

Rules Administrator's Annual Market Rules Review 2010-11

Report to the Minister for Energy and Water Utilities

30 November 2011

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Strategic Governance and Risk
Queensland Water Commission
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1. Introduction

1.1 Background

The Queensland Water Commission (the Commission) is the *rules administrator* for *The Market Rules SEQ Water Market* (the market rules). This *rules administrator's annual market rules review* report for the 2010-11 financial year is structured to align with the requirements specified in the market rules. As per the market rules, the rules administrator's annual market rules review report follows submission of the *water grid manager's annual market rules review* report for 2010-11 to the Commission.

For completeness, the Commission has, on behalf of the Minister, separately undertaken a review into the operation and effectiveness of the market rules as required by section 360ZDC of the *Water Act 2000* (Water Act). This annual report should be read in conjunction with the statutory review.

1.2 SEQ Water Market Rules

The Water Act¹ provides the head of power for the Minister to make rules about the operation of the south-east Queensland (SEQ) water market as a statutory instrument under the *Statutory Instruments Act 1992*.

The market rules came into effect on 1 July 2008. The market rules govern the operation of the SEQ water market. The Water Act specifies the content of the market rules must include:²

- the principles for establishing the market;
- a process for entities to register to participate in the market as registered grid participants in particular categories provided for under the rules;
- the rights and obligations of registered grid participants under the rules;
- provisions about any fees payable, including any charges for recovering costs in relation to the development and administration of the market, for registration by entities as registered grid participants and for their ongoing participation in the market;
- regulating activities related to the market, such as metering;
- the principles for deciding the prices payable for water sold by the water grid manager;
- the principles for deciding the prices for the provision of a declared water service by a grid service provider and who may decide the prices;
- procedures for resolving disputes under or in relation to the market rules;
- requirements for monitoring and reporting;
- provision for an entity (the rules administrator) to administer the rules; and
- the process for amending the rules.

1.3 The Commission's annual review requirements

As rules administrator, the Commission must report to the Minister on the efficacy of the market rules in achieving market outcomes for the previous financial year in accordance with section 3.4 of the market rules.³ The market outcomes are identified in section 3.2(a) of the market rules as being designed to:

- ensure the efficient use of the water grid;
- facilitate water sharing across the SEQ region and improvements in regional co-ordination of water supplies leading to greater water supply security for the SEQ region;

¹ Refer section 360ZCX of the Water Act.

² Refer section 360ZCY of the Water Act for a full list of the mandatory and discretionary content of the market rules.

³ Refer section 3.3(c) of the market rules.

- assist in achieving the desired levels of service objectives provided for in the Regional Water Security Program and the System Operating Plan; and
- ensure the costs of the water grid are shared amongst water users in the SEQ region.

Under section 3.4 of the market rules, the rules administrator must:

- report to the Minister on the efficacy of the market rules in achieving the market outcomes for the previous financial year; and
- submit the rules administrator's annual market rules review no later than 30 November each year or by such other time as the Minister may determine.

Section 3.4 requires also that the rules administrator's annual market rules review be based on information provided by the SEQ Water Grid Manager (Water Grid Manager) listed in section 3.6 and identify:

- the extent to which the market rules have achieved and are likely to achieve the market outcomes;
- the reasons for any failure or likely failure to achieve the market outcomes; and
- any proposals for changes to the market rules to better ensure that the market outcomes will be achieved.

1.4 Water Grid Manager's annual review requirements

Section 3.5 of the market rules requires the Water Grid Manager to report to the rules administrator on the operation of the water grid in accordance with section 3.6. That section states that the Water Grid Manager must:

- advise the rules administrator and grid participants on system capacity constraints and reliability issues from time to time as required;
- report to the rules administrator on the status of the market for the previous financial year;
- submit the Water Grid Manager's annual market rules review no later than 30 September each year or such later time as the rules administrator determines; and
- provide to the rules administrator such other information and reports on such other matters as the rules administrator, acting reasonably, may require.

Further, section 3.6(b) of the market rules states that the Water Grid Manager's annual market rules review must include the following information:

- projections of aggregate demand for water from the water grid over the next 3 years;
- projections of the capabilities of grid service providers to provide bulk supply services, manufactured water services and bulk transport services (as the case may be) over the next 3 years;
- an assessment of levels of compliance with, and effectiveness of, the water grid emergency response plan, water grid quality management plan and water grid risk management plan;
- levels of compliance with grid instructions, operating protocol and grid contract documents by grid participants; and
- any submissions made by grid participants relating to any of the matters about the operation of the water grid on which the Water Grid Manager is required to report to the rules administrator.

1.5 This Report

The Water Grid Manager has reported to the Commission on the operation of the water grid. Generally, the report contains the advice and information required by section 3.6 of the market rules. Where relevant, the information on the operation of the water grid is included in:

- sections 2, 3 and 4; and
- more detailed information, such as about the projections of aggregate demand, is in Appendix 1.

In this rules administrator's annual market rules review, for contextual reasons and completeness, complementary information relating to other instruments, for example the *South East Queensland System Operating Plan (Release 3.2)* (system operating plan) released in March 2011⁴ is also included.

⁴ Version 4.0 of the system operating plan was released by the Commission on 11 November 2011.

2. Efficacy in achieving Market Outcomes

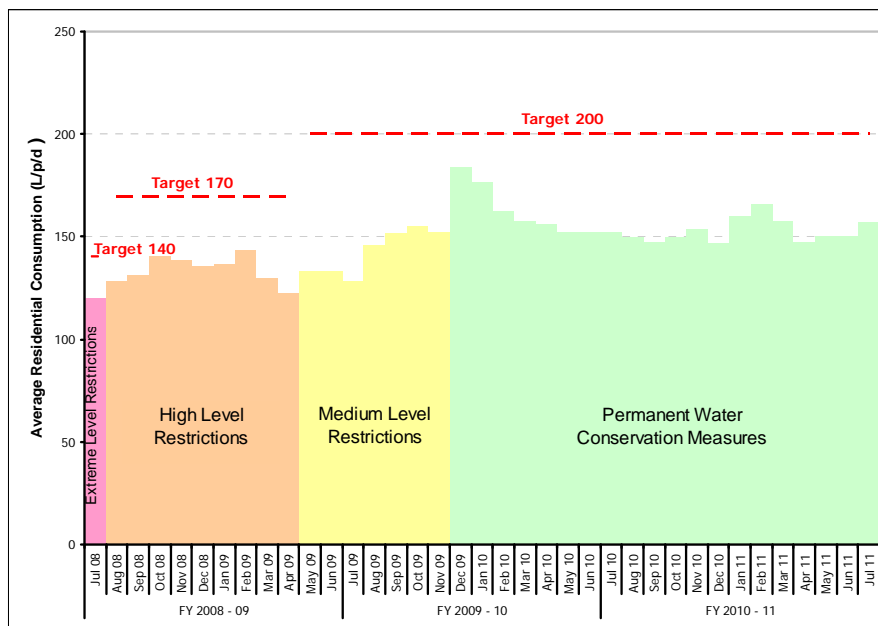
2.1 Ensure the efficient use of the Water Grid

2.1.1 Advice from the Commission

In the 2010-11 financial year, the operation of the market rules supported efficient use of the water grid.

For 2010-11, total water production across SEQ was around 261,000 megalitres (ML) and average daily residential water use was 163 litres per person per day. Figure 1 below shows average residential water use in SEQ was well below the voluntary residential consumption target of 200 litres per person per day in 2010-11.

Figure 1: Average monthly residential consumption from July 2008 to July 2011



The system operating plan includes eight *operating rules* for the water grid, the first of which is the *efficient and cost-effective operation rule*. This rule requires the Water Grid Manager, in determining the sources of supply to meet demands, to optimise the efficient cost-effective operation of water supply works to deliver required volumes of water.

2.1.2 Advice from the Water Grid Manager

Throughout 2010-11, the Water Grid Manager sought to minimise water production from more expensive sources (for example, desalination) and to minimise more expensive pumped transfers (for example, the Southern Regional Water Pipeline (SRWP)). Savings were also made from the Gold Coast Desalination Plant (desalination plant) being placed into stand-by mode in December 2010 and by maximising the extent to which demands were met from Seqwater's larger water treatment plants (WTPs) such as Mt Crosby and North Pine.

In 2010-11, the Water Grid Manager continued to work with bulk water entities to collect and gather the necessary information on cost, water quality, customer service and water security to facilitate decisions on efficient use of the water grid.

As stated, the desalination plant was put into standby mode during the reporting period which increased the operational efficiency of the water grid. In standby mode, the desalination plant will operate at capacity when key water grid storages reach 60 per cent of combined capacity and, at other times, will be available at capacity within 24 to 72 hours of a request from the Water Grid Manager. Since December 2010, production from the desalination plant has been increased on several occasions (for example, during the January 2011 flood event) to assist in maintaining a safe and reliable water supply to the greater Brisbane region.

2.2 Facilitate water sharing across the SEQ region and improvements in regional coordination of water supplies leading to greater water supply security for SEQ

2.2.1 Advice from the Commission

In the 2010-11 financial year, the operation of the market rules supported water sharing across the SEQ region and improvements in regional coordination of water supplies leading to greater water supply security for SEQ.

Prior to the establishment of the water grid, SEQ was supplied as eight largely discrete water supply zones with differing levels of reliability. Due to the lack of connectivity, water restrictions were frequently applied in parts of the region while dams in other parts might have been full or overflowing. The water grid allows risk to be managed on a region-wide basis and for water to be moved from areas of surplus to areas facing a shortfall.⁵

2.2.2 Advice from the Water Grid Manager

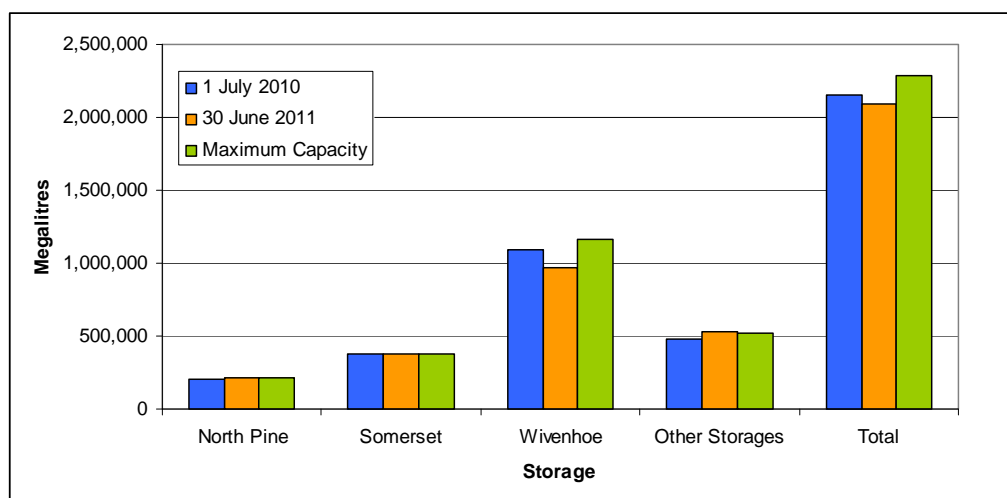
The infrastructure that now forms the water grid continued to facilitate water sharing across the SEQ region in 2010-11. The table below shows the metered volume of water moved through the Eastern Pipeline Interconnector (EPI), Northern Pipeline Interconnector (NPI) and SRWP; data from 2009-10 is included for comparison.

Table 1: Water (ML) transported by LinkWater⁶

Pipeline	2009-10	2010-11
NPI (South)	11,205	9,688
SRWP (North)	18,722	13,635
SRWP (South)	0	534
EPI (West)	2,181	1,867
TOTAL	32,108	25,724

The graph below illustrates the storage levels for the water grid's three largest storages (North Pine, Somerset and Wivenhoe Dams), other storages and the total storage volume at 1 July 2010 and 30 June 2011.

Figure 2: Storage volumes in 2010-11⁷



In terms of security, the combination of low demand and high levels of storage mean the probability of key water storages dropping to below 40 per cent in the next five years is very low.

⁵ Refer section 2.4.3 of the *South East Queensland Water Strategy*.

⁶ SEQ Water Grid Manager data.

⁷ SEQ Water Grid Manager data.

2.3 Assist in achieving desired levels of service objectives provided for in the Regional Water Security Program and System Operating Plan

2.3.1 Advice from the Commission

In the 2010-11 financial year, the operation of the market rules supported the achievement of the desired levels of service (LOS) objectives provided for in the Regional Water Security Program.

The desired LOS objectives for the SEQ region are:

- During normal operations sufficient water will be available to meet an average total urban demand of 375 litres per person per day (including residential, non-residential and system losses), of which 230 litres per person per day is attributed to residential demand;
- Medium level restrictions will not occur more than once every 25 years, on average;
- Medium level restrictions need only achieve a targeted reduction in consumption of 15 per cent below the total consumption volume in normal operations;
- The frequency of triggering drought response infrastructure will be not more than once every 100 years, on average;
- The frequency that the total volume of water stored by all key water grid storages declines to 10 per cent of their combined water storage capacity will be not more than once every 1000 years, on average;
- The total volume of water stored by all key water grid storages must not be permitted to reach 5 per cent of the combined total water storage capacity of these storages;
- Wivenhoe, Hinze and Baroon Pocket Dams must not be permitted to reach minimum operating levels; and
- It is expected that medium level restrictions will last longer than six months, no more than once every 50 years, on average.

The system operating plan facilitates the achievement of the desired LOS objectives by directing that the Water Grid Manager should manage the water supplied from water supply works for the plan area to support such achievement, setting out risk criteria, setting out operating rules and establishing supporting processes.

2.3.2 Advice from the Water Grid Manager

Projections of Aggregate Water Demand

The Water Grid Manager and the three distributor-retailers – Unitywater, Queensland Urban Utilities and Allconnex Water – have prepared aggregate demand projections for the next three years (refer to tables at Appendix A). The Water Grid Manager expects aggregate water demand for the water grid to increase to between approximately 288,000 and 338,000 ML/a by the end of 2015-16. Demand is expected to remain well below the:

- maximum volume of water the Water Grid Manager may enter into contracts to sell (450,000 ML/a);
- current level of service system yield (485,000 ML/a); and
- forecast level of service system yield once committed projects are complete (545,000 ML/a).

Projected Capabilities of Grid Service Providers to provide Bulk Supply Services

As required, the Water Grid Manager has identified existing or potential site-specific operational constraints together with recommended actions.⁸

Projected Capabilities of Grid Service Providers to provide Bulk Transport Services

With the exception of the Gold Coast region, transport capacity is forecast to be significantly higher than forecast mean day maximum month demands for the next three years across LinkWater's demand zones. The Water Grid Manager will work with LinkWater to assess the Gold Coast network's capabilities in detail to determine if there is a capacity constraint in this area that needs to be addressed.

Projected Capabilities of Grid Service Providers to provide Manufactured Water Services

The capability of manufactured water services significantly exceeds forecast average demand for the next three years.⁹

⁸ The Commission intends to investigate these issues with the Water Grid Manager and Seqwater. As detailed in this review report, demand for water across SEQ remains, and is expected to remain, well below the LOS system yield of the water grid over the next five years. Further information on potential future water sources, and actions to provide increased water security to rural towns/villages not connected to the water grid, is available in the *South East Queensland Water Strategy*.

⁹ Commission note: The Water Grid Manager's comment relates to stand-alone demand. Importantly, capability and readiness to augment Wivenhoe Dam with PRW contributes to overall system yield.

For the WCRW Scheme, the operating strategy specifies that purified recycled water (PRW) production be matched to demand, subject to operational constraints, and that PRW be supplied from the Luggage Point Advanced Water Treatment Plant and one of the two stages of the Bundamba Advanced Water Treatment Plant. Due to the extremely low probability of key water grid storages reaching 40 per cent of combined capacity over the next three years, the need to operate the scheme at full capacity was not considered as part of this year's annual market rules reviews.

The operating mode of the desalination plant is addressed in section 2.1.2 above.

2.4 Ensure the costs of the SEQ Water Grid are shared amongst users in the SEQ region

2.4.1 Advice from the Commission

In the 2010-11 financial year, the operation of the market rules supported sharing of the costs of the water grid amongst users in the SEQ region.

Chapter 8 of the market rules sets out the rules for grid service charges and bulk water prices. Government policy settings and decisions and legislative requirements prevail to support the principle that the costs of the water grid are shared amongst users in the SEQ region.

In late 2010, the Commission reviewed the bulk water price path which commenced in 2008. After taking into account continued water conservation by SEQ households and operational savings (such as merging WaterSecure with Seqwater and changing operations of the desalination plant and Western Corridor Recycled Water (WCRW) Scheme), the Government decided that the new bulk price path will increase by \$5 less in 2011-12 than previously announced.

Having started from different bulk charges in 2008, residents in all SEQ local government areas are expected to reach the same bulk water destination price, ensuring water users in SEQ share the costs of the water grid.

2.4.2 Advice from the Water Grid Manager

The costs of the water grid are shared among users in SEQ via the bulk water price path. The benefits of the efficient operation of the water grid [outlined above] were passed on in late 2010 by the review of the bulk water price path. The Commission is encouraged to establish the Category B customer framework to enable the Water Grid Manager to explore opportunities for the sale of water to these customers.¹⁰

3. Reasons for actual or likely failure to achieve Market Outcomes

3.1 Rules Administrator's reporting requirement

The market rules requires the rules administrator's annual market rules review to identify the reasons for any failure or likely failure to achieve the market outcomes.

3.1.1 Advice from the Commission

There were no known actual failures to achieve the market outcomes during the reporting period. There are no known likely failures to achieve the market outcomes after 30 June 2011.

3.1.2 Advice from the Water Grid Manager

The Water Grid Manager is not required to report on actual or likely failures to achieve the market outcomes.

¹⁰ Commission note: Further detail on Category B customer contracts can be found in section 3.15 of the market rules.

4. Proposals for changes to Market Rules to better ensure achievement of Market Outcomes

4.1 Rules Administrator's reporting requirement

The market rules requires the rules administrator's annual market rules review to identify any proposals for changes to the market rules to better ensure that the market outcomes will be achieved.

4.1.1 Advice from the Commission

In this annual review, the Commission has not sought to presume the outcomes of the Minister's statutory review of the operation and effectiveness the market rules referred to above.

4.1.2 Advice from the Water Grid Manager

The Water Grid Manager has identified a range of proposals to amend the market rules as part of its review for 2010-11. The Commission has responded to the Water Grid Manager in response to each of its recommended proposals, including those which will be progressed as part of the Minister's statutory review of the market rules.

5. Compliance with, and effectiveness of, Water Grid plans

5.1 Water Grid Emergency Response Plan

5.1.1 Advice from the Water Grid Manager

The water grid emergency response plan (version 2) was approved by the Minister in September 2010. Implementation of the water grid emergency incident response software solution (OCA) in December 2010 aided incident management and compliance with emergency reporting to the Water Grid Manager.

The Water Grid Manager was notified of the majority of incidents during the year in a timely manner, particularly during December 2010 and January 2011 when flooding in SEQ required multiple emergencies¹¹ to be managed under the plan. During the flooding, the plan assisted 24-hour operations by the full Emergency Management Team and associated communication and technical coordination teams over prolonged periods.

In March 2011, the Water Grid Manager commenced its annual review of the plan, identifying the following improvement opportunities for version 3 of the plan:

- enhanced alignment with State disaster management arrangements;
- improved reference to, and clarification of, the OCA software solution;
- improved business continuity and disaster recovery plans; and
- further development of emergency team structures.

As at 30 June 2011, stakeholder consultation on version 3 of the plan was well underway.

5.2 Water Grid Quality Management Plan

5.2.1 Advice from the Commission

The market rules set out how the Water Grid Manager must ensure a consistent approach to water quality in the water grid as well as water quality criteria related to aesthetic qualities of water in the water grid or which may affect equipment within the water grid including provision for a water grid quality management plan that has regard to any

¹¹ Emergencies are defined under the water grid emergency response plan as an incident that impacts on water quality, water supply reliability and/or public reassurance, and has an overall severity rating of Level 3, 4 or 5 under the plan. Levels 1 to 5 are: (1) Insignificant; (2) Minor; (3) Moderate; (4) Major; and (5) Catastrophe.

draft/approved drinking water quality management plan or recycled water management plan provided by a grid service provider or distribution service provider.¹²

5.2.2 Advice from the Water Grid Manager

The first version of the plan was approved by the Commission in November 2009, subject to a revised plan addressing specific requirements being submitted by the Water Grid Manager by 1 October 2010.

Following an approved extension to this timeframe, in November 2010 the Water Grid Manager submitted a revised version of the plan. For the remainder of the reporting period, the Commission, Water Grid Manager, the Office of the Water Supply Regulator (OWSR)¹³ and bulk water entities consulted on various aspects of the plan, including the relationship between the plan and the drinking water quality management plans which were to be approved¹⁴ by the OWSR by 1 July 2011.¹⁵

Throughout the reporting period, the Water Grid Manager reported publicly on bulk water quality via the monthly *Customer Confidence Report (Bulk Water)*. The customer confidence report covers water samples taken at 19 key locations in the water grid, with more than 10,000 tests conducted in 2010-11.¹⁶

5.3 Water Grid Risk Management Plan

5.3.1 Advice from the Commission

The water grid risk management plan provides an integrated framework for identification, analysis, evaluation and management of risks related to the operation of the water grid and achievement of the market outcomes.¹⁷

In May 2010, the Water Grid Manager submitted its plan to the Commission for approval. Throughout 2010-11, the Water Grid Manager and the Commission discussed refinements to the plan to ensure it met the requirements of the market rules.¹⁸

5.3.2 Advice from the Water Grid Manager

Although the plan was not approved by 30 June 2011, the Water Grid Manager continued to work closely with bulk and distributor-retailer entities on risk management issues through the SEQ Water Grid Risk Officers Committee. In 2010-11, the committee progressed and maintained the Water Grid Risk Register which forms part of the risk management plan.

6. Compliance with Grid Instructions, Operating Protocols and Grid Contract Documents by Grid Participants

6.1 Grid Instructions

6.1.1 Advice from the Commission

Under the market rules, the Water Grid Manager issues draft and final grid instructions¹⁹ each month to grid service providers and distribution service providers. Grid instructions define the sources and volumes of supply to demand zones for the month.

¹² Refer sections 5.1 and 5.3 of the market rules.

¹³ The Office of the Water Supply Regulator is part of the Department of Environment and Resource Management.

¹⁴ Refer sections 92 and 628(1)(b) of the *Water Supply (Safety and Reliability) Act 2008*.

¹⁵ In August 2011, the Water Grid Manager re-submitted the water grid quality management plan to the Commission for approval and advised a further version of the plan would be submitted in November 2011. In response, the Commission advised it would only consider the November 2011 version for approval when complete.

¹⁶ Refer to SEQ Water Grid Manager website (including 2010-11 annual report) for more information.

¹⁷ Refer section 4.34 of the market rules.

¹⁸ The Commission approved the risk management plan on 25 October 2011, that is, after the end of the reporting period for this annual market rules review. By 25 November 2011, each grid participant was required to provide evidence to the Water Grid Manager that it had appropriate strategies in place to address risks identified in the water grid risk management plan.

6.1.2 Advice from the Water Grid Manager

In 2010-11, the Water Grid Manager issued 33 amended grid instructions. Of these, 17 resulted in a change to the operation of the water grid and related mainly to operational constraints due to raw water quality as a result of the flood event. The other 16 were triggered by grid service providers issuing 'inability to comply' notices when actual demand exceeded forecast demand by greater than ± 20 per cent. In none of these cases did the Water Grid Manager consider the grid service provider had been negligent in not complying with the original grid instruction.

6.2 Operating Protocols

6.2.1 Advice from the Commission

Operating protocols govern the specific operational interactions between grid participants who are physically connected with one another in the water grid.²⁰

In January 2011, the Commission issued a final *operating protocol guideline* to assist grid participants to negotiate and agree on operating protocols.

6.2.2 Advice from the Water Grid Manager

In 2009-10, the Water Grid Manager approved operating protocols between LinkWater and WaterSecure for the desalination plant and between Scenic Rim Regional Council and Ipswich City Council. The operating protocol between the two local governments is now redundant due to the establishment of Queensland Urban Utilities. In 2010-11, progress was made on developing operating protocols between:

- Seqwater, LinkWater and Queensland Urban Utilities;
- Seqwater, LinkWater and Unitywater; and
- Seqwater, LinkWater and Allconnex Water.

6.3 Grid Contract Documents

6.3.1 Advice from the Commission

Grid contract documents govern the specific commercial transactions between grid participants and the Water Grid Manager.²¹

6.3.2 Advice from the Water Grid Manager

The Water Grid Manager's key areas of focus in 2010-11 related to enhancing the water quality, cost and meter information from grid participants. This was assisted through the development of grid contract process documents. In 2011-12, the Water Grid Manager will implement its Knowledge and Information Management System to further enhance the utilisation of information received for administering grid contracts.

Compliance with water quality is measured at bulk supply points under grid contracts. However, water quality is not monitored and tested at all of the 700-plus bulk supply points across the water grid. The water grid quality management plan²² has introduced water grid *key interface points* (Grid KIPs) as representative bulk supply points to undergo substantial water quality testing. Bulk supply points which are not classified as Grid KIPs would be represented, in grid contract terms, by the results generated at its delegated Grid KIP.

7. Submissions by Grid Participants

7.1 Unitywater

Unitywater was the only grid participant to make a submission to the Water Grid Manager for its annual market rules review.

¹⁹ Refer sections 4.11 and 4.12 of the market rules.

²⁰ Refer section 1.5(d) of the market rules.

²¹ Refer section 1.5(c) of the market rules.

²² Refer footnote number 15 of this report.

7.1.1 Unitywater's submission

In terms of the market rules, Unitywater's submission:

1. questioned the relevance of the requirement [in section 4.27 of the market rules] for a distribution service provider's emergency response plan to address infrastructure associated with isolated supply schemes. Unitywater's view is that breaks in supply mains linking isolated areas are "generally easily repaired within normal operating timeframes, whereas failure at rural water treatment plants can take lengthy periods to fix";
2. stated its risk framework and risk registers did not mirror the (then) draft SEQ water grid risk management plan because its framework/registers focused on specific service areas and accounted for sewage treatment operations; and
3. stated the operating protocols remained in draft form due to issues between the entities regarding bulk supply point locations and the minimum water quality communication values.

Appendix A

The tables below²³ summarise the demand projections provided in the Water Grid Manager's review report.

Table: Unitywater Demand Projections

Local Government Area	Unitywater Demand Forecast (ML/a)			WGM Demand Forecast (ML/a)		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
Sunshine Coast RC	31,424	31,700	32,078	30,523	30,789	31,123
Moreton Bay RC	26,652	27,132	27,706	25,518	25,947	26,460
TOTAL	58,076	58,832	59,784	56,041	56,736	57,583

Table: Queensland Urban Utilities Demand Projections

Local Government Area	QUU Demand Forecast (ML/a)			WGM Demand Forecast (ML/a)		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
Brisbane CC	102,709	105,760	107,646	111,421	112,112	113,253
Ipswich CC	15,168	15,653	16,156	15,912	16,557	17,308
Somerset RC	1,437	1,463	1,488	1,203	1,221	1,248
Lockyer Valley RC	1,618	1,672	1,728	1,762	1,792	1,831
Scenic Rim RC	1,366	1,390	1,416	1,493	1,536	1,585
TOTAL	122,298	125,938	128,434	131,791	133,218	135,225

Table: Allconnex Water Demand Projections

Local Government Area	Allconnex Demand Forecast (ML/a)			WGM Demand Forecast (ML/a)		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
Redland CC	12,320	12,517	12,748	11,686	11,774	11,892
Gold Coast CC	59,841	61,121	62,563	58,932	59,617	60,456
Logan CC	16,550	16,957	17,409	15,362	15,489	15,660
TOTAL	88,711	90,595	92,720	85,980	86,880	88,008

Table: Total Water Demand Projections

	DSPs Demand Forecast (ML/a)			WGM Demand Forecast (ML/a)		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
GRAND TOTAL	269,085	275,365	280,938	273,812	276,834	280,816

²³ Tables are sourced from the SEQ Water Grid Manager's Annual Market Rules Review 2010-11.