquisition of assets less total expenses plus revaluation decrements plus other expenses divided by written down replacement value of operational assets. Total revenue excludes gain/loss on disposal of assets. Operational assets include system assets plus plant and equipment. | $[(W_{13} - W_{11a} - W_5 + W_{4b} + W_{4c}) \times 100 \div (W_{47})]$ |
| (12) | Economic Real Rate of Return (%) | Revenue from operations less operating expenses (OMA + current cost depreciation) plus interest expenses divided by written down replacement value of operational assets. Revenue from operations excludes interest income and grants for acquisition of assets and gain/loss on disposal of assets. Operational assets include system assets plus plant and equipment. | $[(W_{15} + W_{4a} + W_{4b} + W_{4c} - W_9 - W_{11a} - W_{14}) \times 100 \div (W_{47})]$ |
| (13) | Residential Revenue from Usage Charges (% of residential bills) | Revenue from residential usage charges divided by total residential revenue (residential usage plus access charges including any rates). | $W_{6b} \times 100 \div [W_{6a} + W_{6b}]$ |
| (14a) | Average Annual Residential Water Supplied (potable) (kL/property) | Average annual residential water supplied (potable). Where an LWU has not reported residential water supplied and at least one of commercial and industrial consumption, 58% of the total potable supply has been used. | From Table 8 $\text{Col}(1) \div [\text{Cols}(18) \times (21) \times (22) \text{ Table 9}]$ |
| (14b) | Average Annual Residential Water Supplied (potable + non potable) (kL/property) | Average annual residential water supplied (potable and non potable). | $[\text{Col}(1) + \text{Col}(11) + \text{Col}(12a) \text{ Table 8}] \div [\text{Cols}(18) \times (21) \times (22) \text{ Table 9}]$ |
| (14c) | Average Annual Residential Water Supplied (potable + non potable) (L/c/d) | Average annual residential water supplied per capita per day. | $[\text{Col}(1) + \text{Col}(11) + \text{Col}(12a) \text{ Table 8}] \div [\text{Col}(23) \text{ Table 9}]$ |
| (14d) | Full Cost Recovery? (N / Y* / Y) | | |
| (15) | Total Connected Properties | Total connected properties (residential plus non-residential). Calculated from number of assessments multiplied by the ratio of connected properties to assessments. | from Col(20) Table 9 |

7. Sewerage - 2009/10 Charges, 2010/11 Bills

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|--|--|--|
| (1) | Fixed Charge (or Minimum) (\$) | Fixed charge component of tariff. | From Council's Schedule of Fees and Charges |
| (2) | Operating Cost (OMA) c/kL | Total operation, maintenance and administration cost divided by total volume of sewage collected. | $[S_1 + S_{2a \text{ to } m}] \times 100 \div [\text{Col}(32) \text{ Table 15}]$ |
| (3) | Access Charge Independent of Land Value? (Yes/No) | | From Council's Schedule of Fees and Charges |
| (3a) | Non-residential Sewer Usage Charge (c/kL) | Non-residential sewer usage charges not including sewer discharge factor. | From Council's Schedule of Fees and Charges |
| (3b) | Trade Waste Usage Charge (c/kL) | | From Council's Schedule of Fees and Charges |
| (4) | Complying Liquid Trade Waste Fees & Charges? (Yes/No) | | From Council's Schedule of Rates, Fees and Charges |
| (5) | Non-residential & Trade Waste Charges (% of Annual Rates and Charges) | Non-residential charges plus trade waste charges divided by (residential charges + non-residential charges + trade waste charges). | $[S_7 + S_8] \times 100 \div [S_6 + S_7 + S_8]$ |
| (6) | Non-residential & Trade Waste Volume (% of Total Volume of Sewage Collected) | | (36) + (37) Table 15 |
| (7) | Typical Developer Charge 2010/11 (\$/Equivalent Tenement(ET)) | Upfront infrastructure contribution for new developments. | Q ₆₂ (see notes C & D) |
| (8) | Typical Residential Bill 2010/11 (\$/assessment) (see note D) | Calculated using the access charge for 2010/11 plus, if council has residential sewer usage charges, the average residential water consumption for 2009/10 multiplied by the usage charges and usage factor for 2010/11. | (1) |
| (9) | Return on Assets (%) | Total revenue less grants for acquisition of assets less total expenses plus revaluation decrements plus other expenses divided by written down replacement value of operational assets. Total revenue excludes gain/loss on disposal of assets. Operational assets include system assets plus plant and equipment. | $[(S_{14} - S_5 - S_{12a} + S_{4b} + S_{4c}) \times 100 \div (S_{48})]$ |
| (11) | Economic Real Rate of Return (%) | Revenue from operations less operating expenses (OMA + current cost depreciation) plus interest expenses divided by written down replacement value of operational assets. Revenue from operations excludes interest income, grants for acquisition of assets and gain/loss on disposal. Operational assets include system assets plus plant and equipment. | $[(S_{16} + S_{4a} + S_{4b} + S_{4c} - S_{10} - S_{12a} - S_{15}) \times 100 \div (S_{48})]$ |
| (11a) | Full Cost Recovery? (N / Y* / Y) | | |
| (11b) | Recycled Water Usage Charge in place? (c/kL) | | |
| (12) | Connected Properties (No.) | Total connected properties (residential plus non-residential). Calculated from number of assessments multiplied by the ratio of connected properties to assessments. | from Col (3) Table 14 |

Notes:

A. References to Q (eg. Q_{99water}) refer to questions in each LWU's Water Supply or Sewerage Performance Reporting database.

B. References to W (eg. W₁₅) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement.

C. Developer Charges under \$400/ET have not been included in Table 6.

D. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Special Schedule No.3, previous year's data).

Formulae for calculation of performance indicators in tables 8 and 9

| 8. 2009/10 Water Supplied in Non-Metropolitan NSW | | | |
|---|---|---|---|
| Column No. | Performance Indicator | Background to Formula | Formula |
| (1) | Residential | Domestic (inhouse and ex-house) potable water consumption. | Q ₅₄ |
| (2) | Commercial | Offices, shops, clubs, hotels, motels, caravan parks potable consumption. | Q ₅₅ |
| (3) | Industrial | Factories, mills, poultry, feed lots, sale yards, abattoirs, mining potable consumption. | Q ₅₆ |
| (4) | Rural | Farms or hobby farms outside urban zoned land, includes stock and domestic uses, market gardens, agricultural irrigation potable consumption. | Q ₅₇ |
| (5) | Institutional | Hospitals, schools, colleges etc potable consumption. | Q ₅₈ |
| (6) | Public Parks and Gardens | Watering of public parks, gardens, ovals etc using potable water. | Q ₆₀ |
| (7) | Total Revenue Water (potable) | | Sum (1) to (6) |
| (8) | Real Loss (Leakage) (see note C) | Leakage. Real loss is included in water losses. | Q ₆₈ |
| (8a) | Apparent Loss | Illegal use plus meter inaccuracies | Q ₆₇ |
| (8b) | Unbilled Authorised Consumption (see note C) | Includes fire fighting and flushing. | Q ₆₁ |
| (9) | Total Non-revenue Water | Sum unbilled authorised consumption plus water losses | (8b) + (8a) + (8) or (7) / 0.9 - (7) |
| (10) | Total Potable Urban Water Supplied | Sum of Total Revenue water plus Total Non-revenue water. | (7) + (9) |
| (11) | Recycled Water for Non-Potable Urban Residential Water Supply | The volume of recycled water should be consistent with the volume shown in Q22 and Q23 of the Sewerage Treatment Report. | Q ₂₂ + Q ₂₃ (sewerage treatment) |
| (11a) | Recycled Water for Urban Non-Residential | The volume of recycled water should be consistent with the volume shown in Q21 to Q22 of the Sewerage Treatment Report. | Q ₂₀ + Q ₂₁ (sewerage treatment) |
| (11b) | Recycled Water - Non-Urban | | Col(11b) Table 8 |
| (11c) | Recycled Water - Total | | Col(11) + Col(11a) + Col(11b) Table 8 |
| (12a) | Non-Potable Urban Residential Water Supplied | | Col(11) + Col(12a) Table 8 |
| (12b) | Non-Potable Urban Non-Residential Water Supplied | | Col(11a) + Col(12b) Table 8 |
| (12c) | Non-Potable Urban Water Supplied | Includes untreated water for industry or non-potable water component in a dual water supply system and may also include recycled water . | Q ₇₂ |
| (13) | Total Annual Urban Water Supplied | Total consumption equals the sum of potable consumption plus non-potable supply for industry or non-potable component in a dual supply system less recycled water for non-potable supply. | Q ₇₁ + Q ₇₂ - Q ₂₂ - Q ₂₃ |
| (14) | Bulk Water Exports | Sales to other Local Water Utilities (LWUs) of potable and non-potable water. | Q ₅₉ |
| (15) | Surface Water | Surface water plus ground water plus bulk purchases should equal total annual water consumption. | Q ₄₁ to Q ₄₄ |
| (16) | Groundwater | | Q ₄₅ |
| (16b) | Recycled Water | | |
| (17) | Bulk Purchase | Potable plus non-potable | Q ₄₈ + Q ₄₉ |
| (17b) | Total Sourced Water | Excluding non-urban recycled. | Col(15) + Col(16) + Col(16b) + Col(17) Table 8 |

| 9. Water Supply - 2009/10 Utility Characteristics | | | |
|---|--|--|--|
| Column No. | Performance Indicator | Background to Formula | Formula |
| (18) | Total No. of Assessments (see note C) | Where this data is ambiguous or missing, it has been estimated from other supporting information (financial data, previous year's data). | Q ₃₆ |
| (18a) | Number of Connections | Number of physical connections to the water supply system (ie. A multiple dwelling with a single metered connection to the water supply system is counted as one) | Q ₃₀ |
| (19) | Ratio of Connected Properties to Assessments (see note C) | This ratio has been determined from previous performance reports. It does not normally change from year to year and will be continued unless change is considered warranted by the LWU, in which case evidence of a different factor | |
| (20) | Connected Properties | Total connected properties (residential plus non-residential). Calculated from number of assessments multiplied by the ratio of connected properties to assessments. | Col(18) x Col(19) Table 9 |
| (21) | Ratio of Residential Assessments to Total Assessments (see note C) | This ratio has been determined from previous performance reports. It does not normally change from year to year and will be continued unless change is considered warranted by the LWU, in which case evidence of a different factor | |
| (22) | Ratio of Residential Connections to Residential Assessments (see note C) | This ratio has been determined from previous performance reports. It does not normally change from year to year and will be continued unless change is considered warranted by the LWU, in which case evidence of a different factor | |
| (22a) | Connected Residential Properties (No.) | | Col(18) x Col(21) x Col(22) Table 9 |
| (22b) | New Residential Dwellings Connected (%) | | Q ₃₁ ÷ Col(22a) Table 9 |
| (23) | Permanent Population | Where this data is ambiguous or missing, it has been estimated from other supporting information (financial data, previous year's data). | Q ₁ |
| (24) | Peak Population (% of permanent) | | Q ₂ |
| (25) | Transfer Mains (km) | | Q _{20a} |
| (25a) | Trunk and Reticulation Mains (km) | Total length of mains including trunk mains and reticulation. | Q ₂₂ |
| (26) | Properties Served per km of main | Total number of connected properties divided by length of mains. | Col(20) ÷ Col(25) Table 9 |
| (27) | Water Treatment Works | Number of works providing full treatment. | Q ₁₇ |
| (28) | Dams | Number of dams. | Q ₇ |
| (29) | Bores | Number of water supply bores. | Q ₁₃ |
| (30) | Pumping Stations | Number of pumping stations. | Q ₁₅ |
| (30a) | Pumping Stations per 100km of main | Number of pumping stations divided by length of main. | Col(30) ÷ [Col(25) ÷ 100] Table 9 |
| (31) | Capital Expenditure (\$/property) | | Col(31a) x 1,000,000 ÷ Col(20) Table 9 |
| (31a) | Capital Expenditure (Total \$M) | | Col(31a) Table 9 |
| (31b) | Capital Works Grants (\$'000) | | Col(31b) Table 9 |
| (32) | Total Workforce (water supply) (Employees/1000 properties) | Equivalent full time employees involved with water supply. | Q ₁₂₀ |
| (34) | % Undergoing Training | % of employees in water supply workforce undergoing training for 2 or more days during the year. | Q ₁₂₂ x 100 ÷ Q ₁₂₀ |
| (37) | Outsourcing % of Maintenance Cost | % expended on outsourcing for maintenance of water supply business. | Q ₁₃₀ |
| (38) | Number of Injuries | Number of injuries (fatality, permanent disability or time loss of one or more days) in water supply business. | Q ₁₂₄ |
| (39) | Total Days Lost (%) | Number of days lost for all reasons (disputes, sick leave, accidents) in water supply business expressed as a percentage of the total number of days worked. | Q ₁₂₃ ÷ (230 x Q ₁₂₀) |
| (40) | Days Lost due to Injuries | Number of days lost due to injuries (time loss of one or more days) in water supply business. | Q ₁₂₅ |
| (40a) | Days Lost due to Injuries (% of Total Days Lost) | Number of days lost due to injuries (time loss of one or more days) as a percentage of number of days lost for all reasons in water supply business. | (Q ₁₂₅ x 100) ÷ Q ₁₂₃ |

Notes:

- References to Q (eg. Q_{99Water}) refer to questions in each LWU's Water Supply Performance Reporting database.
- References to W (eg. W_{1,2}) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement.
- Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data, previous year's data).

Formulae for calculation of performance indicators in tables 10 and 11

| 10. Water Supply - 2009/10 Asset Management | | | |
|---|---|---|---|
| Column No. | Performance Indicator | Background to Formula | Formula |
| (41) | Real Losses (Leakage) (L/d/c) | Real loss or leakage L per day per connection. | $Q_{68} \div 365 \div \text{column (18a) Table 9}$ |
| (41a) | Real Losses (Leakage) (kL/km/d) | | |
| (41b) | Infrastructure Leakage Index (ILI) | Ratio of Current Annual Real Loss to Unavoidable Annual Real Loss | |
| (41c) | Reservoir Drop Test (Type) | Whether Drop Test undertaken, the year and the result of the test. | |
| (41d) | (Year) | | |
| (41e) | (Result %) | | |
| (42) | Main Breaks (per 100km of main) | Number of main breaks per 100km of main. A main break is where the water main has to be shut down. Excludes service connection breaks. | $Q_{104} \div (Q_{22} \div 100)$ |
| (43) | Unplanned Interruptions to Supply (per 1000 properties) | Number of properties affected by unplanned interruptions to supply per 1000 properties. Includes each occurrence. Excludes breaks in service connections or instances of low pressure. | $Q_{106} \times 1000 \div \text{Col(20) Table 9}$ |
| (44) | Rehabilitation of mains (km/100km) | Length of mains rehabilitated per 100km of main. | $Q_{23} \div (Q_{22} \div 100)$ |
| (45) | Rehabilitation of service connections (%) | Number of service connections rehabilitated as % of total. | $Q_{24} \times 100 \div \text{Col(20) Table 9}$ |
| (45a) | Rehabilitation of water meters (%) | Number of water meters rehabilitated as % of total. | |
| (46) | Renewals (\$'000 per 100km of main) | Expenditure on renewals of mains per 100km of main. | $W_{16c} \div (Q_{22} \div 100)$ |
| (47) | Renewals (% of CRC) | Expenditure on renewals of mains as percentage of Current Replacement Cost (CRC) of systems assets. | $W_{16c} \times 100 \div (\text{Col(61) Table 11} \times 1000)$ |
| (48) | Mains Maintenance Cost (\$'000/100km of main) | Expenditure on maintenance of mains per 100km of main. | $W_{2d} \div (Q_{22} \div 100)$ |
| (49) | Total Urban Water Supplied (ML) | Where an LWU has not reported total potable consumption, the previous year's consumption has been adopted and is shown in italics bold. | see column (12) on Table 8 |
| (50) | Non-potable Urban Water Supplied (ML) | Where an LWU has not reported total potable consumption, the previous year's consumption has been adopted and is shown in italics bold. | see column (11) on Table 8 |
| (51) | % Water Recycled | For non-potable urban water supplied. | see column (13) on Table 8 |
| (53) | Peak Week to Average Consumption (%) | Average daily consumption over peak week (ML/d) divided by average daily consumption . | $W_{13b} \div [\text{Col(49)} \div 365]$ |
| (56) | Average Annual Residential Water Supplied (Potable + Non Potable) (kL/property) | Average annual residential consumption (potable + non potable). | $[\text{Col(1)} + \text{Col(11)} + \text{Col(12a) Table 8}] \div [\text{Cols(18)} \times (21) \times (22) \text{ Table 9}]$ |
| (56a) | Average Annual Residential Water Supplied (Potable) (kL/property) | Average annual residential consumption (potable). Where an LWU has not reported residential consumption and at least one of commercial and industrial consumption, 57% of the total potable supply has been used. | From Table 8 $\text{Col(1)} \div [\text{Cols(18)} \times (21) \times (22) \text{ Table 9}]$ |

| 11. Water Supply - 2009/10 Financial, Efficiency | | | |
|--|---|--|--|
| Column No. | Performance Indicator | Background to Formula | Formula |
| (57) | Total Revenue (excl Capital Works Grants) (\$'000) | Total Revenue excluding grants for acquisition of assets, interest income and gain/loss from disposal of assets [Residential Charges + Non-residential Charges + Extra Charges + Other Revenues + Grants (excluding for Acquisition of Assets) + Contributions (Developer Charges + Developer Provided Assets + Other Contributions)]. | $(W_{13} - W_9 - W_{11a}) \div 1000$ |
| (57a) | Revenue per property (\$) | | |
| (58) | Residential Revenue (% of rates and charges total) | Where an LWU has not reported a breakdown of revenue from rates and charges and sales into residential and non-residential, the percentage revenue for such LWUs has been estimated from the reported percentages of similar LWUs. | $(W_{6a} + W_{6b}) \times 100 \div (W_6 + W_7)$ |
| (58a) | Residential Revenue (% of usage charges) | | |
| (59) | Residential Water Supplied (% of potable water supplied excluding water losses) | % of potable water <u>excluding</u> water losses. | $(Q_{54} \div (Q_{62})) \times 100$ |
| (60) | Written Down Replacement Cost (\$M) | Written down replacement cost of system assets. | $W_{47} \div 1,000$ |
| (61) | Current Replacement Cost (CRC) of System Assets (\$M) | The value of the infrastructure assets expressed in terms of how much it would cost to construct modern assets to provide the same function (ie. MEERA - Modern Engineering Equivalent Replacement Asset). | $W_{45} \div 1,000$ |
| (62) | Current Replacement Cost per Assessment (\$) | The value of the infrastructure assets divided by the number of assessments. | $W_{45} \div \text{Col(18) Table 9}$ |
| (63) | Net Debt to Equity (%) | All overdrafts, repayable borrowings, interest bearing non-repayable borrowings, advances and leases less cash and investments divided by total equity. | $(W_{36} + W_{38} - W_{30}) \times 100 \div W_{44}$ |
| (63a) | Economic Real Rate of Return (%) | From column (12) Table 6. | |
| (63b) | Return on Assets (%) | From column (11) Table 6. | |
| (64a) | Cross Subsidies (Annual Charges & Fees) (\$/assessment) | Cross subsidies from residential customers using less than allowance to non-residential customers and to large connections in unmetered supplies. | $(W_{27b} + W_{27c} + W_{27d}) \div \text{Col(18) Table 9}$ |
| (64b) | Cross Subsidies (Developer Charges) (\$/assessment) | Cross subsidies in water supply developer charges. | $(W_{28b}) \div \text{Col(18) Table 9}$ |
| (65) | Operating Result (\$/property) | Total revenue less total expenses less grants for acquisition of assets divided by total number of connected properties. | $(W_{15a}) \div \text{Col(20) Table 9}$ |
| (66) | Externalities (\$/property) | Water fees paid by LWUs to DEUS. | From DEUS records |
| (66a) | Loan Payment (\$/property) | | |
| (67) | Operating Cost OMA (\$/property) | Total operation, maintenance and administration costs (plus proportion of bulk supplier OMA or purchase cost of water if no bulk supplier) divided by total number of connected properties. | $[W_1 + W_{2(a \text{ to } n)}] \div \text{Col(20) Table 9 plus bulk suppliers OMA}$ |
| (68) | Management Cost (\$/property) | Total management costs divided by total number of connected properties. | $W_1 \div \text{Col(20) Table 9}$ |

Notes:

- References to Q (eg. $Q_{99\text{Water}}$) refer to questions in each LWU's Water Supply Performance Reporting database.
- References to W (eg. W_{15}) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement.
- Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data, previous year's data).

Formulae for calculation of performance indicators in table 12

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|--|---|--|
| (69) | Water Quality Compliance - Physical (%) | Overall compliance with physical requirements including the key characteristics of turbidity, pH and colour. Compliance refers to the number of samples taken for system performance monitoring and not the number of tests. Excludes samples taken for operational monitoring. | see note C |
| (69a) | Risk Based Drinking Water Quality Plan - Basis (e.g. ADWG, HACCP) | | |
| (69b) | Risk Based Drinking Water Quality Plan - External Assessment? (Y/N) | | |
| (70) | Water Quality Compliance - Chemical (%) | Overall compliance with chemical requirements. Compliance refers to the number of samples taken for system performance monitoring and not the number of tests. Excludes samples taken for operational monitoring. | see note C |
| (70a) | No. of Zones where Chemical Compliance was Achieved | Assessment with the chemical requirements of the water quality guidelines for each zone of the system. | Report as number of zones complying out of the total number of zones |
| (71) | Water Quality Compliance - E. coli (%) | E.coli contamination is the primary health-related indicator. Compliance refers to the number of samples taken for system performance monitoring and not the number of tests. Excludes samples taken for operational monitoring. | see note D |
| (71a) | No. of Zones where Microbiological Compliance was Achieved | Assessment with the microbiological requirements of the water quality guidelines for each zone of the system. | Report as number of zones complying out of the total number of zones |
| (71b) | % of Population with Microbiological Compliance | From population served and compliance achieved by each zone. | |
| (73) | Water Quality Complaints (per 1000 properties) | Complaints are any expression of customer dissatisfaction reported in person, by phone, fax, letter or email. Water quality complaints are reported under the relevant source water treatment works. | $Q_{101} \times 1000 \div \text{Col}(20) \text{ Table 9}$ |
| (74) | Water Service Complaints (per 1000 properties) | Complaints are any expression of customer dissatisfaction reported in person, by phone, fax, letter or email. | $Q_{96} \times 1000 \div \text{Col}(20) \text{ Table 9}$ |
| (75a) | Customers with Restrictions for Non-payment of Bills (per 1000 properties) | | $Q_{132} \times 1000 \div \text{Col}(20) \text{ Table 9}$ |
| (75b) | Customers with Legal Action for Non-payment of Bills (per 1000 properties) | | |
| (77) | Customer Interruption Frequency (No./1000 properties) | Includes each occurrence of unplanned interruptions to supply. Excludes reduced levels of service or breaks in service connections. | $[Q_{106} \times 1000] \div \text{Col}(20) \text{ Table 9}$ |
| (78) | Average Duration of Interruptions (minutes) | Average duration of unplanned interruptions. | Q_{107} |
| (78a) | Drought Water Restrictions (% of time) | Percent of time that water restrictions apply. | $(Q_{95} \div 365) \times 100$ |

Notes:

- A. References to Q (eg. $Q_{99\text{Water}}$) refer to questions in each LWU's Water Supply Performance Reporting database.
- B. References to W (eg. W_{15}) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement.
- C. Physical compliance - sum for all treatment works, the product of T16 multiplied by T17 for each treatment works. Divide the total by the sum of T16 for all treatment works.
Chemical compliance - sum for all treatment works, the product of T18 multiplied by T19 for each treatment works. Divide the total by the sum of T18 for all treatment works.
- D. Sum for all treatment works, the product of T26 multiplied by T27 for each treatment works. Divide the total by the sum of T26 for all treatment works.
An LWU complied with the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines for E. coli if the required number of samples was tested and:
At least 98% of the samples contained no E. coli
For LWUs which did not comply, the percentage of samples complying is shown.
- E. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Special Schedule No.3, previous year's data).

Formulae for calculation of performance indicators in table 13

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|---|---|---|
| (79) | Operating Cost Components - Maintenance (\$/property) | Maintenance cost of all water system assets. | $[W_{2b} + W_{2d} + W_{2f} + W_{2i} + W_{2l} + W_{2n}] \div \text{Col (20) Table 9}$ |
| (79a) | Total O&M Cost (\$/property) | | $\text{Col(79)} + \text{Col(80)} + \text{Col(81)} + \text{Col(82)} + \text{Col(82a)}$ Table 13 |
| (80) | Operating Cost Components - Operation (\$/property) | Operation cost of all water system assets. | $[W_{2a} + W_{2c} + W_{2e} + W_{2g} + W_{2j} + W_{2m}] \div \text{Col (20) Table 9}$ |
| (81) | Operating Cost Components - Energy (\$/property) | Energy cost of water pumping and treatment. | $[W_{2h}] \div \text{Col(20) Table 9}$ |
| (82) | Operating Cost Components - Chemicals (\$/property) | The chemicals cost for water treatment. | $[W_{2k}] \div \text{Col(20) Table 9}$ |
| (82a) | Operating Cost Components - Bulk Purchase (\$/property) | | |
| (83) | Operating Cost Components - Dams & Weirs (\$/property) | Operation and Maintenance cost of dams and weirs. | $[W_{2a} + W_{2b}] \div \text{Col(20) Table 9}$ |
| (84) | Operating Cost Components - Mains (\$/property) | Operation and Maintenance cost of water mains. | $[W_{2c} + W_{2d}] \div \text{Col(20) Table 9}$ |
| (85) | Operating Cost Components - Reservoirs (\$/property) | Operation and Maintenance cost of reservoirs. | $[W_{2e} + W_{2f}] \div \text{Col(20) Table 9}$ |
| (86) | Operating Cost Components - Pumping Stations (\$/property) | Operation and Maintenance cost of water pumping stations. | $[W_{2g} + W_{2h} + W_{2i}] \div \text{Col(20) Table 9}$ |
| (87) | Operating Cost Components - Water Treatment (\$/property) | Operation and Maintenance cost of water treatment works. | $[W_{2j} + W_{2k} + W_{2l}] \div \text{Col(20) Table 9}$ |
| (88) | Operating Cost Components - Other (\$/property) | Operation and Maintenance cost of other water system assets. | $[W_{2m} + W_{2n} + W_{2o}] \div \text{Col(20) Table 9}$ |
| (89) | Management Cost Components - Administration (\$/property) | From special schedule No. 3. | $[W_{1a}] \div \text{Col(20) Table 9}$ |
| (90) | Management Cost Components - Engineering & Supervision (\$/property) | From special schedule No. 3. | $[W_{1b}] \div \text{Col(20) Table 9}$ |
| (91) | Management Cost Components - Total (c/kL) | From special schedule No. 3. | $[W_{1a} + W_{1b}] \times 100 \div \text{Col(49) Table 10}$ |
| (91a) | Management Cost Components - Total (\$/property) | | |
| (91b) | Total OMA Cost (\$/property) | | $\text{Col(92)} + \text{Col(93) Table 13}$ |
| (92) | Headworks Component (\$/property) | From the headworks component estimated in the reporting forms. | $[W_1 + W_2] \times Q_{18a} \div \text{Col(20) Table 9}$ |
| (93) | Distribution Component (\$/property) | From the distribution component estimated in the reporting forms. | $[W_1 + W_2] \times Q_{18b} \div \text{Col(20) Table 9}$ |
| (94) | Pumping Cost Components - Total Water Pumping Cost (c/kL) | From special schedule No. 3. | $[W_{2g} + W_{2h} + W_{2i}] \times 100 \div \text{Col(49) Table 10}$ |
| (95) | Pumping Cost Components - Total Water Pumping Cost (\$'000/pumping station) | From special schedule No. 3. | $[W_{2g} + W_{2h} + W_{2i}] \div 1000 \div \text{Col(30) Table 9}$ |
| (96) | Pumping Cost Components - Operation (\$'000/pumping station) | From special schedule No. 3. | $[W_{2g}] \div 1000 \div \text{Col(30) Table 9}$ |
| (97) | Pumping Cost Components - Maintenance (\$'000/pumping station) | From special schedule No. 3. | $[W_{2i}] \div 1000 \div \text{Col(30) Table 9}$ |
| (98) | Pumping Cost Components - Energy (\$'000/pumping station) | From special schedule No. 3. | $[W_{2h}] \div 1000 \div \text{Col(30) Table 9}$ |
| (100) | Water Main Cost Components - Total Water Main Cost (c/kL) | From special schedule No. 3. | $[W_{2c} + W_{2d}] \times 100 \div \text{Col(49) Table 10}$ |
| (101) | Water Main Cost Components - Total Water Main Cost (\$'000/100km) | From special schedule No. 3. | $[W_{2c} + W_{2d}] \times 100 \div \text{Col(25) Table 9}$ |
| (102) | Water Main Cost Components - Operation (\$'000/100km) | From special schedule No. 3. | $[W_{2c}] \times 100 \div \text{Col(25) Table 9}$ |
| (103) | Water Main Cost Components - Maintenance (\$'000/100km) | From special schedule No. 3. | $[W_{2d}] \times 100 \div \text{Col(25) Table 9}$ |
| (104) | Treatment Cost Components - Total Water Treatment Cost (\$/ML) | From special schedule No. 3. | $[W_{2j} + W_{2k} + W_{2l}] \times 1000 \div \text{Col (49) Table 10}$ |
| (105) | Treatment Cost Components - Operation (\$/property) | From special schedule No. 3. | $[W_{2j}] \div \text{Col(20) Table 9}$ |
| (106) | Treatment Cost Components - Maintenance (\$/property) | From special schedule No. 3. | $[W_{2l}] \div \text{Col(20) Table 9}$ |
| (107) | Treatment Cost Components - Chemical (\$/property) | From special schedule No. 3. | |

Notes:

- A. References to Q (eg. $Q_{99\text{Water}}$) refer to questions in each LWU's Water Supply Performance Reporting database.
- B. References to W (eg. W_{15}) refer to items in Special Schedules Nos 3 and 4 of each LWU's Annual Financial Statement.
- C. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data or previous year's data).

Formulae for calculation of performance indicators in table 14

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|---|---|--|
| (1) | Total No. of Assessments (see note C) | Where this data is ambiguous or missing, it has been estimated from other supporting information (financial data, previous year's data). | (Q ₁₇) |
| (2) | Ratio of Connected Properties to Assessments (see note C) | This ratio has been determined from previous performance reports. It does not normally change from year to year and will be continued unless change is considered warranted by the LWU, in which case evidence of a different factor should be provided by the LWU. | |
| (3) | Connected Properties | Total connected properties (residential plus non-residential). Calculated from number of assessments multiplied by the ratio of connected properties to assessments. | Col(1) x Col(2) |
| (4) | Ratio of Residential Assessments to Total Assessments | This ratio has been determined from previous performance reports. It does not normally change from year to year and will be continued unless change is considered warranted by the LWU, in which case evidence of a different factor should be provided by the LWU. | |
| (5) | Ratio of Residential Connections to Residential Assessments | This ratio has been determined from previous performance reports. It does not normally change from year to year and will be continued unless change is considered warranted by the LWU, in which case evidence of a different factor should be provided by the LWU. | |
| (5a) | Connected Residential Properties | | Col(1) x Col(4) x Col(5) Table 14 |
| (6) | Permanent Population | Where this data is ambiguous or missing, it has been estimated from other supporting information (financial data, previous year's data). | Q ₁ |
| (7) | Peak Population (% of permanent) | | Q ₂ |
| (8) | Mains (km) | Total length of sewer mains including reticulation, gravity and rising mains. | Q ₉ |
| (9) | Properties Served per km of main | Total number of connected properties divided by length of mains. | Col(3) ÷ Col(8) |
| (10) | Sewage Treatment Works (No.) | Number of treatment works. | Q ₃ |
| (11) | Pumping Stations | Number of sewage pumping stations. | Q ₅ |
| (12) | Pumping Stations per 100km of main | Number of pumping stations divided by length of main. | Col(11) ÷ Col(8) ÷ 100 |
| (13) | Capital Expenditure (\$/property) | Assets, renewals, plant/equipment. | |
| (13a) | Capital Expenditure (\$M) | Assets, renewals, plant/equipment. | |
| (13b) | Capital Works Grants (\$'000) | | |
| (14) | Total Workforce (water supply) (Employees/1000 properties) | Equivalent full time employees involved with water supply. | Q ₄₉ |
| (15) | % Female | % of equivalent full time female employees in total water supply workforce. | Q ₅₀ x 100 ÷ Q ₄₉ |
| (19) | Outsourcing % of Maintenance Cost | % expended on outsourcing for maintenance of sewerage business. | Q ₅₉ |
| (20) | Number of Injuries | Number of injuries (fatality, permanent disability or time loss of one or more days) in water supply business. | Q ₅₃ |
| (21) | Total Days Lost (%) | Number of days lost for all reasons (disputes, sick leave, accidents) in sewerage business expressed as a percentage of the total number of days worked. | Q ₅₂ ÷ (230 x Q ₄₉) |
| (22) | Days Lost due to Injuries | Number of days lost due to injuries (time loss of one or more days) in sewerage business. | Q ₅₄ |
| (22a) | Days Lost due to Injuries (% of Total Days Lost) | Number of days lost due to injuries (time loss of one or more days) as a percentage of number of days lost for all reasons in sewerage business. | (Q ₅₄ x 100) / Q ₅₂ |

Notes:

- A. References to Q (eg. Q_{99water}) refer to questions in each LWU's Sewerage Performance Reporting database.
- B. References to S (eg. S₁₅) refer to items in Special Schedules Nos 5 and 6 of each LWU's Annual Financial Statement.
- C. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data, previous year's data).

Formulae for calculation of performance indicators in table 15 and 16

15. Sewerage - 2009/10 Asset Management

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|---|---|---|
| (23) | Infiltration (ML per 100km of main) | Estimated groundwater infiltration and stormwater inflow into the system per 100km of main. | $Q_{22} \div (Q_9 \div 100)$ |
| (24) | Breaks and Chokes (No. per 100km of main) | Breaks and chokes are partial or total blockages resulting in an interruption to sewerage services or overflows at gully traps. Blockages in risers and sidelines are excluded. | $Q_{64} \div (Q_9 \div 100)$ |
| (25) | Overflows (No. per 100km of main) | Recorded overflows in sewers, access chambers and pumping stations. Overflows in risers and sidelines are excluded. | $Q_{63a} \div (Q_9 \div 100)$ |
| (27) | Rehabilitation of mains (% of total length) | Length of mains rehabilitated as % of total length of main. | $Q_{10} \div (Q_9 \div 100)$ |
| (28) | Rehabilitation of service connections (%) | Number of service connections rehabilitated as % of total. | $Q_{11} \times 100 \div \text{Col}(3) \text{ Table 14}$ |
| (29) | Renewals (\$'000 per 100km of main) | Expenditure on renewals of mains per 100km of main. | $S_{17c} \div (Q_9 \div 100)$ |
| (30) | Renewals (% of CRC) | Expenditure on renewals of mains as % of Current Replacement Cost (CRC) of systems assets. | $S_{17c} \times 100 \div (\text{Col}(61) \text{ Table 11} \times 1000)$ |
| (31) | Mains Maintenance Cost (\$'000 per 100km of main) | Expenditure on maintenance of mains per 100km of main. | $S_{2b} \div (Q_9 \div 100)$ |
| (31a) | Overflows Reported to Regulator (No. per 100km of main) | | $Q_{63b} \div (Q_9 \div 100)$ |
| (32) | Total Volume of Sewage Collected (ML) | Total volume transported through sewerage network. | Q_{26} |
| (32a) | Volume of Trade Waste (ML) | | Q_{34} |
| (33) | Percentage of Sewage Treated (%) | % of total sewage collected. | $(Q_{18} + Q_{19}) \times 100 \div Q_{26}$ |
| (33a) | % Sewage Treated that was Compliant | | |
| (33b) | STWs Compliant at all times | | |
| (34) | Percentage of Total Sewage Collected - Infiltration | % of total sewage collected. | $Q_{31} \times 100 \div Q_{26}$ |
| (35) | Percentage of Total Sewage Collected - Residential | % of total sewage collected. | $Q_{32} \times 100 \div Q_{26}$ |
| (36) | Percentage of Total Sewage Collected - Non-residential | % of total sewage collected. | $Q_{33} \times 100 \div Q_{26}$ |
| (37) | Percentage of Total Sewage Collected - Trade Waste | % of total sewage collected. | $Q_{34} \times 100 \div Q_{26}$ |
| (38) | Percentage of Total Sewage Collected - Other | Remainder not reported under columns (34), (35), (36) or (37). % of total sewage collected. | $100 - (34) - (35) - (36) - (37)$ |
| (39) | Volume of Sewage Collected per property (kL/property) | | $(Q_{18} + Q_{19}) \times 100 \div \text{Col}(3) \text{ Table 14}$ |
| (39a) | Level of Treatment - Primary Level (%) | | |
| (39b) | Level of Treatment - Secondary Level (%) | | |
| (39c) | Level of Treatment - Tertiary Level (%) | | |
| (40) | Biosolids Reused (%) | % of biosolids (sludge) to farmland, landfill etc. | Q_{27} |
| (41a) | Effluent Recycled - Total (ML) | | Q_{25} |
| (41b) | Effluent Recycled - Urban Water (ML) | | $Q_{21} + Q_{22} + Q_{23} + Q_{24} + Q_{24a}$ |
| (41c) | % of Effluent Recycled | | $100 \times Q_{25} \div \text{Col}(32)$ |

16. Sewerage - 2009/10 Financial, Efficiency

| Column No. | Performance Indicator | Background to Formula | Formula |
|------------|--|--|---|
| (42) | Total Revenue (excl Capital Works Grants) (\$'000) | Total Revenue excluding grants for acquisition of assets, interest income and gain/loss on disposal of assets | $(S_{14} - S_{10} - S_{12a}) \div 1000$ |
| (42a) | Revenue per property (\$) | | $[\text{Col}(42) \text{ Table 16}] \div [\text{Col}(3) \text{ Table 14}]$ |
| (43) | Residential Revenue (% of rates and charges total) | Where an LWU has not reported a breakdown of revenue from rates and charges and sales into residential and non-residential, the percentage revenue for such LWUs has been estimated from the reported percentages of similar LWUs. | $(S_6) \times 100 \div (S_6 + S_7 + S_8)$ |
| (44) | Residential Sewage (% of total collected excl infiltration/inflow) | % of total collected <u>excluding</u> infiltration and inflow. | $(Q_{32} \div (Q_{26} - Q_{31})) \times 100$ |
| (45) | Written Down Replacement Cost (\$M) | Written down replacement cost of system assets. | $S_{48} \div 1,000$ |
| (46) | Current Replacement Cost (CRC) of System Assets (\$M) | The value of the infrastructure assets expressed in terms of how much it would cost to construct modern assets to provide the same function (ie. MEERA - Modern Engineering Equivalent Replacement Asset). | $S_{46} \div 1,000$ |
| (47) | Current Replacement Cost per Assessment (\$) | The value of the infrastructure assets divided by the number of assessments. | $S_{46} \div \text{Col}(1) \text{ Table 14}$ |
| (48) | Net Debt to Equity (%) | All overdrafts, repayable borrowings, interest bearing non-repayable borrowings, advances and leases less cash and investments divided by total equity. | $(S_{37} + S_{39} - S_{31}) \times 100 \div S_{45}$ |
| (48a) | Return on Assets (%) | From column 9 Table 7. | |
| (48b) | Economic Real Rate of Return (%) | From column 11 Table 7. | |
| (49a) | Cross Subsidies (Annual Charges & Fees) (\$/assessment) | Cross subsidies from residential customers to non-residential customers and trade waste dischargers. | $(S_{28b} + S_{28c}) \div \text{Col}(1) \text{ Table 14}$ |
| (49b) | Cross Subsidies (Developer Charges) (\$/assessment) | Cross subsidies in sewerage developer charges. | $(S_{29b}) \div \text{Col}(1) \text{ Table 14}$ |
| (50) | Operating Result (\$/property) | Total revenue less total expenses less grants for acquisition of assets divided by total number of connected properties. | $(S_{16a}) \div \text{Col}(3) \text{ Table 14}$ |
| (51) | Externalities (\$/property) | Sewage treatment works licence fees paid by LWU. | From DEC records |
| (51a) | Loan Payment (\$/property) | | |
| (52) | Operating Cost OMA (\$/property) | Total operation, maintenance and administration costs divided by total number of connected properties. | $[S_1 + S_{2(a \text{ to } m)}] \div \text{Col}(3) \text{ Table 14}$ |
| (54) | Management Cost (\$/property) | Total management costs divided by total number of connected properties. | $S_1 \div \text{Col}(3) \text{ Table 14}$ |

Notes:

- A. References to Q (eg. $Q_{99\text{Water}}$) refer to questions in each LWU's Sewerage Performance Reporting database.
- B. References to S (eg. S_{15}) refer to items in Special Schedules Nos 5 and 6 of each LWU's Annual Financial Statement.
- C. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data, previous year's data).

Formulae for calculation of performance indicators in table 17

| 17. Sewerage - 2009/10 Environmental, Levels of Service | | | |
|---|--|---|--|
| Column No. | Performance Indicator | Background to Formula | Formula |
| (55) | DEC Licence Compliance BOD (%) | Compliance refers to the number of samples taken for system performance monitoring and not the number of tests. | see note C |
| (56) | BOD 90 Percentile Discharge Licence Limit (mg/L) | Some councils only have 100 percentile licence limits for their treatment works. In this case the 100 percentile limits should be reported. | see note C |
| (57) | DEC Licence Compliance SS (%) | Compliance refers to the number of samples taken for system performance monitoring and not the number of tests. | see note D |
| (58) | SS 90 Percentile Discharge Licence Limit (mg/L) | Some councils only have 100 percentile licence limits for their treatment works. In this case the 100 percentile limits should be reported. | see note D |
| (59) | Sewer Main Chokes and Collapses | See Column (24) on Table 15. | $Q_{64} \div (Q_9 \div 100)$ |
| (59a) | DEC Licence Compliance N (%) | | see note C |
| (59b) | DEC Licence Compliance P (%) | | see note C |
| (59c) | DEC Licence Compliance Oil & Grease (%) | | see note C |
| (59d) | DEC Licence Compliance Faecal Coliform (%) | | see note C |
| (59e) | Sewage Treated that was Compliant (%) | Percent of sewage volume treated that was compliant. | |
| (59f) | STWs Compliant at all times | | |
| (60) | Compliance with Environmental Regulator (Y/N) | | see note D |
| (61) | Odour Complaints (per 1000 properties) | Complaints are any expression of customer dissatisfaction reported in person, by phone, fax letter or email. | $Q_{39} \times 1000 \div \text{Col(3) Table 14}$ |
| (62) | Service Complaints (per 1000 properties) | Complaints are any expression of customer dissatisfaction reported in person, by phone, fax letter or email. | $Q_{34} \times 1000 \div \text{Col(3) Table 14}$ |
| (65) | Average Sewerage Interruption (minutes) | Sum of total minutes of interruption divided by the total number of interruptions. | Q_{43} |

Notes:

- A. References to Q (eg. $Q_{99\text{Water}}$) refer to questions in each LWU's Sewerage Performance Reporting database.
- B. References to S (eg. S_{15}) refer to items in Special Schedules Nos 5 and 6 of each LWU's Annual Financial Statement.
- C. For multiple treatment works, the Licence Compliance indicators are calculated as a weighted average on the basis of the number of sampling days for each treatment works.
 - ie. For BOD compliance, sum for all treatment works, the product of T50 multiplied by T63 for each treatment works.
Divide this total by the sum of T63 for all treatment works.
- D. SS compliance is calculated in a similar manner to BOD compliance.
 - ie. For SS compliance, sum for all treatment works, the product of T52 multiplied by T63 for each treatment works.
Divide the total by the sum of T63 for all treatment works.
- E. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Special Schedule No.5, previous year's data).

Formulae for calculation of performance indicators in table 18

| 18. Sewerage - 2009/10 Benchmarking Cost Data | | | |
|---|--|---|--|
| Column No. | Performance Indicator | Background to Formula | Formula |
| (66a) | Total O&M Cost (\$/property) | | |
| (66) | Operating Cost Components - Maintenance (\$/property) | Maintenance cost of all sewerage system assets. | $[S_{2b} + S_{2c} + S_{2k} + S_{2m}] \div \text{Col(3) Table 14}$ |
| (67) | Operating Cost Components - Operation (\$/property) | Operation cost of all sewerage system assets. | $[S_{2a} + S_{2c} + S_{2f} + S_{2j}] \div \text{Col(3) Table 14}$ |
| (68) | Operating Cost Components - Energy (\$/property) | Energy cost of sewage treatment and pumping | $[S_{2h}] \div \text{Col(3) Table 14}$ |
| (69) | Operating Cost Components - Chemical Treatment (\$/property) | The chemical cost of sewage treatment. | $[S_{2g}] \div \text{Col(3) Table 14}$ |
| (69a) | Operating Cost Components - Effluent & Biosolids (\$/property) | | |
| (70) | Operating Cost Components - Mains (\$/property) | Operation and Maintenance cost of sewage mains. | $[S_{2a} + S_{2b}] \div \text{Col(3) Table 14}$ |
| (71) | Operating Cost Components - Pumping Stations (\$/property) | Operation and Maintenance cost of sewage pumping stations. | $[S_{2c} + S_{2d} + S_{2e}] \div \text{Col(3) Table 14}$ |
| (72) | Operating Cost Components - Sewage Treatment (\$/property) | Operation and maintenance cost of sewage treatment. | $[S_{2f} + S_{2g} + S_{2h} + S_{2i} + S_{2j} + S_{2k}] \div \text{Col(3) Table 14}$ |
| (73) | Operating Cost Components - Other (\$/property) | Operation and maintenance cost of other sewerage system assets. | $[S_{2l} + S_{2m}] \div \text{Col(3) Table 14}$ |
| (74) | Management Cost Components - Administration (\$/property) | From special schedule No. 5. | $[S_{1a}] \div \text{Col(3) Table 14}$ |
| (75) | Management Cost Components - Engineering & Supervision (\$/property) | From special schedule No. 5. | $[S_{1b}] \div \text{Col(3) Table 14}$ |
| (76) | Management Cost Components - Total (c/kL) | From special schedule No. 5. | $[S_{1a} + S_{1b}] \times 100 \div \text{Col(32) Table 15}$ |
| (76a) | Management Cost Components - Total (\$/property) | | |
| (76b) | Total OMA Cost (\$/property) | | |
| (77) | Wholesale Component (\$/property) | The cost of sewage treatment. | $[S_{2f} + S_{2g} + S_{2h} + S_{2i} + S_{2j} + S_{2k}] \div \text{Col(3) Table 14}$ |
| (78) | Retail Component (\$/property) | The cost of transportation and reticulation. | $[S_{2a} + S_{2b} + S_{2c} + S_{2d} + S_{2e}] \div \text{Col(3) Table 14}$ |
| (79) | Pumping Cost Components - Total Sewage Pumping Cost (c/kL) | From special schedule No. 5. | $[S_{2c} + S_{2d} + S_{2e}] \times 100 \div \text{Col(32) Table 15}$ |
| (80) | Pumping Cost Components - Total Sewage Pumping Cost (\$'000/pumping station) | From special schedule No. 5. | $[S_{2c} + S_{2d} + S_{2e}] \div 1000 \div \text{Col(11) Table 14}$ |
| (81) | Pumping Cost Components - Operation (\$'000/pumping station) | From special schedule No. 5. | $[S_{2c}] \div 1000 \div \text{Col(11) Table 14}$ |
| (82) | Pumping Cost Components - Maintenance (\$'000/pumping station) | From special schedule No. 5. | $[S_{2e}] \div 1000 \div \text{Col(11) Table 14}$ |
| (83) | Pumping Cost Components - Energy (\$'000/pumping station) | From special schedule No. 5. | $[S_{2d}] \div 1000 \div \text{Col(11) Table 14}$ |
| (85) | Sewer Main Cost Components - Total Sewer Main Cost (c/kL) | From special schedule No. 5. | $[S_{2a} + S_{2b}] \times 100 \div \text{Col(32) Table 15}$ |
| (86) | Sewer Main Cost Components - Total Sewer Main Cost (\$'000/100km) | From special schedule No. 5. | $[S_{2a} + S_{2b}] \times 100 \div \text{Col(8) Table 14}$ |
| (87) | Sewer Main Cost Components - Operation (\$'000/100km) | From special schedule No. 5. | $[S_{2a}] \times 100 \div \text{Col(8) Table 14}$ |
| (88) | Sewer Main Cost Components - Maintenance (\$'000/100km) | From special schedule No. 5. | $[S_{2b}] \times 100 \div \text{Col(8) Table 14}$ |
| (89) | Treatment Cost Components - Total Sewage Treatment Cost (\$/ML) | From special schedule No. 5. | $[S_{2f} + S_{2g} + S_{2h} + S_{2i} + S_{2j} + S_{2k}] \div \text{Col(32) Table 15}$ |
| (90) | Treatment Cost Components - Operation (\$/property) | From special schedule No. 5. | $[S_{2f}] \div \text{Col(3) Table 14}$ |
| (91) | Treatment Cost Components - Maintenance (\$/property) | From special schedule No. 5. | $[S_{2k}] \div \text{Col(3) Table 14}$ |
| (92) | Treatment Cost Components - Chemical (\$/property) | From special schedule No. 5. | $[S_{2g}] \div \text{Col(3) Table 14}$ |

Notes:

- A. References to Q (eg. Q_{99Water}) refer to questions in each LWU's Sewerage Performance Reporting database.
- B. References to S (eg. S₁₅) refer to items in Special Schedules Nos 5 and 6 of each LWU's Annual Financial Statement.
- C. Where LWU data is missing or ambiguous, the figure has been determined from other supporting information (eg. Financial data or previous year's data).

Appendix C: 2009-10 Local water utility TBL performance reports

Shoalhaven City Council water supply – page 1

Shoalhaven City Council TBL Water Supply Performance 2009-10

WATER SUPPLY SYSTEM - Shoalhaven City Council serves a population of 90,700 (45,860 connected properties). Water is drawn from the Porters Creek and Shoalhaven River to supply Nowra, Bomaderry, St. Georges Basin, Shoalhaven Heads and Sussex Inlet. Bamarang, Cambewarra, Danjera and Porters Creek Dams have a total storage capacity of 13,360 ML. The Shoalhaven City Council system comprises 2 conventional water treatment works (103 ML/d), 1 microfiltration works at Kangaroo Valley (1.3 ML/d) and 1 direct filtration (10.5 ML/d), 44 service reservoirs (201 ML) 25 pumping stations, 114.8 ML/d delivery capacity into the distribution system, 519 km of transfer and trunk mains and 1042 km of reticulation. 70% of the supply is fully treated (Northern areas) and 30% is unfiltered (chlorinated - Southern areas).

PERFORMANCE - Shoalhaven City Council achieved 100% compliance with Best Practice requirements. The typical residential bill was \$286 which was much less than the statewide median of \$430 (Indicator 14). The economic real rate of return was 0.4% which was less than the statewide median (Indicator 43). The operating cost (OMA) per property was \$274 which was less than the statewide median of \$350 (Indicator 49). Water quality complaints were less than the statewide median of 4 (Indicator 25). Compliance with microbiological water quality was 100% with 4 of 4 zones compliant (Indicator 20), physical compliance was 100% (Indicator 19) and chemical compliance was 100% with 4 of 4 zones compliant (Indicator 19b). Current replacement cost of system assets was \$472M (\$9,500 per assessment), cash and investments were \$14.9M, debt was \$2M and revenue was \$19.7M (excluding capital works grants).

COMPLIANCE WITH BEST- PRACTICE MANAGEMENT GUIDELINES REQUIREMENTS

| | | | |
|---|------------|---|-------------|
| (1) Complete Current Strategic Business Plan & Financial Plan | YES | (3) Sound water conservation implemented | YES |
| (2) (2a) Pricing - Full Cost Recovery, without significant cross subsidies | Yes | (4) Sound drought management implemented | YES |
| (2b) & (2c) Pricing - Complying Residential Charges | Yes | (5) Complete performance reporting (by 15 September) | YES |
| (2c) Pricing - Complying non-Residential Charges | Yes | (6) Integrated water cycle management strategy | YES |
| (2d) Pricing - DSP with Commercial Developer Charges | Yes | COMPLIANCE WITH ALL REQUIREMENTS | 100% |

TRIPLE BOTTOM LINE (TBL) PERFORMANCE INDICATORS

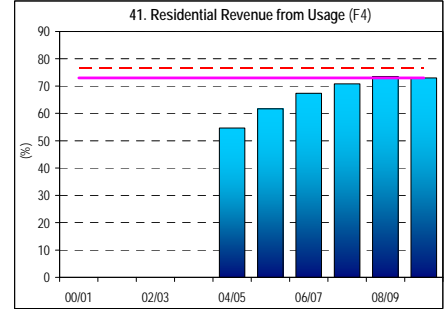
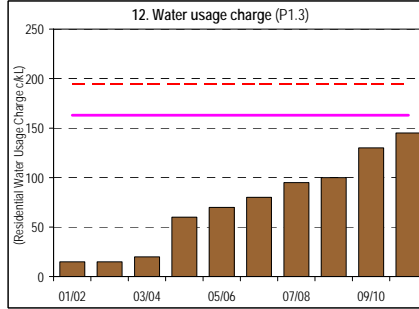
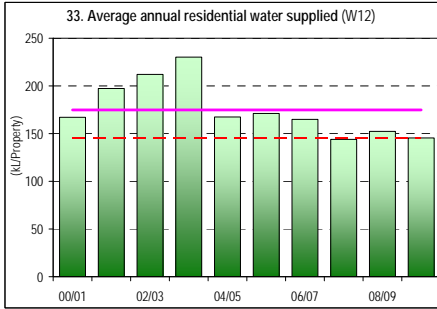
| | | LWU RESULT | | RANKING | | STATEWIDE | |
|--|-----------------------------|--|--------------------|----------|--------|-----------|-------|
| | | | >10,000 properties | All LWUs | | | |
| NWI No. | | | Note 1 | Note 2 | Note 3 | | |
| | | Col 1 | Col 2 | Col 3 | Col 4 | | |
| UTILITY | CHARACTERISTICS | C1 1 Population served: 90700 | | | | | |
| | | C4 2 Number of connected properties: 45860 | | | | | |
| | | C2 3 Residential connected properties (% of total) | | | | | |
| | | 4 New residences connected to water supply (%) | | | | | |
| | | A3 5 Properties served per kilometre of water main | Prop/km | | | | |
| | | 6 Rainfall (% of average annual rainfall) | | | | | |
| | | W11 7 Total urban water supplied at master meters (ML) | | | | | |
| | | 8 Peak week to average consumption (%) | | | | | |
| | | 9 Renewals expenditure (% of current replacement cost of system assets) | | | | | |
| | | 10 Employees per 1000 properties | per 1,000 prop | | | | |
| SOCIAL | CHARGES & BILLS - 2009-10 | P1 Residential tariff structure: inclining block; independent of land value | | | | | |
| | | 12 Residential water usage charge (c/kL) for usage <450 c/kL (Note 5) | 145 c/kL | 3 | 2 | 163 | |
| | | 13 Residential access charge per assessment (\$) | \$ 75 | 1 | 1 | 130 | |
| | | 14 Typical residential bill per assessment (\$) | \$ 286 | 1 | 1 | 430 | |
| | | 15 Typical developer charge per equivalent tenement (\$) | \$ 6,200 | 2 | 2 | 4,700 | |
| | HEALTH | H6 18 Urban population without reticulated water supply (%) | 1.0 % | 4 | 2 | 0.8 | |
| | | 18a Risk based drinking water quality plan? | Yes | | | | |
| | | 19 Physical water quality compliance (%) | 100 % | 1 | 1 | 100 | |
| | | 19a Chemical water quality compliance (%) | 100 % | 1 | 1 | 100 | |
| | | H4 19b Number of zones with chemical compliance | 4 of 4 | | | | |
| | SERVICE LEVELS | H3 20 Microbiological (E. coli) water quality compliance (%) | 100 % | 1 | 1 | 100 | |
| | | 20a % population with microbiological compliance | 100 % | 1 | 1 | 100 | |
| | | C9 25 Water quality complaints per 1000 properties | per 1,000 prop | 1 | 2 | 2 | 4 |
| | | C10 26 Water service complaints per 1000 properties | per 1,000 prop | 0 | 1 | 1 | 3 |
| | | C17 27 Average frequency of unplanned interruptions per 1000 properties | per 1,000 prop | 39 | 3 | 4 | 37 |
| ENVIRONMENTAL | NATURAL RESOURCE MANAGEMENT | C15 28 Average duration of interruption (min) | min | 112 | 1 | 2 | 159 |
| | | A8 30 Number of water main breaks per 100 km of water main | per 100km | 9 | 3 | 2 | 10 |
| | | 31 Drought water restrictions (% of time) | | 35 % | 3 | 3 | 87 |
| | | 32 Total days lost (%) | | 2.4 % | 4 | 4 | 2.4 |
| | WATER MANAGEMENT | W12 33 Average annual residential water supplied per property (kL) | | 145 kL | 1 | 1 | 175 |
| | | 33a Average annual residential water supplied - COASTAL (kL/property) | | 145 kL | 2 | 1 | 150 |
| | | 33b Average annual residential water supplied - INLAND (kL/property) | | | | | 252 |
| | | A10 34 Real losses (leakage) (L/service connection/day) | L/connect/d | 70 | 4 | 2 | 70 |
| ECONOMIC | FINANCE | 35 Energy consumption per Megalitre (kiloWatt hours) | kWh | 683 | 3 | 4 | 670 |
| | | 36 Renewable energy consumption (% of total energy consumption) | | | | | 0 |
| | | E12 36a Net greenhouse gas emissions - WS & Sge (net tonnes CO2 - equivalents per 1000 properties) | | 380 | 3 | 3 | 390 |
| | | F5 40 Revenue per property - water (\$) | \$ | 430 | 1 | 1 | 647 |
| | | F4 41 Residential revenue from usage charges (% of residential bills) | | 73 % | 3 | 2 | 73 |
| | | F17 43 Economic real rate of return - Water (%) | % | 0.4 % | 3 | 3 | 0.7 |
| | | 44 Return on assets - Water (%) | | 0.9 % | 2 | 3 | 0.9 |
| | EFFICIENCY | F22 45 Net Debt to equity - Water (%) | % | -4 % | 4 | 2 | -1.0 |
| | | F23 46 Interest cover - Water | | >100 | 1 | 1 | 4.5 |
| | | 47 Loan payment per property - Water (\$) | \$ | 14 | 3 | 3 | 55 |
| | | F24 47b Net profit after tax - WS & Sge (\$'000) | \$'000 | 7,320 | 1 | 1 | 0 |
| | | 48 Operating cost (OMA) per 100km of main (\$'000) | \$'000 | 827 | 2 | 2 | 1,140 |
| | | F11 49 Operating cost (OMA) per property (\$) (Note 6) | \$/prop | 274 | 1 | 1 | 350 |
| | | 50 Operating cost (OMA) per kilolitre (cents) | c/kL | 82 | 1 | 2 | 116 |
| 51 Management cost per property (\$) | \$/prop | 124 | 3 | 3 | 134 | | |
| 52 Treatment cost per property (\$) | \$/prop | 39 | 4 | 2 | 39 | | |
| 53 Pumping cost per property (\$) | \$/prop | 26 | 3 | 2 | 31 | | |
| 54 Energy cost per property (\$) | \$/prop | 19 | 3 | 2 | 18 | | |
| 55 Water main cost per property (\$) | \$/prop | 47 | 3 | 2 | 56 | | |
| F14 56 Capital Expenditure per property (\$) | \$/prop | 348 | 2 | 2 | 282 | | |

NOTES:

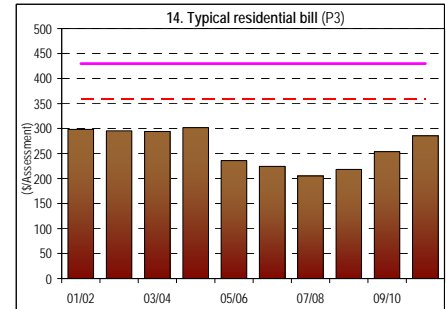
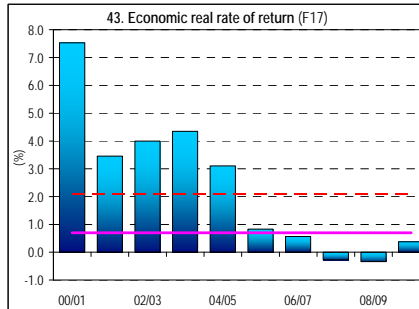
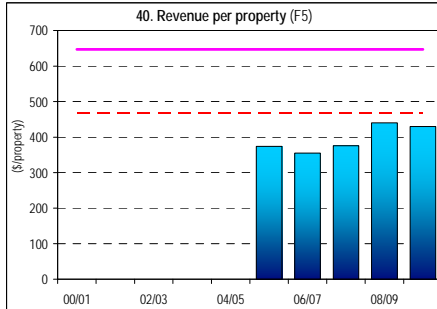
- The ranking compared with LWUs with >10,000 properties connected properties (Col 2) is on a % of LWUs basis - relevant for comparing performance with similar sized LWUs - see attachment.
- The ranking compared with all LWUs (Col 3) is on a % of LWUs basis - relevant for comparing performance with all other LWUs - see attachment.
- The Statewide Median (Col 4) is on a % of connected properties basis. It best reveals statewide performance by giving due weight to larger LWUs & reducing the effect of smaller LWUs - see attachment.
- Annual review of key projections and actions in LWU's Strategic Business Plan (SBP) are required, together with annual updating of LWU's financial plan. The SBP should be updated after 4 years.
- Non-residential Tariff: Access Charge based on Service Connection Size(40mm:\$300), Inclining Block ; For usage up to 450 kL = 145 c/kL; for usage >450 kL = 195 c/kL.
Water supplied to non-residential customers was 46% of potable water supplied excluding non-revenue water.
Non-residential customers provided 37% of the revenue from annual charges and usage charges.
- The operating cost (OMA)/property was \$274. Components were: management (\$124), operation (\$84), maintenance (\$36), energy (\$19) & chemical (\$10).

(Results shown for 10 years together with 2009-10 Statewide Median and Top 20%)

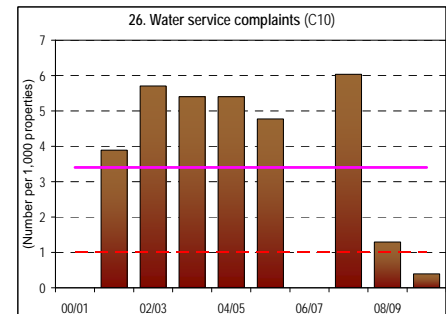
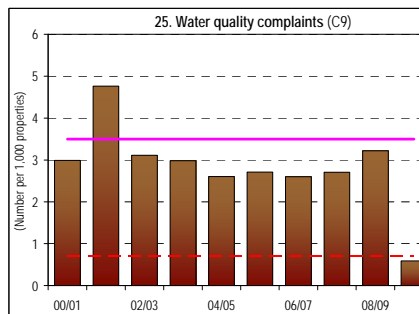
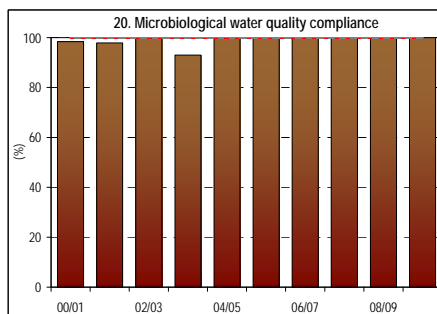
RESIDENTIAL USE/REVENUE FROM USAGE



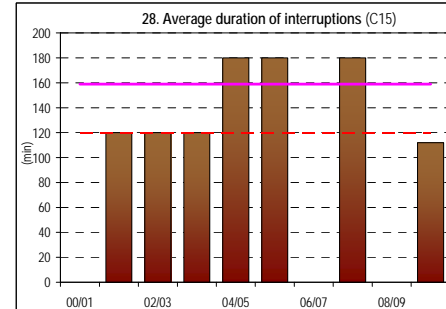
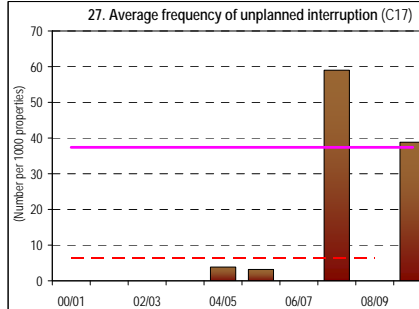
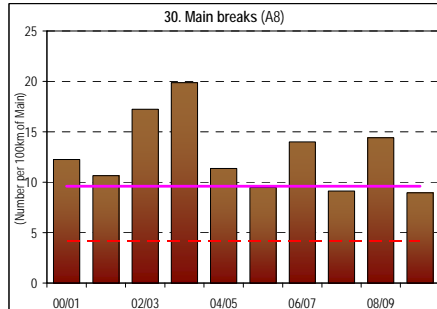
COST RECOVERY



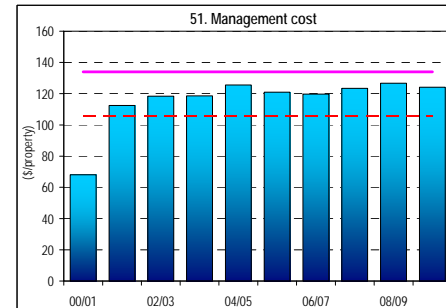
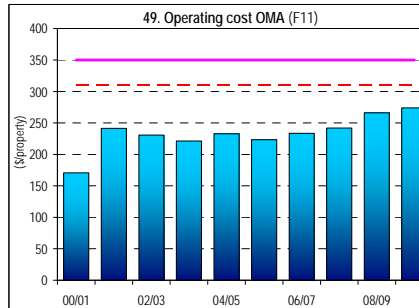
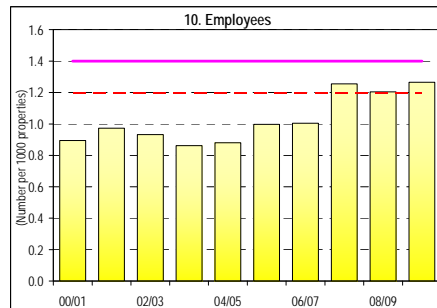
WATER QUALITY/CUSTOMER SERVICE



RELIABILITY



EFFICIENCY



NOTES:

- Costs are in Jan 2010\$.
- Microbiological water quality compliance 1999-00 to 2003-04 was on the basis of 1996 NHMRC/ARMCANZ Australian Drinking Water Guidelines for E. coli; from 2004-05 compliance was on the basis of the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines.

LEGEND
 2009-10 State Median (solid pink line)
 2009-10 Top 20% (dashed red line)

Shoalhaven City Council sewerage – page 1

Shoalhaven City Council TBL Sewerage Performance 2009-10

SEWERAGE SYSTEM - Shoalhaven Council has 12 sewage treatment works providing advanced secondary and tertiary treatment. The system comprises 133,800 EP treatment capacity (Intermittent Extended Aeration (Activated Sludge) and Trickling Filter), 221 pumping stations (785 ML/d), 168 km of rising mains and 949 km of gravity trunk mains and reticulation. Treated effluent is recycled by Council's Regional Effluent Management Scheme (REMS). Excess is discharged to ocean and river.

PERFORMANCE - Residential growth for 2009-10 was 1.9% which is higher than the statewide median. Shoalhaven City Council achieved 100% compliance with Best Practice requirements. The typical residential bill was \$615 which was above the statewide median of \$530 (Indicator 12). The economic real rate of return was similar to the statewide median (indicator 46). The operating cost per property (OMA) was \$427 which was above the statewide median of \$360 (Indicator 50). Sewage odour complaints were less than the statewide median of 0.6 (Indicator 21). Council did not comply with the SS requirements of the environmental regulator for effluent discharge. The current replacement cost of system assets was \$637M (\$13,900 per assessment), cash and investments were \$11M, debt was \$48M and revenue was \$32.7M (excluding capital works grants). Council paid a dividend of \$0.9M.

COMPLIANCE WITH BEST-PRACTICE MANAGEMENT GUIDELINES REQUIREMENTS

| | | | |
|---|-----|--|-------------|
| (1) Complete current strategic business plan & financial plan | YES | (2e) Pricing - DSP with commercial developer charges | Yes |
| (2) (2a) Pricing - Full Cost Recovery without significant cross subsidies | Yes | (2f) Pricing - Liquid trade waste approvals & policy | Yes |
| (2b) Pricing - Complying Residential Charges | Yes | (3) Complete performance reporting (by 15 September) | YES |
| (2c) Pricing - Complying Non-Residential Charges | Yes | (4) Integrated water cycle management strategy | YES |
| (2d) Pricing - Complying Trade Waste Fees and Charges | Yes | COMPLIANCE WITH ALL REQUIREMENTS | 100% |

TRIPLE BOTTOM LINE (TBL) PERFORMANCE INDICATORS

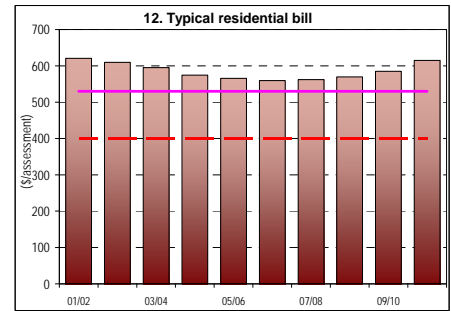
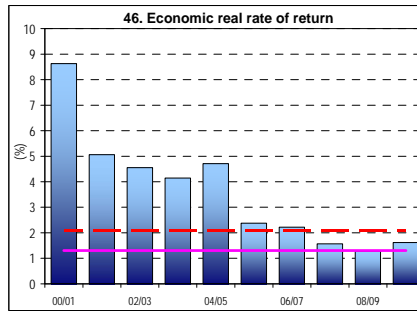
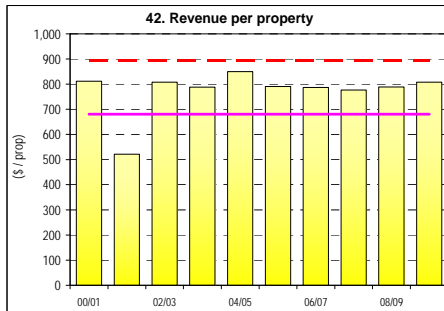
| Category | Indicator | Description | Unit | LWU RESULT | RANKING | | | STATEWIDE MEDIAN | |
|---------------------------|--|---|--|------------|--------------------|----------|-------|------------------|-----|
| | | | | | >10,000 properties | All LWUs | | | |
| | | | | Col 1 | Col 2 | Col 3 | Col 4 | | |
| UTILITY | C5 | 1 Population served: 80,700 | | | | | | | |
| | | | Number of assessments: 45,720 | | | | | | |
| | C8 | 2 Number of connected properties: | 40,510 | | | | | | |
| | C6 | 3 Number of residential connected properties: | 38,710 | | | | | | |
| | | 4 New residences connected to sewerage (%) | | | | | | | |
| | A6 | 5 Properties served per kilometre of main | | Prop/km | 1.9 | 1 | 1 | 0.9 | |
| | W18 | 6 Volume of sewage collected (ML) | | | 36 | | | 40 | |
| | | 7 Renewals expenditure (% of current replacement cost of system assets) | | | 6,950 | | | 4,900 | |
| SOCIAL | | 8 Employees per 1000 properties | | | 0.3 | 3 | 2 | 0.3 | |
| | | | | | 2.1 | 5 | 4 | 1.6 | |
| | P4 | Description of residential tariff structure: | | | | | | | |
| | | | access charge/prop: independent of land value (Note 5) | | | | | | |
| | P4.1 | 11 Residential access charge / assessment (\$) | | \$ | 615 | 3 | 5 | 525 | |
| | P6 | 12 Typical residential bill / assessment (\$) | | \$ | 615 | 3 | 5 | 530 | |
| | | 13 Typical developer charge / equivalent tenement (\$) | | \$ | 7,860 | 2 | 1 | 4,200 | |
| | | 14 Non-residential sewer usage charge (c/kL) | | c/kL | 95 | 4 | 4 | 105 | |
| | | 16 Urban properties without reticulated sewerage service (%) | | | 2.2 | 3 | 2 | 3.9 | |
| | E3 | 17 Percent of sewage treated to a tertiary level (%) | | | 58 | 4 | 3 | 93 | |
| | E4 | 18 Percent of sewage volume treated that complied (%) | | | 83 | 5 | 4 | 99 | |
| | E5 | 19 Sewage treatment works compliant at all times | | | 10 of 12 | | | | |
| SERVICE LEVELS | | 21 Odour complaints per 1000 properties | | | 0.3 | 2 | 4 | 0.6 | |
| | C11 | 22 Service complaints per 1000 properties | | | 7 | 3 | 2 | 10 | |
| | C16 | 23a Average sewerage interruption (minutes) | | | 96 | 2 | 3 | 118 | |
| | | 25 Total days lost (%) | | | 3.2 | 3 | 5 | 2.5 | |
| | ENVIRONMENTAL | W19 | 26 Volume of sewage collected per property (kL) | | | 171 | 1 | 1 | 220 |
| | | W26 | 26a Total recycled water supplied (ML) | | | 2,430 | 1 | 1 | 620 |
| W27 | | 27 Recycled water (% of effluent recycled) | | | 35 | 2 | 2 | 11 | |
| E8 | | 28 Biosolids reuse (%) | | | 100 | 1 | 1 | 100 | |
| | | 30 Energy consumption per Megalitre (kiloWatt hours) | | kwh | 1,032 | 5 | 5 | 910 | |
| | | 31 Renewable energy consumption (% of total energy consumption) | | | 0 | 1 | 1 | 0 | |
| E12 | | 32 Net greenhouse gas emissions - WS & Sge (net tonnes CO2 equivalents per 1000 properties) | | | 380 | 4 | 4 | 350 | |
| | | 33 90 Percentile licence limits for effluent discharge: BOD 40 mg/L; SS 40 mg/L | | | | | | | |
| | | 34 Compliance with BOD in licence (%) | | | 100 | 1 | 1 | 100 | |
| | | 35 Compliance with SS in licence (%) | | | 83 | 5 | 5 | 100 | |
| ENVIRONMENTAL PERFORMANCE | A12 | 36 Sewer main breaks and chokes per 100 km of main | | | 15 | 1 | 2 | 39 | |
| | E13 | 37 Sewer overflows per 100 km of main | | | 39 | 5 | 5 | 15 | |
| | | 39 Non res & trade waste % of total sge volume | | | 17 | 3 | 3 | 18 | |
| | ECONOMIC | F6 | 42 Revenue per property - Sge (\$) | | | 810 | 4 | 4 | 680 |
| | | 43 Revenue from non-residential plus trade waste charges (% of total revenue) | | | 14 | 4 | 3 | 18 | |
| | | 44 Revenue from trade waste charges (% of total revenue) | | | 0.7 | 4 | 3 | 2.3 | |
| F18 | | 46 Economic real rate of return - Sge (%) | | | 1.6 | 2 | 2 | 1.3 | |
| 46a | | Return on assets - Sge (%) | | | 1.1 | 3 | 3 | 1.6 | |
| F22 | | 47 Net Debt to equity - Sge (%) | | | 8 | 2 | 1 | -2 | |
| F23 | | 48 Interest cover - Sge | | | 3 | 4 | 4 | 3 | |
| 48a | | Loan payment per property - Sge (\$) | | | 162 | 2 | 1 | 38 | |
| F24 | | 47b Net profit after tax - WS & Sge (\$'000) | | \$'000 | 7,320 | | | 303 | |
| | | 49 Operating cost (OMA) per 100 km of main (\$'000) | | \$'000 | 1,520 | 3 | 4 | 1,490 | |
| F12 | | 50 Operating cost (OMA) per property (\$) Note 8 | | | 427 | 4 | 5 | 360 | |
| | | 51 Operating cost (OMA) per kilolitre (cents) | | c/kL | 249 | 5 | 5 | 164 | |
| | 52 Management cost per property (\$) | | | 150 | 3 | 5 | 128 | | |
| | 53 Treatment cost per property (\$) | | | 110 | 1 | 2 | 115 | | |
| | 54 Pumping cost per property (\$) | | | 80 | 5 | 5 | 55 | | |
| | 55 Energy cost per property (\$) | | | 24 | 2 | 3 | 26 | | |
| | 56 Sewer main cost per property (\$) | | | 52 | 4 | 4 | 40 | | |
| F15 | 57 Capital Expenditure per property (\$) | | | 650 | 2 | 1 | 252 | | |

NOTES:

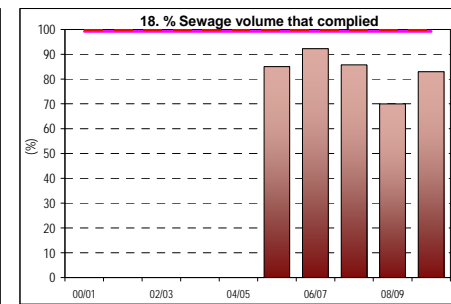
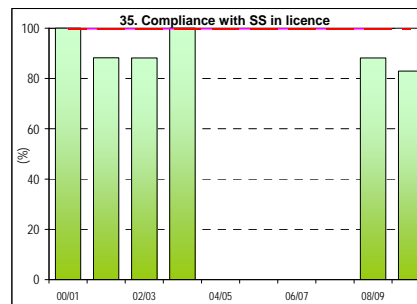
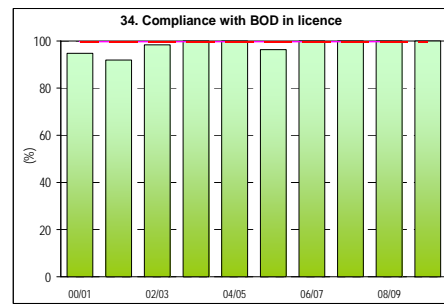
- Council's ranking in Col 2 is based on a comparison of its result in Col 1 with the percentiles for LWUs with >10,000 properties. This is on a % of LWUs basis - see also Note 2.
- Council's ranking in Col 3 is based on a comparison of its result in Col 1 with the percentiles for all LWUs. This is also on a % of LWUs basis as this is relevant for comparing the performance of an LWU with all other LWUs - see attachment.
- The Statewide Median (Col 4) is on a % of connected properties basis. It best reveals statewide performance giving due weight to larger LWUs & reducing the effect of smaller LWUs.
- Annual review of the key projections & actions in your LWU's Strategic Business Plan (SBP) are required, together with annual updating of your LWU's Financial Plan. The SBP should be updated after 4 years.
- Non-residential: Access Charge based on square of meter size, sewer usage charge - 95c/kL.
- Non-residential & trade waste volume was 17% of total sewage collected; these customers provided 14% of the revenue from annual charges, usage and trade waste charges.
- Compliance with Total N in Licence was 100%. Compliance with Total P in Licence was 100%.
- The operating cost (OMA)/property was \$427. Components were: management (\$150), operation (\$182), maintenance (\$52), energy (\$24), chemical (\$3) and effluent/biosolids (\$16).

(Results shown for 10 years together with 2009/10 Statewide Median and Top 20%)

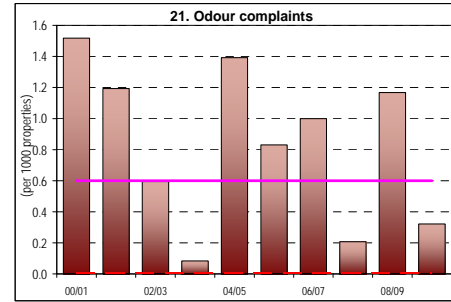
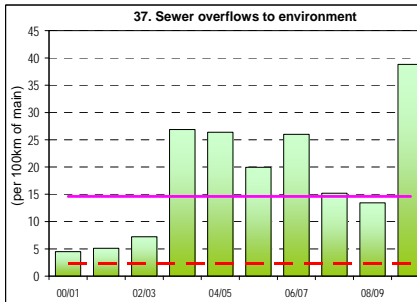
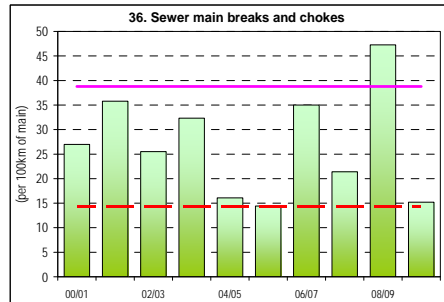
COST RECOVERY



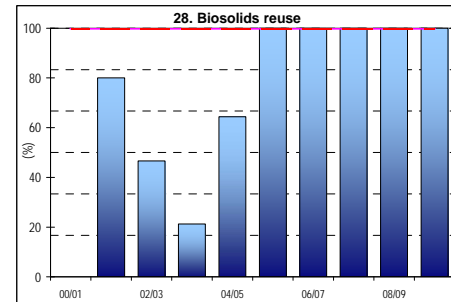
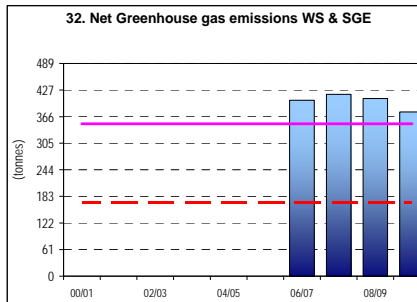
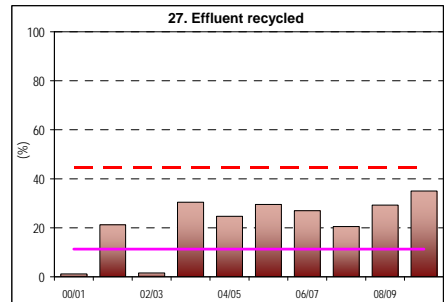
COMPLIANCE



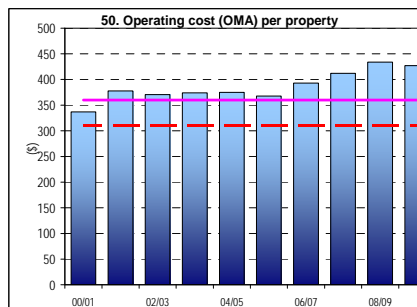
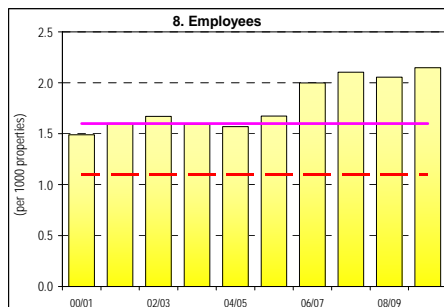
CUSTOMER SERVICE/RELIABILITY



ENVIRONMENT



EFFICIENCY



NOTES:

1. Costs are in Jan 2010\$.

LEGEND
 2009-10 State Median (solid magenta line)
 2009-10 Top 20% (dashed red line)

Water performance percentiles (% of LWUs basis) 2009-10

| | NSW Non-metropolitan Utilities Percentiles | | | | | National Reporting Medians ³ | |
|---|--|-------|---------------|--------------|-------|---|----------------------|
| | 20% | 40% | 50% Median | 60% | 80% | >100,000 properties | < 100,000 properties |
| UTILITY CHARACTERISTICS | | | | | | | |
| 3 | Residential Assessments (% of total) | 91 | 89 | 88 | 87 | 85 | |
| 4 | New Residential Dwellings Connected to Water Supply (%) | 1.5 | 1.0 | 0.9 | 0.7 | 0.3 | |
| 5 | Properties Served per km of Main | 35 | 30 | 28 | 25 | 17 | A3 69 32 |
| 6 | Rainfall (% of average annual rainfall) | 127 | 104 | 101 | 93 | 82 | |
| 7 | Total Urban Water Supplied (at Master Meters - ML) | 4810 | 2340 | 1590 | 1200 | 670 | W11 103,370 8,348 |
| 8 | Peak Week to Average Consumption (%) | 140 | 150 | 170 | 180 | 220 | |
| 9 | Renewals Expenditure (% of current replacement cost of system assets) | 1.2 | 0.5 | 0.4 | 0.3 | 0.2 | |
| 10 | Employees (employees per 1000 properties) | 1.2 | 1.5 | 1.8 | 2.1 | 2.8 | |
| SOCIAL - Charges/Bills (2010/11) | | | | | | | |
| 12 | Residential Water Usage Charge (c/kL) | 180 | 145 | 135 | 120 | 90 | P1.3 157 128 |
| 13 | Residential Access Charge (\$/assessment) | 130 | 180 | 205 | 235 | 280 | P1.2 124 142 |
| 14 | Typical Residential Bill (\$/assessment) | 410 | 495 | 535 | 565 | 650 | P3 418 434 |
| 15 | Typical Developer Charge (\$/equivalent tenement) | 6400 | 4500 | 4000 | 3400 | 1800 | |
| SOCIAL - Health | | | | | | | |
| 18 | Urban Population without Reticulated Water Supply (%) | 0.0 | 1.8 | 2.4 | 4.1 | 8.1 | |
| 19 | Physical Water Quality Compliance (%) | 100 | 100 | 100 | 100 | 100 | |
| 19a | Chemical Water Quality Compliance (%) | 100 | 100 | 100 | 100 | 100 | |
| 20 | Microbiological (E. coli) Water Quality Compliance (%) | 100 | 100 | 100 | 100 | 100 | |
| 20a | Percent Population with Microbiological Compliance | 100 | 100 | 100 | 100 | 100 | H3 100 100 |
| SOCIAL - Levels of Service | | | | | | | |
| 25 | Water Quality Complaints (per 1000 properties) | 0.0 | 1.1 | 1.7 | 3.0 | 5.8 | C9 2.2 3.0 |
| 26 | Water Service Complaints (per 1000 properties) | 2.3 | 4.9 | 9.1 | 16.7 | 48.0 | C10 0.5 3.3 |
| 27 | Customer Interruption Frequency (per 1000 properties) | 6 | 14 | 24 | 34 | 51 | C17 145 68 |
| 28 | Average Duration of Interruption (minutes) | 90 | 120 | 120 | 120 | 180 | C15 119 81 |
| 30 | Number of Main Breaks (per 100 km of main) | 6 | 10 | 12 | 14 | 23 | A8 24 12 |
| 31 | Drought Water Restrictions (% of time) | 0 | 15 | 87 | 100 | 100 | |
| 32 | Total Days Lost (%) | 0 | 0 | 1 | 2 | 3 | |
| ENVIRONMENTAL | | | | | | | |
| 33 | Average Annual Residential Supplied (kL/property) | 170 | 200 | 225 | 280 | 435 | W12 182 188 |
| 33a | Average Annual Residential Supplied COASTAL (kL/property) | 150 | 170 | 170 | 180 | 195 | |
| 33b | Average Annual Residential Supplied INLAND (kL/property) | 205 | 255 | 305 | 340 | 485 | |
| 34 | Real Loss (leakage) (L/service connection/day) | 50 | 70 | 70 | 90 | 120 | A10 63 71 |
| 35 | Energy Consumption (kWh/ML) | 230 | 470 | 500 | 570 | 830 | |
| 36 | Renewable Energy Consumption (% of Total Energy) | 0 | 0 | 0 | 0 | 0 | |
| 36a | Net Greenhouse Gas Emissions - WS & Sge (net tonnes CO2 - equivalents/1000props) | 220 | 300 | 340 | 400 | 470 | E12 262 431 |
| ECONOMIC - Financial | | | | | | | |
| 40 | Revenue per property - Water (\$) | 550 | 640 | 670 | 730 | 820 | F5 605 641 |
| 41 | Residential Revenue from Usage Charges (% of total rates and charges) | 75 | 70 | 60 | 60 | 50 | F4 66 64 |
| 42 | Current Replacement Cost per Assessment (\$) | 16420 | 14190 | 12880 | 11700 | 10110 | |
| 43 | Economic Real Rate of Return (%) | 2.2 | 1.1 | 0.6 | 0.2 | -1.0 | F17 3.2 1.9 |
| 44 | Return on Assets (%) | 2.7 | 1.3 | 0.6 | 0.0 | -0.8 | |
| 45 | Net Debt to Equity (%) | -1 | -5 | -7 | -8 | -16 | F22 49 9 |
| 46 | Interest Cover | >100 | >100 | 8 | 1 | 0 | F23 3 3 |
| 47 | Loan Payment (\$/property) | 85 | 23 | 9 | 2 | 0 | |
| 47a | Net Profit After Tax Ratio - WS & Sge (%) | 23 | 12 | 6 | 2 | -7 | F30 15 14 |
| 47b | Net Profit After Tax - WS & Sge (\$) | 215 | 90 | 70 | 50 | 30 | F24 65,696 2,775 |
| ECONOMIC - Efficiency | | | | | | | |
| 48 | Operating Cost (OMA) per 100 km of Main (\$'000) | 710 | 925 | 1060 | 1185 | 1510 | |
| 49 | Operating Cost (OMA) per property (\$/property) | 340 | 390 | 415 | 455 | 535 | F11 311 372 |
| 50 | Operating Cost (OMA) per kL (c/kL) | 70 | 100 | 107 | 120 | 145 | |
| 51 | Management Cost (\$/property) | 95 | 120 | 135 | 145 | 180 | |
| 52 | Treatment Cost (\$/property) | 35 | 65 | 95 | 125 | 160 | |
| 53 | Pumping Cost (\$/property) | 16 | 36 | 47 | 54 | 83 | |
| 54 | Energy Cost (\$/property) | 9 | 19 | 28 | 31 | 50 | |
| 55 | Water Main Cost (\$/property) | 45 | 62 | 68 | 86 | 105 | |
| 56 | Capital Expenditure - Water Supply (\$/property) | 428 | 231 | 183 | 136 | 51 | F28 268 231 |

Notes:

- 20% top 20% of all NSW LWUs
Median (50%) median of all NSW LWUs
80% bottom 20% of all NSW LWUs
- The above performance indicators are on a percentage of LWUs basis as this is the most appropriate basis for comparing the performance of one LWU with other LWUs (throughout the rest of the report and in Table 1 the percentage of connected properties is used as this is the most appropriate for judging Statewide performance by giving due weight to larger LWUs and reducing the effect of smaller LWUs).
- From the *National Performance Report 2009-10* which shows performance indicators for 79 Australian urban water utilities with >10,000 properties [Note 19 on page 33].

Sewerage performance percentiles (% of LWUs basis) 2009-10

| UTILITY CHARACTERISTICS | NSW Non-metropolitan Utilities | | | | | National Reporting Medians ³ | | |
|--|--------------------------------|-------|---------------|-------|-------|---|---------------------|----------------------|
| | Percentiles | | | | | Indicator | >100,000 properties | < 100,000 properties |
| | 20% | 40% | 50% Median | 60% | 80% | | | |
| 3 Residential Assessments (% of Total) | 87 | 89 | 90 | 90 | 93 | | | |
| 4 New Residential Dwellings Connected to Sewerage (%) | 1.2 | 0.8 | 0.6 | 0.5 | 0.3 | | | |
| 5 Properties Served per km of Main | 42 | 36 | 35 | 34 | 29 | A6 | 69 | 40 |
| 6 Volume of Sewage Collected (ML) | 3150 | 880 | 630 | 450 | 240 | W18 | 85,106 | 4,701 |
| 7 Renewals Expenditure (% of current replacement cost of system assets) | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 | | | |
| 8 Employees (per 1000 properties) | 1.0 | 1.5 | 1.8 | 1.9 | 2.6 | | | |
| SOCIAL - Charges/Bills (2010/11) | | | | | | | | |
| 11 Residential Access Charge (\$/assessment) | 360 | 440 | 480 | 515 | 610 | P4.1 | 410 | 476 |
| 12 Typical Residential Bill (\$/assessment) | 360 | 440 | 470 | 515 | 610 | P6 | 444 | 489 |
| 13 Typical Developer Charge (\$/equivalent tenement) | 5340 | 4120 | 3360 | 2500 | 1320 | | | |
| 14 Non-residential sewer usage charge (c/kL) | 172 | 135 | 112 | 103 | 83 | | | |
| SOCIAL - Health | | | | | | | | |
| 16 Urban Properties without Reticulated Sewerage Service (%) | 1 | 4 | 6 | 7 | 12 | | | |
| 17 Percent of sewage treated to a tertiary level (%) | 100 | 97 | 73 | 30 | 0 | E3 | 95 | 89 |
| 18 Percent of sewage volume treated that was compliant (%) | 100 | 100 | 100 | 93 | 75 | E4 | 100 | 98 |
| SOCIAL - Levels of Service | | | | | | | | |
| 21 Odour Complaints (per 1000 properties) | 0.0 | 0.0 | 0.0 | 0.3 | 1.2 | | | |
| 22 Service Complaints (per 1000 properties) | 4 | 11 | 16 | 23 | 39 | C11 | 1 | 4 |
| 23a Average Duration of Interruptions (min) | 60 | 60 | 90 | 120 | 120 | C16 | 171 | 98 |
| 25 Total Days Lost | 0 | 0 | 0 | 1 | 3 | | | |
| ENVIRONMENTAL | | | | | | | | |
| 26 Volume of Sewage Collected per property (kL) | 3145 | 875 | 625 | 450 | 240 | W19 | 207 | 214 |
| 26a Total recycled water supplied (ML) | 729 | 349 | 188 | 147 | 65 | W26 | 5,348 | 827 |
| 27 Effluent Reclaimed for Recycling (% of total effluent) | 73 | 25 | 17 | 11 | 1 | W27 | 16 | 18 |
| 28 Biosolids Reuse (%) | 100 | 0 | 0 | 0 | 0 | E8 | 100 | 100 |
| 30 Energy Consumption (kWh/ML) | 379 | 635 | 734 | 864 | 1030 | | | |
| 31 Renewable Energy Consumption (% of total energy consumption) | 0 | 0 | 0 | 0 | 0 | | | |
| 32 Net greenhouse gas emissions - WS & Sge (net tonnes CO2 equivalents per 100 | 220 | 300 | 340 | 400 | 460 | E12 | 262 | 431 |
| 90 Percentile Licence Limits for Effluent Discharge: | | | | | | | | |
| BOD 35 mg/L; SS 40 mg/L; Total N 25 mg/L; Total P 5 mg/L | | | | | | | | |
| 34 Compliance with BOD in Licence (%) | 100 | 100 | 100 | 100 | 99 | | | |
| 35 Compliance with SS in Licence (%) | 100 | 100 | 100 | 100 | 86 | | | |
| 36 Sewerage Main Breaks and Chokes (per 100 km of main) | 10 | 26 | 38 | 50 | 96 | A14 | 43 | 20 |
| 37 Sewer Overflows to the Environment (per 100 km of main) | 0 | 2 | 3 | 6 | 21 | E13 | 0.4 | 1.4 |
| ECONOMIC - Financial | | | | | | | | |
| 42 Revenue per property - Sge (\$) | 760 | 610 | 570 | 530 | 420 | F6 | 623 | 714 |
| 43 Revenue from Non-residential and Trade Waste Charges (% of total rates & c | 26 | 21 | 19 | 17 | 11 | | | |
| 44 Revenue from Trade Waste Charges (% of total rates & charges) | 3 | 1 | 0 | 0 | 0 | | | |
| 45 Current Replacement Cost per assessment (\$) | 15600 | 13500 | 12400 | 11700 | 10000 | | | |
| 46 Economic Real Rate of Return (%) | 2.0 | 1.2 | 0.6 | 0.3 | -0.7 | F18 | 4.9 | 2.1 |
| 46a Return on Assets (%) | 3.1 | 1.8 | 0.9 | 0.5 | -0.1 | | | |
| 47 Net Debt to Equity (%) | -6 | -15 | -17 | -22 | -41 | F22 | 49 | 9 |
| 48 Interest Cover | >100 | >100 | 4 | 2 | 0 | F23 | 3 | 3 |
| 48a Loan Payment (\$/property) | 112 | 42 | 19 | 6 | 0 | | | |
| 48b Net Profit After Tax Ratio WS & Sge (%) | 23 | 11 | 4 | 2 | -7 | F30 | 15 | 14 |
| 48c Net Profit After Tax WS & Sge (\$) | 2134 | 579 | 146 | 30 | -175 | F24 | 89,400 | 7,189 |
| ECONOMIC - Efficiency | | | | | | | | |
| 49 Operating Cost (OMA) per 100 km of Main (\$'000) | 820 | 1040 | 1185 | 1280 | 1575 | | | |
| 50 Operating Cost (OMA) per property (\$/property) | 270 | 310 | 340 | 360 | 420 | F12 | 268 | 366 |
| 51 Operating Cost (OMA) per kL (c/kL) | 120 | 145 | 160 | 170 | 210 | | | |
| 52 Management Cost (\$/property) | 60 | 98 | 108 | 126 | 150 | | | |
| 53 Treatment Cost (\$/property) | 70 | 110 | 120 | 120 | 170 | | | |
| 54 Pumping Cost (\$/property) | 25 | 35 | 40 | 50 | 65 | | | |
| 55 Energy Cost (\$/property) | 15 | 23 | 24 | 30 | 35 | | | |
| 56 Sewer Main Cost (\$/property) | 25 | 40 | 45 | 50 | 70 | | | |
| 57 Capital Expenditure (\$/property) | 590 | 240 | 170 | 100 | 50 | F29 | 214 | 330 |

Notes:

- 20% top 20% of LWUs
Median (50%) median of LWUs
80% bottom 20% of LWUs
- The above performance indicators are on a percentage of LWUs basis as this is the most appropriate basis for comparing the other LWUs (throughout the rest of the report and in Table 2 the percentage of connected properties is used as this is the most judging Statewide performance by giving due weight to larger LWUs and reducing the effect of smaller LWUs).
- From the *National Performance Report 2009-10* which shows performance indicators for 79 Australian urban water utilities with >10,000 properties [Note 19 on page 33].

| Water Utility | Source/type (Bulk Supplier) | Water Treatment Works | Year built or Augmented | Capacity ML/d 37b | Type of Treatment Works ³ | Volume Treated to Potable ML 38b | Colour Units | | | | Turbidity Units | | | | Compliance with 2004 NHMRC/NRMC Australian Drinking Water Guidelines ^{3,4} | | | | | | | | | | Water Quality Complaints ⁵ | No. of Samples + Allocation ⁶ | | Chloroform in System Failure days 45 | Major Malfunction of Treatment Processes days 46 | | | | | | | | | | | | | |
|-----------------------------------|-----------------------------|--|-------------------------|-------------------------|--------------------------------------|--|--------------|------------|---------------|------------|-----------------|------------|---------------|------------|---|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------------------------------|--|----------|--|--|------------------------------------|------------------------------------|-----------|----------------|----------|----------|---|---|---|---|-----|---|---|
| | | | | | | | Raw Water | | Treated Water | | Raw Water | | Treated Water | | Colour | | Turbidity | | pH | | Physical | | Chemical | | | E. coli | | | | E. coli Zones Compliance 42m | E. coli % Pop Compliance 42n | No. 43 | 7,100 Props | % 44a | % 44b | | | | | | | |
| | | | | | | | Max 39a | Avg 39b | Max 39c | Avg 39d | Max 40a | Avg 40b | Max 40c | Avg 40d | Samples 42a | % 42b | Samples 42c | % 42d | Samples 42e | % 42f | Samples 42g | % 42h | Samples 42i | % 42j | | Samples 42k | % 42l | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooma-Monaro Council | | Cooma | 1985 | 15 | C | 1221 | 70 | 31 | 8 | 1 | 223 | 9 | 1.5 | 0.9 | 11 | 100 | 11 | 100 | 11 | 87 | 11 | 100 | 11 | 100 | 63 | 100 | | | | | 92 | 98 | | | | | | | | | | |
| | | Nimmitabel | 2004 | 1 | CH | 22 | | | 41 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Bredbo | 2006 | 1 | CH | 29 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 17 | | 1272 | 70 | 30 | 41 | 1 | 223 | 9 | 3 | 0.9 | 1.4 | 96 | 14 | 100 | 15 | 100 | 15 | 100 | 15 | 100 | 116 | 100 | 3 of 3 | 100 | 4 | 1.3 | | | | | 0 | 0 | | | | | | |
| Coonamble Shire Council | | Coonamble | 1993 | 8 | CH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Gulgambone | | 2 | CH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Quambone | | 2 | CH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cootamundra Shire Council | purchase (Goldenfields) | Corowa | 2002 | 15 | DAF | 1025 | 110 | 42 | 9 | 3 | 62 | 20 | 1 | 0.4 | 180 | 100 | 161 | 100 | 365 | 100 | 365 | 100 | 12 | 100 | 50 | 100 | | | | | | | | | | | | | | | | |
| | | Mulwala | 1944 | 13 | C | 923 | | | | | 39 | 16 | 1 | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Howlong | 1989 | 5 | LS | 242 | 324 | 115 | | | 71 | 19 | 2 | 0.7 | 365 | 100 | 365 | 100 | 365 | 100 | 365 | 100 | 365 | 100 | 12 | 100 | 48 | 100 | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 33 | | 2190 | 324 | 32 | 9 | 2 | 71 | 18 | 2 | 0 | 545 | 100 | 891 | 100 | 1,095 | 100 | 1,097 | 100 | 38 | 100 | 162 | 100 | 3 of 4 | 100 | 25 | 3.8 | | | | | | | 0 | 0 | | | | |
| Corowa Shire Council | | Ballalate | | | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 33 | | 2190 | 324 | 32 | 9 | 2 | 71 | 18 | 2 | 0 | 545 | 100 | 891 | 100 | 1,095 | 100 | 1,097 | 100 | 38 | 100 | 162 | 100 | 3 of 4 | 100 | 25 | 3.8 | | | | | | | | 0 | 0 | | | |
| | | Broken Hill (Mica St) | 2002 | 36 | C | 4406 | 35 | 16 | 2 | | 251 | 161 | 2 | 0 | 365 | 100 | 365 | 100 | 12 | 100 | 12 | 100 | 12 | 100 | 120 | 100 | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 37 | | 4497 | 35 | 15.7 | 2 | | 1000 | 162 | 3.62 | 0.95 | 365 | 100 | 730 | 100 | 377 | 100 | 24 | 100 | 24 | 100 | 168 | 100 | 2 of 2 | 100 | 1 | 0.1 | | | | | | | | | | 0.1 | | |
| Country Energy | Menindee Lakes (State) | Cowra | 1985 | 29 | C | 2345 | | | 2 | 1 | 460 | 7.4 | 0.4 | 0.2 | 11 | 100 | 11 | 100 | 11 | 100 | 11 | 100 | 11 | 100 | 97 | 100 | 1 of 1 | 100 | 79 | 80 | 92 | 67 | | | | | | | | | | |
| | | Deniliquin Council | 1968 | 26 | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Dubbo City Council | 2007 | 80 | C | 8342 | 520 | 31 | 12 | 1 | 288 | 10 | 1 | 0 | 365 | 100 | 365 | 100 | 132 | 81 | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 37 | | 4497 | 35 | 15.7 | 2 | | 1000 | 162 | 3.62 | 0.17 | 365 | 100 | 730 | 100 | 377 | 100 | 24 | 100 | 24 | 100 | 168 | 100 | 2 of 2 | 100 | 1 | 0.1 | | | | | | | | | | 0.1 | | |
| Eurobodalla Shire Council | unfiltered | John Gilbert | 2007 | 80 | C | 8342 | 520 | 31 | 12 | 1 | 288 | 10 | 1 | 0 | 365 | 100 | 365 | 100 | 132 | 81 | | | | | | | | | | | | | | | | | | | | | | |
| | | Eurobodalla | | | CH | 3825 | | | | | 13 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 33 | | 2190 | 324 | 32 | 9 | 2 | 71 | 18 | 2 | 0 | 545 | 100 | 891 | 100 | 1,095 | 100 | 1,097 | 100 | 38 | 100 | 162 | 100 | 3 of 4 | 100 | 25 | 3.8 | | | | | | | | | 0 | 0 | | |
| | | Duckmaloi | 2003 | 11 | MF | 664 | 45 | 29 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fish River Water Supply | | Forbes | 1966 | 26 | C | 2010 | 120 | 19 | 10 | 3 | 62 | 12 | 1 | 0.6 | 365 | 100 | 365 | 100 | 8 | 100 | 24 | 100 | 208 | 100 | 59 | 100 | 1 of 1 | 100 | 7 | 1.4 | 100 | 92 | 0 | 0 | | | | | | | | |
| | | Gilgandra | 1984 | 6 | C | 731 | 3 | 2 | 1 | 0 | 40 | 10 | 2 | 0.6 | 2 | 100 | 2 | 100 | 2 | 100 | 3 | 100 | 3 | 100 | 52 | 100 | 1 of 1 | 100 | 15 | 7.3 | 100 | 100 | 2 | 0 | | | | | | | | |
| | | Martins Lookout | 1982 | 12 | C | 654 | 1,290 | 61 | 15 | 1 | 57 | 4 | 1 | 1 | 365 | 100 | 365 | 100 | 36 | 100 | 36 | 100 | 12 | 100 | 49 | 100 | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 14 | | 667 | 1,290 | 60 | 15 | 1 | 57 | 4 | 1 | 0 | 365 | 100 | 365 | 100 | 48 | 75 | 39 | 100 | 15 | 100 | 73 | 100 | 2 of 2 | 100 | | 4.2 | | | | | | | | | | | | |
| Glen Innes Severn Shire Council | | Gloucester | 1981 | 5 | C | 416 | 250 | 33 | 1 | 1 | 83 | 8 | 0 | 0 | 2 | 100 | 2 | 100 | 2 | 100 | 2 | 100 | 2 | 100 | 48 | 100 | | | | | | | | | | | | | | | | |
| | | Barrington | 1981 | 1 | CH | 30 | 250 | 8 | 250 | 8 | 83 | 2 | 83 | 1.9 | 2 | 100 | 2 | 100 | 2 | 100 | 2 | 100 | 2 | 100 | 49 | 82 | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 5 | | 446 | 250 | 31 | 250 | 1 | 83 | 7 | 83 | 0 | 4 | 100 | 4 | 100 | 4 | 100 | 4 | 100 | 4 | 100 | 4 | 100 | 97 | 91 | 1 of 2 | 95 | 6 | 1.2 | | | | | | | 5 | 0 | | |
| | | Oura | 1975 | 26 | A | 4006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Goldenfields Water County Council | groundwater | Jugiong | 1991 | 40 | C | 3159 | 300 | 50 | 10 | 5 | 1,000 | 18 | 0 | 0 | 365 | 100 | 365 | 100 | 365 | 99 | 1,478 | 100 | 895 | 100 | 84 | 100 | | | | | | | | | | | | | | | | |
| | | Mount Arthur | | 4 | CH | 473 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Mount Daylight | | | | 184 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 44 | | 3816 | 300 | 41 | 10 | 4 | 1,000 | 15 | 0 | 0 | 368 | 100 | 368 | 100 | 368 | 99 | 1,481 | 100 | 898 | 100 | 174 | 100 | 2 of 3 | 99 | 18 | | | | | | | | | | | | | |
| Gosford City Council | | Somersby | 1986 | 140 | C | 11489 | 710 | 134 | 3 | 1 | 80 | 12 | 2 | 0 | 14 | 100 | 14 | 100 | 14 | 100 | 14 | 100 | 14 | 100 | 398 | 100 | | | | | | | | | | | | | | | | |
| | | Woy Woy | 2007 | 5 | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 145 | | 11489 | 710 | 134 | 3 | 1 | 80 | 12 | 2 | 0 | 14 | 100 | 14 | 100 | 14 | 100 | 14 | 100 | 34 | 100 | 34 | 100 | 455 | 100 | 2 of 2 | 100 | 2,735 | 25.3 | | | | | | | | | 0 | 0 |
| | | Goulburn | 1975 | 35 | C | 2359 | 1,100 | 125 | 10 | 3 | 61 | 4 | 2 | 0 | 365 | 100 | 364 | 100 | 365 | 100 | 193 | 100 | 1,099 | 100 | 123 | 100 | | | | | | | | | | | | | | | | |
| Goulburn Mulwaree Council | | Marulan | 1997 | 2 | MF | 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 37 | | 2443 | 1,100 | 121 | 16 | 8 | 4 | 1 | 2.2 | 0.7 | 12 | 83 | 325 | 100 | 308 | 100 | 90 | 100 | 301 | 100 | 94 | 100 | | | | | | | | | | | | | | | | |
| | | Villages | 2005 | 5 | CH | 314 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total/Weighted Average (Note 1) | | 7 | | 483 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 1 | 3 | 100 | 3 | 100 | 52 | 100 | 365 | 100 | 2 | 92 | 51 | 100 | | | | | | | | | | | | | | | | |
| Greater Hume Shire Council | bulk purchase (Albury) | Culcairn | 2007 | 3 | CH | 169 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 1 | 3 | 100 | 3 | 100 | 52 | | | | | | | | | | | | | | | | | | | | | | | |

| Water Utility | Source/type (Bulk Supplier) | Water Treatment Works 37a | Year built or Augmented | Capacity ML/d 37b | Type of Treatment Works ² | Volume Treated to Potable ML 38b | Colour Units | | | | Turbidity Units | | | | Compliance with 2004 NHMRC/IRMMC Australian Drinking Water Guidelines ^{3,4} | | | | | | | | | | Water Quality Compliance ⁵ No. 43 / 1,000 Props | No. of Samples + Allocation ⁵ | | Chlorination System Failure days 45 | Major Malfunction of Treatment Processes days 46 | | | | | | |
|---------------------------------|-----------------------------|---------------------------------|-------------------------|---------------------------------|--------------------------------------|--|--------------|------------|---------------|------------|-----------------|------------|---------------|------------|--|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---|--|----------|---|--|-----------------------------------|------------------------------------|---------------|--------------|---|---|
| | | | | | | | Raw Water | | Treated Water | | Raw Water | | Treated Water | | Colour | | Turbidity | | pH | | Physical | | Chemical | | | E. coli | | | | E. coli Zones Compliant 42m | E. coli % Pop Compliance 42n | Chemical % | E. coli % | | |
| | | | | | | | Max 39a | Avg 39b | Max 39c | Avg 39d | Max 40a | Avg 40b | Max 40c | Avg 40d | Samples 42a | % 42b | Samples 42c | % 42d | Samples 42e | % 42f | Samples 42g | % 42h | Samples 42i | % 42j | | Samples 42k | % 42l | | | | | | | | |
| | | | | | | | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | ML | | ML | ML | | | ML | ML | ML | ML | | |
| Palerang Council | groundwater | Braidwood | 2010 | 1 | CH | 146 | 14 | 10 | 14 | 10 | 1 | 1 | 1.2 | 2 | 100 | 2 | 100 | 47 | 89 | 2 | 100 | 2 | 100 | 48 | 100 | 6 | | 100 | 92 | | | | | | |
| | | Bungendore | 2005 | 4 | CH | 259 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0.3 | 2 | 100 | 2 | 100 | 49 | 100 | 2 | 100 | 2 | 100 | 48 | 100 | | | 100 | 92 | | | | | |
| | | Captains Flat | 2002 | 1 | MF | 51 | 41 | 28 | 1 | 1 | 4 | 3 | 0 | 0 | 6 | 100 | 6 | 100 | 22 | 100 | 2 | 100 | 2 | 100 | 24 | 100 | | | 100 | 92 | | | | | |
| | | Total/Weighted Average (Note 1) | 6 | | | 456 | 41 | 7 | 14 | 4 | 4 | 1 | 1 | 0.5 | 10 | 100 | 10 | 100 | 118 | 96 | 6 | 100 | 6 | 100 | 120 | 100 | 3 of 3 | 100 | 6 | 4.2 | | 0 | 0 | | |
| Parkes Shire Council | | Parkes | 1994 | 9 | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | 98 | | | | | | | |
| Queanbeyan City Council | bulk purchase (ACTEW) | Weetalabah (No Wtw) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | 100 | | | | | | | | |
| Richmond Valley Council | bulk purchase (Rous W) | Casino | 1985 | 23 | C | 2460 | 300 | 65 | 10 | 2 | 363 | 18 | 1 | 0.1 | 24 | 100 | 137 | 100 | 140 | 100 | 721 | 100 | 515 | 100 | 140 | 100 | 1 | | 100 | 100 | | | | | |
| | | Total/Weighted Average (Note 1) | 23 | | | 2460 | 300 | 65 | 10 | 2 | 363 | 18 | 1 | 0.1 | 24 | 100 | 137 | 100 | 140 | 100 | 721 | 100 | 515 | 100 | 140 | 100 | 1 of 1 | 100 | 1 | | 0 | 0 | | | |
| Riverina Water County Council | | Waterworks | 1961 | 80 | C | 7060 | 1,400 | 151 | 3 | 1 | 150 | 20 | 2 | 0.5 | 8 | 100 | 258 | 100 | 258 | 98 | 232 | 100 | 12 | 100 | 232 | 100 | | | | | | | | | |
| | | West Wagga | 1979 | 32 | - | 4345 | | | | | | | | | 1 | 0.2 | 4 | 100 | 158 | 100 | 158 | 98 | 143 | 100 | 12 | 100 | 143 | 100 | | | | | | | |
| | | North Wagga | 1977 | 25 | C | 2322 | | | | | | | | | 0 | 0.1 | 12 | 100 | 12 | 100 | 12 | 100 | 52 | 100 | 12 | 100 | 376 | 100 | | | | | | | |
| | | Ralvona | 1989 | 4 | A | 269 | | | | | | | | | 2 | 0.6 | 2 | 100 | 52 | 100 | 52 | 100 | 52 | 100 | 2 | 100 | 52 | 100 | | | 100 | 100 | | | |
| | | Bulgarly | 1983 | 3 | A | 534 | | | | | | | | | 1 | 0.5 | 3 | 100 | 51 | 100 | 51 | 94 | 51 | 100 | 13 | 100 | 52 | 100 | | | 100 | 100 | | | |
| | | Gardiners Crossing | 1983 | 2 | A | 164 | | | | | | | | | 1 | 0.4 | 2 | 100 | 52 | 100 | 52 | 98 | 52 | 100 | 2 | 100 | 52 | 100 | | | | | | | |
| | | Urana | 1964 | 1 | A | 55 | | | | | | | | | 1 | 0.5 | 3 | 100 | 52 | 100 | 52 | 98 | 52 | 100 | 3 | 100 | 52 | 100 | | 25 | 100 | | | | |
| | | Walbundrie | 2005 | 1 | - | 35 | | | | | | | | | 1 | 0.4 | 2 | 100 | 26 | 100 | 26 | 100 | 26 | 100 | 2 | 100 | 26 | 100 | | | 100 | 100 | | | |
| | | Humula | 2003 | 0.3 | CH | 13 | | | | | | | | | 7 | 0.7 | 2 | 100 | 26 | 96 | 26 | 96 | 26 | 100 | 2 | 100 | 26 | 100 | | | 100 | 100 | | | |
| | | Woomargama | 1960 | 0.2 | A | 14 | | | | | | | | | 1 | 0.4 | 2 | 100 | 26 | 100 | 26 | 100 | 26 | 100 | 2 | 100 | 26 | 100 | | 6 | 100 | 100 | | | |
| | | Collingullie | 2006 | 0 | A | 63 | | | | | | | | | 1 | 0.4 | 1 | 100 | 13 | 100 | 13 | 100 | 13 | 100 | 2 | 100 | 13 | 100 | | | 100 | 100 | | | |
| | | Tarcutta | 2009 | 1 | A | 42 | | | | | | | | | 7 | 0.7 | 2 | 100 | 26 | 96 | 26 | 96 | 26 | 100 | 2 | 100 | 26 | 100 | | 8 | 100 | 100 | | | |
| | | Oura | 1982 | 0 | A | 48 | | | | | | | | | 1 | 0.6 | 2 | 100 | 13 | 100 | 13 | 100 | 2 | 100 | 2 | 100 | 13 | 100 | | 3 | 100 | 100 | | | |
| | | Morundah | 1992 | 0.2 | C | 10 | | | | | | | | | 1 | 0.4 | 2 | 100 | 25 | 100 | 26 | 92 | 25 | 100 | 2 | 100 | 26 | 100 | | | 100 | 100 | | | |
| | | | | Total/Weighted Average (Note 1) | 149 | | | 14974 | 1,400 | 71 | 3 | 1 | 150 | 9 | 7 | 0.4 | 47 | 96 | 790 | 100 | 791 | 98 | 778 | 100 | 70 | 100 | 1,115 | 100 | 14 of 14 | 100 | 87 | 2.3 | | 0 | 0 |
| | | Rous County Council | bulk supplier, retailer | Nightcap | 2007 | 70 | DF | 11625 | 26 | 6 | 7 | 0 | 3 | 2 | 0 | 0.1 | 63 | 100 | 63 | 100 | 63 | 100 | 63 | 100 | 63 | 100 | 166 | 100 | | | 100 | 85 | | | |
| | | | | Emigrant Creek Dam | 2008 | 8 | MF | 445 | 10 | 4 | 1 | | 6 | 5 | 0 | 0.1 | 14 | 100 | 14 | 100 | 14 | 100 | 14 | 100 | 14 | 100 | 14 | 100 | | | 100 | 8 | | | |
| | | | | Total/Weighted Average (Note 1) | 78 | | | 12070 | 26 | 5 | 7 | 0 | 6 | 2 | 0 | 0.1 | 77 | 100 | 77 | 100 | 77 | 100 | 77 | 100 | 77 | 100 | 180 | 100 | 2 of 2 | 100 | 16 | 0.2 | | 0 | 0 |
| | | Shoalhaven City Council | | Bamarang | 1999 | 75 | C | 8240 | 40 | 25 | 2 | 1 | 5 | 1 | 4.7 | 0.9 | 12 | 100 | 86 | 100 | 86 | 100 | 278 | 100 | 732 | 100 | 564 | 100 | | | 100 | 99 | | | |
| | | | | Flatrock | 1998 | 28 | C | 3840 | 40 | 25 | 1 | 1 | 5 | 1 | 1 | 0.3 | 10 | 100 | 66 | 100 | 45 | 98 | 176 | 100 | 470 | 100 | 66 | 100 | | | 100 | 100 | | | |
| Milton | 2000 | | | 11 | DF | 735 | 60 | 45 | 9 | 2 | 5 | 3 | 4 | 0.8 | 12 | 100 | 61 | 100 | 62 | 97 | 206 | 100 | 594 | 100 | 147 | 100 | | | 100 | 97 | | | | | |
| Kangaroo Valley | 1993 | | | 1 | MF | 87 | 125 | 35 | 1 | 1 | 10 | 4 | 1 | 1 | 1 | 1 | 100 | 13 | 100 | 13 | 100 | 40 | 100 | 263 | 100 | 50 | 100 | | | 100 | 96 | | | | |
| Total/Weighted Average (Note 1) | 115 | | | | | 12902 | 125 | 26 | 9 | 1 | 10 | 1 | 5 | 0.7 | 35 | 100 | 226 | 100 | 206 | 99 | 700 | 100 | 2,059 | 100 | 827 | 100 | 4 of 4 | 100 | 27 | 3.2 | | 0 | 0 | | |
| Singleton Shire Council | | Obanvale | 1993 | 30 | DF | 2556 | 5 | 5 | 5 | 5 | 3 | 1 | 1.0 | 0.2 | 600 | 100 | 600 | 100 | 600 | 100 | 669 | 100 | 754 | 100 | 129 | 100 | 1 of 1 | 100 | 34 | 1.0 | 100 | 100 | 0 | 0 | |
| Snowy River Shire Council | unfiltered | East Jindabyne | 2007 | 9 | CH | 260 | | | | | | | | | | | | 17 | 88 | 2 | 100 | 2 | 100 | 52 | 100 | | | 100 | 100 | | | | | | |
| | | Jindabyne | 2007 | 8 | CH | 593 | | | | | | | | | | | | | 83 | 94 | 13 | 100 | 13 | 100 | 80 | 96 | | | 100 | 100 | | | | | |
| | | Adaminaby | 2005 | 2 | CH | 502 | | | | | | | | | | | | | 24 | 100 | 2 | 100 | 7 | 100 | 25 | 100 | | | 58 | 96 | | | | | |
| | | Kalkite | 2007 | 2 | CH | 24 | | | | | | | | | | | | | 32 | 97 | 2 | 100 | 2 | 100 | 34 | 94 | | | 100 | 100 | | | | | |
| | | Dalgety | 2004 | 0 | CH | 16 | | | | | | | | | | | | | 29 | 97 | 2 | 100 | 2 | 100 | 27 | 100 | | | 100 | 100 | | | | | |
| | | Total/Weighted Average (Note 1) | 21 | | | 1395 | | | | | | | | | | | | | 185 | 95 | 21 | 100 | 26 | 100 | 218 | 100 | 3 of 5 | 56 | | | 0 | 0 | | | |
| Tamworth Regional Council | groundwater | Calala | 1991 | 80 | C | 8845 | 77 | 21 | 2 | 1 | 35 | 8 | 2 | 0.4 | 13 | 100 | 13 | 100 | 13 | 100 | 26 | 100 | 531 | 100 | 148 | 100 | | | 100 | 100 | | | | | |
| | | Manilla | 1990 | 5 | C | 432 | 150 | 70 | 3 | 2 | 16 | 10 | 5 | 2.7 | 2 | 100 | 2 | 100 | 2 | 100 | 4 | 100 | 571 | 90 | 51 | 100 | | | 100 | 98 | | | | | |
| | | Barraba | 1995 | 4 | DAF | 159 | 753 | 109 | 1 | 1 | 89 | 12 | 1 | 0.5 | 2 | 100 | 2 | 100 | 2 | 100 | 4 | 100 | 109 | 100 | 51 | 100 | | | 100 | 98 | | | | | |
| | | Allunga | 1991 | 3 | CH | 47 | | | | | | | | | | | | | 0 | 0.2 | 2 | 100 | 2 | 100 | 4 | 100 | 84 | 100 | | | 100 | 100 | | | |
| | | Nundle | 1995 | 1 | LS | 47 | 48 | 24 | 5 | 3 | 14 | 7 | 1 | 0.7 | 2 | 100 | 2 | 100 | 2 | 100 | 4 | 100 | 81 | 100 | 25 | 96 | | | 100 | 96 | | | | | |
| | | Bendemeer | 2007 | 1 | C | 27 | | | | | | | | | | | | | 0 | 0 | 2 | 100 | 2 | 100 | 4 | 100 | 85 | 100 | | | 100 | 100 | | | |
| | | Koolinga/Moonbi | 1991 | 1 | CH | 355 | | | | | | | | | | | | | 1 | 0.5 | 2 | 100 | 2 | 100 | 4 | 100 | 109 | 100 | | | 100 | 100 | | | |
| | | Total/Weighted Average (Note 1) | 93 | | | 9912 | 753 | 24 | 5 | 1 | 89 | 8 | 5 | 0.5 | 25 | 100 | 25 | 100 | 25 | 100 | 50 | 100 | 1,570 | 100 | 380 | 100 | 6 of 7 | 99 | | | 100 | 100 | 0 | 0 | |
| Tenterfield Shire Council | | Tenterfield | 1986 | 6 | CH | | 225 | 78 | 32 | 5 | 21 | | | | | | | | | | | | | | | | | | | | | | | | |

| Water Utility | Comment | Sewage Treatment Works | Year built or Augmented | Capacity | Standard of Treatment ¹ | Type of Treatment Works | Nitrogen Removal | Phosphorus Removal | Effluent Discharge ² | Volume of Sewage Receiving Treatment | 90 Percentile Licence Limits ⁵ and DEC Licence Compliance | | | | | | | | | | | | Odour Complaints | | Sampling Days | Major Malfunction (Treatment Processes) | | | |
|----------------------------|-------------------|---------------------------------------|-------------------------|-----------|------------------------------------|-------------------------|------------------|--------------------|---------------------------------|--------------------------------------|--|-----------|------|-----------|---------|-----------|-----------------|-----------|--------------|-----------|---------|-----------|------------------|-----------|---------------|---|-----------|---------------|----|
| | | | | | | | | | | | BOD | | SS | | Total N | | NH ₃ | | Oil & Grease | | Total P | | Faecal Coliforms | | | | No. | No/1000 props | |
| | | | | | | | | | | | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | | | cfu/100mL | % Samples | 68 |
| Cobar Shire Council | No licence limits | Cobar | 1982 | 10,000 | S | CEA | | | LRO | 265 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 12 | 0 | | | | |
| | | Murrumbidgee | | | | | | | LRO | 265 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 12 | 0 | | | |
| | | Total Weighted Average ^{1,6} | | 10,000 | | CEA | | | LRO | 265 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 12 | 0 | | |
| | | Cofts Harbour | 2009 | 70,000 | AT | CEA | Y | Y | LRO | 3,557 | 50 | 100 | 50 | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | 100 | 15 | 53 | 0 | | | |
| | | Sawtell | 1986 | 18,000 | S | IEA | Y | Y | LRO | 1,656 | 20 | 100 | 30 | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | 100 | 14 | 53 | 0 | | | |
| Cofts Harbour City Council | No licence limits | Woolgoolga | 2005 | 18,000 | AS | IEA | Y | Y | LRO | 1,035 | 10 | 100 | 15 | 100 | 15 | 100 | 2 | 100 | 2 | 100 | 100 | 100 | 9 | 52 | 0 | | | | |
| | | Moonsee/Emerald | 1999 | 7,000 | AT | BNR | Y | Y | O | 209 | 10 | 100 | 15 | 100 | 15 | 100 | 2 | 100 | 2 | 100 | 100 | 100 | 3 | 52 | 0 | | | | |
| | | Corindi Beach | 2000 | 1,500 | T | IEA | Y | Y | Y | 82 | 15 | 100 | 20 | 100 | 15 | 100 | 5 | 100 | 5 | 100 | 100 | 200 | 100 | 12 | 0 | | | | |
| | | Total Weighted Average ^{1,6} | | 114,500 | | IEA, TF, BNR | | | LRO | 6,539 | 50 | 100 | 50 | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | 41 | 1.8 | 222 | 0 | | | |
| | | Coolamon | 1965 | 1,200 | T | TF | | | L | 68 | 30 | 100 | 20 | 100 | 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10 | 100 | 4 | 0 | | | |
| Coolamon Council | No licence limits | Ganmain | 1998 | 1,000 | S | A | | | L | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | | | |
| | | Total Weighted Average ^{1,6} | | 2,200 | | TF, A | | | L | 98 | 30 | 100 | 20 | 100 | 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10 | 100 | 0.0 | 4 | 0 | | |
| | | Cooma (The Glen) | 1998 | 15,000 | AT | IEA | Y | Y | R | 658 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 2 | 100 | 100 | 200 | 85 | 12 | 0 | | | | |
| Cooma-Monaro Council | No licence limits | Nimmitabel | 2008 | 500 | AS | IEA | Y | Y | R | 10 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 | 13 | 0 | | | | |
| | | Total Weighted Average ^{1,6} | | 15,500 | | IEA, TF | | | R | 668 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 2 | 100 | 100 | 200 | 85 | 2 | 0.6 | 25 | 0 | | |
| | | Coonamble | 1956 | 4,000 | T | A | | | L | 281 | 20 | 100 | 50 | 83 | 20 | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 12 | 0 | | | | |
| Coonamble Council | No licence limits | Gulgambone | 1975 | 750 | AS | A | | | R | 37 | 20 | 100 | 25 | 100 | 15 | 100 | 100 | 100 | 15 | 100 | 600 | 100 | 12 | 0 | | | | | |
| | | Total Weighted Average ^{1,6} | | 4,750 | | IEA, TF | | | L | 318 | 20 | 100 | 50 | 85 | 20 | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 88 | 0.0 | 24 | 0 | | |
| | | Cootamundra | 1992 | 14,000 | AT | AL | Y | Y | R | 412 | 30 | 100 | 40 | 75 | 20 | 100 | 100 | 100 | 10 | 100 | 1 | 100 | 200 | 100 | 0.0 | 4 | 0 | | |
| Corowa Council | No licence limits | Corowa | 1988 | 12,200 | S | TF | | | L | 334 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 6 | 12 | 0 | | | | |
| | | Muhwala | 2008 | 5,316 | T | IEA | Y | Y | R | 270 | 20 | 100 | 30 | 100 | 40 | 100 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | 1 | 13 | 1 | | | |
| | | Howlong | 1990 | 2,500 | S | A | | | L | 135 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | | | |
| | | Total Weighted Average ^{1,6} | | 20,016 | | TF, A | | | L | 739 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 7 | 1.4 | 13 | 1 | | |
| | | Broken Hill (Wills St) | 1998 | | T | TF | | | L | 1,090 | 50 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 6 | 26 | 0 | | | | |
| Country Energy | No licence limits | Broken Hill South | 1968 | | T | TF | | | LRO | 267 | 50 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 600 | 100 | 2 | 26 | 0 | | | | |
| | | Total Weighted Average ^{1,6} | | | | TF | | | LRO | 1,357 | 50 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8 | 0.8 | 52 | 0 | | | |
| | | Cowra | 1977 | 8,000 | S | TF | | | LRO | 698 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| Cowra Council | No licence limits | Wyanoga | | | | | | LRO | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| | | Total Weighted Average ^{1,6} | | 8,000 | | TF | | | LRO | 698 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| | | Deniliquin | 1998 | 11,500 | S | TF | Y | Y | LRO | | 20 | 100 | 30 | 40 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |
| Dubbo City Council | No licence limits | Dubbo (Troy Junction) | 1985 | 40,000 | AS | IEA | Y | Y | L | 2,907 | 20 | 100 | 25 | 100 | 15 | 100 | 5 | 100 | 10 | 100 | 100 | 100 | 200 | 100 | 9 | 0.6 | 12 | 0 | |
| | | Batemans Bay | 1984 | 15,000 | T | CEA | | | LRO | 1,986 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 12 | 12 | 3 | | |
| | | Narooma | 1984 | 12,000 | T | CEA | | | LRO | 554 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 32 | 3 | |
| | | Monura | 2000 | 8,000 | T | CEA | | Y | LRO | 281 | 20 | 100 | 30 | 100 | 15 | 100 | 100 | 100 | 100 | 100 | 1 | 100 | 100 | 100 | 100 | 12 | 0 | | |
| | | Tomakin | 1984 | 8,000 | T | CEA | | | LRO | 576 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 32 | 0 | |
| | | Turoos Heads | | 4,000 | AS | AN | | | LRO | 230 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 12 | 1 | |
| | | Total Weighted Average ^{1,6} | | 47,000 | | IEA, CEA, TF | | | LRO | 3,627 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 200 | 100 | 12 | 0.7 | 100 | 7 |
| | | Forbes Council | Forbes | 2005 | 12,000 | T | IEA | Y | Y | L | 642 | 10 | 100 | 50 | 100 | 10 | 83 | 2 | 100 | 10 | 100 | 100 | 100 | 200 | 100 | 0.0 | 12 | 0 | |
| | | Gilgandra Council | No licence limits | Gilgandra | 2009 | 3,000 | T | TF | | | L | 290 | 20 | 75 | 50 | 75 | 20 | 75 | 100 | 100 | 75 | 10 | 75 | 100 | 3 | 2.2 | 5 | 3 | |
| | | | | Beepwater | 1987 | 500 | S | A | | | LRO | 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| Glen Innes | 2007 | | | 8,000 | T | IEA | Y | Y | R | 600 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 2 | 100 | 100 | 200 | 100 | 100 | 100 | 12 | 0 | | |
| Glen Innes Severn Council | No licence limits | Total Weighted Average ^{1,6} | | 8,500 | | C | | LRO | 613 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 2 | 100 | 100 | 200 | 100 | 100 | 0.0 | 12 | 0 | | | |
| | | Gloucester | 1985 | 4,600 | T | TF | Y | Y | R | 251 | 30 | 100 | 40 | 83 | 40 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0.0 | 13 | 0 | | |
| | | Kinchester | 1983 | 180,000 | AS | AN | Y | Y | LRO | 10,033 | 30 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93 | 60 | 0 | | | |
| Gosford City Council | No licence limits | Woy Woy | 1989 | 50,000 | AS | CEA | Y | O | 2,967 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 20 | 60 | 0 | | | |
| | | Total Weighted Average ^{1,6} | | 230,000 | | CEA, C | | | LRO | 13,000 | 30 | 100 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 113 | 1.6 | 120 | 0 | | |
| | | Goulburn | 1989 | 30,000 | T | TF | | Y | L | 1,569 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 13 | 12 | 3 | | | |
| Goulburn Mulwaree Council | No licence limits | Manulan | 1990 | 1,100 | S | A | | | L | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | | |
| | | Total Weighted Average ^{1,6} | | 31,100 | | A, TF | | | L | 1,569 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 13 | 1.4 | 12 | 3 | | |
| | | Holbrook | 1969 | 1,600 | T | TF | | | R | 123 | 20 | 100 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4 | 0 | | |
| | | Jindera | 2005 | 1,200 | T | A | | | L | 62 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | | |
| | | Henly | 1971 | 1,000 | T | IEA | Y | Y | L | 56 | 20 | 100 | 30 | 100 | 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4 | 0 | | |
| Greater Hume Council | No licence limits | Culcairn | 1996 | 1,200 | T | IEA | Y | Y | L | 101 | 20 | 100 | 30 | 100 | 20 | | | | | | | | | | | | | | |

| Water Utility | Comment | Sewage Treatment Works | Year built or Augmented | Capacity | Standard of Treatment ¹ | Type of Treatment Works | Nitrogen Removal | Phosphorus Removal | Effluent Discharge ² | Volume of Sewage Receiving Treatment | 90 Percentile Licence Limits ⁵ and DEC Licence Compliance | | | | | | | | | | | | Odour Complaints | | Days | | Major Malfunction (Treatment Processes) | | |
|---------------------------------------|-------------------|---------------------------------------|-------------------------|-----------|------------------------------------|-------------------------|------------------|--------------------|---------------------------------|--------------------------------------|--|-----------|------|-----------|---------|-----------|-------------------|-----------|--------------|-----------|---------|-----------|------------------|-----------|------|---------------|---|----------|------|
| | | | | | | | | | | | BOD | | SS | | Total N | | NH ₃ N | | Oil & Grease | | Total P | | Faecal Coliforms | | No. | No/1000 props | | Sampling | Days |
| | | | | | | | | | | | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | ctu/100mL | % Samples | 68 | 69 | | days | days |
| Nambucca Council | | Nambucca Heads | 1986 | 10,000 | AS | IEA | | Y | L R O | 936 | 20 | 85 | 30 | 60 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 3 | | 27 | 0 | | | |
| | | Macksville | 1998 | 5,500 | T | IEA | | | O | 405 | 15 | 100 | 20 | 100 | 5 | 8 | 5 | 100 | 10 | 100 | NL | 100 | 200 | 1 | | 26 | 0 | | |
| | | Scotts Head | 1985 | 2,000 | S | IEA | | | L R O | 94 | 20 | 100 | 30 | 77 | NL | 100 | 100 | 10 | 100 | NL | 100 | NL | 100 | | | 13 | - | | |
| | | Bowraville | 1985 | 1,200 | T | TF | | | L | 130 | 20 | 54 | 30 | 31 | NL | 100 | 100 | 10 | 100 | NL | 100 | NL | 100 | 1 | | 13 | 0 | | |
| | | Total/Weighted Average ^{1,6} | | 18,700 | | IEA, TF | | | L R O | 1,565 | 20 | 87 | 30 | 69 | NL | 100 | 100 | 10 | 100 | NL | 100 | NL | 100 | 5 | 0.9 | 79 | 0 | | |
| Narrabri Council | No licence limits | Narrabri | 1996 | 8,300 | S | TF | | | L | 685 | 20 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | NL | 100 | | | 12 | 0 | | | |
| | | Wee Waa | 1972 | 1,500 | S | TF | | | L | 135 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | 0 | | | |
| | | Boggabri | 1956 | 1,000 | S | TF | | | L | 44 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | 0 | | | |
| | | Total/Weighted Average ^{1,6} | | 10,800 | | TF | | | L | 864 | 20 | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | 0.0 | 12 | 0 | | | |
| Narrandera Council | No licence limits | Narrandera | 2006 | 6,000 | AS | C | | Y | L R O | 630 | 20 | 100 | 30 | 100 | 100 | 100 | 10 | 100 | NL | 100 | 200 | 100 | | | 0 | 12 | 0 | | |
| | | Narrandera | 2005 | 5,000 | S | A | | | | 340 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 6 | 0 | | | |
| | | Triangle | 1997 | 1,000 | AS | A | | | L | 230 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 6 | 0 | | | |
| Narrandera Council | No licence limits | Total/Weighted Average ^{1,6} | | 6,000 | | A | | | 570 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 0.0 | 12 | 0 | | | |
| | | Oberon | 1989 | 7,000 | S | TF | | | Y L R O | 240 | 20 | 100 | 25 | 100 | 15 | 83 | 100 | 10 | 100 | 1 | 100 | 200 | 100 | | 0.0 | 12 | 0 | | |
| Orange City Council | | Orange | 1988 | 60,000 | AS | CEA | Y | Y | R | 3,360 | 20 | 100 | 25 | 100 | 15 | 100 | 100 | 10 | 100 | 1 | 100 | 400 | 100 | 24 | | 22 | 0 | | |
| | | Spring Hill | 1990 | 1,000 | AS | CEA | | | | 25 | 20 | 100 | 50 | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | | | 20 | 0 | | |
| | | Total/Weighted Average ^{1,6} | | 61,000 | | CEA | | | R | 3,385 | 20 | 100 | 25 | 100 | 15 | 100 | 100 | 10 | 100 | 1 | 100 | 400 | 100 | 24 | 1.5 | 42 | 0 | | |
| | | Braidwood | 1966 | 2,000 | S | TF | | | R | 79 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 1 | | 13 | 0 | | |
| Palerang Council | | Bungendore | 1993 | 2,000 | T | IEA | Y | Y | R | 185 | 10 | 75 | 15 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | | | 4 | 0 | | | |
| | | Captains Flat | 1984 | 500 | T | IEA | Y | | R | 33 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | | | 4 | 0 | | | |
| | | Total/Weighted Average ^{1,6} | | 4,500 | | IEA | | | R | 297 | 10 | 84 | 15 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 1 | 0.5 | 21 | 0 | | | |
| | | Parkes | 1994 | 14,500 | | | | | Y | L R | 377 | 30 | 80 | 50 | 30 | 40 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | | | 12 | 0 | | |
| Parkes Council | No licence limits | Tullamore | 2009 | 250 | | | | | 7 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | | | | 0 | | | |
| | | Peak Hill | 1983 | 2,000 | | | | | L | 112 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | 0 | | | |
| | | Total/Weighted Average ^{1,6} | | 16,750 | | C | | | L R | 496 | 30 | 85 | 50 | 47 | 40 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | | 0.0 | 12 | 0 | | | |
| Queanbeyan City Council | | Queanbeyan | 1986 | 34,500 | AS | CEA, TF | | | L R | 3,527 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 0 | 365 | 0 | | |
| | | Casino | 1986 | 13,300 | | | | | L R O | 1,155 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 5 | | 26 | 0 | | | |
| Richmond Valley Council | | Evans Head | 2007 | 5,500 | | | Y | Y | Y | 550 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 2 | 100 | 1 | 100 | 200 | 100 | | 26 | 0 | | |
| | | Coraki | 1968 | 1,200 | | | | | L R O | 131 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 13 | 0 | | |
| | | Rileys Hill | 1996 | 200 | | | Y | Y | L R O | 6 | 15 | 100 | 20 | 100 | 15 | 100 | 2 | 100 | 10 | 100 | 1 | 100 | 200 | 100 | | 13 | 0 | | |
| | | Total/Weighted Average ^{1,6} | | 20,200 | | IEA, TF | | | L R O | 1,842 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | NL | 100 | 5 | 0.8 | 78 | 0 | | |
| | | Nowra | 1989 | 21,000 | AS | TF | Y | Y | R | 1,707 | 40 | 100 | 40 | 58 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 3 | | 12 | 0 | | |
| Shoalhaven City Council | | Si Georges Basin | 1992 | 16,000 | AS | IEA | Y | Y | Y | 913 | 10 | 100 | 15 | 100 | 15 | 100 | 5 | 100 | 2 | 100 | 1 | 100 | 200 | 100 | 1 | | 12 | 0 | |
| | | Huskisson | 2002 | 14,000 | T | IEA | Y | Y | Y | 505 | 10 | 100 | 15 | 100 | NL | 100 | 5 | 100 | 2 | 100 | 1 | 100 | 200 | 100 | | | 12 | 0 | |
| | | Bomaderry | 1990 | 12,500 | AS | TF | Y | Y | R | 930 | 20 | 100 | 40 | 50 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 1 | | 12 | 0 | | |
| | | Milton Ulladulla | 2006 | 31,500 | T | IEA | Y | Y | O | 1,043 | 15 | 100 | 20 | 100 | NL | 100 | 100 | 2 | 100 | NL | 100 | 200 | 100 | | | 12 | 0 | | |
| | | Culburra | 2005 | 10,500 | T | IEA | Y | Y | O | 561 | 10 | 100 | 15 | 100 | 15 | 100 | 5 | 100 | 2 | 100 | NL | 100 | 200 | 100 | 1 | | 12 | 0 | |
| | | Sussex Inlet | 2007 | 8,000 | T | IEA | Y | Y | O | 443 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 4 | | 12 | 0 | | |
| | | Callala | 2000 | 6,000 | T | IEA | Y | Y | Y | 223 | 10 | 100 | 15 | 100 | 15 | 100 | 5 | 100 | 2 | 100 | 1 | 100 | 200 | 100 | 2 | | 12 | 0 | |
| | | Shoalhaven Heads | 1983 | 4,000 | AS | IEA | Y | Y | L R | 252 | 30 | 100 | 30 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 12 | 0 | | |
| | | Berry | 2007 | 3,000 | T | IEA | Y | Y | R O | 214 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | 1 | | 12 | 0 | | |
| | | Total/Weighted Average ^{1,6} | | 126,500 | | IEA, TF | | | R O | 6,942 | 40 | 100 | 40 | 83 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 13 | 0.3 | 144 | 0 | | |
| | | Singleton Council | | Singleton | 1988 | 20,000 | AS | IEA | Y | Y | R | 1,178 | 30 | 100 | 30 | 100 | 15 | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 4 | 0.7 | 12 | 0 | |
| | | | | Jindabyne | 1984 | 8,000 | AT | IEA | Y | Y | R | 245 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 2 | 100 | NL | 100 | 200 | 100 | | 16 | 0 |
| | | Snowy River Council | No licence limits | Berridale | 2008 | 2,000 | AT | IEA | Y | Y | R | 53 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | | | | 13 | 0 |
| | | | | Adamina | 1972 | 750 | S | TF | Y | Y | R | 48 | 20 | 39 | 30 | 39 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | | | | 13 | 0 |
| Interlaken | 1972 | | | 1,000 | P | | Y | | L R O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | | | | - | - | | |
| Total/Weighted Average ^{1,6} | | | | 11,750 | | IEA, CEA | | | L R O | 346 | 10 | 92 | 15 | 92 | 10 | 100 | 2 | 100 | 2 | 100 | NL | 100 | 200 | 100 | | 0.0 | 42 | 0 | |
| Tamworth Regional Council | No licence limits | Tamworth (Westdale) | 1996 | 33,000 | AS | IEA | Y | Y | R | 3,052 | 30 | 100 | 25 | 100 | NL | 100 | 100 | 100 | 2 | 100 | 2 | 100 | 100 | 5 | | 52 | 0 | | |
| | | Tamworth (Swan St) | 1968 | 15,000 | S | TF | | | Y L | 1,371 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | 7 | | 12 | 0 | |
| | | Manilla | 1955 | 2,850 | S | TF | | | L | 163 | 20 | 75 | 30 | 75 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 3 | | 4 | 0 | | | |
| | | Koolingal | 1992 | 2,000 | S | A | | | L | 94 | NL | 100 | NL | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 | | 4 | 0 | | |
| | | Total/Weighted Average ^{1,6} | | 54,350 | | IEA, TF | | | L R | 1,553 | 20 | 100 | 30 | 100 | NL | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 16 | 0.9 | 84 | 0 | |
| Temora Council | No licence limits | Temora | 2005 | 8,000 | T | A | | | 120 | 30 | 100 | 40 | 100 | 100 | 100 | 100 | 10 | 80 | NL | 100 | 200 | 100 | | 0.0 | 12 | 0 | | | |
| | | Tenterfield | 2009 | 3,700 | | | | | | | | | | | | | | | | | | | | | | | | | |

| Water Utility | Comment | Sewage Treatment Works | Year built or Augmented | Capacity | Standard of Treatment ¹ | Type of Treatment Works ² | Nitrogen Removal | Phosphorus Removal | Effluent Discharge ³ | Volume of Sewage Receiving Treatment | 90 Percentile Licence Limits ⁵ and DEC Licence Compliance | | | | | | | | | | | | Odour Complaints | | Days | | Major Malfunction (Treatment Processes) | | |
|----------------------------|-------------------|---|-------------------------|----------|------------------------------------|--------------------------------------|------------------|--------------------|---------------------------------|--------------------------------------|--|-----------|------|-----------|---------|-----------|-----------------|-----------|--------------|-----------|---------|-----------|------------------|-----------|-----------|---------------|---|----------|-------------|
| | | | | | | | | | | | BOD | | SS | | Total N | | NH ₃ | | Oil & Grease | | Total P | | Faecal Coliforms | | No. | No/1000 props | | Sampling | Malfunction |
| | | | | | | | | | | | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | mg/L | % Samples | cfu/100mL | % Samples | | 68 | 69 |
| Upper Hunter Council | No licence limits | Scone | 1988 | 7,000 | AS | TF | | | L | 1,298 | 20 | 100 | 30 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | | | 12 | 0 | | |
| | | Aberdeen | 1983 | 4,000 | AS | AN | | | R | 169 | 20 | 100 | 30 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | | | 12 | 0 | | |
| | | Merrima | 1970 | 1,600 | S | TF | | | L,R | 58 | 20 | 100 | 30 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | | | 4 | 0 | | |
| | | Murrurundi | 1979 | 1,000 | AS | IEA | | | R | 68 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 100 | | | 0 | 0 | | |
| | | Total/Weighted Average^{1,6} | | | 13,600 | | IEA, TF | | | L,R | 1,593 | 20 | 100 | 30 | 100 | NL | 100 | NL | 100 | 10 | 96 | NL | 100 | 100 | 0.0 | | 28 | 0 | |
| Upper Lachlan Council | No licence limits | Crookwell | 1996 | 4,200 | T | IEA | Y | Y | R | 180 | 20 | 100 | 30 | 100 | 15 | 100 | 5 | 100 | 10 | 100 | 1 | 100 | 200 | 100 | | | 12 | 0 | |
| | | Gunning | 1976 | 1,000 | T | IEA | | | R | 50 | 20 | 100 | 30 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | | | 12 | 0 | | |
| | | Total/Weighted Average^{1,6} | | | 5,200 | | IEA | | | R | 230 | 20 | 100 | 30 | 100 | 15 | 100 | 5 | 100 | 10 | 100 | 1 | 100 | 200 | 100 | 0.0 | | 24 | 0 |
| Uralla Council | No licence limits | Uralla | 1994 | 3,960 | AS | CEA | Y | Y | R | 140 | 15 | 100 | 20 | 100 | 10 | 100 | 1 | 83 | 10 | 100 | 1 | 100 | 200 | 100 | 2 | 1.8 | 12 | 1 | |
| | | Total/Weighted Average^{1,6} | | | 3,960 | | CEA | Y | Y | R | 140 | 15 | 100 | 20 | 100 | 10 | 100 | 1 | 83 | 10 | 100 | 1 | 100 | 200 | 100 | 2 | 1.8 | 12 | 1 |
| Urana Council | No licence limits | Urana | 1996 | 754 | S | A | Y | Y | | 55 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | | | 51 | 0 | |
| | | Oaklands | 1996 | 520 | S | A | Y | Y | | 35 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | | | 51 | 0 | |
| | | Total/Weighted Average^{1,6} | | | 1,274 | | A | | | 90 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | | | 0.0 | 102 | 0 |
| | | Total/Weighted Average^{1,6} | | | 1,274 | | A | | | 90 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | | | 0.0 | 102 | 0 |
| Wagga Wagga City Council | No licence limits | Wagga (Narrung St) | 2010 | 72,917 | T | CEA | Y | Y | L,R | 3,548 | 20 | 100 | 30 | 100 | NL | 100 | NL | 100 | 10 | 100 | 1 | 58 | NL | 100 | 100 | 1 | | 12 | 0 |
| | | Wagga (Koorinaal) | 2010 | 18,750 | T | IEA | Y | Y | L,R | 1,266 | 20 | 100 | 30 | 100 | 30 | 100 | 8 | 100 | 10 | 100 | 1 | 100 | 100 | 100 | 100 | 1 | | 12 | 0 |
| | | Forest Hill | 1974 | 6,000 | T | IEA | | | L | 227 | 20 | 100 | 30 | 75 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | | | 4 | 0 | |
| | | Uranquinty | 1984 | 1,000 | S | A | | | L | 105 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | 0 | 0 |
| | | Tarcutta | 1988 | 500 | S | A | | | L | 28 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | 0 | 0 |
| | | Total/Weighted Average^{1,6} | | | 99,167 | | IEA, CEA, TF | | | L,R | 5,174 | 20 | 100 | 30 | 99 | NL | 100 | NL | 100 | 10 | 100 | 1 | 71 | NL | 100 | 100 | 1 | 0.0 | 28 |
| Wakool Council | No licence limits | Barham | | | | | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | - | - | |
| | | Moulamein | | | | | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | - | - | |
| | | Murray Downs | | | | | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | - | - | |
| | | Tooleybuc | | | | | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | - | - | |
| | | Total/Weighted Average^{1,6} | | | | | IEA, BNR | | | L,R,O | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | - | - |
| Walcha Council | No licence limits | Walcha | 1971 | 2,400 | S | TF | | | L,R | 178 | 20 | 58 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | 0 | | 12 | 0 | |
| | | Total/Weighted Average^{1,3} | | | 2,400 | | TF | | | L,R | 178 | 20 | 58 | 30 | 100 | NL | 100 | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | 0 | | 12 | 0 |
| Walgett Council | No licence limits | Walgett | 1958 | 3,200 | S | AN | | | L,R,O | 300 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | - | - |
| | | Lightning Ridge | 1979 | 1,000 | S | A | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | 100 | | | - | - |
| | | Collarenebri | 1970 | 600 | S | A | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | 100 | | | - | - |
| | | Total/Weighted Average^{1,3} | | | 4,800 | | TF | | | L,R,O | 300 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | - |
| Warren Council | No licence limits | Warren | 1958 | 2,250 | S | A | | | L | 167 | 45 | 100 | 65 | 100 | 30 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 100 | | | 4 | 0 | |
| | | Neverfire | 1983 | 200 | P | A | | | L | 14 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | 4 | 0 |
| | | Total/Weighted Average^{1,6} | | | 2,450 | | TF | | | L | 181 | 45 | 100 | 65 | 100 | 30 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 100 | 0.0 | | 4 | 0 |
| Warrumbungle Shire Council | No licence limits | Coonabarabran | 1964 | 3,500 | S | TF | | Y | R | 243 | 20 | 100 | 25 | 100 | 20 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 100 | 100 | | | 12 | 0 |
| | | Coolah | 1970 | 1,000 | S | A | | | L | 68 | 40 | 75 | 150 | 75 | 15 | 50 | 100 | 3 | 100 | 3 | 100 | 100 | 100 | 100 | | | 2 | 0 | |
| | | Baradine | 1997 | 1,000 | P | A | | | L | 50 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | 2 | 0 |
| | | Dunedoo | 1970 | 800 | S | CEA | | | L,R,O | 84 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | 2 | 0 |
| | | Total/Weighted Average^{1,6} | | | 6,300 | | CEA, TF | | | L,R,O | 445 | 20 | 96 | 25 | 96 | 20 | 92 | NL | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 100 | 0.0 | | 16 |
| Weddin Council | No licence limits | Grenfell | 1943 | 2,500 | S | TF | | | L,R | 169 | 20 | 100 | 30 | 100 | 40 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 100 | 0.0 | | 3 | 1 | |
| | | Total/Weighted Average^{1,6} | | | 2,500 | | TF | | | L,R | 169 | 20 | 100 | 30 | 100 | 40 | 100 | 100 | 10 | 100 | 10 | 100 | 100 | 100 | 100 | 0.0 | | 3 | 1 |
| Wellington Council | No licence limits | Wellington | 2006 | 8,000 | S | IEA | Y | Y | R | 583 | 15 | 100 | 30 | 100 | 15 | 100 | 2 | 100 | 10 | 100 | 1 | 100 | 600 | 100 | | | 12 | 0 | |
| | | Nanima | | | | | | | L,R,O | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | 100 | | | - | - |
| | | Total/Weighted Average^{1,6} | | | 8,000 | | IEA | | | L,R,O | 583 | 15 | 100 | 30 | 100 | 15 | 100 | 2 | 100 | 10 | 100 | 1 | 100 | 600 | 100 | 0.0 | | 12 | 0 |
| Wentworth Council | No licence limits | Buronga Gai Gai | 1994 | 5,000 | T | A | | | | 50 | 100 | 50 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | 3 | | 4 | 0 | |
| | | Wentworth | 1984 | 3,500 | T | TF | | | | 200 | 30 | 100 | 45 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 200 | 100 | 100 | | | 4 | 0 |
| | | Dareton | 1984 | 2,000 | T | TF | | | L | 174 | 30 | 100 | 45 | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 600 | 100 | 6 | | 4 | 0 | |
| | | Namatjira | 1988 | 1,200 | S | A | | | L | 72 | NL | 100 | NL | 100 | NL | 100 | NL | 100 | 10 | 100 | NL | 100 | 100 | 100 | 100 | | | 100 | 0 |
| | | Wentworth (East) | 1991 | 600 | T | A | | | L | 96 | 50 | 100 | 50 | 100 | NL | 100 | NL | 100 | 10 | 100 | 100 | 100 | 200 | 100 | 9 | 5.0 | 4 | 0 | |
| | | Total/Weighted Average^{1,6} | | | 12,300 | | TF, A | | | L | 542 | 30 | 100 | 45 | 100 | NL | 100 | NL | 100 | 10 | 100 | 100 | 200 | 100 | 100 | 9 | 5.0 | 116 | 0 |
| Wingecarribee Council | No licence limits | Mittaqong | 2002 | 14,000 | AT | IEA | Y | Y | L,R | 843 | 10 | 100 | 15 | 100 | 10 | 100 | 2 | 100 | 10 | 100 | 100 | 200 | 100 | 15 | | 26 | 0 | | |
| | | Bowral | 2006 | 14,600 | AT | IEA | Y | Y | R | 1,129 | 10 | 100 | 15 | 100 | 10 | | | | | | | | | | | | | | |

Appendix E: Maintaining effective disinfection of a water supply distribution system

Overview

This appendix highlights the key elements for maintaining effective disinfection of a water supply distribution system. It is recommended that each NSW Local Water Utility (LWU) review its present processes and practices to ensure its practices address each of these elements.

In addition, as indicated in the *2009-10 NSW Water Supply and Sewerage Benchmarking Report* (page 7) and the *Best-Practice Management of Water Supply and Sewerage Guidelines, 2007* (page 13), it is recommended that each utility develop and implement a risk based Drinking Water Quality Management Plan in accordance with the *Australian Drinking Water Guidelines, 2004* (page 2-1). The NSW Office of Water (NOW) is preparing some worked examples to assist LWUs and these will be provided to LWUs shortly.

Monitoring of Chlorine Residual in a water supply distribution system is one of the essential controls for maintaining effective disinfection and ensuring consistently safe drinking water quality. Such monitoring provides the necessary data for the utility to carry out timely corrective action.

Developing a monitoring program

The monitoring program should include the following information:

- Parameters to be monitored (Chlorine Residual and pH); for unfiltered surface water supplies, Turbidity¹ should also be monitored.
- Sampling frequency and location, including system extremities.²
- Sampling methods and equipment.
- Schedules for sampling.
- Methods for quality assurance and validation of sampling results.
- Requirements for checking and interpreting results.
- Responsibilities and necessary training of staff.
- Requirements for documentation and management of records, including how monitoring results will be recorded and stored.
- Requirements for reporting and communication of results.
- Program should be designed to cover both random and regular variations in water quality.

Field testing

- Basic chemical test kits for chlorine residual, pH and turbidity are available.
- Free chlorine, combined chlorine, pH and turbidity, tests need to be done in the field.

Frequency of monitoring – chlorine residual should be monitored at least daily at the water treatment works and weekly at consumer supply points.³

¹ For filtered water supplies, all the treated water should normally have a turbidity of under 1 NTU, with 95 per cent of the supply having a turbidity of under 0.3 NTU.

² Each LWU's sampling locations for monitoring microbiological water quality for reporting in the NSW Water Quality Database would be suitable for this purpose.

³ Table 10.7, *Australian Drinking Water Guidelines 2004*.

Maintaining effective disinfection is essential for controlling microbial quality in a water supply distribution system. Particular attention should be paid to:

- operational factors affecting microbial quality (e.g. chlorine residual, pH and turbidity) should be monitored as indicated above
- a minimum total chlorine residual of 0.5 mg/L¹ is recommended after 30 minutes contact time² and before water reaches the first consumer
- for filtered water, turbidity should be low (<1 NTU³)
- pH should be <8.5⁴
- the reticulation system should be properly maintained. New mains and repaired mains should be super-chlorinated⁵ before use.

Chlorine residual

- A minimum free chlorine residual of about 0.2mg/L^{6,7} should be maintained throughout the distribution system
- Loss of chlorine residual may be an early warning indicator of a fault in the chlorination system or a change in the chlorine demand of the water. It will also result in lack of protection against any recontamination of the water supply.

If you wish to discuss implementation of the above elements for effective disinfection, please contact Bill Ho, Manager Water and Sewerage on tel: (02) 8281 7326 or email: Bill.Ho@water.nsw.gov.au.

¹ Part IV Information Sheet I, Disinfection of Drinking Water, *Australian Drinking Water Guidelines 2004*.

² This should be sufficient to ensure microbial control, given a clean distribution system and no significant recontamination.

³ Table 10.10, *Australian Drinking Water Guidelines 2004*.

⁴ For effective disinfection pH should be as low as possible, but this needs to be tempered by the need for corrosion control. In most cases a pH of 7.8 to 8.2 is desirable.

⁵ *Chlorine Fact Sheet under Drinking Water Treatment Chemicals, Australian Drinking Water Guidelines, 2004*.

⁶ Example in Table A10 on page A-21 of *Australian Drinking Water Guidelines, 2004*.

⁷ Re-chlorination may be necessary to maintain effective chlorine residual in very long water supply distribution mains.

Appendix F: NMUs – National performance report 2009-10

| WATER UTILITY | WATER RESOURCES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------|---------|---------|--|---------|---------|---------|---|---------|---------|---------|--|---------|---------|---------|---------------------------|---------|---------|---------|--------------------------------|---------|---------|---------|---------------------|---------|---------|---------|
| | SOURCES OF WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Volume of water sourced from surface water | | | | Volume of water sourced from groundwater | | | | Volume of water sourced from desalination | | | | Volume of water sourced from recycling (ie where potable water would normally be supplied) | | | | Volume from bulk supplier | | | | Volume bulk recycled purchased | | | | Total sourced water | | | |
| | W1 | | W2 | | W3 | | W4 | | W5 | | W6 | | W7 | | (ML) | | (ML) | | (ML) | | (ML) | | (ML) | | (ML) | | | |
| 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | |
| Sydney Water Corporation | 6,395 | 5,486 | 5,885 | 6,065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,952 | 7,777 | 10,101 | 8,264 | 10,253 | 502,692 | 475,156 | 491,727 | 479,633 | 0 | 0 | 0 | 0 | 516,864 | 490,743 | 505,876 | 515,903 |
| Hunter Water Corporation | 63,711 | 64,311 | 61,814 | 63,433 | 11,158 | 3,025 | 5,504 | 7,117 | 0 | 0 | 0 | 0 | 2,055 | 2,174 | 2,872 | 2,899 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76,924 | 69,510 | 70,190 | 73,449 |
| Sydney Catchment Authority | 503,693 | 478,184 | 490,283 | 582,623 | 450 | 169 | 0 | 0 | | | | | | | | | 3,115 | 1,077 | 208 | 0 | | | | | 507,258 | 479,430 | 490,491 | 582,623 |
| 1 Gosford City Council | 15,406 | 8,190 | 9,209 | 11,476 | 380 | 145 | 108 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 229 | 362 | 80 | 3,769 | 3,310 | 2,120 | 0 | 0 | 0 | 0 | 15,866 | 12,104 | 12,856 | 14,054 |
| 2 Wyong Shire Council | 4,979 | 15,446 | 15,369 | 13,480 | 511 | 230 | 286 | 292 | 0 | 0 | 0 | 0 | 1,233 | 1,164 | 1,295 | 1,024 | 8,404 | 769 | 1,603 | 3,595 | 0 | 0 | 0 | 0 | 15,127 | 17,609 | 18,553 | 18,391 |
| 3 Shoalhaven City Council | 14,616 | 14,140 | 14,854 | 14,724 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 125 | 161 | 144 | 78 | 74 | 82 | 87 | 0 | 0 | 0 | 0 | 14,803 | 14,339 | 15,097 | 14,955 |
| 4 Rous County Council | 10,972 | 10,078 | 10,501 | 12,070 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,972 | 10,202 | 10,501 | 12,070 |
| 5 MidCoast County Council | 9,098 | 8,566 | 8,537 | 8,477 | 662 | 665 | 628 | 687 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,760 | 9,231 | 9,169 | 9,164 |
| 6 Tweed Shire Council | 10,121 | 9,429 | 9,564 | 10,555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 310 | 262 | 645 | 778 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 10,431 | 9,691 | 10,209 | 11,342 |
| 7 Port Macquarie-Hastings Council | 6,509 | 6,237 | 6,117 | 6,283 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 64 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,509 | 6,325 | 6,181 | 6,377 |
| 8 Riverina Water County Council | 6,315 | 3,972 | 6,055 | 4,463 | 11,102 | 10,844 | 11,287 | 10,517 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 24 | 24 | 22 | 0 | 0 | 0 | 0 | 17,497 | 14,840 | 17,366 | 15,002 |
| 10 Coffs Harbour City Council | 5,728 | 5,458 | 5,153 | 5,976 | | | 0 | - | 0 | 0 | 0 | - | | | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 5,728 | 5,458 | 5,153 | 5,976 |
| 11 Albury City Council | 8,752 | 5,534 | 6,319 | 6,881 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,752 | 5,534 | 6,319 | 6,881 |
| 12 Fish River Water Supply | 12,101 | 7,404 | 5,999 | 5,124 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 12,101 | 7,404 | 5,999 | 5,124 |
| 13 Tamworth Regional Council | 8,395 | 7,131 | 7,239 | 8,966 | 346 | 500 | 1,455 | 678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,741 | 7,631 | 8,694 | 9,644 |
| 14 Clarence Valley Council | 11,025 | 6,949 | 7,987 | 7,057 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 | 79 | 127 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,128 | 7,028 | 8,114 | 7,222 |
| 15 Eurobodalla Shire Council | | | 3,825 | 4,034 | | | 0 | 0 | | | 0 | 0 | | | 237 | 371 | | | 0 | 0 | | | 0 | 0 | | | 4,062 | 4,405 |
| 16 Wingecarribee Shire Council | 1,205 | 672 | 876 | 1,512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 64 | 73 | 4,644 | 4,601 | 4,379 | 3,628 | 0 | 0 | 0 | 0 | 5,849 | 5,322 | 5,319 | 5,213 |
| 17 Queanbeyan City Council | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,082 | 3,416 | 3,658 | 3,747 | 0 | 0 | 0 | 0 | 4,082 | 3,416 | 3,658 | 3,747 |
| 18 Dubbo City Council | 8,501 | 5,952 | 5,984 | 6,398 | 2,056 | 2,050 | 1,807 | 1,663 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,557 | 8,002 | 7,791 | 8,061 |
| 19 Orange City Council | 5,469 | 4,730 | 4,125 | 3,896 | 63 | 54 | 67 | 55 | 0 | 0 | 0 | 0 | 2,836 | 3,367 | 3,218 | 3,032 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,368 | 8,151 | 7,410 | 6,983 |
| 21 Bathurst Regional Council | 7,163 | 6,155 | 7,528 | 6,617 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,163 | 6,155 | 7,528 | 6,617 |
| 22 Lismore City Council | 148 | 148 | 115 | 173 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,409 | 3,202 | 3,406 | 3,622 | 0 | 0 | 0 | 0 | 3,557 | 3,350 | 3,521 | 3,795 |
| 23 Bega Valley Shire Council | | | 1,634 | 1,450 | | | 1,855 | 2,017 | | | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | | 3,489 | 3,467 |
| 24 Ballina Shire Council | 0 | 123 | 129 | 130 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 193 | 107 | 119 | 717 | 3,753 | 3,299 | 3,316 | 3,900 | 0 | 0 | 0 | 0 | 3,946 | 3,529 | 3,568 | 4,747 |
| 25 Kempsey Shire Council | 13 | 974 | 1,628 | 1,396 | 3,920 | 2,741 | 1,966 | 2,338 | 0 | 0 | 0 | 0 | 119 | 46 | 32 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,052 | 3,761 | 3,626 | 3,774 |
| 26 Country Energy | 1,515 | 1,896 | 3,212 | 1,030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 641 | 649 | 523 | 622 | 3,961 | 3,568 | 1,633 | 3,929 | 0 | 0 | 0 | 0 | 6,117 | 6,113 | 5,368 | 5,581 |
| 27 Byron Shire Council | 444 | 368 | 349 | 392 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 315 | 235 | 218 | 2,366 | 2,189 | 2,286 | 2,617 | 0 | 0 | 0 | 0 | 3,150 | 2,872 | 2,870 | 3,227 |
| 28A Goldenfields Water (Reticulation) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,970 | 4,749 | 5,561 | 5,179 | 0 | 0 | 0 | 0 | 5,970 | 4,749 | 5,561 | 5,179 |
| 28B Goldenfields Water (Bulk Supply) | | | 3,957 | 3,817 | | | 4,779 | 4,509 | | | 0 | 0 | | | 0 | 0 | | | 379 | 390 | | | 0 | 0 | | | 9,115 | 8,716 |
| 20 Goulburn Mulwaree | | | 2,433 | 2,443 | | | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | | 0 | 0 | | | 2,433 | 2,443 |
| 9 Wagga Wagga City Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWU Range Max | 15,406 | 15,446 | 15,369 | 14,724 | 11,102 | 10,844 | 11,287 | 10,517 | 0 | 0 | 0 | 0 | 2,836 | 3,367 | 3,218 | 3,032 | 8,404 | 4,749 | 5,561 | 5,179 | 0 | 0 | 0 | 0 | 17,497 | 17,609 | 18,553 | 18,391 |
| LWU Range Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,150 | 2,872 | 2,433 | 2,443 |
| Median of NMU Indicators shown in Table | 6,412 | 5,743 | 5,569 | 4,794 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 20 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 8,555 | 6,677 | 6,250 | 6,497 |

Notes * Indicators shown are those published in the 2009/10 National Performance Report.

| WATER UTILITY | WATER RESOURCES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------|---------|---------|--|---------|---------|---------|--|---------|---------|---------|---|---------|---------|---------|---|---------|---------|---------|--|---------|---------|---------|------------------------------|---------|---------|---------|---------------------------------------|---------|---------|---------|
| | USES OF WATER SUPPLIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Volume of water supplied - Residential (incl nonpotable) | | | | Volume of water supplied - commercial, municipal, industrial (incl nonpotable) | | | | Volume of water supplied - other (incl nonpotable) | | | | Total Urban Water Supplied (Excl Bulk Water & Environmental Flows Incl Recycled & Losses) | | | | Average Annual Residential Water Supplied | | | | Volume of water supplied - Environmental flows | | | | Volume of bulk water exports | | | | Volume of bulk recycled water exports | | | |
| | W8 | | | | W9 | | | | W10 | | | | W11 | | | | W12 | | | | W13 | | | | W14 | | | | W15 | | | |
| | (ML) | | | | (ML) | | | | (ML) | | | | (ML) | | | | (kL/prop) | | | | (ML) | | | | (ML) | | | | (ML) | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 |
| Sydney Water Corporation | 316,813 | 292,782 | 320,861 | 334,488 | 147,644 | 136,064 | 126,712 | 130,640 | 45,473 | 52,855 | 44,395 | 40,522 | 509,930 | 481,701 | 491,968 | 505,650 | 199 | 182 | 198 | 205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hunter Water Corporation | 39,238 | 36,428 | 37,199 | 38,463 | 22,027 | 20,866 | 21,487 | 21,081 | 9,334 | 8,715 | 8,334 | 8,689 | 70,599 | 66,009 | 67,020 | 68,233 | 195 | 177 | 180 | 184 | 5,110 | 5,110 | 5,110 | 5,110 | 4,157 | 1,235 | 161 | 2,316 | 0 | 0 | 0 | 0 |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | 70,156 | 70,842 | 80,680 | 82,382 | 507,258 | 479,430 | 490,491 | 481,961 | | | | |
| 1 Gosford City Council | 9,800 | 8,990 | 9,356 | 9,848 | 2,401 | 2,161 | 2,188 | 2,159 | 1,356 | 905 | 1,075 | 1,601 | 13,557 | 12,056 | 12,619 | 13,608 | 147 | 135 | 140 | 146 | 0 | 0 | 0 | 0 | 3,545 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 Wyong Shire Council | 7,568 | 8,184 | 7,970 | 8,767 | | 3,434 | 4,153 | 4,145 | | 1,210 | 1,232 | 988 | 12,551 | 12,828 | 13,355 | 13,900 | 139 | 146 | 141 | 154 | 0 | 0 | 0 | 0 | 1,966 | 4,451 | 4,766 | 4,491 | 0 | 0 | 0 | 0 |
| 3 Shoalhaven City Council | 6,907 | 6,154 | 6,484 | 6,208 | | 4,197 | 7,143 | 7,570 | | 2,098 | 1,502 | 1,456 | 13,011 | 12,449 | 15,129 | 15,234 | 164 | 144 | 152 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 Rous County Council | 513 | 388 | 291 | 286 | | 214 | 72 | 1,121 | | 67 | 139 | 160 | 805 | 668 | 502 | 1,567 | | | | | 0 | 0 | 0 | 0 | 10,051 | 10,000 | 10,362 | 10,789 | 0 | 0 | 0 | 0 |
| 5 MidCoast County Council | 5,560 | 5,014 | 5,067 | 5,209 | | 2,342 | 2,339 | 2,375 | | 1,579 | 1,763 | 1,579 | 9,506 | 8,935 | 9,169 | 9,163 | 167 | 149 | 150 | 154 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 Tweed Shire Council | 6,004 | 5,251 | 5,441 | 5,281 | | 2,454 | 2,707 | 3,671 | | 1,327 | 1,057 | 1,500 | 9,838 | 9,032 | 9,205 | 10,452 | 199 | 174 | 180 | 176 | 0 | 0 | 0 | 0 | 38 | 66 | 79 | 1 | 0 | 0 | 0 | 0 |
| 7 Port Macquarie-Hastings Council | 4,303 | 4,015 | 4,072 | 4,329 | | 1,480 | 1,513 | 1,532 | | 593 | 605 | 639 | 6,514 | 6,088 | 6,190 | 6,500 | 157 | 154 | 151 | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 Riverina Water County Council | 10,252 | 8,329 | 9,710 | 8,678 | | 5,172 | 5,974 | 5,473 | | 1,339 | 1,393 | 1,702 | 17,559 | 14,840 | 17,077 | 15,853 | 410 | 327 | 374 | 330 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 Coffs Harbour City Council | 3,887 | 3,743 | 3,675 | 4,194 | | 1,441 | 1,505 | 1,798 | | 447 | 621 | 627 | 5,798 | 5,631 | 5,801 | 6,619 | 178 | 169 | 165 | 186 | 0 | 0 | 0 | 0 | 0 | 0 | 649 | - | 0 | 0 | 0 | 0 |
| 11 Albury City Council | 5,741 | 3,857 | 4,488 | 4,527 | | 1,303 | 1,716 | 1,592 | | 573 | 689 | 679 | 8,243 | 5,733 | 6,893 | 6,798 | 276 | 193 | 222 | 220 | 0 | 0 | 0 | 0 | 436 | 291 | 389 | 328 | 0 | 0 | 0 | 0 |
| 12 Fish River Water Supply | 228 | 703 | | | | 150 | 101 | 101 | | 420 | 583 | 968 | | 1,273 | 684 | 1,459 | | | | | 0 | 0 | 0 | 0 | 11,249 | 6,792 | 4,829 | 3,999 | 0 | 0 | 0 | 0 |
| 13 Tamworth Regional Council | 4,088 | 3,484 | 4,110 | 4,733 | | 3,172 | 3,314 | 3,539 | | 1,813 | 1,848 | 1,170 | 8,708 | 8,469 | 9,272 | 9,442 | 230 | 192 | 226 | 256 | 0 | 0 | 0 | 0 | | 19 | 18 | 0 | 0 | 0 | 0 | 0 |
| 14 Clarence Valley Council | 3,324 | 3,222 | 3,210 | 3,241 | | 2,331 | 2,232 | 2,240 | | 1,096 | 780 | 1,255 | 9,307 | 6,649 | 6,222 | 6,736 | 184 | 178 | 176 | 174 | 0 | 0 | 0 | 0 | 4,232 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 Eurobodalla Shire Council | 2,271 | 2,155 | 2,362 | 2,128 | | 1,116 | 983 | 1,024 | | 1,169 | 651 | 1,163 | 4,063 | 4,440 | 3,996 | 4,315 | 126 | 119 | 129 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 Wingecarribee Shire Council | 3,532 | 2,820 | 3,088 | 3,239 | | 927 | 946 | 995 | | 497 | 791 | 628 | 4,939 | 4,244 | 4,825 | 4,862 | 214 | 168 | 183 | 190 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 Queanbeyan City Council | 3,058 | 2,766 | 2,925 | 2,985 | | 639 | 723 | 743 | | 378 | 405 | 551 | 4,534 | 3,783 | 4,053 | 4,279 | 211 | 188 | 198 | 200 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 Dubbo City Council | 5,976 | 4,458 | 4,724 | 4,908 | | 1,755 | 2,053 | 1,712 | | 1,132 | 1,428 | 1,072 | 10,378 | 7,345 | 8,205 | 7,692 | 431 | 322 | 331 | 329 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 Orange City Council | 4,536 | 2,590 | 3,696 | 2,145 | | 4,711 | 4,121 | | | 869 | 537 | | 8,999 | 8,170 | 8,354 | 6,929 | | | 259 | 148 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 Bathurst Regional Council | 3,805 | 3,190 | 3,210 | 3,366 | | 2,010 | 1,995 | 2,033 | | 577 | 578 | 602 | 7,136 | 5,777 | 5,783 | 6,001 | 290 | 241 | 240 | 252 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 6 | 0 | 0 | 0 | 0 |
| 22 Lismore City Council | 2,176 | 2,057 | 2,023 | 2,152 | | 942 | 883 | 926 | | 333 | 616 | 713 | 3,557 | 3,332 | 3,522 | 3,791 | 174 | 163 | 159 | 168 | 0 | 0 | 0 | 0 | | | 0 | 4 | 0 | 0 | 0 | 0 |
| 23 Bega Valley Shire Council | 2,067 | 1,860 | 1,999 | 2,144 | | 1,239 | 1,397 | 1,597 | | 600 | 594 | 472 | 3,742 | 3,699 | 3,990 | 4,213 | | | 154 | 165 | 0 | 0 | 0 | 0 | 9 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| 24 Ballina Shire Council | 2,394 | 2,243 | 2,217 | 2,447 | | 737 | 743 | 1,444 | | 567 | 608 | 876 | 4,265 | 3,547 | 3,568 | 4,767 | 198 | 186 | 175 | 188 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 Kempsey Shire Council | 1,900 | 1,767 | 1,642 | 1,874 | | 1,145 | 1,073 | 1,251 | | 832 | 910 | 649 | 4,061 | 3,784 | 3,625 | 3,774 | 184 | 169 | 156 | 177 | 0 | 0 | 0 | 0 | 17 | 17 | 17 | 27 | 0 | 0 | 0 | 0 |
| 26 Country Energy | 2,685 | 2,801 | 2,712 | 2,676 | | 3,438 | 2,600 | 2,775 | | 494 | 448 | 475 | 6,476 | 6,733 | 5,760 | 5,926 | 274 | 284 | 284 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 Byron Shire Council | 1,744 | 1,707 | 1,712 | 1,855 | | 1,013 | 1,026 | 941 | | 214 | 282 | 376 | 2,851 | 2,934 | 3,020 | 3,172 | 186 | 181 | 181 | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| 28A Goldenfields Water (Reticulation) | 2,234 | 1,740 | 2,055 | 1,797 | | 2,704 | 2,938 | 2,864 | | 494 | 541 | 504 | 5,970 | 4,938 | 5,534 | 5,165 | 294 | 229 | 298 | 259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | 539 | | | | 539 | | | | | | | | 0 | 0 | | | 9,115 | 8,716 | | | 0 | 0 |
| 20 Goulburn Mulwaree | | | 1,262 | 1,271 | | | 929 | 721 | | | 350 | 221 | | | 2,541 | 2,213 | | | 134 | 136 | | | 0 | 0 | | | 1 | 3 | | | 0 | 0 |
| 9 Wagga Wagga City Council | | | | | | | | | | | | | | | 294 | | | | | | | | | | | | | | 0 | 0 | 0 | 0 |
| LWU Range Max | 10,252 | 8,990 | 9,710 | 9,848 | | | 7,143 | 7,570 | | | 1848 | 1,702 | 17559 | 14840 | 17077 | 15,853 | 431 | 327 | 374 | 330 | 0 | 0 | 0 | 0 | 11249 | 10000 | 10362 | 10,789 | 0 | 0 | 0 | 0 |
| LWU Range Min | 228 | 388 | 291 | 286 | | | 72 | 101 | | | 139 | 160 | 805 | 668 | 294 | 1,459 | 126 | 119 | 129 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Median of NMU Indicators shown in Table | 3,669 | 3,005 | 3,210 | 3,240 | | | 1,716 | 1,655 | | | 618 | 696 | 6514 | 5755 | 5760 | 6,001 | 192 | 176 | 176 | 177 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| WATER UTILITY | WATER RESOURCES | | | | | | | | | | | | | | | |
|---|---|---------|---------|---------|--|---------|---------|---------|------------------------|---------|---------|---------|-------------------------------|---------|---------|---------|
| | SEWAGE COLLECTED | | | | | | | | | | | | | | | |
| | Volume of sewage collected - Residential, nonresidential and nontrade waste | | | | Volume of sewage collected - trade waste | | | | Total Sewage collected | | | | Sewage collected per property | | | |
| | W16 | | | | W17 | | | | W18 | | | | W19 | | | |
| | (ML) | | | | (ML) | | | | (ML) | | | | (kL/property) | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 |
| Sydney Water Corporation | 459,379 | 520,845 | 451,075 | 440,251 | 26,133 | 25,536 | 24,617 | 23,986 | 485,512 | 546,381 | 475,692 | 464,237 | 290 | 324 | 279 | 269 |
| Hunter Water Corporation | 73,944 | 71,087 | 61,590 | 52,379 | 2,394 | 3,296 | 3,226 | 3,102 | 76,338 | 74,383 | 64,815 | 55,481 | 372 | 356 | 307 | 260 |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 13,180 | 13,422 | 11,667 | 11,866 | 1,040 | 1,346 | 1,545 | 969 | 14,220 | 14,768 | 13,212 | 12,835 | 210 | 217 | 193 | 187 |
| 2 Wyong Shire Council | | 14,195 | 15,141 | 13,980 | | | - | - | 13,030 | 14,195 | 15,141 | 13,980 | 227 | 243 | 258 | 236 |
| 3 Shoalhaven City Council | | 7,223 | 6,277 | 6,824 | | | 230 | 119 | 7,069 | 7,223 | 6,507 | 6,943 | 191 | 188 | 165 | 171 |
| 4 Rous County Council | | | | | | | | | | | | | | | | |
| 5 MidCoast County Council | 7,416 | 7,874 | 7,378 | 6,312 | 146 | 144 | 132 | 122 | 7,660 | 8,018 | 7,510 | 6,434 | 239 | 248 | 231 | 196 |
| 6 Tweed Shire Council | 5,868 | 6,510 | 7,642 | 8,634 | 1,386 | 1,382 | 1,315 | 187 | 7,262 | 7,892 | 8,957 | 8,821 | 266 | 270 | 302 | 300 |
| 7 Port Macquarie-Hastings Council | | 8,229 | 9,082 | 7,857 | | | - | - | 8,333 | 8,229 | 9,082 | 7,857 | 323 | 317 | 334 | 298 |
| 8 Riverina Water County Council | | | | | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | | 6,703 | 5,919 | 6,436 | | | 875 | 0 | 6,121 | 6,703 | 6,794 | 6,436 | 280 | 302 | 302 | 284 |
| 11 Albury City Council | 3,386 | 4,137 | 3,609 | 4,219 | 900 | 154 | 178 | 311 | 4,284 | 4,291 | 3,787 | 4,530 | 204 | 211 | 184 | 216 |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 3,319 | 3,253 | 3,712 | 3,834 | 935 | 1,052 | 1,029 | 1,000 | 4,266 | 4,305 | 4,741 | 4,834 | 237 | 236 | 258 | 260 |
| 14 Clarence Valley Council | | 2,957 | 3,262 | 2,966 | | 38 | 0 | 58 | 2,623 | 2,995 | 3,262 | 3,024 | 215 | 214 | 228 | 210 |
| 15 Eurobodalla Shire Council | 3,255 | 3,125 | 2,875 | 3,627 | 94 | 62 | 0 | 0 | 3,339 | 3,187 | 2,875 | 3,627 | 193 | 183 | 163 | 205 |
| 16 Wingecarribee Shire Council | 2,967 | 4,004 | 3,010 | 3,032 | 118 | 102 | 108 | 112 | 3,360 | 4,106 | 3,118 | 3,144 | 240 | 290 | 218 | 217 |
| 17 Queanbeyan City Council | 3,480 | 3,740 | 3,691 | 3,361 | 236 | 250 | 300 | 300 | 3,705 | 3,990 | 3,991 | 3,661 | 239 | 250 | 249 | 228 |
| 18 Dubbo City Council | 2,394 | 2,409 | 2,000 | 2,191 | 323 | 547 | 715 | 715 | 2,711 | 2,956 | 2,715 | 2,906 | 188 | 200 | 182 | 188 |
| 19 Orange City Council | 2,842 | 3,509 | 3,871 | 3,318 | 194 | 188 | 137 | 103 | 3,131 | 3,697 | 4,008 | 3,421 | 202 | 248 | 265 | 219 |
| 21 Bathurst Regional Council | 2,983 | 3,069 | 2,437 | 3,498 | 526 | 538 | 512 | 564 | 3,514 | 3,607 | 2,949 | 4,062 | 251 | 251 | 203 | 274 |
| 22 Lismore City Council | | 3,263 | 4,189 | 5,383 | | | - | - | 3,263 | 3,263 | 4,189 | 5,383 | 269 | 267 | 341 | 434 |
| 23 Bega Valley Shire Council | | 1,869 | 1,764 | 2,010 | | | - | - | 2,052 | 1,869 | 1,764 | 2,010 | 190 | 161 | 149 | 169 |
| 24 Ballina Shire Council | | 2,249 | 4,579 | 3,999 | | | - | 7 | 3,509 | 2,249 | 4,579 | 4,006 | 271 | 180 | 360 | 306 |
| 25 Kempsey Shire Council | 1,926 | 2,560 | 2,896 | 2,298 | 86 | 54 | 90 | 100 | 2,011 | 2,614 | 2,986 | 2,398 | 226 | 293 | 333 | 266 |
| 26 Country Energy | | 0 | 1,240 | 1,357 | | | 0 | 0 | 1,344 | 1,316 | 1,240 | 1,357 | 140 | 136 | 128 | 140 |
| 27 Byron Shire Council | | 3,025 | 3,008 | 3,286 | | 225 | 294 | 0 | 2,813 | 3,250 | 3,302 | 3,286 | 287 | 325 | 335 | 324 |
| 28A Goldenfields Water (Reticulation) | | | | | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | | 1,660 | 1,576 | | | - | - | | | 1,660 | 1,576 | | | 164 | 165 |
| 9 Wagga Wagga City Council | | 4,827 | 4,627 | 4,347 | | 616 | 747 | 827 | 5,675 | 5,443 | 5,374 | 5,174 | 250 | 236 | 228 | 206 |
| LWU Range Max | | 14,195 | 15,141 | 13,980 | | 1,382 | 1,545 | 1,000 | 14,220 | 14,768 | 15,141 | 13,980 | 323 | 325 | 360 | 434 |
| LWU Range Min | | 0 | 1,240 | 1,357 | | 38 | 0 | 0 | 1,344 | 1,316 | 1,240 | 1,357 | 140 | 136 | 128 | 140 |
| Median of NMU Indicators shown in Table | | 3,509 | 3,702 | 3,731 | | 225 | 262 | 119 | 3,514 | 3,990 | 4,000 | 4,034 | 237 | 243 | 229 | 218 |

| WATER UTILITY | WATER RESOURCES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|---------|---------|---|---------|---------|---------|--|---------|---------|---------|---|---------|---------|---------|---|---------|---------|---------|---|---------|---------|---------|-------------------------------|---------|---------|---------|---|---------|---------|---------|
| | USES OF RECYCLED WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Volume of Recycled water supplied (Residential) | | | | Volume of Recycled water supplied (Commercial, Industrial, Municipal) | | | | Volume of Recycled water supplied (Agricultural) | | | | Volume of Recycled water supplied (Environmental) | | | | Volume of Recycled water supplied (On-site) | | | | Volume of Recycled water supplied (Other) | | | | Total Recycled water supplied | | | | Recycled water (% of effluent recycled) | | | |
| | W20 | | | | W21 | | | | W22 | | | | W23 | | | | W24 | | | | W25 | | | | W26 | | | | W27 | | | |
| | (ML) | | | | (ML) | | | | (ML) | | | | (ML) | | | | (ML) | | | | (ML) | | | | (%) | | | | | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 |
| Sydney Water Corporation | 1,652 | 1,402 | 1,704 | 2,209 | 5,995 | 7,212 | 5,155 | 7,537 | 130 | 632 | 3,034 | 5,643 | 0 | 0 | 0 | 1,980 | 13,352 | 14,917 | 15,549 | 16,314 | 0 | 0 | 0 | 0 | 21,129 | 24,163 | 25,442 | 33,683 | 4 | 4 | 5 | 7 |
| Hunter Water Corporation | 0 | 0 | 0 | 0 | 1,875 | 1,984 | 2,289 | 2,648 | 1,967 | 2,269 | 2,623 | 2,520 | 0 | 0 | 0 | 0 | 218 | 218 | 180 | 180 | 0 | 0 | 0 | 0 | 4,060 | 4,471 | 5,092 | 5,348 | 5 | 6 | 8 | 10 |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 277 | 216 | 348 | 0 | 0 | 0 | 0 | 212 | 277 | 284 | 362 | 1 | 2 | 2 | 3 |
| 2 Wyong Shire Council | 0 | 0 | 0 | 0 | 0 | 832 | 865 | 940 | 852 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 381 | 391 | 422 | 84 | 0 | 0 | 0 | 0 | 1,233 | 1,223 | 1,296 | 1,024 | 9 | 9 | 9 | 7 |
| 3 Shoalhaven City Council | 0 | 0 | 0 | 0 | 109 | 147 | 125 | 144 | 1,742 | 1,313 | 1,753 | 2,261 | 0 | - | 0 | 0 | 20 | 24 | 24 | 0 | 0 | 0 | 0 | 1,919 | 1,480 | 1,902 | 2,429 | 27 | 20 | 29 | 35 | |
| 4 Rous County Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 MidCoast County Council | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 75 | 57 | 151 | 703 | 0 | 0 | 0 | 0 | 2 | 4 | 26 | 0 | 0 | 0 | 0 | 75 | 59 | 159 | 729 | 1 | 1 | 2 | 11 | |
| 6 Tweed Shire Council | 0 | 0 | 0 | 0 | 255 | 257 | 645 | 778 | 80 | 41 | 40 | 38 | 0 | 0 | 0 | 0 | 5 | 5 | 58 | 6 | 0 | 0 | 0 | 0 | 340 | 303 | 743 | 822 | 5 | 5 | 8 | 9 |
| 7 Port Macquarie-Hastings Council | 0 | 0 | 0 | 0 | 41 | 158 | 137 | 109 | 262 | 107 | 93 | 207 | 0 | 0 | 0 | 0 | 0 | 36 | 53 | 0 | 0 | 0 | 0 | 0 | 265 | 266 | 369 | 3 | 3 | 5 | 5 | |
| 8 Riverina Water County Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | 0 | 0 | 0 | 0 | 86 | 93 | 107 | 346 | 487 | 637 | 1,403 | 516 | 0 | - | - | 0 | 63 | 60 | 62 | 167 | 0 | 0 | 0 | 0 | 636 | 790 | 1,572 | 1,029 | 10 | 12 | 23 | 16 |
| 11 Albury City Council | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,114 | 1,056 | 2,522 | 1,913 | 0 | 1,067 | 2,445 | 0 | 2,354 | 3,137 | 0 | 0 | 0 | 0 | 0 | 4,468 | 4,193 | 3,589 | 4,358 | 104 | 98 | 96 | 100 | |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 0 | 0 | 0 | 0 | 0 | 72 | 81 | 0 | 1,468 | 1,488 | 1,678 | 1,727 | 0 | 0 | 0 | 0 | 0 | 7 | 123 | 0 | 0 | 0 | 0 | 1,468 | 1,560 | 1,766 | 1,850 | 34 | 36 | 36 | 38 | |
| 14 Clarence Valley Council | 0 | 0 | 0 | 0 | 0 | 114 | 127 | 165 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 | 114 | 127 | 165 | 4 | 4 | 4 | 5 | |
| 15 Eurobodalla Shire Council | 0 | 0 | 0 | 0 | 23 | 184 | 171 | 281 | 142 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 59 | 66 | 71 | 0 | 0 | 0 | 0 | 273 | 243 | 237 | 370 | 8 | 8 | 8 | 10 |
| 16 Wingecarribee Shire Council | 0 | 0 | 0 | 0 | 0 | 54 | 64 | 73 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 87 | 71 | 64 | 73 | 3 | 2 | 2 | 2 | |
| 17 Queanbeyan City Council | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 47 | 47 | 0 | 0 | 0 | 0 | 81 | 56 | 47 | 47 | 2 | 1 | 1 | 1 | |
| 18 Dubbo City Council | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,639 | 2,914 | 2,576 | 2,183 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 2,658 | 2,914 | 2,576 | 2,281 | 98 | 99 | 97 | 78 | |
| 19 Orange City Council | 0 | 0 | 0 | 0 | 2,836 | 3,367 | 3,218 | 3,033 | 0 | 25 | 27 | 0 | 0 | 0 | 0 | 0 | 190 | 104 | 2 | 0 | 0 | 0 | 0 | 2,836 | 3,496 | 3,247 | 3,033 | 91 | 95 | 87 | 90 | |
| 21 Bathurst Regional Council | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,949 | 2,945 | 575 | 848 | 590 | 691 | 0 | 0 | 0 | 0 | 575 | 848 | 3,539 | 3,636 | 16 | 24 | 100 | 100 |
| 22 Lismore City Council | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 182 | 33 | 10 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 182 | 33 | 10 | 30 | 6 | 1 | 0 | 1 | |
| 23 Bega Valley Shire Council | 0 | 0 | 0 | 0 | 0 | 457 | 556 | 613 | 616 | 156 | 257 | 214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 608 | 613 | 813 | 827 | 30 | 33 | 46 | 41 | |
| 24 Ballina Shire Council | 0 | 0 | 0 | 0 | 155 | 107 | 119 | 717 | 56 | 0 | 33 | 51 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 193 | 107 | 152 | 768 | 5 | 3 | 19 | 19 | |
| 25 Kempsey Shire Council | 0 | 0 | 0 | 0 | 15 | 34 | 32 | 40 | 96 | 11 | 7 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 119 | 46 | 40 | 55 | 6 | 2 | 1 | 2 | |
| 26 Country Energy | 0 | 0 | 0 | 0 | 641 | 649 | 523 | 622 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 641 | 649 | 523 | 622 | 48 | 49 | 41 | 46 | |
| 27 Byron Shire Council | 0 | 0 | 0 | 0 | 0 | 340 | 235 | 218 | 776 | 343 | 210 | 231 | 0 | 0 | 0 | 0 | 48 | 40 | 42 | 28 | 0 | 0 | 0 | 0 | 824 | 723 | 487 | 477 | 29 | 22 | 13 | 15 |
| 28A Goldenfields Water (Reticulation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | | 0 | 0 | | | 62 | 0 | | | 1,521 | 1,261 | | | - | 0 | | 1,583 | 0 | | | 0 | 0 | | 3,166 | 1,261 | | | | 100 | 80 | |
| 9 Wagga Wagga City Council | 15 | 13 | 0 | 0 | 273 | 257 | 294 | 226 | 348 | 280 | 278 | 227 | 0 | 0 | 0 | 0 | 122 | 56 | 0 | 0 | 0 | 0 | 0 | 747 | 606 | 572 | 453 | 13 | 11 | 11 | 9 | |
| LWU Range Max | 15 | 13 | 0 | 0 | 2,836 | 3,367 | 3,218 | 3,033 | 2,639 | 2,914 | 2,576 | 2,261 | 0 | 0 | 2,949 | 2,945 | 2,354 | 3,137 | 1,583 | 691 | 0 | 0 | 0 | 0 | 4,468 | 4,193 | 3,589 | 4,358 | 104 | 99 | 100 | 100 |
| LWU Range Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 10 | 30 | 1 | 1 | 0 | 1 |
| Median of NMU Indicators shown in Table | 0 | 0 | 0 | 0 | 0 | 107 | 113 | 127 | 142 | 33 | 37 | 45 | 0 | 0 | 0 | 0 | 33 | 17 | 6 | 15 | 0 | 0 | 0 | 0 | 575 | 606 | 548 | 749 | 10 | 9 | 10 | 13 |

| WATER UTILITY | ASSETS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------------|---|---|---------------------------------|--|--------|--------|---------------------------------|--|----|----|---------------------------------|-----------------------------------|----|----|---------------------------------|-------------------------------------|--------|--------|---------------------------------|--|----|----|---------------------------------|---|---|---|---|---|
| | WATER ASSETS | | | | | | | | | | | | SGE ASSETS | | | | | | | | | | | | | | | | |
| | No. of WTWs providing full treatment | | | | Length of Water Mains (excluding source transfer mains & property connections) | | | | Properties served per km of water main | | | | Number of Sewage Treatment Plants | | | | Length of sewerage mains & channels | | | | Properties served per km of sewer main | | | | Number of Recycled Water Treatment Plants | | | | |
| | A1 | | | | A2 | | | | A3 | | | | A4 | | | | A5 | | | | A6 | | | | A7 | | | | |
| (No.) | | | | (km) | | | | (no.) | | | | (no.) | | | | (km) | | | | (no.) | | | | (no.) | | | | | |
| 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | | |
| Sydney Water Corporation | 9 | 9 | 9 | 10 | 20,824 | 20,896 | 20,936 | 21,015 | 83 | 83 | 84 | 84 | 30 | 31 | 29 | 29 | 23,520 | 23,708 | 23,817 | 24,022 | 71 | 71 | 72 | 72 | 2 | 2 | 2 | 2 | |
| Hunter Water Corporation | 5 | 5 | 6 | 6 | 4,638 | 4,692 | 4,822 | 4,857 | 47 | 47 | 46 | 46 | 17 | 17 | 18 | 18 | 4,523 | 4,556 | 4,626 | 4,667 | 45 | 46 | 46 | 46 | 0 | 0 | 0 | 0 | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 1 | 2 | 2 | 2 | 946 | 1,007 | 1,014 | 1,014 | 73 | 69 | 69 | 69 | 2 | 2 | 2 | 2 | 1,399 | 1,400 | 1,401 | 1,323 | 48 | 49 | 49 | 52 | 0 | 0 | 0 | 2 | |
| 2 Wyong Shire Council | 1 | 1 | 1 | 1 | 1,107 | 1,120 | 1,136 | 1,145 | 52 | 53 | 52 | 52 | 6 | 6 | 6 | 6 | 1,199 | 1,210 | 1,220 | 1,201 | 48 | 48 | 48 | 49 | 0 | 0 | 0 | 0 | |
| 3 Shoalhaven City Council | 4 | 4 | 4 | 4 | 1,462 | 1,469 | 1,471 | 1,519 | 31 | 31 | 31 | 30 | 10 | 10 | 12 | 12 | 1,034 | 1,112 | 1,117 | 1,139 | 36 | 35 | 35 | 36 | 0 | 0 | 0 | 0 | |
| 4 Rous County Council | 2 | 2 | 2 | 2 | 76 | 80 | 80 | 125 | | | | | | | | | | | | | | | | | | | | 0 | 0 |
| 5 MidCoast County Council | 2 | 2 | 2 | 2 | 1,195 | 1,187 | 1,234 | 1,251 | 30 | 30 | 29 | 29 | 12 | 12 | 12 | 12 | 922 | 947 | 965 | 954 | 35 | 34 | 34 | 34 | 0 | 0 | 0 | 0 | |
| 6 Tweed Shire Council | 3 | 3 | 3 | 3 | 660 | 670 | 726 | 690 | 44 | 47 | 44 | 45 | 8 | 8 | 8 | 7 | 636 | 642 | 706 | 691 | 43 | 45 | 42 | 43 | 0 | 0 | 0 | 0 | |
| 7 Port Macquarie-Hastings Council | 4 | 4 | 4 | 4 | 753 | 768 | 771 | 775 | 39 | 37 | 39 | 37 | 6 | 6 | 6 | 5 | 580 | 595 | 600 | 630 | 44 | 44 | 45 | 42 | 0 | 0 | 0 | 0 | |
| 8 Riverina Water County Council | 4 | 4 | 5 | 17 | 1,593 | 1,631 | 1,623 | 1,612 | 17 | 17 | 17 | 18 | | | | | | | | | | | | | | | | 0 | 0 |
| 10 Coffs Harbour City Council | 1 | 1 | 1 | 2 | 668 | 603 | 611 | 615 | 35 | 39 | 39 | 39 | 5 | 5 | 5 | 5 | 602 | 649 | 653 | 654 | 36 | 34 | 34 | 35 | 0 | 0 | 0 | 0 | |
| 11 Albury City Council | 1 | 1 | 1 | 1 | 563 | 530 | 536 | 562 | 40 | 41 | 41 | 40 | 3 | 4 | 4 | 4 | 464 | 484 | 495 | 497 | 45 | 42 | 42 | 42 | 0 | 0 | 0 | 0 | |
| 12 Fish River Water Supply | 1 | 1 | 1 | 1 | 238 | 241 | 231 | 241 | | | | | | | | | | | | | | | | | | | | 0 | 0 |
| 13 Tamworth Regional Council | 5 | 5 | 5 | 5 | 606 | 639 | 644 | 655 | 33 | 32 | 32 | 31 | 5 | 5 | 5 | 5 | 480 | 496 | 504 | 519 | 38 | 37 | 36 | 36 | 0 | 0 | 0 | 0 | |
| 14 Clarence Valley Council | 1 | 0 | 0 | 0 | 1,180 | 1,189 | 1,195 | 1,097 | 17 | 17 | 17 | 19 | 11 | 8 | 8 | 9 | 328 | 328 | 329 | 331 | 37 | 43 | 44 | 43 | 0 | 0 | 0 | 0 | |
| 15 Eurobodalla Shire Council | 1 | 0 | 0 | 0 | 871 | 877 | 886 | 934 | 22 | 22 | 22 | 21 | 5 | 5 | 5 | 5 | 402 | 505 | 508 | 509 | 43 | 35 | 35 | 35 | 0 | 0 | 0 | 0 | |
| 16 Wingecarribee Shire Council | 3 | 3 | 3 | 3 | 620 | 668 | 648 | 653 | 28 | 27 | 28 | 28 | 5 | 5 | 5 | 5 | 455 | 460 | 509 | 513 | 31 | 31 | 28 | 28 | 0 | 0 | 0 | 0 | |
| 17 Queanbeyan City Council | 0 | 0 | 0 | 0 | 272 | 279 | 279 | 279 | 57 | 57 | 57 | 57 | 1 | 1 | 1 | 1 | 321 | 326 | 326 | 327 | 48 | 49 | 49 | 49 | 0 | 0 | 0 | 0 | |
| 18 Dubbo City Council | 1 | 1 | 1 | 1 | 451 | 446 | 456 | 466 | 35 | 35 | 35 | 36 | 1 | 1 | 1 | 1 | 363 | 370 | 374 | 391 | 40 | 40 | 40 | 39 | 0 | 0 | 0 | 0 | |
| 19 Orange City Council | 2 | 2 | 2 | 2 | 481 | 481 | 497 | 503 | 32 | 33 | 32 | 32 | 2 | 2 | 2 | 2 | 405 | 382 | 393 | 395 | 38 | 39 | 38 | 40 | 0 | 0 | 0 | 0 | |
| 21 Bathurst Regional Council | 1 | 1 | 1 | 1 | 341 | 359 | 361 | 370 | 42 | 41 | 41 | 40 | 1 | 1 | 1 | 1 | 355 | 364 | 371 | 371 | 39 | 39 | 39 | 40 | 0 | 0 | 0 | 0 | |
| 22 Lismore City Council | 0 | 0 | 0 | 0 | 335 | 337 | 340 | 339 | 41 | 41 | 41 | 41 | 3 | 3 | 3 | 3 | 337 | 345 | 346 | 347 | 36 | 35 | 36 | 36 | 0 | 0 | 0 | 0 | |
| 23 Bega Valley Shire Council | 0 | 0 | 0 | 0 | 576 | 576 | 576 | 576 | 24 | 24 | 24 | 24 | 6 | 6 | 10 | 10 | 314 | 390 | 390 | 390 | 34 | 30 | 30 | 30 | 0 | 0 | 0 | 0 | |
| 24 Ballina Shire Council | 1 | 1 | 1 | 1 | 338 | 339 | 341 | 348 | 40 | 41 | 41 | 41 | 4 | 4 | 4 | 4 | 304 | 308 | 312 | 319 | 41 | 41 | 41 | 41 | 0 | 0 | 0 | 0 | |
| 25 Kempsey Shire Council | 1 | 2 | 2 | 2 | 539 | 542 | 544 | 547 | 22 | 23 | 23 | 23 | 7 | 7 | 7 | 7 | 255 | 270 | 267 | 268 | 35 | 33 | 34 | 34 | 0 | 0 | 0 | 0 | |
| 26 Country Energy | 2 | 3 | 3 | 3 | 362 | 362 | 362 | 364 | 30 | 30 | 29 | 29 | 2 | 2 | 2 | 2 | | | 195 | 248 | | | 50 | 39 | 0 | 0 | 0 | 0 | |
| 27 Byron Shire Council | 1 | 1 | 1 | 1 | 233 | 233 | 233 | 237 | 45 | 45 | 46 | 45 | 6 | 6 | 5 | 5 | 238 | 252 | 252 | 239 | 41 | 40 | 39 | 42 | 0 | 0 | 0 | 0 | |
| 28A Goldenfields Water (Reticulation) | 1 | 1 | 1 | 1 | 1,825 | 1,829 | 1,829 | 1,821 | 6 | 6 | 5 | 6 | | | | | | | | | | | | | | | | 0 | 0 |
| 28B Goldenfields Water (Bulk Supply) | 1 | 1 | 1 | 3 | 315 | 315 | 315 | 315 | | | | | | | | | | | | | | | | | | | | 0 | 0 |
| 20 Goulburn Mulwaree | | | 2 | 2 | | | 242 | 269 | | | 44 | 38 | | | 2 | 2 | | | 239 | 272 | | | 42 | 35 | | | | 0 | 0 |
| 9 Wagga Wagga City Council | | | | | | | | | | | | | 5 | 5 | 5 | 5 | 540 | 559 | 566 | 573 | 42 | 41 | 42 | 44 | 0 | 0 | 0 | 0 | |
| LWU Range Max | 5 | 5 | 5 | 17 | 1,825 | 1,829 | 1,829 | 1,821 | 73 | 69 | 69 | 69 | 12 | 12 | 12 | 12 | 1,399 | 1,400 | 1,401 | 1,323 | 48 | 49 | 50 | 52 | 0 | 0 | 0 | | |
| LWU Range Min | 0 | 0 | 0 | 0 | 76 | 80 | 80 | 125 | 6 | 6 | 5 | 6 | 1 | 1 | 1 | 1 | 238 | 252 | 195 | 239 | 31 | 30 | 28 | 28 | 0 | 0 | 0 | | |
| Median of NMU Indicators shown in Table | 1 | 1 | 1 | 2 | 576 | 576 | 560 | 569 | 34 | 34 | 35 | 36 | 5 | 5 | 5 | 5 | 430 | 472 | 444 | 446 | 40 | 40 | 40 | 40 | 0 | 0 | 0 | | |

| WATER UTILITY | ASSETS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------------|---------|---------|---------|------------------------------------|---------|---------|---------|--------------------------------|---------|---------|---------|------------------------------|---------|---------|---------|--|---------|---------|--|---------|---------|---------|---------|----|--|--|--|
| | WATER ASSETS | | | | | | | | | | | | SGE ASSETS | | | | | | | | | | | | | | | |
| | Water main breaks per 100km of main | | | | Infrastructure Leakage Index (ILI) | | | | Real losses (L/connection/day) | | | | Real losses (kL/km main/day) | | | | Sge Main Breaks and chokes per 100km of main (excludes property connections) | | | Property Connection Breaks and chokes per 1000 props | | | | | | | | |
| | A8 (no./100km) | | | | A9 | | | | A10 | | | | A11 | | | | A14 (per 100km of main) | | | A15 (per 1000 properties) | | | | | | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | | | | |
| Sydney Water Corporation | 35 | 30 | 34 | 28 | 1.5 | 1.5 | 1.4 | 1 | 94 | 91 | 81 | 73 | 5.8 | 5.6 | 5.0 | 5 | | | | | 56 | | | | 0 | | | |
| Hunter Water Corporation | 37 | 30 | 33 | 32 | 1.3 | 1.2 | 1.3 | 1 | 85 | 80 | 94 | 88 | 4.2 | 3.9 | 3.7 | 4 | | | | | 58 | | | | 13 | | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 36 | 29 | 27 | 34 | 1.0 | 1.0 | 1.0 | | 25 | 32 | 52 | | 1.4 | 1.9 | 3.0 | | | | | | 40 | | | | 4 | | | |
| 2 Wyong Shire Council | 4 | 4 | 9 | 6 | 1.0 | 1.0 | 1.0 | 1.0 | 26 | 28 | 29 | 31 | 1.4 | 1.5 | 1.5 | 1.5 | | | | | 48 | | | | 2 | | | |
| 3 Shoalhaven City Council | 14 | 9 | 14 | 9 | 1.0 | 1.0 | 1.0 | 1.0 | 39 | 80 | 59 | 69 | 1.2 | 2.5 | 1.8 | 2.1 | | | | | 15 | | | | 2 | | | |
| 4 Rous County Council | 48 | 24 | 16 | 21 | | | | | | 9 | 10 | | 0.6 | 1.4 | 4.8 | 3.5 | | | | | | | | | | | | |
| 5 MidCoast County Council | 10 | 9 | 5 | 3 | 1.0 | 1.1 | 1.3 | 1.1 | 60 | 86 | 101 | 85 | 1.3 | 2.3 | 2.7 | 2.2 | | | | | 7 | | | | - | | | |
| 6 Tweed Shire Council | 10 | 10 | 5 | 3 | | | 1.0 | 1.5 | | 63 | 89 | | | 2.0 | 3.1 | | | | | | 5 | | | | 1 | | | |
| 7 Port Macquarie-Hastings Council | 4 | 2 | 3 | 2 | 1.8 | 1.0 | 1.0 | 1.0 | 95 | 52 | 39 | 40 | 3.1 | 1.7 | 1.3 | 1.4 | | | | | 20 | | | | - | | | |
| 8 Riverina Water County Council | 20 | 13 | 14 | 10 | 1.6 | 1.3 | 1.0 | 1.0 | 143 | 126 | 56 | 50 | 2.4 | 1.9 | 0.8 | 0.9 | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | 9 | 7 | 11 | 11 | 1.0 | 1.0 | 1.0 | 1.0 | 47 | 49 | 49 | 46 | 1.6 | 1.8 | 1.8 | 1.7 | | | | | 37 | | | | 8 | | | |
| 11 Albury City Council | 15 | 8 | 12 | 7 | 2.6 | 1.8 | 1.4 | 1.4 | 99 | 68 | 55 | 51 | 3.7 | 2.6 | 2.1 | 2.0 | | | | | 185 | | | | 44 | | | |
| 12 Fish River Water Supply | 3 | 2 | 5 | 2 | | | | | | | | | 9.4 | 4.8 | 6.9 | 11.0 | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 12 | 28 | 12 | 5 | 5.4 | 7.0 | 6.6 | 5.0 | 154 | 202 | 188 | 143 | 4.3 | 5.9 | 5.6 | 4.2 | | | | | 72 | | | | 2 | | | |
| 14 Clarence Valley Council | 10 | 19 | 10 | 16 | | | 1.0 | 1.1 | | 54 | 116 | | | | 1.0 | 2.3 | | | | | 40 | | | | 3 | | | |
| 15 Eurobodalla Shire Council | 2 | 3 | 4 | 6 | 1.7 | 2.2 | 1.1 | 2.1 | 129 | 172 | 88 | 166 | 2.5 | 3.4 | 1.7 | 3.2 | | | | | 21 | | | | 8 | | | |
| 16 Wingecarribee Shire Council | | | 8 | 12 | | | 1.5 | 1.0 | | 112 | 87 | | | 2.9 | 2.3 | | | | | | 50 | | | | 7 | | | |
| 17 Queanbeyan City Council | 6 | 5 | 1 | 0 | | | 1.0 | 1.8 | | 58 | 102 | | | 2.4 | 4.3 | | | | | | 14 | | | | 0 | | | |
| 18 Dubbo City Council | 5 | 7 | 7 | 4 | 5.8 | 3.2 | 3.7 | 3.4 | 292 | 155 | 177 | 163 | 8.4 | 4.8 | 5.6 | 5.2 | | | | | 38 | | | | 14 | | | |
| 19 Orange City Council | | | 28 | 11 | 1.0 | 1.9 | 1.0 | | 73 | 145 | 60 | | 2.3 | 4.6 | 1.8 | 2.5 | | | | | 85 | | | | 1 | | | |
| 21 Bathurst Regional Council | 20 | 11 | 9 | 9 | | | 1.0 | 1.0 | | 77 | 71 | | | 2.6 | 2.7 | | | | | | 93 | | | | 14 | | | |
| 22 Lismore City Council | 22 | 20 | 20 | 23 | 2.2 | 1.0 | 1.6 | 2.0 | 144 | 43 | 106 | 126 | 5.0 | 1.6 | 4.0 | 5.0 | | | | | 104 | | | | 12 | | | |
| 23 Bega Valley Shire Council | 7 | 7 | 5 | 4 | 1.1 | 1.1 | 1.0 | 1.0 | 76 | 77 | 58 | 58 | 1.5 | 1.5 | 1.2 | 1.2 | | | | | 30 | | | | 0 | | | |
| 24 Ballina Shire Council | 3 | 4 | 9 | 13 | 2.9 | 1.0 | 2.1 | 3.2 | 169 | 37 | 121 | 197 | 6.0 | 1.3 | 4.3 | 6.2 | | | | | 16 | | | | 2 | | | |
| 25 Kempsey Shire Council | 9 | 12 | 24 | 11 | 4.4 | 1.9 | 1.3 | 1.0 | 298 | 119 | 80 | 63 | 5.4 | 2.4 | 1.7 | 1.3 | | | | | 3 | | | | 2 | | | |
| 26 Country Energy | 10 | 18 | 11 | 12 | | | 1.2 | 1.3 | | 68 | 75 | | | 2.0 | 2.1 | | | | | | 137 | | | | 51 | | | |
| 27 Byron Shire Council | 9 | 8 | 8 | 12 | 1.2 | 1.0 | 1.3 | 2.6 | 59 | 53 | 49 | 101 | 2.4 | 2.2 | 2.0 | 4.1 | | | | | 27 | | | | 8 | | | |
| 28A Goldenfields Water (Reticulation) | 15 | 7 | 6 | 19 | 1.0 | 1.0 | 1.0 | 1.0 | 73 | 98 | 99 | 90 | 0.4 | 0.5 | 0.6 | 0.5 | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | 0 | 0 | 0 | | | | | | | | | 6.8 | 5.2 | 4.7 | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | | 14 | 14 | | | 1.0 | 1.0 | | 43 | 40 | | | 1.7 | 1.4 | | | | | | 143 | | | | 8 | | | |
| 9 Wagga Wagga City Council | | | | | | | | | | | | | | | | | | | | | 96 | | | | 46 | | | |
| LWU Range Max | 48 | 29 | 28 | 34 | 5.8 | 7.0 | 6.6 | 5.0 | 298 | 202 | 188 | 197 | 9 | 6 | 7 | 11 | | | | | 185 | | | | 51 | | | |
| LWU Range Min | 2 | 0 | 0 | 0 | 1.0 | 1.0 | 1.0 | 1.0 | 26 | 25 | 9 | 10 | 0 | 1 | 1 | 1 | | | | | 3 | | | | 0 | | | |
| Median of NMU Indicators shown in Table | 10 | 8 | 9 | 10 | 1.6 | 1.1 | 1.0 | 1.1 | 95 | 78 | 59 | 75 | 2 | 2 | 2 | 2 | | | | | 39 | | | | 6 | | | |

| WATER UTILITY | ENVIRONMENTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------------|----|----|---------------------------------|---|-----|-----|---------------------------------|---------------------------------|-----|-----|---------------------------------|----------------------------------|-----|-----|---------------------------------|-----------------------------|----------|----------|---------------------------------|--------------------------------------|-----|-----|---------------------------------|--|-----|-----|-----|
| | SEWAGE TREATMENT LEVELS | | | | | | | | | | | | SEWAGE TREATMENT COMPLIANCE | | | | | | | | | | | | | | | |
| | % sge treated to primary level only | | | | % sge treated to secondary level (but not tertiary) | | | | % sge treated to tertiary level | | | | % sge treated that was compliant | | | | STWs compliant at all times | | | | Public disclosure of STW performance | | | | Compliance with environmental regulator - sewerage | | | |
| | E1 | | | | E2 | | | | E3 | | | | E4 | | | | E5 | | | | E6 | | | | E7 | | | |
| (%) | | | | (%) | | | | (%) | | | | (%) | | | | (no.) | | | | (YES/NO) | | | | (YES/NO) | | | | |
| 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | |
| Sydney Water Corporation | 74 | 67 | 74 | 76 | 4 | 11 | 3 | 3 | 22 | 22 | 22 | 21 | 100 | 96 | 96 | 97 | 28 of 30 | 29 of 31 | 27 of 29 | Yes | Yes | Yes | Yes | No | Yes | No | Yes | |
| Hunter Water Corporation | 0 | 0 | 0 | 0 | 56 | 56 | 58 | 59 | 44 | 44 | 42 | 41 | 99 | 87 | 91 | 95 | 15 of 17 | 11 of 17 | 12 of 18 | 14 | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 1 | 1 | 0 | 0 | 99 | 99 | 98 | 97 | 0 | 0 | 2 | 3 | 100 | 100 | 100 | 100 | 1 of 2 | 2 of 2 | 2 of 2 | 2 of 2 | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes |
| 2 Wyong Shire Council | | | | 0 | 91 | 92 | 91 | 93 | 10 | 8 | 9 | 7 | 99 | 100 | 100 | 100 | 5 of 6 | 6 of 6 | 6 of 6 | 6 of 6 | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes |
| 3 Shoalhaven City Council | | | | 0 | 38 | 40 | 42 | 42 | 62 | 60 | 58 | 58 | 92 | 86 | 83 | 83 | 8 of 10 | 7 of 10 | 9 of 12 | 10 of 12 | Yes | Yes | Yes | Yes | No | No | No | No |
| 4 Rous County Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 MidCoast County Council | | | | 0 | 44 | 13 | 12 | 12 | 56 | 87 | 88 | 88 | 95 | 98 | 100 | 99 | 9 of 12 | 10 of 12 | 12 of 12 | 11 of 12 | Yes | Yes | Yes | Yes | No | No | Yes | No |
| 6 Tweed Shire Council | | | | 0 | 11 | 11 | 6 | 0 | 89 | 89 | 94 | 100 | 91 | 89 | 91 | 93 | 4 of 8 | 3 of 8 | 3 of 8 | 1 of 7 | Yes | Yes | Yes | Yes | No | No | No | No |
| 7 Port Macquarie-Hastings Council | | | | 0 | | | | 0 | 100 | 100 | 100 | 100 | 50 | 89 | 90 | 58 | 3 of 5 | 4 of 6 | 4 of 6 | 2 of 5 | Yes | Yes | Yes | Yes | No | No | No | No |
| 8 Riverina Water County Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | | | | 0 | 58 | 58 | 54 | 0 | 42 | 42 | 46 | 100 | | | 100 | 100 | | | 5 of 5 | 5 of 5 | Yes | Yes | Yes | Yes | No | No | Yes | Yes |
| 11 Albury City Council | | | | 0 | | | 0 | 0 | 100 | 100 | 100 | 100 | 86 | 87 | 86 | 92 | 2 of 3 | 3 of 4 | 3 of 4 | 3 of 4 | Yes | Yes | Yes | Yes | No | No | No | No |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | | | | 0 | 100 | 100 | 100 | 100 | | | | 0 | | | 99 | 99 | 4 of 5 | 5 of 5 | 4 of 5 | 4 of 5 | Yes | Yes | Yes | Yes | No | No | No | No |
| 14 Clarence Valley Council | | | | 0 | 2 | 3 | 15 | 69 | 98 | 97 | 85 | 31 | | | 83 | 70 | 0 of 11 | 4 of 8 | 2 of 8 | 1 of 8 | Yes | Yes | Yes | Yes | Yes | No | No | No |
| 15 Eurobodalla Shire Council | | | | 0 | 99 | 91 | 92 | 5 | | 9 | 8 | 95 | 100 | 100 | 100 | 100 | 5 of 5 | 5 of 5 | 5 of 5 | 5 of 5 | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes |
| 16 Wingecarribee Shire Council | | | | 0 | | | | 0 | 100 | 100 | 100 | 100 | 81 | 100 | 100 | 97 | 3 of 5 | 5 of 5 | 5 of 5 | 4 of 5 | Yes | Yes | Yes | Yes | No | No | Yes | No |
| 17 Queanbeyan City Council | | | | 0 | | | | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes |
| 18 Dubbo City Council | | | | 0 | | | | 0 | 100 | 100 | 100 | 100 | 57 | 70 | 75 | 92 | 0 of 1 | 0 of 1 | 0 of 1 | 0 of 1 | Yes | Yes | Yes | Yes | No | No | No | No |
| 19 Orange City Council | | | 4 | 0 | | 1 | 1 | 0 | 100 | 99 | 96 | 100 | 81 | 100 | 45 | 100 | 1 of 2 | 2 of 2 | 1 of 2 | 2 of 2 | Yes | Yes | Yes | Yes | Yes | No | No | Yes |
| 21 Bathurst Regional Council | | | | 0 | | | | 0 | 100 | 100 | 100 | 100 | 81 | 88 | 100 | 100 | 0 of 1 | 0 of 1 | 1 of 1 | 1 of 1 | Yes | Yes | Yes | Yes | No | No | Yes | Yes |
| 22 Lismore City Council | | | 4 | 3 | 5 | 1 | 13 | 4 | 95 | 99 | 83 | 92 | | | 100 | 100 | 2 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | Yes | Yes | Yes | Yes | No | No | Yes | Yes |
| 23 Bega Valley Shire Council | | | | 0 | 92 | 71 | 70 | 70 | 8 | 29 | 30 | 30 | 100 | 100 | 97 | 95 | 6 of 6 | 6 of 6 | 9 of 10 | 8 of 10 | Yes | Yes | Yes | Yes | Yes | No | No | No |
| 24 Ballina Shire Council | | | | 0 | | | | 0 | | | 100 | 100 | 98 | 100 | 93 | 96 | 1 of 4 | 4 of 4 | 3 of 4 | 3 of 4 | Yes | Yes | Yes | Yes | No | No | No | No |
| 25 Kempsey Shire Council | | | | 0 | 26 | 19 | 19 | 27 | 74 | 81 | 81 | 73 | 70 | 74 | 82 | 76 | 5 of 7 | 5 of 7 | 6 of 7 | 5 of 7 | Yes | Yes | Yes | Yes | No | No | No | No |
| 26 Country Energy | | | | 0 | 100 | 100 | 100 | 100 | | | 0 | 0 | | | 100 | 100 | 0 of 2 | 0 of 2 | 2 of 2 | 2 of 2 | Yes | Yes | Yes | Yes | No | No | Yes | Yes |
| 27 Byron Shire Council | | | | 0 | 24 | 0 | 27 | 0 | 76 | 100 | 73 | 100 | 92 | 90 | 89 | 98 | 3 of 6 | 2 of 6 | 3 of 5 | 4 of 5 | Yes | Yes | Yes | Yes | No | No | No | No |
| 28A Goldenfields Water (Reticulation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | | | 0 | | | | 0 | | | 100 | 100 | | | 58 | 100 | | | 1 of 2 | 2 of 2 | | | Yes | Yes | | | No | Yes |
| 9 Wagga Wagga City Council | | | | 0 | 8 | 3 | 3 | 3 | 92 | 97 | 97 | 97 | 35 | 88 | 95 | 70 | 3 of 5 | 4 of 5 | 3 of 5 | 3 of 5 | Yes | Yes | Yes | Yes | No | No | No | No |
| LWU Range Max | | | | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | | | | | | | | |
| LWU Range Min | | | | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 70 | 45 | 58 | | | | | | | | | | | | |
| Median of NMU Indicators shown in Table | | | | | 44 | 30 | 27 | 2 | 92 | 97 | 88 | 98 | 92 | 94 | 96 | 99 | | | | | | | | | | | | |

| WATER UTILITY | ENVIRONMENTAL | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|---------|---------|---------|------------------------------|---------|---------|---------|-------------------------------|---------|---------|---------|--------------------------------|---------|---------|---------|---|---------|---------|---------|----------------------------|---------|---------|---------|--|--|
| | BIOSOLIDS | | | | GREENHOUSE GAS WS & SGE | | | | | | | | | | | | Sewer overflows reported to environmental regulator | | | | | | | | | |
| | Biosolids reused | | | | Greenhouse emissions WATER | | | | Greenhouse emissions SEWERAGE | | | | Net greenhouse emissions OTHER | | | | TOTAL Net greenhouse emissions | | | | E13 | | | | | |
| | E8 | | | | E9 | | | | E10 | | | | E11 | | | | E12 | | | | E13 | | | | | |
| | (%) | | | | (t CO2 per 1,000 properties) | | | | (t CO2 per 1,000 properties) | | | | (t CO2 per 1,000 properties) | | | | (t CO2 per 1,000 properties) | | | | (number per 100km of main) | | | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | | |
| Sydney Water Corporation | 100 | 100 | 100 | 100 | 83 | 68 | 71 | 150 | 192 | 184 | 11 | -55 | -87 | 240 | 200 | 164 | 90 | 64 | 0 | 0 | | | | | | |
| Hunter Water Corporation | 104 | 100 | 88 | 104 | 175 | 117 | 132 | 144 | 192 | 215 | 273 | 294 | 15 | 14 | 21 | 26 | 371 | 333 | 412 | 448 | 53 | 43 | 2 | 0 | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 100 | 100 | 100 | 100 | 205 | 128 | 147 | 179 | 298 | 312 | 13 | 24 | 386 | 380 | 439 | 482 | 1 | 3 | | | | | | | | |
| 2 Wyong Shire Council | 100 | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | | | | | | | | |
| 3 Shoalhaven City Council | 100 | 100 | 100 | 100 | 223 | 220 | 239 | 205 | 270 | 187 | 163 | 164 | 223 | 11 | 7 | 8 | 394 | 389 | 408 | 377 | 0 | 3 | | | | |
| 4 Rous County Council | | | | | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 5 MidCoast County Council | 100 | 100 | 100 | 100 | 190 | 188 | 165 | 117 | 212 | 136 | 138 | 129 | 190 | 12 | 12 | 80 | 324 | 321 | 315 | 326 | 1 | 1 | | | | |
| 6 Tweed Shire Council | 58 | 57 | 61 | 100 | 207 | 190 | 150 | 161 | 219 | 199 | 189 | 266 | 0 | 0 | 408 | 375 | 339 | 427 | 0 | 0 | | | | | | |
| 7 Port Macquarie-Hastings Council | 89 | 93 | 100 | 100 | | | | | 12 | 103 | | | | | 12 | 103 | 1 | 0 | | | | | | | | |
| 8 Riverina Water County Council | | | | | 395 | 407 | - | - | - | - | 0 | 0 | 395 | 407 | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | 100 | 100 | 100 | 100 | 104 | 113 | 278 | 322 | 76 | 19 | 458 | 453 | 0 | 1 | | | | | | | | | | | | |
| 11 Albury City Council | 0 | 0 | 0 | 0 | 282 | 310 | 308 | 238 | 233 | 401 | 282 | 548 | 540 | 0 | 0 | | | | | | | | | | | |
| 12 Fish River Water Supply | | | | | 118 | | | | 0 | 118 | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 96 | 97 | 99 | 100 | 261 | 223 | 118 | 233 | 379 | 457 | 0 | 0 | | | | | | | | | | | | | | |
| 14 Clarence Valley Council | 0 | 35 | 0 | 0 | 16 | 23 | 84 | 90 | 100 | 113 | 1 | 0 | | | | | | | | | | | | | | |
| 15 Eurobodalla Shire Council | 0 | 5 | 0 | 29 | 181 | 180 | 186 | 192 | 197 | 181 | 159 | 139 | 181 | 0 | - | 347 | 346 | 345 | 331 | 5 | 19 | | | | | |
| 16 Wingecarribee Shire Council | 0 | 100 | 0 | 0 | 178 | 177 | 151 | 143 | 7 | 17 | 336 | 338 | 3 | 4 | | | | | | | | | | | | |
| 17 Queanbeyan City Council | 100 | 0 | 100 | 100 | 13 | 13 | 15 | 15 | 13 | 154 | 160 | 224 | 13 | 37 | 39 | 43 | 210 | 204 | 214 | 281 | 0 | 0 | | | | |
| 18 Dubbo City Council | 100 | 100 | 100 | 100 | 483 | 483 | 545 | 280 | 523 | 240 | 202 | 396 | 483 | 13 | 13 | 12 | 722 | 722 | 759 | 689 | 2 | 0 | | | | |
| 19 Orange City Council | 79 | 100 | 100 | 0 | 289 | 280 | 241 | 242 | 291 | 243 | 186 | 193 | 0 | 521 | 505 | 428 | 435 | 3 | 10 | | | | | | | |
| 21 Bathurst Regional Council | 100 | 95 | 96 | 95 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 22 Lismore City Council | | 82 | 0 | 0 | 7 | 14 | 162 | 185 | 0 | - | 169 | 198 | 1 | 4 | | | | | | | | | | | | |
| 23 Bega Valley Shire Council | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 69 | 1 | - | 172 | 17 | 77 | 1 | 0 | | | | | | | | | | | |
| 24 Ballina Shire Council | 100 | 100 | 100 | 100 | 2 | 13 | 264 | 267 | - | - | 266 | 280 | 3 | 2 | | | | | | | | | | | | |
| 25 Kempsey Shire Council | | | 0 | 49 | 209 | 207 | 173 | 214 | 285 | 180 | 150 | 149 | 209 | 1 | 1 | 39 | 344 | 340 | 324 | 401 | 1 | 0 | | | | |
| 26 Country Energy | 0 | 100 | 0 | 0 | 549 | 906 | 55 | 77 | 15 | 604 | 998 | 0 | 0 | | | | | | | | | | | | | |
| 27 Byron Shire Council | 100 | 100 | 100 | 100 | - | 14 | - | 457 | - | - | - | 471 | 14 | 5 | | | | | | | | | | | | |
| 28A Goldenfields Water (Reticulation) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | | 100 | 0 | 122 | 114 | 134 | 169 | 2 | 2 | 257 | 285 | 1 | 0 | | | | | | | | | | | | |
| 9 Wagga Wagga City Council | 100 | 100 | 100 | 96 | | | 36 | 199 | - | - | 36 | 199 | 0 | 0 | | | | | | | | | | | | |
| LWU Range Max | 100 | 100 | 100 | 100 | 483 | 549 | 906 | 243 | 298 | 457 | 37 | 76 | 80 | 722 | 759 | 998 | 14 | 19 | | | | | | | | |
| LWU Range Min | 0 | 0 | 0 | 0 | 13 | 2 | 8 | 136 | 8 | 69 | 0 | 0 | 0 | 204 | 12 | 77 | 0 | 0 | | | | | | | | |
| Median of NMU Indicators shown in Table | 100 | 100 | 100 | 98 | 206 | 165 | 161 | 181 | 159 | 189 | 12 | 2 | 16 | 361 | 336 | 377 | 1 | 0 | | | | | | | | |

| WATER UTILITY | CUSTOMERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------|---------|---------|---|---------|---------|---------|--|---------|---------|---------|---|---------|---------|---------|--|---------|---------|---------|---|---------|---------|---------|--|---------|---------|---------|---------------------------------------|---------|---------|---------|----|------|
| | WS CUSTOMERS | | | | | | | | | | | | SGE CUSTOMERS | | | | | | | | | | | | | | | | | | | | | |
| | Population receiving water supply services | | | | Connected residential properties - water supply | | | | Connected nonresidential properties - water supply | | | | Total connected properties - water supply | | | | Population receiving sewerage services | | | | Connected residential properties - sewerage | | | | Connected nonresidential properties - sewerage | | | | Total connected properties - sewerage | | | | | |
| | C1 (000) | | | | C2 (000) | | | | C3 (000) | | | | C4 (000) | | | | C5 (000) | | | | C6 (000) | | | | C7 (000) | | | | C8 (000) | | | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | | |
| Sydney Water Corporation | 4,308 | 4,322 | 4,344 | 4,435 | 1,595 | 1,608 | 1,623 | 1,635 | 126 | 129 | 132 | 137 | 1,721 | 1,737 | 1,755 | 1,772 | 4,181 | 4,195 | 4,240 | 4,333 | 1,557 | 1,570 | 1,586 | 1,598 | 115 | 118 | 121 | 126 | 1,672 | 1,688 | 1,707 | 1,724 | | |
| Hunter Water Corporation | 506 | 511 | 516 | 522 | 202 | 205 | 207 | 209 | 14 | 15 | 15 | 16 | 216 | 221 | 222 | 225 | 486 | 491 | 496 | 501 | 191 | 194 | 199 | 201 | 14 | 14 | 12 | 12 | 205 | 209 | 211 | 213 | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 159 | 158 | 160 | 161 | 67 | 67 | 67 | 67 | 3 | 3 | 3 | 3 | 69 | 70 | 70 | 70 | 155 | 155 | 156 | 157 | 65 | 65 | 66 | 66 | 3 | 3 | 3 | 3 | 68 | 68 | 68 | 69 | | |
| 2 Wyong Shire Council | 142 | 143 | 145 | 149 | 55 | 56 | 57 | 57 | 4 | 3 | 3 | 3 | 58 | 59 | 59 | 60 | 140 | 141 | 143 | 147 | 54 | 56 | 56 | 56 | 3 | 3 | 3 | 3 | 57 | 58 | 59 | 59 | | |
| 3 Shoalhaven City Council | 88 | 88 | 89 | 91 | 42 | 43 | 43 | 43 | 3 | 3 | 3 | 3 | 45 | 45 | 46 | 46 | 77 | 82 | 80 | 81 | 35 | 37 | 38 | 39 | 2 | 1 | 1 | 2 | 37 | 39 | 39 | 41 | | |
| 4 Rous County Council | | | | | | 40 | 40 | | | | 5 | 5 | | | 46 | 46 | | | | | | | | | | | | | | | | | | |
| 5 MidCoast County Council | 77 | 77 | 78 | 78 | 33 | 34 | 34 | 34 | 3 | 2 | 2 | 2 | 36 | 36 | 36 | 36 | 76 | 76 | 77 | 77 | 30 | 30 | 30 | 30 | 2 | 2 | 2 | 3 | 32 | 32 | 33 | 33 | | |
| 6 Tweed Shire Council | 71 | 72 | 73 | 74 | 28 | 30 | 30 | 30 | 1 | 1 | 1 | 1 | 29 | 31 | 32 | 31 | 66 | 67 | 69 | 69 | 27 | 28 | 29 | 28 | 1 | 1 | 1 | 1 | 27 | 29 | 30 | 29 | | |
| 7 Port Macquarie-Hastings Council | 75 | 77 | 78 | 79 | 27 | 26 | 27 | 26 | 2 | 3 | 3 | 3 | 29 | 29 | 30 | 29 | 69 | 69 | 70 | 71 | 24 | 24 | 25 | 25 | 2 | 2 | 2 | 2 | 26 | 26 | 27 | 26 | | |
| 8 Riverina Water County Council | 64 | 65 | 69 | 68 | 25 | 26 | 26 | 26 | 2 | 2 | 2 | 2 | 27 | 28 | 28 | 29 | | | | | | | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | 62 | 63 | 65 | 66 | 22 | 22 | 22 | 23 | 2 | 1 | 2 | 2 | 23 | 24 | 24 | 24 | 60 | 62 | 64 | 65 | 21 | 21 | 21 | 21 | 1 | 1 | 1 | 1 | 22 | 22 | 22 | 23 | | |
| 11 Albury City Council | 48 | 48 | 50 | 51 | 21 | 20 | 20 | 21 | 2 | 2 | 2 | 2 | 23 | 22 | 22 | 23 | 48 | 47 | 50 | 51 | 19 | 19 | 19 | 19 | 2 | 2 | 2 | 2 | 21 | 20 | 21 | 21 | | |
| 12 Fish River Water Supply | | | | | | 21 | 21 | | | | 3 | 3 | | | 24 | 24 | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 43 | 43 | 44 | 43 | 18 | 18 | 18 | 18 | 2 | 2 | 2 | 2 | 20 | 20 | 20 | 21 | 42 | 42 | 42 | 43 | 16 | 17 | 17 | 17 | 2 | 2 | 2 | 2 | 18 | 18 | 18 | 19 | | |
| 14 Clarence Valley Council | 50 | 50 | 50 | 49 | 18 | 18 | 18 | 19 | 1 | 2 | 3 | 2 | 20 | 21 | 21 | 21 | 32 | 28 | 28 | 28 | 10 | 13 | 13 | 13 | 2 | 1 | 1 | 1 | 12 | 14 | 14 | 14 | | |
| 15 Eurobodalla Shire Council | 35 | 37 | 36 | 37 | 18 | 18 | 18 | 18 | 1 | 1 | 1 | 1 | 19 | 19 | 19 | 19 | 35 | 37 | 35 | 36 | 17 | 17 | 17 | 17 | 1 | 1 | 1 | 1 | 17 | 17 | 18 | 18 | | |
| 16 Wingecarribee Shire Council | 36 | 36 | 38 | 37 | 17 | 17 | 17 | 17 | 1 | 1 | 1 | 1 | 18 | 18 | 18 | 18 | 32 | 32 | 34 | 33 | 13 | 13 | 14 | 14 | 1 | 1 | 1 | 1 | 14 | 14 | 14 | 14 | | |
| 17 Queanbeyan City Council | 36 | 36 | 36 | 39 | 15 | 15 | 15 | 15 | 1 | 1 | 1 | 1 | 16 | 16 | 16 | 16 | 36 | 36 | 36 | 39 | 15 | 15 | 15 | 15 | 1 | 1 | 1 | 1 | 16 | 16 | 16 | 16 | | |
| 18 Dubbo City Council | 35 | 36 | 36 | 33 | 14 | 14 | 14 | 15 | 2 | 2 | 2 | 2 | 16 | 16 | 16 | 17 | 33 | 34 | 32 | 33 | 13 | 13 | 14 | 14 | 1 | 1 | 1 | 1 | 14 | 15 | 15 | 15 | | |
| 19 Orange City Council | 35 | 36 | 38 | 38 | 14 | 15 | 14 | 15 | 2 | 2 | 2 | 2 | 16 | 16 | 16 | 16 | 35 | 36 | 38 | 38 | 13 | 14 | 14 | 15 | 2 | 1 | 1 | 1 | 16 | 15 | 15 | 16 | | |
| 21 Bathurst Regional Council | 31 | 33 | 33 | 33 | 13 | 13 | 13 | 13 | 1 | 1 | 2 | 1 | 14 | 15 | 15 | 15 | 31 | 33 | 33 | 33 | 13 | 13 | 13 | 13 | 1 | 1 | 2 | 2 | 14 | 14 | 15 | 15 | | |
| 22 Lismore City Council | 35 | 35 | 35 | 31 | 13 | 13 | 13 | 13 | 1 | 1 | 1 | 1 | 14 | 14 | 14 | 14 | 32 | 32 | 33 | 29 | 11 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 12 | 12 | 12 | 12 | | |
| 23 Bega Valley Shire Council | 28 | 28 | 29 | 30 | 13 | 13 | 13 | 13 | 1 | 1 | 1 | 1 | 14 | 14 | 14 | 14 | 22 | 24 | 23 | 25 | 10 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 11 | 12 | 12 | 12 | | |
| 24 Ballina Shire Council | 33 | 33 | 36 | 36 | 12 | 12 | 13 | 13 | 1 | 2 | 1 | 1 | 13 | 14 | 14 | 14 | 33 | 31 | 34 | 35 | 12 | 12 | 12 | 12 | 1 | 1 | 1 | 1 | 13 | 13 | 13 | 13 | | |
| 25 Kempsey Shire Council | 25 | 23 | 25 | 25 | 10 | 10 | 11 | 11 | 2 | 2 | 2 | 2 | 12 | 12 | 12 | 12 | 20 | 18 | 19 | 19 | 8 | 8 | 8 | 8 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | | |
| 26 Country Energy | 20 | 19 | 19 | 20 | 10 | 10 | 10 | 10 | 1 | 1 | 1 | 1 | 11 | 11 | 10 | 10 | 19 | 19 | 19 | 19 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 10 | 10 | 10 | 10 | | |
| 27 Byron Shire Council | 29 | 29 | 29 | 29 | 9 | 9 | 9 | 10 | 1 | 1 | 1 | 1 | 11 | 11 | 11 | 11 | 29 | 29 | 29 | 29 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 10 | 10 | 10 | 10 | | |
| 28A Goldenfields Water (Reticulation) | 21 | 21 | 21 | 21 | 8 | 8 | 7 | 7 | 3 | 3 | 3 | 3 | 11 | 11 | 10 | 10 | | | | | | | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | | 22 | 22 | | | 9 | 9 | | | | 1 | 1 | | | 11 | 10 | | | 21 | 22 | | 9 | 9 | | | 1 | 1 | | | 10 | 10 | | |
| 9 Wagga Wagga City Council | | | | | | | | | | | | | | | | | 57 | 57 | 57 | 57 | 21 | 22 | 22 | 24 | 2 | 2 | 2 | 2 | 23 | 23 | 24 | 25 | | |
| LWU Range Max | 158 | 160 | 161 | | 67 | 67 | 67 | 67 | | 3 | 5 | 5 | | 69 | 70 | 70 | 70.3 | | 155 | 156 | 157 | | 65 | 66 | 66 | | 3 | 3 | 3 | | 68 | 68 | 68 | 68.5 |
| LWU Range Min | 19 | 19 | 20 | | 8 | 8 | 7 | 7 | | 1 | 1 | 1 | | 11 | 11 | 10 | 10.0 | | 18 | 19 | 19 | | 8 | 8 | 8 | | 1 | 1 | 1 | | 9 | 9 | 9 | 9.0 |
| Median of NMU Indicators shown in Table | 37 | 38 | 38 | | 18 | 18 | 18 | 18 | | 2 | 2 | 2 | | 19 | 19 | 19 | 19.4 | | 36 | 36 | 37 | | 15 | 14 | 15 | | 1 | 1 | 1 | | 16 | 16 | 16 | 15.9 |

| WATER UTILITY | COMPLAINTS & INTERRUPTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|---------------------------------|--------------------------|---------------------------------|--|---------------------------------|--|---------------------------------|-------------------------------------|---------------------------------|---|---------------------------------|--|---------------------------------|--------------------------|---------------------------------|--|---------------------------------|--|---------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|---|---|
| | WS | | | | SGE | | | | WS & SGE | | | | | | | | WS | | | | SGE | | | | WS | | | | | | | | | | | | | | | | | | | |
| | Water quality complaints | | Water service complaints | | Sewage service complaints (including odour complaints) | | Billing and account complaints - water supply & sewerage | | Total water and sewerage complaints | | % of calls answered by an operator within 30 secs | | Av duration of unplanned interruptions | | Av sewerage interruption | | Average frequency of unplanned interruptions - water | | No. of restrictions applied for non-payment of bills | | No. of legal actions applied for non-payment of bills | | | | | | | | | | | | | | | | | | | | | | | |
| | C9 | | C10 | | C11 | | C12 | | C13 | | C14 | | C15 | | C16 | | C17 | | C18 | | C19 | | | | | | | | | | | | | | | | | | | | | | | |
| (per 1000 properties) | | (per 1000 properties) | | (per 1000 properties) | | (per 1000 properties) | | (per 1000 properties) | | (%) | | (min) | | (min) | | (per 1000 props) | | (per 1000 props) | | (per 1000 props) | | | | | | | | | | | | | | | | | | | | | | | | |
| 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | 2006/07 2007/08 2008/09 2009/10 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Water Corporation | 0.8 | 0.9 | 0.6 | 0.3 | 0.4 | 0.5 | 0.4 | 0.1 | 0.8 | 0.9 | 0.4 | 0.4 | 3 | 5 | 4 | 1 | 4.7 | 8.1 | 6.0 | 1.7 | 83 | 89 | 85 | 89 | 141 | 167 | 141 | 140 | 137 | 143 | 240 | 238 | 6 | 5 | 5 | 4 | 1 | 2 | 2 | 4 | 0 | 0 | 0 | 0 |
| Hunter Water Corporation | 3.9 | 2.8 | 3.2 | 3.4 | 8.2 | 4.0 | 0.2 | 0.3 | 35.2 | 26.5 | 2.3 | 2.2 | 6 | 3 | 2 | 2 | 44 | 39 | 7 | 8 | 61 | 56 | 72 | 70 | 177 | 118 | 121 | 119 | 151 | 144 | 0 | 0 | 372 | 225 | 271 | 255 | 4 | 8 | 5 | 5 | 0 | 0 | 0 | 0 |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 56 | 94 | 25 | 39 | - | - | - | 2 | - | - | - | 42 | - | - | - | - | 224 | 232 | 238 | 230 | 120 | 134 | 116 | 161 | 280 | 181 | 203 | 239 | 0 | 0 | 0 | 0 | 1 | 7 | 6 | 7 | | | | | | | | |
| 2 Wyong Shire Council | 7 | 3 | 5 | 5 | 2 | 2 | 4 | 3 | 9 | 11 | 12 | 12 | 0 | 0 | 0 | 0 | 21 | 21 | 21 | 21 | 88 | 92 | 65 | 65 | 150 | 202 | 210 | 204 | 186 | 165 | 156 | 150 | 33 | 39 | 61 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3 Shoalhaven City Council | 3 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 13 | 8 | 8 | 8 | 100 | 100 | 100 | 100 | - | 112 | - | - | - | 96 | - | 39 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | | | | |
| 4 Rous County Council | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 95 | 95 | 95 | 95 | | | | | | | | | | | | | | | | | | | | |
| 5 MidCoast County Council | 31 | 27 | 9 | 12 | 52 | 27 | 2 | 2 | 13 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 97 | 65 | 15 | 18 | - | - | - | - | 330 | - | - | - | - | - | - | - | 7 | 5 | 6 | 2 | 0 | 0 | 2 | 5 | | | | |
| 6 Tweed Shire Council | 1 | 1 | 1 | 3 | 32 | 23 | 20 | 3 | 8 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 34 | 31 | 26 | 10 | - | - | - | - | 120 | 120 | 180 | 174 | 9 | 14 | 9 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | |
| 7 Port Macquarie-Hastings Council | 6 | 6 | 9 | 8 | 22 | 22 | 18 | 22 | 4 | 3 | 6 | 5 | 1 | 0 | 0 | 0 | 35 | 31 | 36 | 39 | 86 | 81 | 85 | 85 | 180 | 210 | 178 | 236 | 60 | 60 | 60 | 60 | 12 | 7 | 11 | 5 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8 Riverina Water County Council | 3 | 4 | 2 | 3 | 3 | 9 | 13 | 3 | | | | | 1 | 1 | 2 | 2 | 14 | 17 | 9 | 9 | 99 | 99 | 98 | 98 | 334 | 206 | | | 34 | 39 | 34 | 39 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | | | | |
| 10 Coffs Harbour City Council | 3 | 3 | 8 | 4 | 25 | 26 | 40 | 10 | 26 | 34 | 27 | 4 | 0 | 0 | 0 | 0 | 53 | 64 | 88 | 18 | - | 85 | - | - | 120 | 120 | 120 | 120 | 7 | 24 | 20 | 20 | 6 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | | | | |
| 11 Albury City Council | | 0 | 1.1 | | 5 | 4 | 4 | 4 | 49 | 44 | 44 | 44 | 0 | 0 | 0 | 0 | 49 | 51 | 55 | 49 | - | 49 | - | - | 180 | 200 | 120 | 118 | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | | | | |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 98 | 98 | 98 | 98 | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | | - | - | | 43 | 48 | 48 | 48 | 25 | 21 | 21 | 21 | 0 | 0 | 0 | 0 | 72 | 74 | 74 | 74 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | | | | |
| 14 Clarence Valley Council | 8 | 9 | 3 | 9 | 0 | 12 | 41 | 41 | 13 | 15 | 10 | 30 | 1 | 2 | 1 | 1 | 22 | 37 | 103 | 103 | - | - | - | - | 120 | - | 120 | - | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | | | | |
| 15 Eurobodalla Shire Council | | - | - | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | - | 100 | - | - | - | - | - | - | 2 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | | | | |
| 16 Wingecarribee Shire Council | 19 | 10 | 5 | 6 | 36 | 64 | 64 | 64 | 22 | 31 | 31 | 31 | 3 | 16 | 16 | 16 | 79 | 139 | 139 | 139 | 100 | 75 | 75 | 75 | 120 | - | 120 | 120 | 46 | 61 | 46 | 61 | 6 | 7 | 7 | 7 | 0 | 2 | 3 | 3 | | | | |
| 17 Queanbeyan City Council | 0 | 0 | 0 | - | 34 | 39 | 5 | 9 | 26 | 27 | 17 | 19 | 14 | 9 | 9 | 5 | 75 | 78 | 31 | 34 | - | - | - | - | 240 | 180 | 240 | 60 | 6 | 5 | 6 | 5 | 0 | 0 | 0 | 0 | 12 | 13 | 12 | 13 | | | | |
| 18 Dubbo City Council | | 0 | 0.6 | | 2 | 2 | 2 | 2 | 13 | 10 | 10 | 10 | 1 | 1 | 1 | 1 | 18 | 13 | 13 | 13 | 82 | 87 | 88 | 88 | 112 | 179 | 138 | 138 | 60 | 91 | 93 | 89 | 26 | 20 | 24 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 Orange City Council | | 2 | 2 | | 62 | 77 | 77 | 77 | 25 | 23 | 23 | 23 | 7 | 8 | 8 | 8 | 100 | 112 | 112 | 112 | - | 80 | - | - | 180 | 180 | - | - | 175 | - | 175 | - | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | | | |
| 21 Bathurst Regional Council | 11 | 24 | 14 | 17 | 79 | 55 | 74 | 63 | 29 | 29 | 27 | 30 | 0 | 0 | 0 | 0 | 119 | 107 | 117 | 108 | - | - | - | - | 120 | 120 | 120 | 120 | 2 | 2 | 2 | 2 | - | 0 | - | 0 | - | 0 | - | 0 | | | | |
| 22 Lismore City Council | 4 | 0 | 2 | 4 | 4 | 58 | 72 | 4 | 31 | 33 | 26 | 4 | 0 | 0 | 0 | 0 | 87 | 111 | 13 | 13 | 75 | 75 | 75 | 75 | 150 | 208 | 351 | 271 | 60 | 60 | 49 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | |
| 23 Bega Valley Shire Council | | 2 | 2 | | 3 | 3 | 3 | 3 | 8 | 11 | 11 | 11 | 2 | 2 | 2 | 2 | 16 | 20 | 20 | 20 | 87 | 72 | 71 | 71 | 180 | 180 | 120 | 120 | - | - | - | - | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | | | | |
| 24 Ballina Shire Council | | 0 | 3 | | 1 | 3 | 3 | 3 | 6 | 10 | 11 | 6 | 0 | 0 | 0 | 0 | 12 | 12 | 12 | 12 | 99 | 99 | 99 | 99 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | - | - | 0 | 0 | - | 0 | - | 0 | | | | |
| 25 Kempsey Shire Council | 1 | 0 | 0 | 1.3 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 3 | 0 | 51 | 51 | 51 | 100 | 159 | 146 | 83 | 114 | 23 | 114 | 23 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | | | | |
| 26 Country Energy | 0.1 | 0.0 | 0.1 | 0.1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | - | 80 | - | - | 60 | - | 60 | - | - | - | - | - | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | | | | |
| 27 Byron Shire Council | 4 | 1 | 0 | 0.2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 7 | 5 | 5 | 5 | 10 | 8 | 8 | 8 | - | - | - | - | 120 | 120 | 60 | 60 | 9 | 11 | 9 | 11 | 2 | 0 | 2 | 8 | 0 | 0 | 0 | 0 | | | | |
| 28A Goldenfields Water (Reticulation) | | 7 | 7 | | 46 | 49 | 49 | 49 | | | | | 0 | - | - | - | 51 | 56 | 56 | 56 | - | - | - | - | 191 | 272 | - | - | 150 | 117 | 150 | 117 | 1 | 5 | 5 | 7 | 0 | 0 | 0 | 0 | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree | | 6 | 3.6 | | 35 | 38 | 38 | 38 | 38 | 41 | 41 | 41 | 0 | 0 | 0 | 0 | 81 | 86 | 86 | 86 | - | - | - | - | 180 | 180 | 90 | 90 | - | - | - | - | 5 | 8 | 5 | 8 | 0 | 0 | 0 | 0 | | | | |
| 9 Wagga Wagga City Council | | | | | | | | | 89 | 76 | 68 | 68 | 0 | 0 | 0 | 0 | 76 | 68 | 68 | 68 | - | 100 | - | - | | | 47 | 47 | | | | | | | | | | | | | | | | |
| LWU Range Max | 56 | 94 | 25 | 39 | 58 | 74 | 77 | 77 | 31.4 | 89.2 | 76.1 | 68 | 9.2 | 16 | 16 | 16 | 119 | 107 | 117 | 139 | 100 | 100 | 224 | 232 | 351 | 272 | 186 | 330 | 240 | 174 | 280 | 181 | 203 | 239 | 7 | 7 | 7 | 8 | 1 | 7 | 12 | 12 | | |
| LWU Range Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 2.4 | 0.6 | 1 | 0.0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 49 | 112 | 120 | 60 | 112 | 60 | 60 | 60 | 47 | 12 | 7 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Median of NMU Indicators shown in Table | 4 | 3 | 2 | 3 | 22 | 9 | 4 | 4 | 13.0 | 13.7 | 11.8 | 9 | 0.1 | 0 | 0 | 0 | 51 | 51 | 26 | 19 | 90 | 85 | 150 | 205 | 178 | 180 | 120 | 127 | 120 | 107 | 30 | 20 | 29 | 27 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

| WATER UTILITY | HEALTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|-----------|-----------|-----------|--|----------|----------|----------|--|---------|---------|---------|---------------------------------------|----------|----------|----------|---|---------|---------|---------|--------------------------------|----------|---------|---------|-------------------------------------|---------|---------|---------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| | WS | | | | | | | | | | | | WS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Water quality guidelines | | | | No. of zones with microbiological compliance | | | | % population with microbiological compliance | | | | No. of zones with chemical compliance | | | | Risk based drinking water management plan externally assessed | | | | Risk based drinking water plan | | | | Public disclosure of WQ performance | | | | | | | | | | | | | | | | | |
| | H1 | | | | H2 | | | | H3 (%) | | | | H4 | | | | H5 (YES/NO) | | | | H6 | | | | H7 (YES/NO) | | | | | | | | | | | | | | | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | | | | | | | | | | | | | | |
| Sydney Water Corporation | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 13 of 13 | 13 of 13 | 13 of 13 | 13 of 13 | 100 | 100 | 100 | 100 | 13 of 13 | 13 of 13 | 13 of 13 | 13 of 13 | Yes | Yes | Yes | Yes | ISO 9001 | ISO 9001 | ISO9001 | ISO9001 | Yes | Yes | Yes | Yes | | | | | | | | | | | | | | |
| Hunter Water Corporation | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 3 of 3 | 4 of 4 | 4 of 5 | 5 of 5 | 99.8 | 100.0 | 100 | 100 | 3 of 3 | 4 of 4 | 5 of 5 | 5 of 5 | No | No | No | No | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | | | | | | |
| Sydney Catchment Authority | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 2 of 2 | 2 of 2 | 100 | 100 | 100 | 100 | | 2 of 2 | 2 of 2 | | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | | | |
| 2 Wyong Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 100 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | | | |
| 3 Shoalhaven City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 4 of 4 | 4 of 4 | 4 of 4 | 4 of 4 | 100 | 100 | 100 | 100 | 4 of 4 | 4 of 4 | 4 of 4 | 4 of 4 | No | No | No | No | No | HACCP | HACCP | HACCP | HACCP | Yes | Yes | Yes | Yes | | | | | | | | | | | | | |
| 4 Rous County Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 2 of 2 | 1 of 2 | 2 of 2 | 2 of 2 | 100 | 100 | 100 | 100 | 2 of 2 | 1 of 2 | 2 of 2 | 2 of 2 | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | | |
| 5 MidCoast County Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 4 of 4 | 2 of 4 | 4 of 4 | 4 of 4 | 100 | 91 | 100 | 100 | 2 of 4 | 2 of 4 | 3 of 4 | 3 of 4 | No | Yes | Yes | Yes | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | |
| 6 Tweed Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | 98 | 100 | 100 | 100 | 2 of 3 | 2 of 3 | 3 of 3 | 3 of 3 | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | |
| 7 Port Macquarie-Hastings Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 4 of 5 | 5 of 5 | 5 of 5 | 5 of 5 | 100 | 100 | 100 | 100 | 4 of 4 | 4 of 4 | 4 of 5 | 5 of 5 | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | |
| 8 Riverina Water County Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 13 of 15 | 13 of 14 | 14 of 14 | 14 of 14 | 99 | 99 | 100 | 100 | 14 of 15 | 12 of 14 | 13 of 14 | 10 of 14 | Yes | Yes | Yes | Yes | ADWG | HACCP | HACCP | HACCP | HACCP | HACCP | HACCP | HACCP | Yes | Yes | Yes | Yes | | | | | | | | | | |
| 10 Coffs Harbour City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | 100 | 100 | 100 | 100 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | | |
| 11 Albury City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 2 of 2 | 3 of 4 | 4 of 4 | 1 of 1 | 100 | 75 | 100 | 100 | 2 of 2 | 4 of 4 | 4 of 4 | 0 of 1 | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | | |
| 12 Fish River Water Supply | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 0 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | | 100 | 100 | 100 | 0 of 1 | 0 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 13 Tamworth Regional Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 6 of 7 | 5 of 7 | 7 of 7 | 6 of 7 | 100 | 98 | 100 | 99 | 5 of 7 | 5 of 7 | 6 of 7 | 6 of 7 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 14 Clarence Valley Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 4 of 7 | 3 of 5 | 4 of 5 | 4 of 5 | | 98 | 99 | 99 | | 4 of 5 | 5 of 5 | 4 of 5 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 15 Eurobodalla Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | | 1 of 1 | 1 of 1 | | | | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 16 Wingecarribee Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 3 of 3 | 2 of 2 | 2 of 2 | 3 of 3 | 100 | 100 | 100 | 100 | 2 of 3 | 2 of 2 | 1 of 2 | 3 of 3 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 17 Queanbeyan City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 100 | 100 | 100 | 100 | | 1 of 1 | 1 of 1 | | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 18 Dubbo City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 0 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 99 | 100 | 100 | 100 | 0 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 19 Orange City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 2 of 2 | 2 of 2 | 2 of 2 | 2 of 2 | 100 | 100 | 100 | 100 | 2 of 2 | 2 of 2 | 2 of 2 | 2 of 2 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 21 Bathurst Regional Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 99 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 22 Lismore City Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 97 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 0 of 1 | 1 of 1 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 23 Bega Valley Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 | 100 | 100 | 100 | 100 | 3 of 6 | 6 of 6 | 6 of 6 | 5 of 6 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 24 Ballina Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 100 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | Yes | Yes | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | |
| 25 Kempsey Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 6 of 9 | 7 of 8 | 7 of 8 | 7 of 7 | 99 | 100 | 100 | 100 | 6 of 9 | 7 of 8 | 6 of 8 | 7 of 7 | No | No | No | No | No | NHMRC | NHMRC | NHMRC | NHMRC | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | |
| 26 Country Energy | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 2 of 2 | 2 of 2 | 2 of 2 | 2 of 2 | 100 | 100 | 100 | 100 | 1 of 2 | 2 of 2 | 2 of 2 | 2 of 2 | No | No | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | | | | | |
| 27 Byron Shire Council | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 100 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | | |
| 28A Goldenfields Water (Reticulation) | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | 100 | 100 | 100 | 100 | 1 of 1 | 1 of 1 | 1 of 1 | 1 of 1 | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes | | |
| 28B Goldenfields Water (Bulk Supply) | ADWG 2004 | ADWG 2004 | ADWG 2004 | ADWG 2004 | 4 of 4 | 2 of 3 | 3 of 3 | 2 of 3 | 100 | 95 | 100 | 99 | 3 of 4 | 1 of 1 | 3 of 3 | 3 of 3 | No | No | No | No | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | ADWG | Yes | Yes | Yes | Yes |
| 20 Goulburn Mulwaree | | | ADWG 2004 | ADWG 2004 | | | 2 of 2 | 2 of 2 | | | 100 | 100 | | | 2 of 2 | 2 of 2 | | | No | No | | | No | ADWG | | | | | | | | Yes | Yes | | | | | | | | | |
| 9 Wagga Wagga City Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWU Range Max | | | | | | | | | 100 | 100 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWU Range Min | | | | | | | | | 97 | 75 | 99 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median of NMU Indicators shown in Table | | | | | | | | | 100 | 100 | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| WATER UTILITY | RESIDENTIAL CHARGES AND BILLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|-----------------|----------------------|-------|--------------|-----------------|-----------------------|----------|------|-------|-----------------------|----------|---------|---------|-----------------------|----------|--|-------|-----------------------|----------|------|-------|-----------------------|----------|--|-------|--|--|--|
| | WATER SUPPLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Tariff structure | | Free water allowance | | Fixed charge | | Usage charge 1st step | | | | Usage charge 2nd step | | | | Usage charge 3rd step | | | | Usage charge 4th step | | | | Usage charge 5th step | | | | | | |
| | P1 | | P1.1 | | P1.2 | | P1.3 | | | | P1.4 | | | | P1.5 | | | | P1.6 | | | | P1.7 | | | | | | |
| | | | | Basis | | \$ | | kL limit | | \$/kL | | kL limit | | \$/kL | | kL limit | | \$/kL | | kL limit | | \$/kL | | kL limit | | \$/kL | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Water Corporation | | Inclining Block | Two Part | | | 102 | | <400 | All | 1.61 | 1.87 | | >400 | | 1.83 | | | | | | | | | | | | | | |
| Hunter Water Corporation | | Inclining Block | Two Part | | | 40 | | All | All | 1.27 | 1.57 | | | | | | | | | | | | | | | | | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford City Council | Two Part | Two Part | 0 | 0 | Connection size | 92 | All | All | 1.67 | 1.78 | | | | | | | | | | | | | | | | | | |
| 2 | Wyong Shire Council | Two Part | Two Part | 0 | 0 | Connection size | 102 | All | All | 1.67 | 1.78 | | | | | | | | | | | | | | | | | | |
| 3 | Shoalhaven City Council | Inclining Block | Inclining Block | 0 | 0 | Connection size | 65 | <450 | <450 | 1.00 | 1.30 | | >450 | >450 | 1.50 | 1.95 | | | | | | | | | | | | | |
| 4 | Rous County Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | MidCoast Water | Inclining Block | Inclining Block | 0 | 0 | Meter size | 142 | <200 | <200 | 1.75 | 2.02 | | >200 | >200 | 1.95 | 2.24 | | | | | | | | | | | | | |
| 6 | Tweed Shire Council | Two Part | Inclining Block | 0 | 0 | Meter size | 102 | All | <450 | 1.36 | 1.50 | | >450 | | | 2.25 | | | | | | | | | | | | | |
| 7 | Port Macquarie Hastings Council | Inclining Block | Inclining Block | 0 | 0 | Meter size | 141 | <270 | <270 | 1.84 | 1.97 | | >270 | >270 | 3.68 | 3.94 | | | | | | | | | | | | | |
| 8 | Riverina Water | Two Part | Inclining Block | 0 | 0 | Uniform charge | 80 | All | <600 | 0.78 | 0.86 | | >600 | | | 1.29 | | | | | | | | | | | | | |
| 10 | Coffs Harbour City Council | Inclining Block | Inclining Block | 0 | 0 | Uniform charge | 124 | <365 | <365 | 1.96 | 2.14 | | >365 | >365 | 2.55 | 3.00 | | | | | | | | | | | | | |
| 11 | Albury City Council | Inclining Block | Inclining Block | 0 | 0 | Meter size | 87 | <225 | <225 | 0.52 | 0.54 | | >225 | >225 | 1.04 | 1.09 | | | | | | | | | | | | | |
| 12 | Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Tamworth Regional Council | Inclining Block | Inclining Block | 0 | 0 | Connection size | 187 | <400 | <400 | 0.99 | 1.06 | | 400-800 | 400-800 | 1.49 | 1.59 | | >800 | >800 | 2.03 | 2.39 | | | | | | | | |
| 14 | Clarence Valley Council | Inclining Block | Inclining Block | 0 | 0 | Connection size | 119 | <450 | <450 | 1.22 | 1.30 | | >450 | >450 | 1.83 | 1.95 | | | | | | | | | | | | | |
| 15 | Eurobodalla Shire Council | Inclining Block | Inclining Block | 0 | 0 | Meter size | 305 | <450 | <450 | 1.70 | 1.95 | | >450 | >450 | 2.55 | 2.90 | | | | | | | | | | | | | |
| 16 | Wingecarribee Shire Council | Inclining Block | Inclining Block | 0 | 0 | Meter size | 107 | <225 | <225 | 1.28 | 1.31 | | >225 | >225 | 1.92 | 1.96 | | | | | | | | | | | | | |
| 17 | Queanbeyan City Council | Inclining Block | Inclining Block | 0 | 0 | Meter size | 271 | <200 | <176 | 1.70 | 1.81 | | >200 | >176 | 2.30 | 2.44 | | | | | | | | | | | | | |
| 18 | Dubbo City Council | Inclining Block | Inclining Block | 0 | 0 | Meter size | 126 | <550 | <450 | 0.91 | 0.94 | | >550 | >450 | 1.45 | 1.75 | | | | | | | | | | | | | |
| 19 | Orange City Council | Inclining Block | Inclining Block | 0 | 0 | Connection size | 118 | <450 | <450 | 1.51 | 1.54 | | >450 | >450 | 2.27 | 2.31 | | | | | | | | | | | | | |
| 21 | Bathurst Regional Council | Inclining Block | Inclining Block | 0 | 0 | Connection size | 125 | <250 | <250 | 0.76 | 1.25 | | >250 | >250 | 1.15 | 1.88 | | | | | | | | | | | | | |
| 22 | Lismore City Council | Two Part | Two Part | 0 | 0 | Connection size | 130 | All | All | 1.70 | 1.90 | | | | | | | | | | | | | | | | | | |
| 23 | Bega Valley Shire Council | Two Part | Two Part | 0 | 0 | Connection size | 164 | All | All | 2.10 | 2.10 | | | | | | | | | | | | | | | | | | |
| 24 | Ballina Shire Council | Inclining Block | Inclining Block | 0 | 0 | Connection size | 123 | <350 | <350 | 1.18 | 1.32 | | >350 | >350 | 1.77 | 1.98 | | | | | | | | | | | | | |
| 25 | Kempsey Shire Council | Inclining Block | Inclining Block | 0 | 0 | Uniform charge | 260 | <250 | <250 | 1.10 | 1.20 | | >250 | >250 | 1.65 | 1.75 | | | | | | | | | | | | | |
| 26 | Country Energy | Inclining Block | Inclining Block | 0 | 0 | Connection size | 219 | <400 | <400 | 0.91 | 1.05 | | >400 | >400 | 2.36 | 2.36 | | | | | | | | | | | | | |
| 27 | Byron Shire Council | Two Part | Inclining Block | 0 | 0 | Connection size | 115 | All | <450 | 1.44 | 1.70 | | >450 | | | 2.50 | | | | | | | | | | | | | |
| 28A | Goldenfields Water (Reticulation) | Two part | Inclining Block | 0 | 0 | Uniform charge | 125 | All | <600 | 1.20 | 1.52 | | >600 | | | 2.30 | | | | | | | | | | | | | |
| 28B | Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Goulburn Mulwaree Council | | Inclining Block | 0 | | Connection size | 230 | | <292 | | 1.49 | | >292 | | | 2.00 | | | | | | | | | | | | | |
| 9 | Wagga Wagga Council | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NMU Range Max | | | | | | 305 | | | 2.10 | 2.14 | | | | 3.68 | 3.94 | | | 2.03 | 2.39 | | | | | | | | | |
| | NMU Range Min | | | | | | 65 | | | 0.52 | 0.54 | | | | 1.04 | 1.09 | | | 2.03 | 2.39 | | | | | | | | | |
| | Median of NMU Indicators shown in Table | | | | | | 125 | | | 1.32 | 1.50 | | | | 1.88 | 2.00 | | | 2.03 | 2.39 | | | | | | | | | |

| WATER UTILITY | | RESIDENTIAL CHARGES AND BILLS | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|-------------------------------|---------|-------------------------------------|---------|------------------------------|---------------------|---------|---------|---|---------|---------|--------------------------------|---------|---------|---------|------------------------------------|---------|---------|---------|---------------------------|---------|---------|---|---|
| | | WATER SUPPLY | | | | | | | | | | | | | | | | | | | | | | | |
| | | Special levies | | Income retained from special levies | | Annual Bill based on 200kL/a | | | | Average Annual Residential Water Supplied | | | Typical Residential Bill (TRB) | | | | Number of meter readings per annum | | | | Number of bills per annum | | | | |
| | | P1.12 | P1.13 | P2 | | P2.1 | | | P3 | | | | P3.1 | | | | P3.2 | | | | | | | | |
| \$ | (Yes/No) | (\$ per assessment) | | (kL) | | | (\$ per assessment) | | | | (no.) | | | | (no.) | | | | | | | | | | |
| 2008/09 | 2009/10 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | | |
| Sydney Water Corporation | | | | 325 | 398 | 476 | | 186 | 198 | 205 | | 325 | 323 | 404 | 484 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Hunter Water Corporation | | | | 278 | 295 | 354 | | 177 | 180 | 184 | | 269 | 264 | 276 | 329 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford City Council | 15 | 16 | No | No | 335 | 381 | 432 | 464 | 135 | 140 | 146 | 270 | 286 | 329 | 368 | | | | | 2 | 2 | | 2 | 2 |
| 2 | Wyong Shire Council | 15 | 16 | No | No | 346 | 392 | 441 | 473 | 146 | 141 | 154 | 288 | 313 | 340 | 392 | | | | | 2 | 2 | | 2 | 2 |
| 3 | Shoalhaven City Council | 0 | 0 | No | No | 261 | 265 | 267 | 325 | 144 | 152 | 145 | 230 | 209 | 218 | 254 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 4 | Rous County Council | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | MidCoast Water | 0 | 0 | No | No | 436 | 443 | 485 | 546 | 149 | 150 | 154 | 388 | 365 | 395 | 453 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | Tweed Shire Council | 0 | 0 | No | No | 331 | 360 | 379 | 402 | 174 | 180 | 176 | 346 | 343 | 350 | 366 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 7 | Port Macquarie Hastings Council | 0 | 0 | No | No | 421 | 439 | 489 | 535 | 154 | 151 | 166 | 356 | 365 | 397 | 468 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 8 | Riverina Water | 0 | 0 | No | No | 244 | 243 | 241 | 252 | 327 | 374 | 330 | 409 | 343 | 380 | 364 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 10 | Coffs Harbour City Council | 0 | 0 | No | No | 511 | 513 | 517 | 552 | 169 | 165 | 186 | 469 | 452 | 446 | 523 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 11 | Albury City Council | 0 | 0 | No | No | 194 | 197 | 195 | 195 | 193 | 222 | 220 | 259 | 194 | 207 | 206 | | | | | 3 | 3 | | 3 | 3 |
| 12 | Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Tamworth Regional Council | 0 | 0 | No | No | 350 | 369 | 382 | 399 | 192 | 226 | 256 | 376 | 362 | 408 | 458 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 14 | Clarence Valley Council | 0 | 0 | No | No | 334 | 348 | 364 | 379 | 178 | 176 | 174 | 316 | 349 | 334 | 340 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 15 | Eurobodalla Shire Council | 0 | 0 | No | No | 546 | 638 | 650 | 695 | 119 | 129 | 116 | 440 | 501 | 527 | 531 | | | | | 3 | 3 | | 3 | 3 |
| 16 | Wingecarribee Shire Council | 0 | 0 | No | No | 378 | 366 | 366 | 369 | 168 | 183 | 190 | 397 | 324 | 344 | 356 | | | | | 3 | 3 | | 3 | 3 |
| 17 | Queanbeyan City Council | 0 | 0 | No | No | 586 | 619 | 616 | 648 | 188 | 198 | 200 | 622 | 593 | 613 | 649 | | | | | 4 | 4 | | 4 | 4 |
| 18 | Dubbo City Council | 0 | 0 | No | No | 310 | 305 | 310 | 314 | 322 | 331 | 329 | 529 | 417 | 432 | 435 | | | | | 4 | 4 | | 4 | 4 |
| 19 | Orange City Council | 0 | 0 | No | No | 419 | 419 | 422 | 426 | 178 | 259 | 148 | 608 | 396 | 506 | 345 | | | | | 4 | 4 | | 4 | 4 |
| 21 | Bathurst Regional Council | 0 | 0 | No | No | 376 | 379 | 396 | 375 | 241 | 240 | 252 | 419 | 398 | 427 | 441 | | | | | 4 | 4 | | 4 | 4 |
| 22 | Lismore City Council | 0 | 0 | No | No | 375 | 390 | 450 | 510 | 163 | 159 | 168 | 341 | 338 | 379 | 449 | | | | | 4 | 4 | | 4 | 4 |
| 23 | Bega Valley Shire Council | 0 | 0 | No | No | 453 | 580 | 563 | 584 | 144 | 154 | 165 | 394 | 457 | 464 | 511 | | | | | 3 | 3 | | 3 | 3 |
| 24 | Ballina Shire Council | 0 | 0 | No | No | 300 | 331 | 354 | 387 | 186 | 175 | 188 | 298 | 316 | 324 | 371 | | | | | 4 | 4 | | 4 | 4 |
| 25 | Kempsey Shire Council | 0 | 0 | No | No | 482 | 498 | 506 | 500 | 169 | 156 | 177 | 467 | 467 | 457 | 472 | | | | | 4 | 4 | | 4 | 4 |
| 26 | Country Energy | 0 | 0 | No | No | 368 | 387 | 405 | 429 | 284 | 284 | 280 | 432 | 454 | 483 | 512 | | | | | 4 | 4 | | 4 | 4 |
| 27 | Byron Shire Council | 0 | 0 | No | No | 374 | 389 | 420 | 455 | 181 | 181 | 194 | 349 | 363 | 392 | 445 | | | | | 4 | 4 | | 4 | 4 |
| 28A | Goldenfields Water (Reticulation) | 0 | 0 | No | No | 463 | 456 | 454 | 429 | 252 | 298 | 259 | 575 | 518 | 574 | 514 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 28B | Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Goulburn Mulwaree Council | 0 | | No | | | | 528 | | | 136 | | | | 432 | | | | | | | | | | |
| 9 | Wagga Wagga Council | | | | | | | | | | | | | | | | | | | | | | | | |
| | NMU Range Max | | | | | 650 | 695 | | | 374 | 330 | | 593 | 613 | 649 | | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 |
| | NMU Range Min | | | | | 195 | 195 | | | 129 | 116 | | 194 | 207 | 206 | | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 |
| | Median of NMU Indicators shown in Table | | | | | 421 | 429 | | | 178 | 177 | | 364 | 396 | 441 | | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 |

| WATER UTILITY | | RESIDENTIAL CHARGES AND BILLS | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|-------------------------------|--------------|--------------|-----|------------------|-------------|-------------|------|-----------------|------|---------|---|----------------|--|------------------|---|--|----|---------|----|---------|----|---------|-----|---------|--|
| | | SEWERAGE | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Tariff Structure | | | | Fixed charge min | | | | Usage charge | | | | Special Levies | | | | Income from Special Levies Retained by Utility | | | | | | | | | |
| | | P4 (Charge Type) | | | | P4.1 (\$) | | | | P4.2 (\$/kL) | | | | P4.3 (\$) | | P4.4 (Yes/No) | | | | | | | | | | | |
| 2006/07 | | 2007/08 | | 2008/09 | | 2009/10 | | 2006/07 | | 2007/08 | | 2008/09 | | 2009/10 | | 2006/07 | | 2007/08 | | 2008/09 | | 2009/10 | | 2008/09 | | 2009/10 | |
| Sydney Water Corporation | | | | | | 410 | 430 | 491 | 501 | 0 | 0 | 0 | 0 | | | | | | | | | | | No | No | | |
| Hunter Water Corporation | | Service charge only | | | | 291 + usage | 319 + usage | 329 + usage | 462 | 0.45 | 0.47 | 0.48 | 0 | Environmental | | | | 0 | 56 | 56 | 33 | | | Yes | Yes | | |
| Sydney Catchment Authority | | | | | | 1.05 | | | | | | | | | | | | | | | | | | | | | |
| 1 | Gosford City Council | Fixed | Fixed Charge | Fixed Charge | 396 | 406 | 409 | 464 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 2 | Wyong Shire Council | Fixed | Fixed Charge | Fixed Charge | 402 | 416 | 407 | 429 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 3 | Shoalhaven City Council | Fixed | Fixed Charge | Fixed Charge | 555 | 571 | 570 | 585 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 4 | Rous County Council | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | MidCoast Water | Fixed | Fixed Charge | Fixed Charge | 643 | 682 | 706 | 794 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 6 | Tweed Shire Council | Fixed | Fixed Charge | Fixed Charge | 499 | 519 | 521 | 527 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 7 | Port Macquarie Hastings Council | Fixed | Fixed Charge | Fixed Charge | 444 | 510 | 569 | 601 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 8 | Riverina Water | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Coffs Harbour City Council | Fixed | Fixed Charge | Fixed Charge | 621 | 633 | 644 | 676 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 11 | Albury City Council | Fixed | Fixed Charge | Fixed Charge | 374 | 414 | 408 | 426 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 12 | Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Tamworth Regional Council | Fixed | Fixed Charge | Fixed Charge | 569 | 638 | 653 | 675 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 14 | Clarence Valley Council | Fixed | Fixed Charge | Fixed Charge | 506 | 559 | 598 | 637 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 15 | Eurobodalla Shire Council | Fixed | Fixed Charge | Fixed Charge | 548 | 583 | 631 | 662 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 16 | Wingecarribee Shire Council | Fixed | Fixed Charge | Fixed Charge | 527 | 543 | 543 | 546 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 17 | Queanbeyan City Council | Fixed | Fixed Charge | Fixed Charge | 322 | 331 | 330 | 334 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 18 | Dubbo City Council | Fixed | Fixed Charge | Fixed Charge | 457 | 480 | 489 | 502 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 19 | Orange City Council | Fixed | Fixed Charge | Fixed Charge | 288 | 298 | 299 | 292 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 21 | Bathurst Regional Council | Fixed | Fixed Charge | Fixed Charge | 370 | 383 | 390 | 399 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 22 | Lismore City Council | Fixed | Fixed Charge | Fixed Charge | 469 | 486 | 487 | 545 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 23 | Bega Valley Shire Council | Fixed | Fixed Charge | Fixed Charge | 683 | 939 | 910 | 957 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 24 | Ballina Shire Council | Fixed | Fixed Charge | Fixed Charge | 380 | 422 | 450 | 480 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 25 | Kempsey Shire Council | Fixed | Fixed Charge | Fixed Charge | 545 | 583 | 583 | 595 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 26 | Country Energy | Fixed | Fixed Charge | Fixed Charge | 314 | 346 | 369 | 397 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 27 | Byron Shire Council | Fixed + Usxed + Usage Char | | | 538 | 574 | 589 | 603 | 1.23 | 1.10 | 1.10 | 1.08 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| 28A | Goldenfields Water (Reticulation) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28B | Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Goulburn Mulwaree Council | Fixed Charge | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Wagga Wagga Council | Fixed | Fixed Charge | Fixed Charge | 337 | 351 | 364 | 380 | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | | | No | No | | | |
| NMU Range Max | | | | | | 939 | 910 | 957 | 1 | 1 | 1 | | | | | 0 | 0 | 0 | | | | | | | | | |
| NMU Range Min | | | | | | 298 | 299 | 292 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | | | | | | | | | |
| Median of NMU Indicators shown in Table | | | | | | 510 | 521 | 545 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | | | | | | | | | |

| WATER UTILITY | RESIDENTIAL CHARGES AND BILLS | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|-----|-----|---------------------------------|--------------------------------|-----|-----|---------------------------------|---------------------------|---|---|---------------------------------|--|-------|-------|---------------------------------|--|-------|-------|--|
| | SEWERAGE | | | | | | | | WS & SGE | | | | | | | | | | | |
| | Annual Bill based on 200kL/a | | | | Typical Residential Bill (TRB) | | | | Number of bills per annum | | | | Annual Bill based on 200kL/a WS + Sge | | | | Typical Residential Bill (TRB) WS + Sge | | | |
| | P5 | | P6 | | P6.1 | | P7 | | P8 | | | | | | | | | | | |
| | (\$ per assessment) | | | | (\$ per assessment) | | | | (no.) | | | | (\$ per assessment) | | | | (\$ per assessment) | | | |
| 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | |
| Sydney Water Corporation | 410 | 430 | 491 | 501 | 410 | 430 | 491 | 501 | 4 | 4 | 4 | 4 | 773 | 898 | 977 | 735 | 753 | 895 | 985 | |
| Hunter Water Corporation | 387 | 368 | 377 | 496 | 387 | 362 | 372 | 496 | 3 | 3 | 3 | 3 | 662 | 679 | 850 | 655 | 627 | 648 | 825 | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 410 | 406 | 409 | 464 | 410 | 406 | 409 | 464 | | 2 | 2 | | 787 | 840 | 927 | 680 | 693 | 737 | 832 | |
| 2 Wyong Shire Council | 415 | 416 | 407 | 429 | 415 | 416 | 407 | 429 | | 2 | 2 | | 807 | 848 | 903 | 703 | 729 | 747 | 821 | |
| 3 Shoalhaven City Council | 574 | 571 | 570 | 585 | 574 | 571 | 570 | 585 | 4 | 4 | 4 | 4 | 836 | 837 | 910 | 804 | 779 | 788 | 839 | |
| 4 Rous County Council | | | | | | | | | | | | | | | | | | | | |
| 5 MidCoast Water | 666 | 682 | 706 | 794 | 666 | 682 | 706 | 794 | 4 | 4 | 4 | 4 | 1125 | 1191 | 1,340 | 1,053 | 1,046 | 1,101 | 1,247 | |
| 6 Tweed Shire Council | 516 | 519 | 521 | 527 | 516 | 519 | 521 | 527 | 2 | 2 | 2 | 2 | 879 | 899 | 929 | 863 | 862 | 871 | 893 | |
| 7 Port Macquarie Hastings Council | 459 | 510 | 569 | 601 | 459 | 510 | 569 | 601 | 4 | 4 | 4 | 4 | 949 | 1058 | 1,136 | 815 | 875 | 966 | 1,069 | |
| 8 Riverina Water | | | | | | | | | | | | | | | | | | | | |
| 10 Coffs Harbour City Council | 643 | 633 | 644 | 676 | 643 | 633 | 644 | 676 | 4 | 4 | 4 | 4 | 1146 | 1161 | 1,228 | 1,111 | 1,085 | 1,090 | 1,199 | |
| 11 Albury City Council | 387 | 414 | 408 | 426 | 387 | 414 | 408 | 426 | 3 | 3 | 3 | 3 | 611 | 604 | 621 | 647 | 607 | 616 | 632 | |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 589 | 638 | 653 | 675 | 589 | 638 | 653 | 675 | 4 | 4 | 4 | 4 | 1008 | 1034 | 1,074 | 966 | 1,000 | 1,060 | 1,133 | |
| 14 Clarence Valley Council | 524 | 559 | 598 | 637 | 524 | 559 | 598 | 637 | 4 | 4 | 4 | 4 | 907 | 963 | 1,016 | 839 | 908 | 932 | 977 | |
| 15 Eurobodalla Shire Council | 567 | 583 | 631 | 662 | 567 | 583 | 631 | 662 | | 3 | 3 | | 1222 | 1281 | 1,357 | 1,008 | 1,085 | 1,158 | 1,193 | |
| 16 Wingecarribee Shire Council | 545 | 543 | 543 | 546 | 545 | 543 | 543 | 546 | | 3 | 3 | | 909 | 909 | 915 | 942 | 867 | 886 | 902 | |
| 17 Queanbeyan City Council | 333 | 331 | 330 | 334 | 333 | 331 | 330 | 334 | | 4 | 4 | | 951 | 946 | 982 | 955 | 924 | 943 | 983 | |
| 18 Dubbo City Council | 473 | 480 | 489 | 502 | 473 | 480 | 489 | 502 | | 4 | 4 | | 786 | 799 | 816 | 1,002 | 897 | 921 | 937 | |
| 19 Orange City Council | 298 | 298 | 299 | 292 | 298 | 298 | 299 | 292 | | 4 | 4 | | 718 | 722 | 718 | 906 | 694 | 805 | 637 | |
| 21 Bathurst Regional Council | 382 | 383 | 390 | 399 | 382 | 383 | 390 | 399 | | 4 | 4 | | 762 | 786 | 774 | 801 | 781 | 817 | 840 | |
| 22 Lismore City Council | 485 | 486 | 487 | 545 | 485 | 486 | 487 | 545 | | 4 | 4 | | 877 | 937 | 1,055 | 826 | 824 | 866 | 994 | |
| 23 Bega Valley Shire Council | 707 | 939 | 910 | 957 | 707 | 939 | 910 | 957 | | 3 | 3 | | 1519 | 1473 | 1,541 | 1,101 | 1,396 | 1,375 | 1,468 | |
| 24 Ballina Shire Council | 393 | 422 | 450 | 480 | 393 | 422 | 450 | 480 | | 4 | 4 | | 753 | 804 | 867 | 691 | 738 | 774 | 851 | |
| 25 Kempsey Shire Council | 564 | 583 | 583 | 595 | 564 | 583 | 583 | 595 | | 4 | 4 | | 1082 | 1089 | 1,095 | 1,031 | 1,050 | 1,040 | 1,067 | |
| 26 Country Energy | 325 | 346 | 369 | 397 | 325 | 346 | 369 | 397 | | 4 | 4 | | 733 | 774 | 826 | 757 | 800 | 852 | 909 | |
| 27 Byron Shire Council | 753 | 764 | 755 | 765 | 743 | 752 | 739 | 760 | | 4 | 4 | | 1153 | 1175 | 1,220 | 1,093 | 1,115 | 1,131 | 1,205 | |
| 28A Goldenfields Water (Reticulation) | | | | | | | | | | | | | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree Council | | | | 600 | | | | 600 | | | | | | | 1,128 | | | | 1,032 | |
| 9 Wagga Wagga Council | 349 | 351 | 364 | 380 | 349 | 351 | 364 | 380 | | 4 | 4 | | | | | | | | | |
| NMU Range Max | | 910 | 957 | | 743 | 939 | 910 | 957 | | 4 | 4 | | | 1,473 | 1,541 | 1,111 | 1,396 | 1,375 | 1,468 | |
| NMU Range Min | | 299 | 292 | | 298 | 298 | 299 | 292 | | 2 | 2 | | | 604 | 621 | 647 | 607 | 616 | 632 | |
| Median of NMU Indicators shown in Table | | 521 | 546 | | 485 | 510 | 521 | 546 | | 4 | 4 | | | 923 | 982 | 884 | 871 | 904 | 977 | |

| WATER UTILITY | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------|---------|---------------------------------|---|---------|-----------|---------------------------------|--|-----------|-----------|---------------------------------|---|----|----|---------------------------------|-----------------------------|-------|-------|---------------------------------|------------------------------|-------|-------|---------------------------------|--------------------|-------|-------|---------------------------------|-------------------|-----|-----|-----|
| | WS | | | | SGE | | | | WS & SGE | | | | WS | | | | SGE | | | | WS & SGE | | | | | | | | | | | |
| | Total Revenue Water (excludes gain/loss on disposal of assets, grants for capital works & investment income) | | | | Total Revenue Sewerage (excludes gain/loss on disposal of assets, grants for capital works & investment income) | | | | Total Income WS + Sge (includes gain/loss on disposal of assets) (may not equal F1 + F2) | | | | Residential Revenue from Usage Charges | | | | Revenue per property for WS | | | | Revenue per property for Sge | | | | Income for Utility | | | | Revenue from CSOs | | | |
| | F1 | | | | F2 | | | | F3 | | | | F4 | | | | F5 | | | | F6 | | | | F7 | | | | F8 | | | |
| | (\$'000) | | | | (\$'000) | | | | (\$'000) | | | | (%) | | | | (\$/property) | | | | (\$/property) | | | | (\$/property) | | | | (%) | | | |
| 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | |
| Sydney Water Corporation | 847,567 | 778,515 | 928,376 | 1,070,000 | 944,235 | 958,596 | 1,020,000 | 1,070,000 | 1,770,000 | 1,780,000 | 1,910,000 | 2,130,000 | 82 | 84 | 0 | 82 | 492 | 448 | 529 | 605 | 565 | 568 | 596 | 623 | 1,030 | 1,025 | 1,091 | 1,203 | 6.0 | 5.0 | 6.0 | 6.0 |
| Hunter Water Corporation | 110,597 | 92,099 | 92,171 | 112,479 | | | | | | | | | | | | | 512 | 418 | 415 | 500 | 532 | 557 | 540 | 572 | 1,022 | 958 | 929 | 1,044 | 4.0 | 4.0 | 4.6 | 4.8 |
| Sydney Catchment Authority | 164,916 | 168,913 | 180,332 | 196,274 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | 28,047 | 24,883 | 29,524 | 32,904 | 32,475 | 30,675 | 30,916 | 36,742 | 60,674 | 55,558 | 60,143 | 69,819 | 68 | 70 | 75 | 73 | 405 | 358 | 421 | 468 | 480 | 450 | 452 | 536 | 875 | 798 | 858 | 994 | 2.0 | 2.0 | 2.0 | 0.8 |
| 2 Wyong Shire Council | 42,750 | 30,754 | 31,890 | 46,325 | 31,134 | 27,152 | 26,050 | 29,021 | 73,884 | 57,906 | 57,940 | 75,346 | 66 | 69 | 74 | 63 | 735 | 521 | 536 | 774 | 542 | 465 | 444 | 491 | 1,272 | 981 | 974 | 1,260 | 2.0 | 2.0 | 2.2 | 0.9 |
| 3 Shoalhaven City Council | 16,688 | 16,076 | 16,905 | 19,749 | 29,933 | 30,347 | 30,904 | 32,653 | 46,495 | 46,423 | 47,546 | 52,269 | 62 | 67 | 71 | 74 | 372 | 354 | 370 | 431 | 808 | 788 | 784 | 806 | 1,038 | 1,022 | 1,041 | 1,140 | 2.0 | 2.0 | 2.0 | 1.9 |
| 4 Rous Water | 10,350 | 12,998 | 14,162 | 16,540 | | | | | 10,511 | 12,998 | 13,711 | 14,893 | | | | | | | | | | | | | | | | | 0.0 | 0.0 | 0.1 | 0.1 |
| 5 MidCoast Water | 19,762 | 19,178 | 19,353 | 23,412 | 26,304 | 27,156 | 27,188 | 31,639 | 45,522 | 46,334 | 46,292 | 54,934 | 72 | 71 | 75 | 77 | 552 | 532 | 534 | 645 | 820 | 840 | 835 | 963 | 1,272 | 1,284 | 1,276 | 1,512 | 2.0 | 2.0 | 1.8 | 1.6 |
| 6 Tweed Shire Council | 22,645 | 21,975 | 18,726 | 20,556 | 25,324 | 29,611 | 28,160 | 26,331 | 47,668 | 51,585 | 45,666 | 44,173 | 72 | 70 | 72 | 75 | 783 | 713 | 592 | 659 | 927 | 1,070 | 949 | 894 | 1,650 | 1,638 | 1,442 | 1,417 | 2.0 | 2.5 | 1.6 | 1.6 |
| 7 Port Macquarie Hastings Council | 17,646 | 17,662 | 21,962 | 23,551 | 14,122 | 16,206 | 19,674 | 19,618 | 31,542 | 33,868 | 41,241 | 42,977 | 74 | 74 | 74 | 70 | 604 | 617 | 735 | 814 | 548 | 624 | 724 | 743 | 1,080 | 1,184 | 1,380 | 1,486 | 2.0 | 2.0 | 1.7 | 1.3 |
| 8 Riverina Water | 19,704 | 17,588 | 18,117 | 18,571 | | | | | 19,642 | 17,588 | 18,117 | 18,560 | 80 | 77 | 79 | 80 | 722 | 633 | 641 | 649 | | | | | 719 | 633 | 641 | 649 | 1.0 | 1.0 | 1.1 | 1.0 |
| 10 Coffs Harbour City Council | 15,475 | 17,832 | 16,580 | 32,293 | 20,697 | 22,673 | 20,973 | 24,581 | 36,175 | 40,505 | 37,552 | 56,463 | 78 | 80 | 76 | 75 | 663 | 756 | 696 | 1,343 | 947 | 1,020 | 934 | 1,083 | 1,551 | 1,718 | 1,576 | 2,348 | 1.0 | 1.0 | 1.2 | 0.8 |
| 11 Albury City Council | 9,727 | 8,218 | 8,042 | 9,155 | 11,327 | 12,262 | 12,388 | 14,876 | 21,054 | 20,481 | 20,429 | 24,031 | 70 | 52 | 64 | 64 | 431 | 375 | 362 | 406 | 539 | 602 | 601 | 710 | 932 | 934 | 920 | 1,065 | 2.0 | 1.0 | 1.5 | 1.3 |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 13,095 | 14,771 | 15,399 | 15,720 | 13,344 | 15,134 | 18,902 | 21,224 | 26,439 | 29,905 | 34,301 | 36,944 | 60 | 56 | 61 | 64 | 658 | 732 | 757 | 762 | 742 | 831 | 1,028 | 1,141 | 1,329 | 1,483 | 1,686 | 1,791 | 1.0 | 1.0 | 1.1 | 1.0 |
| 14 Clarence Valley Council | 26,877 | 31,936 | 15,654 | 12,139 | 9,787 | 10,586 | 10,632 | 11,712 | 36,664 | 42,522 | 26,253 | 23,767 | 73 | 71 | 69 | 64 | 1,378 | 1,554 | 752 | 579 | 802 | 757 | 742 | 814 | 1,880 | 2,069 | 1,261 | 1,134 | 2.0 | 1.0 | 1.7 | 1.8 |
| 15 Eurobodalla Shire Council | 11,024 | 12,756 | 13,168 | 13,799 | 11,952 | 12,544 | 13,812 | 14,948 | 22,506 | 25,300 | 25,270 | 28,118 | 44 | 40 | 40 | 43 | 584 | 672 | 686 | 713 | 691 | 720 | 785 | 844 | 1,190 | 1,334 | 1,316 | 1,453 | 2.0 | 2.0 | 1.5 | 1.4 |
| 16 Wingecarribee Shire Council | 10,600 | 8,417 | 9,256 | 10,880 | 11,100 | 10,261 | 9,889 | 10,814 | 21,648 | 18,678 | 19,127 | 21,665 | 65 | 68 | 71 | 71 | 602 | 472 | 514 | 600 | 793 | 726 | 692 | 747 | 1,230 | 1,046 | 1,063 | 1,194 | 1.0 | 1.0 | 2.0 | 1.4 |
| 17 Queanbeyan City Council | 11,322 | 10,894 | 9,895 | 12,029 | 6,199 | 7,981 | 5,899 | 6,226 | 17,564 | 18,875 | 15,621 | 17,942 | 61 | 57 | 56 | 62 | 731 | 683 | 627 | 755 | 400 | 500 | 368 | 387 | 1,134 | 1,183 | 990 | 1,126 | 1.0 | 1.0 | 1.0 | 1.1 |
| 18 Dubbo City Council | 12,015 | 8,933 | 9,427 | 10,966 | 9,457 | 9,983 | 9,897 | 10,194 | 21,486 | 18,916 | 18,646 | 20,776 | 83 | 75 | 75 | 77 | 769 | 572 | 585 | 650 | 656 | 676 | 663 | 661 | 1,375 | 1,210 | 1,157 | 1,232 | 1.0 | 1.0 | 1.0 | 0.9 |
| 19 Orange City Council | 13,398 | 10,810 | 12,894 | 9,706 | 8,367 | 11,240 | 13,884 | 7,347 | 21,774 | 22,050 | 26,779 | 17,090 | 75 | 72 | 72 | 70 | 859 | 672 | 800 | 602 | 540 | 754 | 918 | 470 | 1,395 | 1,372 | 1,661 | 1,060 | 1.0 | 1.0 | 0.9 | 1.4 |
| 21 Bathurst Regional Council | 9,245 | 9,488 | 10,878 | 10,843 | 7,812 | 7,045 | 8,026 | 7,899 | 17,072 | 16,533 | 18,904 | 18,741 | 43 | 38 | 52 | 81 | 642 | 645 | 728 | 739 | 558 | 491 | 552 | 534 | 1,186 | 1,123 | 1,265 | 1,277 | 1.0 | 1.0 | 1.1 | 1.1 |
| 22 Lismore City Council | 6,164 | 6,705 | 7,172 | 8,398 | 7,785 | 9,212 | 8,102 | 8,546 | 13,875 | 15,917 | 14,908 | 16,523 | 71 | 68 | 73 | 72 | 449 | 484 | 514 | 597 | 642 | 753 | 659 | 689 | 1,012 | 1,149 | 1,068 | 1,175 | 2.0 | 2.0 | 2.0 | 1.5 |
| 23 Bega Valley Shire Council | 7,281 | 8,419 | 8,861 | 9,839 | 8,941 | 12,409 | 12,456 | 13,676 | 17,835 | 20,828 | 21,311 | 23,503 | 66 | 72 | 73 | 67 | 528 | 610 | 631 | 700 | 828 | 1,069 | 1,051 | 1,150 | 1,293 | 1,509 | 1,517 | 1,671 | 1.0 | 1.0 | 1.2 | 1.1 |
| 24 Ballina Shire Council | 5,813 | 6,304 | 6,292 | 7,734 | 8,056 | 9,360 | 8,799 | 10,574 | 13,831 | 15,664 | 14,833 | 18,308 | 66 | 67 | 66 | 70 | 434 | 453 | 449 | 539 | 645 | 747 | 692 | 807 | 1,032 | 1,125 | 1,058 | 1,276 | 2.0 | 2.0 | 2.0 | 1.6 |
| 25 Kempsey Shire Council | 7,225 | 7,077 | 7,465 | 7,883 | 6,223 | 6,454 | 6,562 | 6,805 | 13,537 | 13,531 | 13,519 | 14,490 | 38 | 38 | 41 | 49 | 597 | 578 | 607 | 636 | 699 | 724 | 731 | 754 | 1,118 | 1,106 | 1,100 | 1,169 | 1.0 | 2.0 | 1.8 | 1.7 |
| 26 Country Energy | 12,830 | 12,989 | 12,755 | 12,701 | 3,910 | 4,366 | 4,659 | 4,861 | 16,747 | 17,355 | 17,414 | 17,562 | 59 | 56 | 57 | 60 | 1,199 | 1,204 | 1,220 | 1,213 | 407 | 452 | 480 | 501 | 1,566 | 1,608 | 1,666 | 1,677 | 2.0 | 2.0 | 1.6 | 1.5 |
| 27 Byron Shire Council | 5,133 | 4,872 | 5,809 | 6,655 | 10,402 | 10,448 | 11,288 | 12,063 | 15,535 | 15,320 | 16,983 | 18,718 | 71 | 66 | 70 | 77 | 489 | 464 | 546 | 618 | 1,062 | 1,046 | 1,146 | 1,190 | 1,479 | 1,458 | 1,595 | 1,737 | 1.0 | 1.0 | 0.9 | 0.8 |
| 28A Goldenfields Water (Reticulation) | 6,832 | 5,805 | 6,335 | 6,349 | | | | | 6,785 | 5,805 | 6,259 | 6,338 | 66 | 61 | 65 | 78 | 645 | 548 | 634 | 632 | | | | | 640 | 548 | 627 | 634 | 2.0 | 2.0 | 1.6 | 1.5 |
| 28B Goldenfields Water (Bulk Supply) | | | | 6,665 | | | | | | | | 6,657 | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree Council | | | | 7,180 | | | | 8,260 | | | | 15,894 | | | | 40 | | | | 702 | | | | 865 | | | | 1,554 | | | | 1.1 |
| 9 Wagga Wagga Council | | | | | 12,537 | 12,986 | 13,868 | 14,504 | 12,537 | 12,986 | 13,868 | 11,105 | | | | | | | | | 552 | 563 | 587 | 577 | | | | | 1.0 | 1.0 | 1.1 | 1.4 |
| NMU Range Max | 42,750 | 31,936 | 31,890 | 46,325 | 32,475 | 30,675 | 30,916 | 36,742 | 73,884 | 57,906 | 60,143 | 75,346 | 83 | 80 | 79 | 81 | 1,378 | 1,554 | 1,220 | 1,343 | 1,062 | 1,070 | 1,146 | 1,190 | 1,880 | 2,069 | 1,686 | 2,348 | 2.0 | 2.5 | 2.2 | 1.9 |
| NMU Range Min | 5,133 | 4,872 | 5,809 | 6,349 | 3,910 | 4,366 | 4,659 | 4,861 | 6,785 | 5,805 | 6,259 | 6,338 | 38 | 38 | 40 | 40 | 372 | 354 | 362 | 406 | 400 | 450 | 368 | 387 | 640 | 548 | 627 | 634 | 0.0 | 0.0 | 0.1 | 0.1 |
| Median of NMU Indicators shown in Table | 12,015 | 12,756 | 12,894 | 12,029 | 11,100 | 12,262 | 12,456 | 12,870 | 21,270 | 19,698 | 19,778 | 19,759 | 67 | 68 | 71 | 70 | 623 | 594 | 617 | 649 | 656 | 726 | 724 | 751 | 1,210 | 1,183 | 1,209 | 1,260 | 1.5 | 1.0 | 1.5 | 1.3 |

| WATER UTILITY | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|------------|------------|---|------------|------------|------------|-----------------------------------|---------|---------|---------|-------------------------------|---------|---------|---------|--|---------|---------|---------|---------------------------------|---------|-----------|---------|-------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | WS | | | | SGE | | | | WS | | | | SGE | | | | WS + SGE | | | | WS | | | | SGE | | | | | | | |
| | Written Down Replacement Cost of WS Assets | | | | Written Down Replacement Cost of Sge Assets | | | | Operating Cost OMA - Water Supply | | | | Operating Cost OMA - Sewerage | | | | Combined Operating Cost OMA - WS & Sge | | | | Total Water Capital Expenditure | | | | Total Sge Capital Expenditure | | | | | | | |
| | F9 | | | | F10 | | | | F11 | | | | F12 | | | | F13 | | | | F14 | | | | F15 | | | | | | | |
| | (\$'000) | | | | (\$'000) | | | | (\$/prop) | | | | (\$/prop) | | | | (\$/prop) | | | | (\$'000) | | | | (\$'000) | | | | | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 |
| Sydney Water Corporation | 7,881,873 | 8,889,412 | 10,433,975 | 11,592,458 | 15,929,128 | 20,069,452 | 21,549,095 | 22,278,233 | 284 | 354 | 306 | 311 | 207 | 275 | 246 | 245 | 485 | 621 | 551 | 556 | 249,546 | 960,114 | 1,490,000 | 800,845 | 443,770 | 468,009 | 403,781 | 455,005 | | | | |
| Hunter Water Corporation | 1,044,526 | 1,486,197 | 1,535,793 | 1,579,034 | 1,548,715 | 1,622,182 | 2,648,806 | 2,715,289 | 230 | 196 | 189 | 190 | 249 | 273 | 278 | 305 | 466 | 455 | 466 | 496 | 67,021 | 39,704 | 69,573 | 53,567 | 47,618 | 45,829 | 72,802 | 106,368 | | | | |
| Sydney Catchment Authority | | | | | | | | | | | | | | | | | | | | | 95,816 | 76,899 | 81,591 | 54,357 | | | | | | | | |
| 1 Gosford City Council | 424,985 | 455,081 | 463,393 | 523,975 | 360,790 | 374,675 | 381,264 | 413,083 | 338 | 285 | 291 | 353 | 290 | 275 | 288 | 313 | 628 | 554 | 579 | 666 | 30936 | 23288 | 19947 | 41,667 | 4,305 | 15,655 | 15,695 | 16,681 | | | | |
| 2 Wyong Shire Council | | 454,986 | 463,165 | 510,820 | | 388,314 | 395,968 | 396,095 | 343 | 291 | 368 | 391 | 310 | 317 | 326 | 327 | 651 | 605 | 694 | 718 | | 16041 | 15913 | 51,554 | | 3,969 | 4,139 | 10,032 | | | | |
| 3 Shoalhaven City Council | | 281,440 | 286,281 | 289,545 | | 432,546 | 456,966 | 470,883 | 238 | 246 | 266 | 274 | 403 | 419 | 434 | 427 | 642 | 600 | 700 | 701 | | 9155 | 1701 | 15,962 | | 20,021 | 21,212 | 26,379 | | | | |
| 4 Rous Water | | 308,562 | 316,043 | 310,148 | | | | | | | | | | | | | | | | | | 16481 | 3760 | 4,993 | | | | | | | | |
| 5 MidCoast Water | | 259,957 | 296,643 | 326,096 | | 393,492 | 427,448 | 437,452 | 281 | 344 | 292 | 316 | 454 | 433 | 425 | 416 | 735 | 731 | 716 | 732 | | 35314 | 37346 | 31,712 | | 24,587 | 23,522 | 9,636 | | | | |
| 6 Tweed Shire Council | | 338,801 | 342,740 | 420,347 | | 451,855 | 454,127 | 458,345 | 315 | 303 | 310 | 356 | 363 | 392 | 423 | 451 | 679 | 667 | 733 | 807 | | 8862 | 52533 | 81,396 | | 54,443 | 13,337 | 10,699 | | | | |
| 7 Port Macquarie Hastings Council | | 335,985 | 348,354 | 356,333 | | 179,883 | 205,511 | 221,201 | 308 | 252 | 257 | 308 | 375 | 397 | 357 | 367 | 683 | 613 | 614 | 675 | | 3672 | 4043 | 3,794 | | 10,112 | 26,874 | 17,074 | | | | |
| 8 Riverina Water | | 136,485 | 144,122 | 147,896 | | | | | 302 | 301 | 311 | 315 | | | | | 302 | 301 | 311 | 315 | | 8774 | 8857 | 6,660 | | | | | | | | |
| 10 Coffs Harbour City Council | | 192,169 | 295,363 | 315,649 | | 260,582 | 298,375 | 310,315 | 248 | 250 | 283 | 300 | 423 | 441 | 439 | 485 | 671 | 666 | 722 | 785 | | 25180 | 32512 | 6,280 | | 47,825 | 34,819 | 13,230 | | | | |
| 11 Albury City Council | | 180,156 | 187,189 | 188,849 | | 142,000 | 157,832 | 161,771 | 249 | 285 | 276 | 269 | 360 | 337 | 260 | 386 | 610 | 598 | 536 | 654 | | 4037 | 4207 | 0 | | 4,432 | 5,025 | 0 | | | | |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | | 152,295 | 155,993 | 162,447 | | 98,447 | 101,886 | 104,536 | 371 | 351 | 405 | 451 | 351 | 284 | 283 | 333 | 722 | 608 | 688 | 784 | | 10574 | 6585 | 4,016 | | 5,580 | 20,864 | 48,261 | | | | |
| 14 Clarence Valley Council | | 212,489 | 217,785 | 223,373 | | 60,367 | 116,305 | 116,865 | 268 | 257 | 297 | 313 | 375 | 376 | 365 | 360 | 644 | 513 | 662 | 673 | | 54571 | 9004 | 2,848 | | 7,503 | 43,513 | 23,119 | | | | |
| 15 Eurobodalla Shire Council | | 142,979 | 178,006 | 191,641 | | 153,689 | 162,743 | 167,833 | 359 | 344 | 319 | 336 | 430 | 465 | 412 | 445 | 789 | 771 | 731 | 781 | | 18196 | 14646 | 17,715 | | 4,492 | 4,111 | 6,359 | | | | |
| 16 Wingecarribee Shire Council | | 95,713 | 163,821 | 173,502 | | 120,544 | 184,798 | 206,219 | 272 | 308 | 304 | 308 | 355 | 342 | 330 | 367 | 627 | 579 | 634 | 676 | | 3799 | 8997 | 2,782 | | 4,011 | 11,551 | 13,266 | | | | |
| 17 Queanbeyan City Council | | 104,499 | 105,159 | 105,934 | | 109,954 | 110,579 | 111,573 | 573 | 368 | 508 | 667 | 248 | 289 | 255 | 366 | 821 | 658 | 763 | 1,033 | | 1342 | 729 | 686 | | 4,850 | 3,337 | 1,012 | | | | |
| 18 Dubbo City Council | | 167,887 | 166,725 | 190,365 | | 134,779 | 136,517 | 157,032 | 484 | 461 | 428 | 451 | 353 | 353 | 379 | 346 | 838 | 795 | 807 | 797 | | 2506 | 1811 | 4,800 | | 1,955 | 4,384 | 2,105 | | | | |
| 19 Orange City Council | | 116,029 | 130,716 | 133,743 | | 91,990 | 105,388 | 107,197 | 327 | 334 | 336 | 281 | 285 | 335 | 303 | 300 | 612 | 646 | 639 | 581 | | 1078 | 5851 | 3,581 | | 679 | 780 | 884 | | | | |
| 21 Bathurst Regional Council | | 121,231 | 125,567 | 128,442 | | 67,705 | 70,374 | 72,302 | 440 | 394 | 399 | 427 | 353 | 334 | 350 | 348 | 793 | 720 | 749 | 775 | | 4232 | 2892 | 1,419 | | 1,840 | 2,730 | 1,718 | | | | |
| 22 Lismore City Council | | 73,777 | 73,889 | 74,983 | | 174,365 | 175,089 | 181,003 | 368 | 398 | 425 | 462 | 361 | 407 | 374 | 392 | 728 | 756 | 799 | 854 | | 3438 | 1153 | 1,513 | | 5,020 | 1,951 | 5,655 | | | | |
| 23 Bega Valley Shire Council | | 96,355 | 100,141 | 104,230 | | 109,710 | 115,872 | 115,569 | 380 | 354 | 380 | 402 | 558 | 606 | 609 | 660 | 936 | 864 | 989 | 1,061 | | 2986 | 3008 | 3,959 | | 21,971 | 8,064 | 956 | | | | |
| 24 Ballina Shire Council | | 81,738 | 82,787 | 83,908 | | 87,401 | 90,823 | 97,823 | 373 | 389 | 447 | 468 | 418 | 481 | 550 | 573 | 791 | 822 | 997 | 1,041 | | 545 | 646 | 392 | | 4,609 | 5,163 | 7,669 | | | | |
| 25 Kempsey Shire Council | | 219,915 | 224,105 | 231,594 | | 104,086 | 112,662 | 119,214 | 302 | 322 | 342 | 372 | 377 | 385 | 390 | 433 | 680 | 602 | 732 | 806 | | 1877 | 2792 | 5,467 | | 2,094 | 8,260 | 5,749 | | | | |
| 26 Country Energy | | | | | | | | | 948 | 844 | 819 | 817 | 255 | 283 | 345 | 253 | 1203 | 1097 | 1164 | 1,071 | | 8779 | 19225 | 26,331 | | 1,598 | 945 | 959 | | | | |
| 27 Byron Shire Council | | 48,637 | 49,229 | 49,695 | | 147,842 | 156,203 | 184,061 | 411 | 435 | 439 | 458 | 563 | 558 | 584 | 584 | 974 | 965 | 1023 | 1,042 | | 1532 | 419 | 247 | | 6,337 | 8,089 | 28,121 | | | | |
| 28A Goldenfields Water (Reticulation) | | 104,572 | 108,710 | 110,209 | | | | | | | | | | | | | | | | | | 2584 | 1370 | 1,160 | | | | | | | | |
| 28B Goldenfields Water (Bulk Supply) | | | | 108,682 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 Goulburn Mulwaree Council | | | 140,197 | | | | 86,492 | | | | 383 | | | | 382 | | | | | | | | | | | | | | | | | |
| 9 Wagga Wagga Council | | | | | | 211627 | 219,005 | | | | | | 230 | 267 | 276 | 251 | 230 | 267 | 276 | 251 | | | | | | 4,701 | 14,393 | 31,544 | 11,409 | | | |
| NMU Range Max | 424,985 | 455,081 | 463,393 | 523,975 | 360,790 | 451,855 | 456,966 | 470,883 | 948 | 844 | 819 | 817 | 563 | 606 | 609 | 660 | 1,203 | 1,097 | 1,164 | 1,071 | | 30,936 | 54,571 | 52,533 | 81,396 | 4,701 | 54,443 | 43,513 | 48,261 | | | |
| NMU Range Min | 424,985 | 48,637 | 49,229 | 49,695 | 360,790 | 60,367 | 70,374 | 72,302 | 238 | 246 | 257 | 269 | 230 | 267 | 255 | 251 | 230 | 267 | 276 | 251 | | 30,936 | 545 | 419 | 0 | 4,305 | 679 | 780 | 0 | | | |
| Median of NMU Indicators shown in Table | 424,985 | 160,091 | 172,366 | 181,176 | 360,790 | 142,000 | 160,288 | 167,833 | 338 | 334 | 339 | 372 | 361 | 376 | 365 | 375 | 681 | 652 | 716 | 770 | | 30,936 | 4,232 | 4,207 | 4,016 | 4,503 | 5,020 | 8,089 | 8,653 | | | |

| WATER UTILITY | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------|-----------|-----------|-----------|------------|---------|---------|---------|------------|---------|---------|---------|---------------|---------|---------|---------|--------------------------|---------|---------|---------|-----------------------|---------|---------|---------|--------------------|---------|---------|---------|
| | WS + SGE | | | | WS | | | | SGE | | | | WS + SGE | | | | | | | | | | | | | | | |
| | Capital Expenditure WS + Sge | | | | ERRR WS | | | | ERRR Sge | | | | ERRR WS & Sge | | | | Dividend Paid or Payable | | | | Dividend Payout Ratio | | | | Net Debt to Equity | | | |
| | F16 (\$'000) | | | | F17 (%) | | | | F18 (%) | | | | F19 (%) | | | | F20 (\$'000) | | | | F21 (%) | | | | F22 (%) | | | |
| | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2006/07 | 2007/08 | 2008/09 | 2009/10 |
| Sydney Water Corporation | 693,315 | 1,430,000 | 1,890,000 | 1,260,000 | 1.9 | -0.5 | 1.7 | 2.3 | 1.9 | 1.2 | 0.9 | 1.7 | 1.9 | 0.7 | 1.2 | 1.9 | 152,740 | 200,450 | 209,715 | 232,000 | 41.7 | 105.3 | 115.5 | 52.0 | 45 | 62 | 103 | 120 |
| Hunter Water Corporation | 114,639 | 85,533 | 142,375 | 159,935 | 3.5 | 2.0 | 2.5 | 3.7 | 1.5 | 2.3 | 2.0 | 1.8 | 2.3 | 2.2 | 2.2 | 2.5 | 38,294 | 36,503 | 31,099 | 34,100 | 59 | 96 | 69 | 76 | 23 | 30 | 32 | 39 |
| Sydney Catchment Authority | | | 81,591 | 54,357 | | | | | | | | | | | | | 18,090 | 6,503 | 27,433 | 31,211 | 90 | 75 | 75 | 75 | | | | |
| 1 Gosford City Council | 35,242 | 38,943 | 35,641 | 58,348 | -0.4 | -0.3 | 0.3 | 0.1 | 1.4 | 1.3 | 1.1 | 2.1 | 0.4 | 0.4 | 0.6 | 1.0 | 1,033 | 1,842 | 1,733 | 3,849 | 24 | 437 | 115 | 180 | -2 | -1 | 1 | 3 |
| 2 Wyong Shire Council | 57,773 | 20,010 | 20,052 | 61,586 | 3.2 | 0.0 | -0.6 | 1.6 | 1.4 | -1.2 | -1.6 | -1.0 | 2.3 | -0.5 | -1.0 | 0.5 | 0 | 0 | 0 | 0 | | | 0 | 0 | 6 | 8 | 10 | 11 |
| 3 Shoalhaven City Council | 45,326 | 29,176 | 22,913 | 42,341 | 0.6 | -0.3 | -0.3 | 0.4 | 2.2 | 1.6 | 1.3 | 1.6 | 1.5 | 0.9 | 0.7 | 1.1 | 2,793 | 2,329 | 1,200 | 940 | 14 | 67 | -409 | 13 | 1 | 1 | 4 | 3 |
| 4 Rous Water | 35,451 | 16,481 | 3,760 | 4,993 | 0.3 | -0.2 | -0.4 | -0.4 | | | | | | | | | 0 | 0 | 0 | 0 | | | 0 | 0 | | 10 | 11 | 10 |
| 5 MidCoast Water | 48,221 | 59,901 | 60,868 | 41,348 | 2.4 | 0.2 | 0.8 | 3.5 | 1.2 | -0.1 | -0.2 | 0.3 | 1.6 | 0.0 | 0.2 | 1.7 | 0 | 0 | 0 | 0 | | | 0 | 0 | 9 | 16 | 25 | 30 |
| 6 Tweed Shire Council | 56,971 | 68,084 | 65,870 | 92,095 | 1.4 | 1.3 | 0.2 | 0.4 | 0.2 | 1.0 | -0.2 | -0.3 | 0.7 | 1.1 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | | | 0 | 0 | -6 | -6 | 1 | 2 |
| 7 Port Macquarie Hastings Council | 31,715 | 13,785 | 30,917 | 20,868 | 1.1 | 0.7 | 1.7 | 1.9 | 0.1 | 0.3 | 2.1 | 1.4 | 0.8 | 0.6 | 1.9 | 1.7 | 822 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | -5 | -3 | 2 | 0 |
| 8 Riverina Water | 9,235 | 8,774 | 8,857 | 6,660 | 5.1 | 3.4 | 3.4 | 3.4 | | | | | | | | | 0 | 0 | 0 | 0 | | | 0 | 0 | | -7 | 0 | -5 |
| 10 Coffs Harbour City Council | 23,092 | 73,005 | 67,331 | 19,510 | 2.9 | 3.9 | 1.7 | 6.3 | 3.0 | 3.1 | 2.1 | 2.6 | 3.0 | 3.4 | 1.9 | 4.5 | 0 | 0 | 0 | 0 | | | 0 | 0 | -4 | 13 | 26 | 24 |
| 11 Albury City Council | 5,092 | 8,470 | 9,232 | 0 | -0.3 | -1.6 | -1.6 | -1.0 | 0.1 | 1.3 | 2.1 | 2.1 | -0.1 | -0.4 | 0.1 | 0.4 | 0 | 0 | 0 | 0 | | | 0 | 0 | 2 | 3 | 4 | 4 |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | 7,999 | 16,154 | 27,449 | 52,277 | 2.7 | 3.0 | 2.1 | 1.7 | 6.4 | 6.9 | 7.8 | 6.5 | 4.2 | 4.6 | 4.7 | 4.2 | 1,147 | 1,106 | 1,075 | 1,059 | 15 | 9 | 6 | 6 | -18 | -12 | -9 | -1 |
| 14 Clarence Valley Council | 52,185 | 62,074 | 52,518 | 25,967 | 9.8 | 9.9 | 1.7 | 0.7 | 5.4 | 3.6 | 1.2 | 1.7 | 8.7 | 8.4 | 1.5 | 1.0 | 0 | 0 | 0 | 0 | | | 0 | 0 | -8 | -1 | 6 | 8 |
| 15 Eurobodalla Shire Council | 8,449 | 22,688 | 18,758 | 24,074 | 1.5 | 2.4 | 2.3 | 2.3 | 1.2 | 1.0 | 1.6 | 1.8 | 1.4 | 2.0 | 1.9 | 2.0 | 359 | 0 | 0 | 345 | 12 | 0 | 0 | 4 | -2 | 2 | 0 | 2 |
| 16 Wingecarribee Shire Council | 6,171 | 7,810 | 20,548 | 16,048 | 3.8 | 0.4 | 0.0 | 0.6 | 2.7 | 2.2 | 1.0 | 0.9 | 3.2 | 1.4 | 0.5 | 0.8 | 0 | 0 | 0 | 0 | | | 0 | 0 | -7 | -6 | -2 | 1 |
| 17 Queanbeyan City Council | 2,218 | 6,192 | 4,066 | 1,698 | 0.6 | 2.2 | -0.7 | -1.2 | 0.0 | 0.1 | -1.0 | -2.3 | 0.3 | 1.1 | -0.9 | -1.8 | 0 | 0 | 0 | 0 | | | 0 | 0 | -14 | -16 | -16 | -15 |
| 18 Dubbo City Council | 8,188 | 4,461 | 6,194 | 6,905 | 1.1 | -0.3 | 0.2 | 0.6 | 1.4 | 1.7 | 1.4 | 1.7 | 1.3 | 0.6 | 0.7 | 1.1 | 0 | 0 | 0 | 0 | | | 0 | 0 | 4 | 3 | 3 | 3 |
| 19 Orange City Council | 8,296 | 1,758 | 6,630 | 4,465 | 4.6 | 1.0 | 2.5 | 0.6 | 1.0 | 3.3 | 5.8 | -0.4 | 3.0 | 2.0 | 4.0 | 0.1 | 0 | 0 | 0 | 0 | | | 0 | 0 | -11 | -12 | -11 | -11 |
| 21 Bathurst Regional Council | 23,265 | 6,072 | 5,622 | 3,137 | 0.5 | 1.1 | 1.9 | 1.4 | 1.2 | 1.3 | 2.2 | 1.1 | 0.8 | 1.1 | 2.0 | 1.3 | 0 | 0 | 0 | 0 | | | 0 | 0 | -9 | -9 | -10 | -11 |
| 22 Lismore City Council | 4,916 | 8,458 | 3,104 | 7,168 | 0.6 | -1.6 | -1.7 | -0.8 | 0.9 | -0.9 | -1.3 | -1.3 | 0.8 | -1.1 | -1.5 | -1.1 | 225 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | -6 | -4 | -4 | -5 |
| 23 Bega Valley Shire Council | 23,411 | 24,957 | 11,072 | 4,915 | -0.3 | 1.6 | 1.5 | 1.9 | 0.6 | 2.1 | 1.5 | 1.9 | 0.3 | 1.8 | 1.5 | 1.9 | 0 | 0 | 0 | 0 | | | 0 | 0 | -3 | 0 | 0 | -4 |
| 24 Ballina Shire Council | 4,776 | 5,155 | 5,809 | 8,061 | 0.1 | -1.2 | -2.4 | -1.3 | 1.1 | -0.7 | -2.3 | -0.3 | 0.6 | -1.0 | -2.3 | -0.8 | 382 | 253 | 0 | 0 | 15 | 130 | 0 | 0 | -13 | -13 | -11 | -10 |
| 25 Kempsey Shire Council | 4,097 | 3,971 | 11,052 | 11,216 | 1.1 | -0.4 | -0.5 | -0.4 | 1.6 | 0.5 | 0.4 | 0.6 | 1.2 | -0.1 | -0.2 | 0.0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 3 | 2 | 4 | 6 |
| 26 Country Energy | 7,374 | 10,377 | 20,171 | 27,290 | | | | | | | | | | | | | 0 | 0 | 0 | 0 | | | 0 | 0 | | 0 | 0 | 0 |
| 27 Byron Shire Council | 6,439 | 7,868 | 8,508 | 28,368 | 0.2 | -1.3 | 0.2 | 1.3 | 1.9 | 1.3 | 1.4 | 1.5 | 1.1 | 0.7 | 1.1 | 1.4 | 0 | 0 | 0 | 0 | | | 0 | 0 | 2 | 4 | 6 | 18 |
| 28A Goldenfields Water (Reticulation) | 6,654 | 2,584 | 1,370 | 1,160 | -0.3 | -1.3 | -0.9 | -1.1 | | | | | | | | | 0 | 0 | 0 | 0 | | | 0 | 0 | | -9 | 0 | -9 |
| 28B Goldenfields Water (Bulk Supply) | | | | | 0.4 | -0.5 | -0.8 | -0.4 | | | | | | | | | | 0 | 0 | 0 | | | 0 | 0 | | -9 | 0 | -8 |
| 20 Goulburn Mulwaree Council | | | 5,917 | | | | | 0.1 | | | | 3.6 | | | | 1.5 | | | 0 | | | | 0 | | | | | 5 |
| 9 Wagga Wagga Council | 4,701 | 14,393 | 31,544 | 11,409 | | | | | 3.6 | 0.0 | 1.0 | 1.3 | | | | | 0 | 0 | 0 | 0 | | | 0 | 0 | | -9 | 4 | 5 |
| NMU Range Max | 57,773 | 73,005 | 67,331 | 92,095 | 10 | 10 | 3 | 6 | 6.4 | 6.9 | 7.8 | 6.5 | 8.7 | 8.4 | 4.7 | 4.5 | 2,793 | 2,329 | 1,733 | 3,849 | 31 | 437 | 115 | 180 | 9 | 16 | 26 | 30 |
| NMU Range Min | 2,218 | 1,758 | 1,370 | 0 | 0 | -2 | -2 | -1 | 0.0 | -1.2 | -2.3 | -2.3 | -0.1 | -1.1 | -2.3 | -1.8 | 0 | 0 | 0 | 0 | 9 | 0 | -409 | 0 | -18 | -16 | -16 | -15 |
| Median of NMU Indicators shown in Table | 8,372 | 12,081 | 14,915 | 11,409 | 1 | 0 | 0 | 1 | 1.3 | 1.3 | 1.2 | 1.4 | 1.2 | 0.9 | 0.7 | 1.1 | 0 | 0 | 0 | 0 | 15 | 4 | 0 | 0 | -4 | -1 | 1 | 2 |

| WATER UTILITY | FINANCIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|------|------|---------------------------------|----------------------|---------|---------|---------------------------------|--------|--------|---------|---------------------------------|-------------------------|-------|-------|---------------------------------|--------------------------|-------|-------|---------------------------------|----------------------------------|-------|-------|---------------------------------|------------------------------|-------|-------|---------------------------------|------------|-------|--|--|
| | WS + SGE | | | | | | | | WS | | | | SGE | | | | WS | | | | SGE | | | | WS & Sge | | | | | | | |
| | Interest Cover | | | | Net Profit after Tax | | | | CSO | | | | Capital Works Grants WS | | | | Capital Works Grants SGE | | | | Water Supply Capital Expenditure | | | | Sewerage Capital Expenditure | | | | NPAT Ratio | | | |
| | F23 | | | | F24 | | | | F25 | | | | F26 | | | | F27 | | | | F28 | | | | F29 | | | | F30 | | | |
| | | | | (\$'000) | | | | (\$'000) | | | | (\$'000) | | | | (\$'000) | | | | (\$/property) | | | | (\$/property) | | | | | | | | |
| | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | 2006/07 2007/08 2008/09 2009/10 | | | | |
| Sydney Water Corporation | 2.4 | 0.9 | 1.5 | 3.2 | 366,552 | 190,428 | 181,584 | 445,854 | 97,837 | 96,316 | 115,329 | 130,607 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 | 553 | 847 | 452 | 265 | 277 | 237 | 264 | 10 | 21 | | |
| Hunter Water Corporation | 5.9 | 3.2 | 3.0 | 2.4 | 64,600 | 38,017 | 45,271 | 44,974 | 9,811 | 9,451 | 9,491 | 11,328 | 0 | 0 | 0 | 0 | 0 | 2,771 | 0 | 0 | 310 | 180 | 313 | 238 | 232 | 219 | 345 | 499 | 22 | 19 | | |
| Sydney Catchment Authority | | | | | 23,797 | 4,938 | 40,073 | 43,030 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Gosford City Council | >100 | 2 | >100 | 2 | 4,366 | 422 | 1,511 | 2,134 | 1132 | 1176 | 1189 | 591 | 221 | 859 | 1505 | 15,829 | 0 | 2144 | 1853 | 1,061 | 448 | 333 | 285 | 593 | 63 | 230 | 229 | 243 | 3 | 3.1 | | |
| 2 Wyong Shire Council | 22 | 0 | 0 | 1 | -6,296 | -26,608 | -17,935 | -4,915 | 1412 | 1378 | 1299 | 677 | 2801 | 741 | 328 | 12,835 | 0 | 42 | 0 | 1 | 0 | 272 | 267 | 862 | 68 | 71 | 170 | | -31 | -6.5 | | |
| 3 Shoalhaven City Council | >100 | 3 | 1 | 9 | 19,599 | 3,741 | -294 | 7,322 | 906 | 924 | 946 | 974 | 0 | 0 | 4 | 75 | 11591 | 9219 | 4620 | 5,043 | 0 | 203 | 37 | 348 | 513 | 538 | 651 | | -1 | 14.0 | | |
| 4 Rous Water | >100 | 0 | 0 | 0 | 1,104 | -11,763 | -5,361 | -6,293 | 12 | 11 | 7 | 12 | 0 | 0 | 0 | 1,779 | | | | | 0 | 0 | 0 | | | | | | -39 | -42.3 | | |
| 5 MidCoast Water | >100 | 0 | 0 | 1 | 11,673 | -20,002 | -15,356 | 1,862 | 1039 | 1004 | 844 | 875 | 2673 | 2161 | 3196 | 734 | 0 | 0 | 1459 | 219 | 0 | 981 | 1030 | 873 | 768 | 722 | 293 | | -33 | 3.4 | | |
| 6 Tweed Shire Council | >100 | >100 | 0 | >100 | 8,429 | 6,901 | -4,054 | -1,809 | 786 | 752 | 735 | 727 | 0 | 0 | 0 | 0 | 144 | 0 | 109 | 0 | 0 | 286 | 1659 | 2,611 | 1877 | 449 | 363 | | -9 | -4.1 | | |
| 7 Port Macquarie Hastings Council | >100 | 0 | 1 | >100 | 2,645 | -3,142 | -7,331 | 10,204 | 751 | 692 | 695 | 538 | 153 | 0 | 0 | 623 | 2 | 6 | 5 | 0 | 0 | 127 | 135 | 131 | 389 | 988 | 647 | | -18 | 23.7 | | |
| 8 Riverina Water | 6 | >100 | >100 | >100 | 3,499 | 4,812 | 4,031 | 2,545 | 219 | 197 | 194 | 192 | 0 | 0 | 0 | 11 | | | | | 0 | 313 | 313 | 233 | | | | | 22 | 13.7 | | |
| 10 Coffs Harbour City Council | >100 | 1 | 1 | 4 | 14,155 | 4,636 | -5,557 | 19,862 | 493 | 497 | 461 | 476 | 0 | 0 | 587 | 0 | 1622 | 5556 | 4229 | 622 | 0 | 1049 | 1365 | 261 | 2174 | 1550 | 583 | | -15 | 35.2 | | |
| 11 Albury City Council | 31 | 0 | 0 | 4 | -4,596 | -2,332 | -1,044 | 1,008 | 361 | 302 | 301 | 303 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 | 189 | 0 | 222 | 244 | 0 | | -5 | 4.2 | | |
| 12 Fish River Water Supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 Tamworth Regional Council | >100 | >100 | >100 | >100 | 7,620 | 12,680 | 16,757 | 16,991 | 392 | 391 | 389 | 380 | 464 | 993 | 228 | 121 | 49 | 0 | 0 | 0 | 0 | 529 | 324 | 195 | 310 | 1135 | 2,595 | | 49 | 46.0 | | |
| 14 Clarence Valley Council | >100 | 17 | 2 | 1 | 29,628 | 23,318 | 2,117 | 1,294 | 423 | 437 | 433 | 421 | 6690 | 6027 | 361 | 674 | 0 | 1336 | 9492 | 2,893 | 0 | 2599 | 433 | 136 | 536 | 3037 | 1,606 | | 8 | 5.4 | | |
| 15 Eurobodalla Shire Council | >100 | >100 | 12 | >100 | 3,091 | 3,078 | 4,126 | 9,286 | 392 | 384 | 382 | 381 | 914 | 4780 | 7826 | 2,186 | 0 | 0 | 3396 | 0 | 0 | 958 | 763 | 915 | 264 | 234 | 359 | | 16 | 33.0 | | |
| 16 Wingecarribee Shire Council | >100 | >100 | >100 | 5 | 5,090 | 782 | 432 | -585 | 293 | 280 | 377 | 300 | 0 | 0 | 0 | 0 | 385 | 774 | 3412 | 3,133 | 0 | 211 | 500 | 153 | 287 | 809 | 916 | | 2 | -2.7 | | |
| 17 Queanbeyan City Council | >100 | >100 | 0 | 0 | 2,610 | 4,135 | -1,992 | -2,533 | 175 | 164 | 160 | 201 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 46 | 43 | 304 | 208 | 63 | | -13 | -14.1 | | |
| 18 Dubbo City Council | 31 | 2 | 2 | 29 | 3,166 | 516 | 99 | 3,281 | 203 | 191 | 184 | 178 | 142 | 13 | 5 | 5 | 7 | 3 | 1 | 0 | 0 | 157 | 112 | 285 | 130 | 294 | 137 | | 1 | 15.8 | | |
| 19 Orange City Council | >100 | 42 | >100 | >100 | 6,402 | 1,101 | 7,612 | -1,321 | 253 | 253 | 250 | 246 | 768 | 211 | 2846 | 2,950 | 0 | 0 | 0 | 0 | 0 | 67 | 363 | 222 | 45 | 52 | 57 | | 28 | -7.7 | | |
| 21 Bathurst Regional Council | >100 | >100 | >100 | >100 | 1,564 | 3,231 | 5,039 | 2,514 | 205 | 202 | 204 | 202 | 239 | 16 | 31 | 32 | 0 | 0 | 0 | 26 | 0 | 282 | 194 | 97 | 131 | 188 | 116 | | 27 | 13.4 | | |
| 22 Lismore City Council | >100 | 0 | 0 | 0 | 2,592 | -4,126 | -4,933 | -236 | 238 | 245 | 292 | 248 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 246 | 83 | 108 | 418 | 159 | 456 | | -33 | -1.4 | | |
| 23 Bega Valley Shire Council | >100 | >100 | 8 | 10 | 9,732 | 4,144 | 2,832 | 3,803 | 249 | 257 | 258 | 254 | 17 | 19 | 438 | 2,876 | 10211 | 8227 | 3879 | 0 | 0 | 213 | 214 | 282 | 1831 | 680 | 80 | | 13 | 16.2 | | |
| 24 Ballina Shire Council | >100 | 0 | 0 | 0 | 2,517 | 195 | -3,088 | 2,591 | 332 | 291 | 291 | 295 | 0 | 0 | 0 | 0 | 12 | 49 | 0 | 0 | 0 | 39 | 46 | 27 | 355 | 406 | 586 | | -21 | 14.2 | | |
| 25 Kempsey Shire Council | 7 | 0 | 0 | 0 | 1,502 | -1,975 | -3,325 | -2,686 | 129 | 254 | 247 | 250 | 0 | 0 | 44 | 504 | 0 | 6 | 0 | 35 | 0 | 156 | 227 | 441 | 233 | 920 | 637 | | -25 | -18.5 | | |
| 26 Country Energy | >100 | >100 | >100 | >100 | -59 | 0 | 1,343 | 2,958 | 312 | 300 | 279 | 266 | 0 | 0 | 0 | 184 | 0 | 0 | 0 | 0 | 0 | 798 | 1839 | 2,514 | 160 | 97 | 99 | | 8 | 16.8 | | |
| 27 Byron Shire Council | >100 | 0 | 1 | 2 | 1,716 | -548 | -1,168 | -1,086 | 166 | 157 | 152 | 149 | 49 | 0 | 0 | 0 | 43 | 332 | 785 | 1,789 | 0 | 139 | 39 | 23 | 634 | 821 | 2,775 | | -7 | -5.8 | | |
| 28A Goldenfields Water (Reticulation) | >100 | 0 | 0 | 0 | 1,441 | -23 | -188 | -725 | 106 | 101 | 98 | 97 | 36 | 8 | 0 | 0 | | | | | 0 | 235 | 137 | 116 | | | | | -3 | -11.4 | | |
| 28B Goldenfields Water (Bulk Supply) | | | | | | | | -9 | | | | 0 | | | | 0 | | | | | | | | | | | | | -10 | -0.1 | | |
| 20 Goulburn Mulwaree Council | | | | 7 | | | | 3,094 | | | | 176 | | | | 1,000 | | | | 0 | | | | 417 | | | 173 | | 3 | 19.5 | | |
| 9 Wagga Wagga Council | >100 | >100 | 9 | >100 | 5,386 | 2,151 | 1,782 | 417 | 166 | 162 | 157 | 159 | | | | | 0 | 0 | 0 | 0 | | | | | 626 | 1336 | 454 | | 13 | 3.8 | | |
| NMU Range Max | 31 | >100 | >100 | | 29,628 | 23,318 | 16,757 | 19,862 | 1,412 | 1,378 | 1,299 | 974 | 6,690 | 6,027 | 7,826 | 15,829 | 11,591 | 9,219 | 9,492 | 5,043 | 448 | 2,599 | 1,839 | 2,611 | 63 | 2,174 | 3,037 | 2,775 | 49 | 46 | | |
| NMU Range Min | 6 | 0 | 0 | 0 | -6,296 | -26,608 | -17,935 | -6,293 | 12 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 45 | 52 | 0 | -39 | -42 | | |
| Median of NMU Indicators shown in Table | 22 | >100 | >100 | 1 | 3,128 | 649 | -241 | 1,578 | 303 | 285 | 291 | 260 | 17 | 0 | 4 | 75 | 0 | 3 | 1 | 0 | 0 | 235 | 227 | 233 | 63 | 310 | 449 | 361 | -2 | 4 | | |

Appendix G: Greenhouse Gas Calculator

Overview

Greenhouse gases are produced from the use of fossil fuel in a water utility's operations, including transport and office accommodation, and are also produced from the chemical reactions resulting from the processing of sewage in a sewage treatment works. The mass of greenhouse gases can be calculated by applying appropriate conversion factors to the quantities of fuel consumed and by using appropriate formulae to calculate emissions from sewage treatment works.

The Federal Government provides guidance in the calculation of emissions and has published supporting information including tables of conversion factors and formula for the calculation of emissions from sewage treatment works (see Federal Department of Climate Change and Energy Efficiency). However, the calculation of emissions is relatively complex and, for sewage treatment works, requires the measurement or estimation of a number of factors. It requires the utility to assess the relevance and suitability of the appropriate factors and to apply these factors to its situation.

In order to assist NSW utilities in estimating the greenhouse gas emissions resulting from their water and sewerage operations, the NSW Office of Water has developed this greenhouse gas calculator for use by utilities. This will simplify and standardise the process. The calculator is a spreadsheet based on the Federal Government factors and also includes some simplifying assumptions for sewage treatment. Utilities should review whether these assumptions are appropriate for their situation. Where a utility has specific data or different circumstances, the calculator may not apply.

To calculate greenhouse gas emissions, utilities should follow steps A to D in the Instructions worksheet (see pink tab **Instructions**). These steps comprise:

- A** Emissions from water and sewerage operations - excluding STWs
- B** Emissions from Sewage Treatment Works (STWs)
- C** Carbon Offsets
- D** Total Emissions

Calculation of emissions for an example utility is shown at the green tab **Example**.

Instructions

Calculate the emissions from your water and sewerage operations and also from your sewage treatment works by following steps A to D below¹.

An example has been provided for an example utility showing the procedure for calculation of emissions (see green tab **Example**).

A. Emissions from Water and Sewerage Operations - excluding Sewage Treatment Works (STWs)

To calculate emissions from water and sewerage operations, go to orange tab **Emissions**.

Collect the relevant data (quantities of each fuel combusted including electricity) for your water, sewerage and other operations.

Insert the quantities of each fuel in the appropriate blue shaded cells.

¹ Examples of common emission sources are shown at yellow tab **Emission Source Examples**

B. Emissions from Sewage Treatment Works (STWs)

To calculate emissions from the sewage treatment works, go to orange tab **STW 1**.

Insert the relevant data in the blue cells for steps 1 to 8 for your STW.

However, if your utility does not have sufficient data to use the tables, you may use the graphs of emissions from typical sewage treatment works provided under orange tab **STW Graphs**.

Repeat as necessary for each of your STWs in tabs **STW 2** to **STW 10**.

Sum the total emissions from each of your STWs (sum step 11 for **STW 1** to **STW 10**).

Insert the sum of total emissions from your STWs into the blue shaded cell for sewage treatment in the orange tab **Emissions**.

C. Carbon Offsets

Go to the orange tab **Emissions**.

Determine your utility's accredited sequestration (usually in the form of tonnes of carbon in tree plantations).

Enter the accredited sequestration in the blue shaded cell for sequestration.

D. Total Emissions

Your utility's total greenhouse gas emissions will be shown at the bottom of orange tab **Emissions**.

Note that the orange tab **Emissions** worksheet is based on Tables 1 to 4 of the Australian Government Department of Climate Change "National Greenhouse Accounts (NGA) Factors" June 2009. The NSW Office of Water will arrange for updating of this worksheet if Tables 1 to 4 are updated or when better information becomes available.

Calculation of Emissions from Water and Sewerage Operations

GUIDANCE FOR ESTIMATING GREENHOUSE GAS EMISSIONS BY NSW WATER UTILITIES

CALCULATION OF EMISSIONS FROM WATER AND SEWERAGE OPERATIONS

Based on Tables 1 to 4 of the NATIONAL GREENHOUSE ACCOUNTS (NGA) FACTORS June 2009

Insert Council Name and Year

Insert Council name and year in cell above

1. Enter the annual quantity of fuel used in water, sewerage or other operations in the appropriate blue cells below.
2. Enter the estimated emissions from sewage treatment works (from orange tab STW 1 to STW 10).
3. Enter the carbon offset (if any) in the cell for sequestration.
4. The TOTAL Emissions (tonnes CO2-e) are shown at the bottom of the table.

| FUEL or PROCESS UTILISED | UNITS | ANNUAL QUANTITY of FUEL USED | | | | GREENHOUSE GAS EMISSIONS | | | |
|---|----------------|---|---|---|------------|--------------------------|--------------------|---------|-----------------|
| | | WATER SUPPLY | SEWERAGE OPERATION | OTHER* | TOTAL USED | WATER SUPPLY | SEWERAGE OPERATION | OTHER* | TOTAL EMISSIONS |
| | | Water source, storage, treatment, transfer and distribution | Sewage collection, storage, treatment and discharge | Transport (vehicles), office buildings, sequestration | | t CO2-e | t CO2-e | t CO2-e | t CO2-e |
| ELECTRICITY PURCHASED FROM GRID (Table 5 of NGA) | | | | | | | | | |
| Enter data into the blue cells only | | | | | | | | | |
| Electricity purchased from NSW or QLD Grid | kWh | | | | | | | | |
| Electricity purchased from Vic Grid | kWh | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| LIQUID FUELS (Transport) (Adapted from Table 4 of NGA) | | | | | | | | | |
| Gasoline for use in an aircraft (AVGAS) | kL | | | | | | | | |
| Kerosene for use in an aircraft (AVTUR) | kL | | | | | | | | |
| Fuel oil (General transport) | kL | | | | | | | | |
| Biodiesel (General transport) | kL | | | | | | | | |
| Gasoline (Vehicles) | kL | | | | | | | | |
| Diesel oil (Vehicles) | kL | | | | | | | | |
| Liquefied petroleum gas (Vehicles) | kL | | | | | | | | |
| Ethanol (Vehicles) | kL | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| LIQUID FUELS (Non Transport) (Adapted from Table 3 of NGA) | | | | | | | | | |
| Petroleum based oils (other than fuel, eg lubricants) | kL | | | | | | | | |
| Gasoline (other than for use in an aircraft) | kL | | | | | | | | |
| Kerosene (other than for use in an aircraft) | kL | | | | | | | | |
| Heating oil | kL | | | | | | | | |
| Diesel oil | kL | | | | | | | | |
| Fuel oil | kL | | | | | | | | |
| Liquefied petroleum gas | kL | | | | | | | | |
| Biodiesel | kL | | | | | | | | |
| Ethanol for use in an internal combustion engine | kL | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| SOLID FUELS (Non Transport) (Adapted from Table 1 of NGA) | | | | | | | | | |
| Black coal | t | | | | | | | | |
| Brown coal | t | | | | | | | | |
| Coking coal | t | | | | | | | | |
| Brown coal briquettes | t | | | | | | | | |
| Industrial materials (eg. tyres) derived from fossil fuels | t | | | | | | | | |
| Municipal materials (non-biomass) | t | | | | | | | | |
| Municipal and industrial materials (Biomass) | t | | | | | | | | |
| Wood (dry) | t | | | | | | | | |
| Wood (Green and air dried) | t | | | | | | | | |
| Bagasse | t | | | | | | | | |
| Charcoal | t | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| NATURAL GAS (Non Transport) (Adapted from Table 2 of NGA) | | | | | | | | | |
| Coal seam methane | m ³ | | | | | | | | |
| Coal mine waste gas | m ³ | | | | | | | | |
| Town gas | m ³ | | | | | | | | |
| Liquefied natural gas | kL | | | | | | | | |
| Landfill or sludge biogas (methane only) | m ³ | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| SEWAGE TREATMENT (from STW spreadsheet) | | | | | | | | | |
| Sum of STW 1 to STW 10 or from STW Graphs | t | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | | 0.0 | | 0.0 |
| SEQUESTRATION | | | | | | | | | |
| Carbon Offset | t | | | | | | | | |
| SUBTOTAL | t CO2-e | | | | | | | 0.0 | 0.0 |
| TOTAL EMISSIONS | t CO2-e | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

* OTHER is the estimated water and sewerage component of the fuel used in Councils' office buildings and vehicles and can also include sequestration as an offset (ie. a negative value).

Calculation of Greenhouse Gas Emissions from Sewerage Treatment Works

GUIDANCE FOR ESTIMATING GREENHOUSE GAS EMISSIONS FOR NSW WATER UTILITIES

B. CALCULATION OF GREENHOUSE GAS EMISSIONS FROM SEWAGE TREATMENT WORKS (STWs)

STW 1

Insert STW identifier in blue cell above and enter data in blue cells below (steps 1 to 8). Total emissions are shown at step 11.
If additional STWs are required, see orange worksheets **STW 2** to **STW 10**.

| Step | | Input | Result |
|------|---|---|--|
| 1 | Inflow to STW | Insert volume of sewage entering STW (if known). Else leave blank. OR | <input type="text" value="0"/> ML |
| 2 | Population | Insert actual population served by STW (if known). Else leave blank. (If population unknown, it can be estimated assuming residential sewage is 240 L/c/d.) OR | <input type="text" value="0"/> no. |
| 3 | COD in influent (CODw) | Insert COD in influent (if known). Else leave blank. (If BOD in influent is known, COD can be calculated from BOD x 2.6). If COD or BOD in influent are unknown, COD in influent is estimated from the following approximation. CODw = 0.0585 x population | <input type="text" value="0"/> tonnes |
| 4 | Volatile solids in sludge (VSsl) | Insert estimated volatile solids in sludge (if known). Else leave blank. | <input type="text" value="0"/> tonnes |
| 5 | COD in sludge (CODsl) | CODsl is calculated as VSsl x 1.48 if VSsl is known. If VSsl is unknown, CODsl estimated to be 0.6 x CODw | <input type="text" value="0"/> tonnes |
| 6 | COD in effluent (CODeff) | Insert COD in effluent (if known). Else leave blank. (If BOD in effluent is known, COD can be calculated from BOD x 2.6). If COD or BOD in effluent are unknown, COD in effluent is estimated from the following approximation. CODeff = 0.08 x CODw | <input type="text" value="0"/> tonnes |
| 7 | Fraction sewage/sludge anaerobic | Select Fwan for appropriate type of STW from table below at note (e). Select Fslan for appropriate type of STW from table below at note (e). COD sludge transferred to fill CODtrl = CODsl x (1-Fslan x 0.4). COD sludge transferred not to fill CODtro assumed to be zero | <input type="text" value="0"/> tonnes <input type="text" value="0"/> tonnes |
| 8 | Volume of biogas (Q) | Input volumes of sludge biogas combusted, flared or transferred elsewhere. Methane captured from biogas = 0.0142464 x Q | <input type="text" value="0"/> m3 |
| 9 | Total methane emissions | Total methane emissions | <input type="text" value="0"/> t CO2-e |
| | | Nitrogen entering STW Nin = 0.036 x 0.16 x Population | <input type="text" value="0"/> tonnes |
| | | Nitrogen in sludge transferred to landfill Ntrl = CODtrl / CODw x Nin | <input type="text" value="0"/> tonnes |
| | | Nitrogen in sludge transferred not to landfill Ntro assumed to be zero | <input type="text" value="0"/> tonnes |
| | | Nitrogen in effluent Nout = CODeff / CODw x Nin | <input type="text" value="0"/> tonnes |
| 10 | Total nitrous oxide emissions | Total nitrous oxide emissions | <input type="text" value="0"/> t CO2-e |
| 11 | TOTAL EMISSIONS FROM STW | Methane plus nitrous oxide emissions | <input type="text" value="0"/> t CO2-e |

NOTES:

- Calculation of emissions from STWs requires estimation or measurement of various parameters including BOD or COD for inflow and outflow.
- The greenhouse gas emissions can be calculated using the NGER System Measurement Technical Guidelines June 2009 (NGER Guidelines). The NGER Guidelines are available on the Department of Climate Change and Energy Efficiency website.
- The calculations above include a number of simplifying assumptions which have been based on typical STW operations shown at yellow tab **STW Assumptions**. However, where these assumptions are incorrect, they can be overridden as necessary.
- Graphs have also been prepared based on typical STW operations for different inflows and populations. These are shown at orange tab **STW Graphs**.
- Table of default fractions for different treatment types is shown below. See also yellow tab **STW Assumptions**

| TYPE OF TREATMENT | STW assumed for each type of treatment | Fwan | Fslan |
|-------------------------------|--|------|-------|
| Managed aerobic treatment | Aerated Lagoon AL | 0 | 0 |
| Unmanaged aerobic treatment | Oxidation Pond (<2m deep) A | 0.2 | 0.2 |
| | Trickling Filter / lagoon <2m deep TF | 0.3 | 0.3 |
| | Trickling Filter (digester) TF | 0.3 | 0.8 |
| Unmanaged anaerobic treatment | Anaerobic pond (<2m deep) AN | 0.2 | 0.2 |
| | Anaerobic pond (>2m deep) AN | 0.8 | 0.8 |
| Managed aerobic treatment | Conventional Activated Sludge C | 0 | 0 |
| | Continuous Extended Aeration CEA | 0 | 0 |
| | Intermittent Extended Aeration IEA | 0 | 0 |

Graphs of Emissions from different types of STW

GUIDANCE FOR ESTIMATING GREENHOUSE GAS EMISSIONS FOR NSW WATER UTILITIES

Graphs of Emissions for different types of STW

The greenhouse gas emissions for typical types of treatment are graphed below against population and inflow. The graphs have been developed on the assumption that inflow from residential sewage is 240 L per capita per day and that the types of treatment correspond to the default fractions anaerobic shown in yellow tab **STW Assumptions**. Refer also to the other assumptions shown at yellow tab **STW Assumptions**.

Figure 1. Greenhouse Gases Based on Population

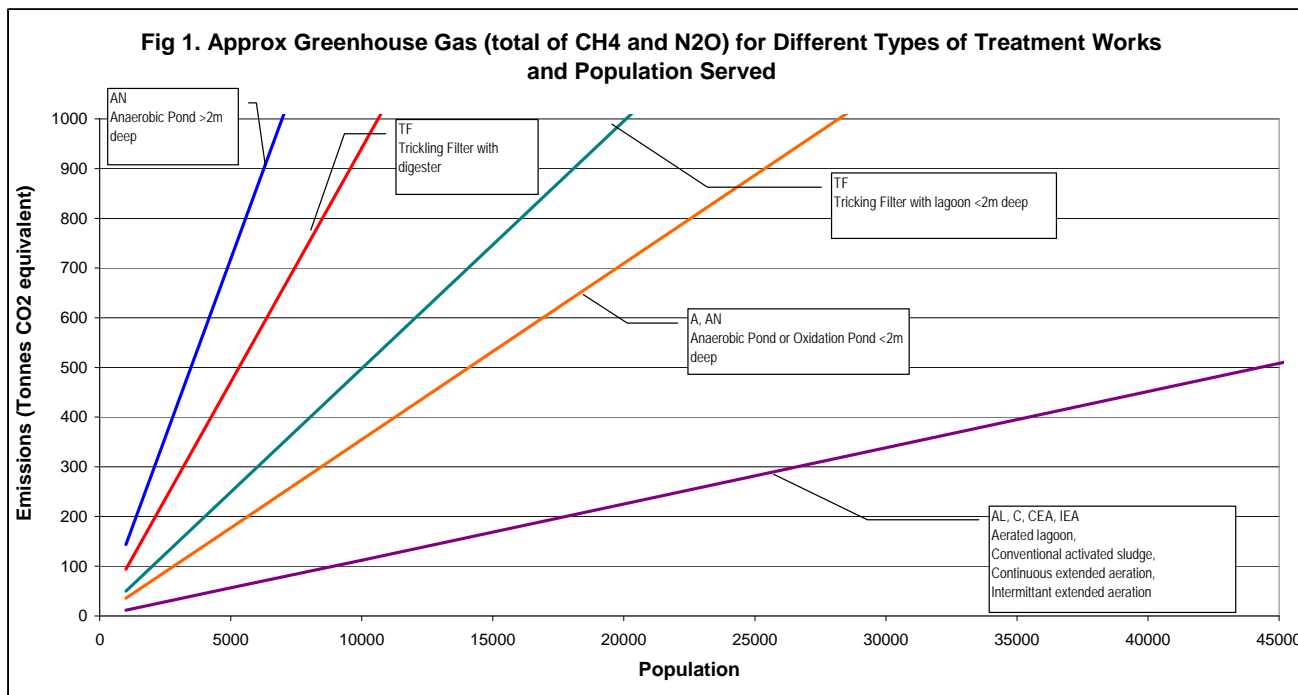
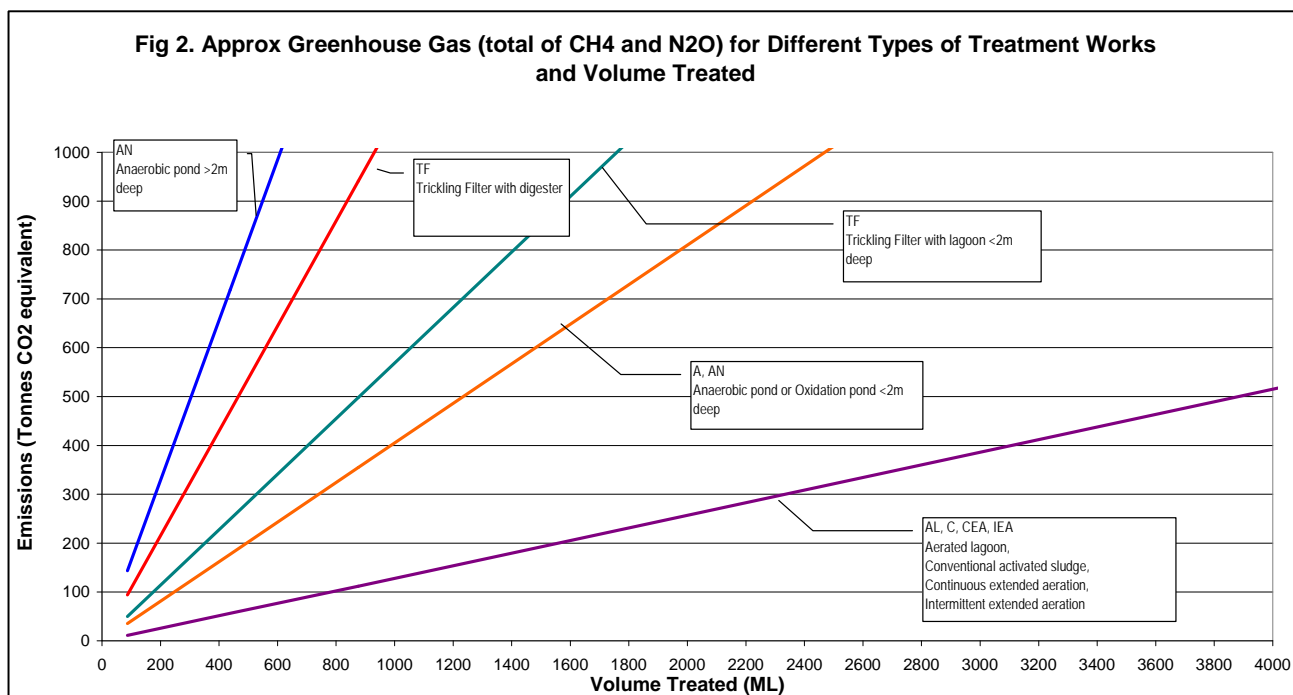


Figure 2. Greenhouse Gases Based on Volume of Inflow



Assumptions Adopted for the Calculation of Emissions from STWs

Assumptions Adopted for the Calculation of Emissions from STWs (orange tabs STW1 to STW10)

The following assumptions have been provided to assist in the calculation of emissions from STWs. Using these assumptions will enable a first approximation of greenhouse gas emissions. Where utilities have measured data or different circumstances, the assumptions below may not apply.

- (a) BOD from domestic sewage is assumed to be 2.25 tonnes per annum per 100 persons
 COD is assumed to be 2.6 times BOD
 $COD = 2.6 \times 2.25 / 100 = 0.0585$ tonnes per capita
 COD in influent to the STW (CODw) is therefore calculated from
 $CODw = 0.0585 \times \text{population}$
- (b) COD removed as sludge (CODsl) is assumed to be typically about 60% of COD entering STW
 $CODsl = 0.6 \times CODw$
 OR
 $CODsl = VSsl \times 1.48$ where VSsl is the estimated volatile solids in the sludge
- (c) COD leaving the STW in effluent (CODEff) is assumed to be
 $CODEff = 0.08 \times CODw$
 unless CODEff is known, in which case the actual value should be inserted
- (d) It is assumed that only 40% of sludge is volatile
 Only the fraction of the volatile sludge that is anaerobic will emit greenhouse gas
 Fslan is the fraction COD in sludge anaerobic (default values given in NGER guidelines for different treatment types - see table below)
 COD remaining in sludge (ie. transferred out either to landfill or other than landfill) can be calculated from
 $COD_{remaining} = CODsl \times (1 - [Fslan \times 0.4])$
 Assume that all transfer of COD remaining in sludge is to landfill (CODtrl) and zero is to other than landfill (CODtro)
 $CODtrl = COD_{remaining} = CODsl \times (1 - [Fslan \times 0.4])$
 $CODtro = 0$
- (e) Where the inflow to the STW is measured but the population served is unknown, the population can be calculated from the assumption that the volume of inflow for residential sewage is 240 L per capita per day.
- (f) Default values for Fwan (fraction sewage COD anaerobic) and Fslan (fraction COD in sludge anaerobic) for each type of treatment are provided in the NGER Guidelines and are shown in the table below
 The STWs assumed to correspond to each type of treatment are also shown in the table below

| TYPE OF TREATMENT | STW assumed for each type of treatment | Fwan | Fslan |
|-------------------------------|---|------|-------|
| Managed aerobic treatment | Aerated Lagoon AL | 0 | 0 |
| Unmanaged aerobic treatment | Oxidation Pond (<2m deep) A | 0.2 | 0.2 |
| | Trickling Filter / lagoon <2m deep TF | 0.3 | 0.3 |
| | Trickling Filter (digester) TF | 0.3 | 0.8 |
| Unmanaged anaerobic treatment | Anaerobic pond (<2m deep) AN | 0.2 | 0.2 |
| | Anaerobic pond (>2m deep) AN | 0.8 | 0.8 |
| Managed aerobic treatment | Conventional Activated Sludge C | 0 | 0 |
| | Continuous Extended Aeration CEA | 0 | 0 |
| | Intermittent Extended Aeration IEA | 0 | 0 |

- (g) The methane captured is calculated using the formula shown in the NGER Guidelines
 $\text{Methane captured} = 0.0142464 \times Q$ in tonnes CO₂-e (where Q is the volume combusted, flared or transferred in m³)
- (h) The methane emissions generated are calculated using the formula shown in the NGER Guidelines
 $CH4_{gen} = (CODw - CODsl - CODEff) \times Fwan \times EFw + (CODsl - CODtrl - CODtro) \times Fslan \times EFsl$ in tonnes CO₂-e
 EFw and EFsl are emission factors of 5.3 as recommended in the NGER Guidelines
 The total methane emissions is the methane generated less the methane captured
 $\text{Total Methane Emissions} = CH4_{gen} - \text{methane captured}$ in tonnes CO₂-e
- (i) Assume Nitrogen entering the plant is
 $Nin = \text{Protein} \times \text{Fracpr} \times \text{Population}$
 where
 Protein = 0.036 (default from NGER Guidelines)
 Fracpr = 0.16 (default from NGER Guidelines)
- (j) Assume Nitrogen in sludge transferred to landfill is in the same proportion as COD in sludge transferred to landfill
 $Ntrl = CODtrl / CODw \times Nin$
 where CODtrl and CODw are from steps 7 and 3 above
 Assume Nitrogen in sludge transferred to other than landfill is zero
- (k) Assume Nitrogen in effluent is in the same proportion as COD in effluent
 $Nout = CODEff / CODw \times Nin$
 where CODEff and CODw are from steps 6 and 3 above
- (l) Nitrous oxide emissions are calculated using the formula shown in the NGER Guidelines
 $N2O = (Nin - Ntrl - Ntro - Nout) \times EF1 + Nout \times EF2$
 where EF1 and EF2 are emission factors with default values of 4.9 tonnes NO₂ measured in CO₂-e per tonne nitrogen produced
- For convenience, based on all of the above assumptions, graphs have been prepared for different types of STWs for different inflows or populations. These graphs are shown at the orange tab **STW Graphs**.

Example Calculation of Emissions from Water and Sewerage Operations

Example Calculation of Emissions from Water and Sewerage Operations

Example Council 2009-10

For an example council, fictitious fuel quantities have been assumed and are shown in the table at right.

These quantities have been entered into the appropriate blue shaded cells in the emissions table below.

The council also has a Trickling Filter STW with lagoon <2m deep.

The STW has no biogas captured or flared.

Inflow to STW is 430ML

It serves about 5,000 people

The total greenhouse gas generated from this STW is shown in the green tab **Example STW** and is 244 t CO₂-e

| Fuel Type | Water | Sewerage | Other |
|----------------------------|------------|------------|------------|
| Electricity | 200000 kwh | 300000 kwh | 100000 kwh |
| Fuel oil | 10 kL | 15 kL | 15 kL |
| Diesel oil | | | 10 kL |
| Ethanol | | | 12 kL |
| Heating oil | | | 5 kL |
| Diesel oil (non transport) | | | 2 kL |
| Fuel oil (non transport) | | | 1 kL |
| Wood (dry) | | | 55 t |
| Town gas | 125 m3 | 335 m3 | 540 m3 |
| Carbon offset | | | 45 t |

This value is entered into the blue shaded cell for sewerage operations emissions below

The total greenhouse gas emissions are shown below as 777t CO₂-e (208t for water supply, 556t for sewerage and 14t for Other).

| FUEL or PROCESS UTILISED | UNITS | ANNUAL QUANTITY USED | | | | GREENHOUSE GAS EMISSIONS (t CO ₂ -equivalent) | | | |
|---|----------------------|---|---|---|------------|--|----------------------|----------------------|----------------------|
| | | WATER SUPPLY OPERATIONS | SEWERAGE OPERATIONS | OTHER* | TOTAL USED | WATER SUPPLY OPERATIONS | SEWERAGE OPERATIONS | OTHER* | TOTAL EMISSIONS |
| | | Water source, storage, treatment, transfer and distribution | Sewage collection, storage, treatment and discharge | Transport (vehicles), office buildings, sequestration | | t CO ₂ -e | t CO ₂ -e | t CO ₂ -e | t CO ₂ -e |
| ELECTRICITY PURCHASED FROM GRID (Table 5 of NGA) | | Enter data into the blue cells only | | | | | | | |
| Electricity purchased from NSW or QLD Grid | kWh | 200,000 | 300,000 | 100,000 | 600,000 | 178.0 | 267.0 | 89.0 | 534.0 |
| Electricity purchased from Vic Grid | kWh | | | | | | | | |
| SUBTOTAL | t CO ₂ -e | | | | | 178.0 | 267.0 | 89.0 | 534.0 |
| LIQUID FUELS (Transport) (Adapted from Table 4 of NGA) | | | | | | | | | |
| Gasoline for use in an aircraft (AVGAS) | kL | | | | | | | | |
| Kerosene for use in an aircraft (AVTUR) | kL | | | | | | | | |
| Fuel oil (General transport) | kL | 10 | 15 | 15 | 40 | 29.2 | 43.8 | 43.8 | 116.8 |
| Biodiesel (General transport) | kL | | | | | | | | |
| Gasoline (Vehicles) | kL | | | | | | | | |
| Diesel oil (Vehicles) | kL | | | 10 | 10 | | | 26.9 | 26.9 |
| Liquefied petroleum gas (Vehicles) | kL | | | | | | | | |
| Ethanol (Vehicles) | kL | | | 12 | 12 | | | 0.1 | 0.1 |
| SUBTOTAL | t CO ₂ -e | | | | | 29.2 | 43.8 | 70.9 | 143.9 |
| LIQUID FUELS (Non Transport) (Adapted from Table 3 of NGA) | | | | | | | | | |
| Petroleum based oils (other than fuel, eg lubricants) | kL | | | | | | | | |
| Gasoline (other than for use in an aircraft) | kL | | | | | | | | |
| Kerosene (other than for use in an aircraft) | kL | | | | | | | | |
| Heating oil | kL | | | 5 | 5 | | | 12.9 | 12.9 |
| Diesel oil | kL | | | 2 | 2 | | | 4.0 | 4.0 |
| Fuel oil | kL | | | | | | | | |
| Liquefied petroleum gas | kL | | | | | | | | |
| Biodiesel | kL | | | | | | | | |
| Ethanol for use in an internal combustion engine | kL | | | | | | | | |
| SUBTOTAL | t CO ₂ -e | | | | | 0.0 | 0.0 | 16.9 | 16.9 |
| SOLID FUELS (Non Transport) (Adapted from Table 1 of NGA) | | | | | | | | | |
| Black coal | t | | | | | | | | |
| Brown coal | t | | | | | | | | |
| Coking coal | t | | | | | | | | |
| Brown coal briquettes | t | | | | | | | | |
| Industrial materials (eg. Tyres) derived from fossil fuels | t | | | | | | | | |
| Municipal materials (non-biomass) | t | | | | | | | | |
| Municipal and industrial materials (Biomass) | t | | | | | | | | |
| Wood (dry) | t | | | 55 | 55 | | | 1.1 | 1.1 |
| Wood (Green and air dried) | t | | | | | | | | |
| Bagasse | t | | | | | | | | |
| Charcoal | t | | | | | | | | |
| SUBTOTAL | t CO ₂ -e | | | | | 0.0 | 0.0 | 1.1 | 1.1 |
| NATURAL GAS (Non Transport) (Adapted from Table 2 of NGA) | | | | | | | | | |
| Coal seam methane | m ³ | | | | | | | | |
| Coal mine waste gas | m ³ | | | | | | | | |
| Town gas | m ³ | 125 | 335 | 540 | 1000 | 0.3 | 0.8 | 1.3 | 2.3 |
| Liquefied natural gas | kL | | | | | | | | |
| Landfill or sludge biogas (methane only) | m ³ | | | | | | | | |
| SUBTOTAL | t CO ₂ -e | | | | | 0.3 | 0.8 | 1.3 | 2.3 |
| SEWAGE TREATMENT (from STW spreadsheet) | | | | | | | | | |
| From emissions calculated in 'STW Example' spreadsheet | t | | | | | | 244.0 | | 244.0 |
| SUBTOTAL | t CO ₂ -e | | | | | | 244.0 | | 244.0 |
| SEQUESTRATION | | | | | | | | | |
| Carbon Offset | t | | | -45 | -45 | | | -165.2 | -165.2 |
| SUBTOTAL | t CO ₂ -e | | | | | | | -165.2 | -165.2 |
| TOTAL EMISSIONS | t CO ₂ -e | | | | | 207.5 | 555.6 | 14.0 | 777.1 |

* OTHER is the estimated water and sewerage component of the fuel used in Councils' office buildings and vehicles and can also include sequestration as an offset (ie. a negative value).

Example Calculation of Greenhouse Gas Emissions from STWs

GUIDANCE FOR ESTIMATING GREENHOUSE GAS EMISSIONS FOR NSW WATER UTILITIES

B. CALCULATION OF GREENHOUSE GAS EMISSIONS FROM SEWAGE TREATMENT WORKS (STWs)

STW 1 **EXAMPLE STW (Trickling Filter with lagoon <2m deep) serving approx 5,000 people (inflow 430ML)**

Insert STW identifier in blue cell above and enter data in blue cells below (steps 1 to 8). Total emissions are shown at step 11.
If additional STWs are required, see orange worksheets STW 2 to STW 10.

| Step | | Input | Result |
|------|----------------------------------|---|--------------------------------------|
| 1 | Inflow to STW | Insert volume of sewage entering STW (if known). Else leave blank. OR | 430 ML |
| 2 | Population | Insert actual population served by STW (if known). Else leave blank. (If population unknown, it can be estimated assuming residential sewage is 240 L/c/d.) OR | 4,909 no. |
| 3 | COD in influent (CODw) | Insert COD in influent (if known). Else leave blank. (If BOD in influent is known, COD can be calculated from BOD x 2.6). If COD or BOD in influent are unknown, COD in influent is estimated from the following approximation. CODw = 0.0585 x population | 287 tonnes |
| 4 | Volatile solids in sludge (VSsl) | Insert estimated volatile solids in sludge (if known). Else leave blank. | tonnes |
| 5 | COD in sludge (CODsl) | CODsl is calculated as VSsl x 1.48 if VSsl is known. If VSsl is unknown, CODsl estimated to be 0.6 x CODw | 172 tonnes |
| 6 | COD in effluent (CODeff) | Insert COD in effluent (if known). Else leave blank. (If BOD in effluent is known, COD can be calculated from BOD x 2.6). If COD or BOD in effluent are unknown, COD in effluent is estimated from the following approximation. CODeff = 0.08 x CODw | 23 tonnes |
| 7 | Fraction sewage/sludge anaerobic | Select Fwan for appropriate type of STW from table below at note (e). Select Fslan for appropriate type of STW from table below at note (e). COD sludge transferred to fill CODtrl = CODsl x (1-Fslan x 0.4). COD sludge transferred not to fill CODtro assumed to be zero | 0.3 0.3 152 tonnes 0 tonnes |
| 8 | Volume of biogas (Q) | Input volumes of sludge biogas combusted, flared or transferred elsewhere. Methane captured from biogas = 0.0142464 x Q | m3 0 t CO2-e |
| 9 | Total methane emissions | Total methane emissions | 179 t CO2-e |
| | | Nitrogen entering STW Nin = 0.036 x 0.16 x Population | 28 tonnes |
| | | Nitrogen in sludge transferred to landfill Ntrl = CODtrl / CODw x Nin | 15 tonnes |
| | | Nitrogen in sludge transferred not to landfill Ntro assumed to be zero | 0 tonnes |
| | | Nitrogen in effluent Nout = CODeff / CODw x Nin | 2.3 tonnes |
| 10 | Total nitrous oxide emissions | Total nitrous oxide emissions | 65 t CO2-e |
| 11 | TOTAL EMISSIONS FROM STW | Methane plus nitrous oxide emissions | 244 t CO2-e |

NOTES:

- Calculation of emissions from STWs requires estimation or measurement of various parameters including BOD or COD for inflow and outflow.
- The greenhouse gas emissions can be calculated using the NGER System Measurement Technical Guidelines June 2009 (NGER Guidelines). The NGER Guidelines are available on the Department of Climate Change and Energy Efficiency website.
- The calculations above include a number of simplifying assumptions which have been based on typical STW operations shown at yellow tab **STW Assumptions**. However, where these assumptions are incorrect, they can be overridden as necessary.
- Graphs have also been prepared based on typical STW operations for different inflows and populations. These are shown at orange tab **STW Graphs**.
- Table of default fractions for different treatment types is shown below. See also yellow tab **STW Assumptions**

| TYPE OF TREATMENT | STW assumed for each type of treatment | Fwan | Fslan |
|-------------------------------|--|------|-------|
| Managed aerobic treatment | Aerated Lagoon | AL | 0 |
| Unmanaged aerobic treatment | Oxidation Pond (<2m deep) | A | 0.2 |
| | Trickling Filter / lagoon <2m deep | TF | 0.3 |
| | Trickling Filter (digester) | TF | 0.3 |
| Unmanaged anaerobic treatment | Anaerobic pond (<2m deep) | AN | 0.2 |
| | Anaerobic pond (>2m deep) | AN | 0.8 |
| Managed aerobic treatment | Conventional Activated Sludge | C | 0 |
| | Continuous Extended Aeration | CEA | 0 |
| | Intermittent Extended Aeration | IEA | 0 |

Examples of Common Emission Sources in Water Supply and Sewerage

| Examples of Common Emission Sources in Water Supply and Sewerage | | | |
|--|---|---|---|
| SOURCE | WATER SUPPLY OPERATIONS | SEWERAGE OPERATIONS | OTHER* |
| ELECTRICITY PURCHASED FROM GRID (Table 5 of NGA) | Electricity used during water sourcing, treatment, distribution and transfer. | Electricity used during sewage collection, storage, treatment and discharge. | Electricity used in office buildings for both Water and Sewerage Operations. |
| LIQUID FUELS (Transport) (Table 4 of NGA) | N/A | N/A | Transport - vehicles owned & used by utility AND registered for road use. |
| LIQUID FUELS (Non Transport) (Table 3 of NGA) | Liquid fuels used for water supply operations other than transport vehicles | Liquid fuels used for sewerage operations other than transport vehicles | Fuels used for heating, hot water, etc in office buildings. Transport - vehicles owned by utility but NOT registered for road use. |
| SOLID FUELS (Non Transport) (Table 1 of NGA) | N/A | N/A | Wood/coins used for heating, etc in office buildings. |
| NATURAL GAS (Non Transport) (Table 2 of NGA) | Natural gas used for water supply operations other than in office buildings | Natural gas used for sewerage operations other than in office buildings | Natural gas used for heating, hot water, etc in office buildings. |
| WASTEWATER TREATMENT | N/A | Emissions from wastewater treatment (methane and nitrous oxide) See instructions sheet | N/A |
| SEQUESTRATION | N/A | N/A | <u>Accredited</u> Carbon offsets e.g. tree plantations |
| EXCLUDED (SCOPE 3) | Disposal of waste generated. Employee business travel. Employees commuting to/from work. Out-sourced activities (transport/vehicles not owned by utility). Transportation of products, materials and waste. | | |

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Note:

Page numbers shown in:

- **black bold** are the main reference to each topic;
- **blue bold** refer to figures comparing the performance of the **NSW utilities**; and
- **red bold** refer to graphs of **Interstate performance comparisons**.

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