

South East Queensland SYSTEM OPERATING PLAN

Release 3.1

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South East Queensland System Operating Plan

1. Authority to make the South East Queensland System Operating Plan

This South East Queensland System Operating Plan (Plan) is made under the *Water Act 2000, Chapter 2A, Part 5, Division 2* to facilitate the achievement of the desired levels of service objectives for the South East Queensland region (SEQ region). This Plan is an amendment to the South East Queensland System Operating Plan Release 3 (March 2010).

This Plan commences on 20 August 2010 and will continue in force until such time as it is amended.

2. Plan area

The Plan area is shown in Schedule 1. The Plan area encompasses the local government areas of Brisbane, Gold Coast, Ipswich, Lockyer Valley, Logan, Moreton Bay, Redland, Scenic Rim, Somerset and Sunshine Coast.

3. Definitions

Schedule 4 defines particular words used in this Plan.

4. Application of the Plan

4.1 Entities to which plan applies

For this Plan other than Sections 8.7, 8.8, 8.9, Schedule 2, Section 9 and 10 the entity to which the Plan applies is the SEQ Water Grid Manager (SEQWGM). In accordance with the market rules, the SEQWGM will issue grid instructions consistent with the Plan.

For Sections 8.7, 8.8, and 10 of the Plan, the entities to which the Plan applies are the SEQWGM and the Queensland Water Commission (QWC).

For Section 8.9 of the Plan, the entities to which the Plan applies are the manufactured water entity, the distributor-retailer entity and the QWC.

For Section 9 of the Plan, the entities to which the Plan applies are the manufactured water entity, the bulk water supply entity, the bulk water transport entity, the SEQWGM and the QWC.

For Schedule 2 of the Plan, the entities to which the Plan applies are the manufactured water entity, the distributor-retailer entity and the SEQWGM.

4.2 Water supply works and sewerage for the Plan

The water supply works for the Plan area are those water supply works which supply a declared water service for the SEQ region, as declared under the *Water Act 2000*, regardless of whether or not those works are in the Plan area.

The sewerage to which the Plan applies is the sewerage associated with western corridor recycled water scheme feedwater.

5. Maximum volume of water to be managed

5.1 Maximum volume

The maximum volume of water the SEQWGM may enter into contracts to sell is 450,000 ML/a, which is the total volume that can be supplied by water supply works for the Plan, calculated using the SEQ regional water balance model.

A schematic of the SEQ network, derived from the SEQ regional water balance model, is shown in Schedule 3.

5.2 Relationship to commission water restrictions

Notwithstanding the maximum volume of water, the QWC may impose a commission water restriction on water users in accordance with the *Water Act 2000*.

Commission water restrictions do not alter the maximum volume of water. However, by directly impacting on end-user demand they are likely to indirectly impact on the monthly volume of water which grid customers order from the SEQWGM to fulfil their demands.

5.3 Access to water supplies

The actual volume of water that the SEQWGM can access at any point in time may be affected by a number of factors including, but not limited to:

- any conditions specified on water entitlements held by the SEQWGM;
- requirements of any applicable Resource Operations Plan or Interim Resource Operations Licence; or
- any conditions associated with a contract between the SEQWGM and the manufactured water entity for supply of manufactured water.

6. Desired levels of service (LOS) objectives

The SEQWGM should manage the water supplied from water supply works for the Plan area to support the achievement of the following desired LOS objectives:

- 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% 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% 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% 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.

7. Risk criteria

The table below details the risk criteria, which indicate the probability of reaching specified storage volumes over a five year period of SEQ regional water balance model simulation, where specified storage volumes pertain to the total volume of water stored by all key water grid storages.

Volume of water stored by all key water grid storages	Probability of reaching volume of water stored		
	within 1 year	within 3 years	within 5 years
40%	less than 0.2%	Not Specified	less than 5%
30%	Not Specified	less than 0.5%	less than 1%

8. Operating rules

8.1 Efficient and cost-effective operation rule

Subject to other rules in Section 8 of this Plan, the SEQWGM, in determining the sources of supply to meet demands, shall seek to optimise the efficient and cost-effective operation of water supply works to deliver the required volumes of water.

8.2 Water security rule

When the total volume of water stored by key water grid storages falls below 40% of the total water storage capacity of these storages:

- The supply of manufactured water from the South East Queensland (Gold Coast) Desalination Plant shall be maximised;
- The supply of manufactured water to Wivenhoe Dam from the Western Corridor Recycled Water Scheme shall be maximised, subject to appropriate approvals from the Office of the Water Supply Regulator.

8.3 Rule for the supply of water to power stations

Subject to operational constraints:

- (1) CS Energy Limited shall be supplied with water sourced in accordance with the following priorities:
 - Water is to be supplied from the Western Corridor Recycled Water Scheme, before
 - Water is to be supplied from the Warrill Valley Water Supply Scheme, in accordance with section 8.7 of this Plan, before
 - Water is to be supplied from Wivenhoe Dam.
- (2) Tarong Energy Corporation Limited shall be supplied with water sourced in accordance with the following priorities:
 - Water is to be supplied from the Western Corridor Recycled Water Scheme, before
 - Water is to be supplied from Wivenhoe Dam.

8.4 Rule for the supply of manufactured water from the South East Queensland (Gold Coast) Desalination Plant

Manufactured water shall be supplied from the South East Queensland (Gold Coast) Desalination Plant at a rate of at least one-third of the production capacity of the plant, subject to operational constraints.

8.5 Rule for the supply of water via the Northern Pipeline Interconnector Stage 1

Subject to operational constraints, the supply of water via the Northern Pipeline Interconnector Stage 1 from water supply works within the local government area of the Sunshine Coast Regional Council to other areas within the Plan area shall be:

- zero when the total volume of water stored by Baroon Pocket Dam, Ewen Maddock Dam, Cooloolabin Dam, Poona Dam and Wappa Dam as a proportion of the total water storage capacity of these dams is less than or equal to the total volume of water stored by Wivenhoe Dam, Somerset Dam and North Pine Dam as a proportion of the total water storage capacity of Wivenhoe Dam, Somerset Dam and North Pine Dam.
- zero when the total volume of water stored by Baroon Pocket Dam, Ewen Maddock Dam, Cooloolabin Dam, Poona Dam and Wappa Dam is less than 70% of the total water storage capacity of these dams.
- up to 65 megalitres per day when the total volume of water stored by Baroon Pocket Dam, Ewen Maddock Dam, Cooloolabin Dam, Poona Dam and Wappa Dam is between 70% and 100% of the total water storage capacity of these dams.

The monthly grid instruction provided by the SEQWGM in respect to the supply of water via the Northern Pipeline Interconnector Stage 1 shall nominate a volume in megalitres no greater than the number of days in the month multiplied by 65.

8.6 Rule for the supply of water from Lake Macdonald and the Upper Mary Water Supply Scheme

The supply of water from Lake Macdonald and the Upper Mary Water Supply Scheme shall, subject to operational constraints, be in accordance with the following priorities:

- water is to be supplied from Lake Macdonald while the dam is overflowing and may continue to be supplied until the total volume of water stored by Lake Macdonald falls below 95% of capacity after an overflowing event, before
- water is to be supplied from the Upper Mary Water Supply Scheme, before
- water is to be supplied from Lake Macdonald.

8.7 Rule for supply of water within the Warrill Valley Water Supply Scheme

The supply of water under water entitlement numbers 103187, 103184 and 103203 shall be in accordance with the following conditions or any varied conditions approved by the QWC, from time to time, in accordance with this Section 8.7:

- (a) water take is sourced from run of river flow; and
- (b) Berry's Lagoon weir is overflowing.

At least 30 business days prior to the commencement of a water year for the Warrill Valley Water Supply Scheme, the SEQWGM may seek the approval of the QWC to vary these conditions. If the QWC approves the variation, the conditions as varied and approved by the QWC will take effect from the commencement of that water year.

The SEQWGM must notify the bulk water supply entity in writing of any QWC approval to vary these conditions prior to the commencement of that water year.

8.8 Rule for supply of water within the Logan River Water Supply Scheme

Water shall not be supplied under water entitlements held by the SEQWGM, located within the Logan River Water Supply Scheme, to meet demands other than those of the towns of Beaudesert, Kooralbyn, Rathdowney, South Maclean and Jimboomba, when Maroon Dam is at or below elevation 193.23 meters Australian Height Datum (equivalent to 10,000 megalitres of water storage in Maroon Dam), subject to operational constraints or without approval of the QWC being given to the SEQWGM.

8.9 Western corridor recycled water scheme feedwater rule

The purpose of this Section 8.9 is to provide a process for securing the availability of western corridor recycled water scheme feedwater to ensure the ongoing operation of the Western Corridor Recycled Water Scheme which is integral to achieving water supply security for the SEQ region.

- (1) In relation to the use and/or supply of western corridor recycled water scheme feedwater, the distributor-retailer entity must make available western corridor recycled water scheme feedwater (treated) to the manufactured water entity in accordance with any feedwater notification issued by the manufactured water entity. The process for issuing and complying with a feedwater notification is set out in Schedule 2.
- (2) The distributor-retailer entity must report the following information quarterly to the QWC, within 20 business days from the end of a quarter:
 - (a) daily volume of western corridor recycled water scheme feedwater (untreated) received at each of the following wastewater treatment plants— Bundamba, Gibson Island, Goodna, Luggage Point, Oxley and Wacol; and
 - (b) daily volume of western corridor recycled water scheme feedwater (treated) made available to each of the following advanced water treatment plants— Bundamba, Gibson Island, and Luggage Point; and
 - (c) for each of the wastewater treatment plants at Bundamba, Gibson Island, Goodna, Luggage Point, Oxley and Wacol, the quality of the western corridor recycled water scheme feedwater (treated), as measured by the distributor-retailer entity (in accordance with the distributor-retailer entity's applicable development permit for the environmentally relevant activity and any approved recycled water management plan together with copies of any such conditions and any such plan, to the extent it has not been previously provided).
- (3) Subject to Sections 8.9(4), the distributor-retailer entity must not enter into, change, extend, renew, assign, novate or otherwise deal with any agreement with a third party in relation to the use and/or supply of western corridor recycled water scheme feedwater unless the terms of the agreement, change, extension, renewal, assignment, novation or other dealing have been approved by the QWC, or otherwise comply with any standing approval issued by the QWC to the former relevant Council after 1 July 2008. The QWC may from time to time publish a procedure for the distributor-retailer entity to apply to the QWC for an approval or a standing approval under this section.
- (4) Nothing in this Section 8.9 affects:
 - a contract between a former relevant Council and a third party, in force at 30 June 2008, for use and or supply of western corridor recycled water scheme feedwater (existing contract), provided the volume or duration of the contract is not altered;
 - the ability of a party to an existing contract to assign or novate the contract to another party during the term of the existing contract; or
 - the ability of the distributor-retailer entity to undertake maintenance works on the sewerage for the western corridor recycled water scheme feedwater.

For the purpose of this Section 8.9, 'third party' does not include the manufactured water entity.

9. Operating Strategy

By 31 October and 30 April each year, the SEQWGM must submit to the QWC for approval, a proposed operating strategy for the next 12 month period.

The proposed operating strategy must include:

- Details of how the SEQWGM intends to supply water to meet the forecast demands of each of its customers, including intended sources of supply, bulk water transfer arrangements and efficient and cost-effective operation proposal;
- Details of assumptions adopted to support the proposed operating strategy; and
- Any additional information supporting the proposed operating strategy.

In preparing a proposed operating strategy, the SEQWGM must make reasonable endeavours to consult each entity to which the proposed operating strategy will apply.

The SEQWGM must demonstrate that all reasonable actions have been integrated into the proposed operating strategy to achieve the:

- Desired LOS objectives; and
- Risk criteria.

The principal tool for demonstrating compliance with the desired LOS objectives and risk criteria is the SEQ regional water balance model.

The QWC, in considering a submitted operating strategy, must:

- Request further information if required;
- Approve the operating strategy with or without conditions;
- Amend and approve the operating strategy; or
- Require the SEQWGM to submit a proposal for a revised operating strategy.

The QWC may amend an approved operating strategy, or require the SEQWGM to submit a proposal for a revised operating strategy, at any time.

The SEQWGM may submit a proposal for a revised operating strategy at any time.

The SEQWGM must submit information in accordance with Section 9 in the format specified by the QWC.

Within five business days of making a decision under this section, the QWC must notify the SEQWGM of the decision.

The SEQWGM must only issue grid instructions based on the approved operating strategy, unless otherwise directed, in writing, by the QWC.

The manufactured water entity, the bulk water supply entity and the bulk water transport entity must comply with any reasonable written request from the SEQWGM to supply information which may assist the SEQWGM to fulfil its obligations under this section 9.

10. Monitoring, reporting and review of the Plan

10.1 Monitoring

- (1) The SEQWGM must record the details for the grid instructions each month including:
 - (a) monthly customer demand forecast notices;
 - (b) monthly grid service provider forecast notices;
 - (c) monthly distribution service provider forecast notices;
 - (d) the grid instructions;
 - (e) the basis and methodologies for calculating the grid instructions;
 - (f) the details of operational constraints as exercised for any applicable rule in Section 8; and
 - (g) any amendments and relevant correspondence to the above.
- (2) The SEQWGM must monitor and record the following information each month:
 - (a) the volume of surface water and ground water taken from each location and available to be taken;
 - (b) the volume of water supplied to each customer;
 - (c) the volume of water supplied from each water treatment plant;
 - (d) the volume of water transported by the bulk water transport entity;
 - (e) the volume of water stored in surface water storages; and
 - (f) an assessment of the outcomes of the grid instructions.

Details of the accuracy of the data, and if applicable, the way in which the data was estimated must also be recorded.

10.2 Monthly data provision

At the time of issue or amendment by the SEQWGM, the SEQWGM must provide a copy of the grid instructions under Section 10.1(1)(d), including details under Section 10(1)(e) and (f), to the QWC.

10.3 Reporting

The SEQWGM must provide the following reports to the QWC:

- quarterly report;
- annual report; and
- non-compliance report.

This section does not limit any other reporting requirements that must be undertaken in accordance with the market rules.

(1) Quarterly report

The SEQWGM must submit to the QWC within 20 business days from the end of each quarter a report on compliance against the Plan including, but not limited to, the following matters:

- (a) the desired LOS objectives and risk criteria;
- (b) the supply of water under contractual arrangements and the maximum volume of water that may be supplied;
- (c) infrastructure changes, commissioning and capacity constraints;
- (d) the grid instructions;
- (e) an overview of the basis for grid instructions and compliance of the grid instructions and outcomes with the Plan;
- (f) any circumstances where the Plan was not complied with;
- (g) monitoring and reporting;
- (h) any non-compliance reports; and
- (i) a discussion of any matters that may warrant review of the Plan.

The SEQWGM must also report on the estimated time to supply depletion for the following rural towns and villages that have reticulated supply based on a single supply source: Aratula, Boonah, Kalbar, Mount Alford, Beaudesert, Kooralbyn, Rathdowney, Canungra, Amity Point, Dunwich, Point Lookout, Dayboro, Jimna, Kenilworth, Kilcoy, Linville, and Maleny. Details of the basis of estimations must also be provided.

The SEQWGM must include information in accordance with Section 10.1, for the quarter, in the format specified by the QWC.

The SEQWGM may include information for the quarterly report, for the quarter ending 30 June, as part of the annual report submitted in accordance with Section 10.3(2). The SEQWGM must advise the QWC, in writing, of its intent to follow this process within 20 business days from the end of the financial year.

(2) Annual report

The SEQWGM must submit to the QWC within 60 business days after the end of the financial year a report on compliance against the Plan including, but not limited to:

- (a) the desired LOS objectives and risk criteria;
- (b) the supply of water under contractual arrangements and the maximum volume of water that may be supplied;
- (c) circumstances where the Plan was not complied with; and
- (d) a discussion of any matters that may warrant review of the Plan.

The SEQWGM must include information in accordance with Section 10.1, for the financial year, in the format specified by the QWC.

(3) Non-compliance report

The SEQWGM must:

- (a) notify the QWC within two business days of becoming aware of a non-compliance by the SEQWGM against the Plan; and
- (b) provide to the QWC within five business days of becoming aware of a non-compliance by the SEQWGM a report on the matter including any actions taken by the SEQWGM and recommendations on the matter.

(4) Additional information

The SEQWGM must also provide to the QWC such additional information requested by the QWC from time to time as necessary in order for the QWC to:

- check whether the Plan remains appropriate for conditions in the SEQ region;
- undertake ongoing review of the regional water balance for the SEQ region; and
- monitor compliance with the Plan.

This section does not limit any other reporting requirements that must be undertaken in accordance with the market rules.

10.4 Review of the Plan

Without limiting circumstances in which the Plan may be amended, it is expected that the Plan will be reviewed regularly and if deemed necessary, amended by the QWC.

The Plan review process will inform the five yearly review of the Regional Water Security Program for the SEQ region.

Schedule 1: Plan Area



Schedule 2: Feedwater notification

1. Requirements for a feedwater notification

A feedwater notification issued by the manufactured water entity must be consistent with:

- grid instructions issued by the SEQWGM; and
- any agreement between the manufactured water entity and the distributor-retailer entity in relation to the use and/or supply of western corridor recycled water scheme feedwater that is approved or deemed to be approved by the SEQWGM in accordance with Section 7 of this Schedule.

A feedwater notification that is inconsistent with either of the above is invalid to the extent of the inconsistency.

2. Preparing and issuing feedwater notification

Draft feedwater notifications

If the SEQWGM issues the manufactured water entity with a draft grid instruction, requesting the manufactured water entity to supply water to the SEQWGM, the manufactured water entity must, within one business day of receipt of the draft grid instruction, issue a draft feedwater notification to the distributor-retailer entity.

The distributor-retailer entity may submit written comments to the Manufactured Water Entity on the draft feedwater notification within three business days of receipt of the draft feedwater notification.

Feedwater notifications

If the SEQWGM issues the manufactured water entity with a grid instruction, requesting the manufactured water entity to supply water to the SEQWGM, the manufactured water entity must, within one business day of receipt of the grid instruction, issue a feedwater notification to the distributor-retailer entity.

If the SEQWGM amends a grid instruction issued to the manufactured water entity and the relevant feedwater notification is inconsistent with the amended grid instruction, the manufactured water entity must, within one business day of receipt of the amended grid instruction, issue a revised feedwater notification to the distributor-retailer entity.

3. Contents of feedwater notification

The feedwater notification issued by the manufactured water entity must be in writing and specify:

- the relevant grid instruction to which it relates;
- the time at which it was issued;
- for Bundamba, Gibson Island and Luggage Point advanced water treatment plants:
- the volume, flow rate and quality of western corridor recycled water scheme feedwater to be made available to each plant; and
- if applicable, the time at which the western corridor recycled water scheme feedwater is to be made available to each of the plants.

4. Quality of western corridor recycled water scheme feedwater

For each of the wastewater treatment plants at Bundamba, Gibson Island, Goodna, Luggage Point, Oxley and Wacol, the distributor-retailer entity must:

- (1) make the western corridor recycled water scheme feedwater available in accordance with any approved recycled water management plan applicable to the wastewater treatment plant;
- (2) to the extent no such approved recycled water management plan is in place, make the western corridor recycled

water scheme feedwater available in accordance with the conditions of the applicable development permit for the environmentally relevant activity;

- (3) without limiting 4(1) and 4(2) above, use its best endeavours to make the western corridor recycled water scheme feedwater available in accordance with the quality specifications of the feedwater notification and consistent with the historical performance of the plant over the past three years; and
- (4) without limiting 4(1), 4(2) and 4(3) above, use its best endeavours to make the western corridor recycled water scheme feedwater available at a quality that is consistent with the quality of the western corridor recycled water scheme feedwater produced by formerly produced by the relevant Council from the relevant wastewater treatment plant over the three year period ending on 30 June 2008.

5. Inability to make available western corridor recycled water scheme feedwater in accordance with feedwater notification

Where the distributor-retailer entity is unable to make available western corridor recycled water scheme feedwater in accordance with a feedwater notification (including as revised), the distributor-retailer entity must notify the SEQWGM and the manufactured water entity in writing as soon as possible. The notice must:

- identify the relevant feedwater notification;
- identify the extent to which the feedwater notification cannot be complied with;
- identify the length of time the distributor-retailer entity expects to be unable to comply with the feedwater notification;
- set out the reasons for the distributor-retailer entity's inability to comply, including relevant facts and supporting material; and
- On receipt of a notice under this Section 5 of Schedule 2, the SEQWGM must, no later than two business days after the receipt of the notice, notify the QWC of the non-compliance with the feedwater notification.

6. Amending feedwater notification

The manufactured water entity may amend a feedwater notification at any time, subject to Section 1 of this Schedule, including where:

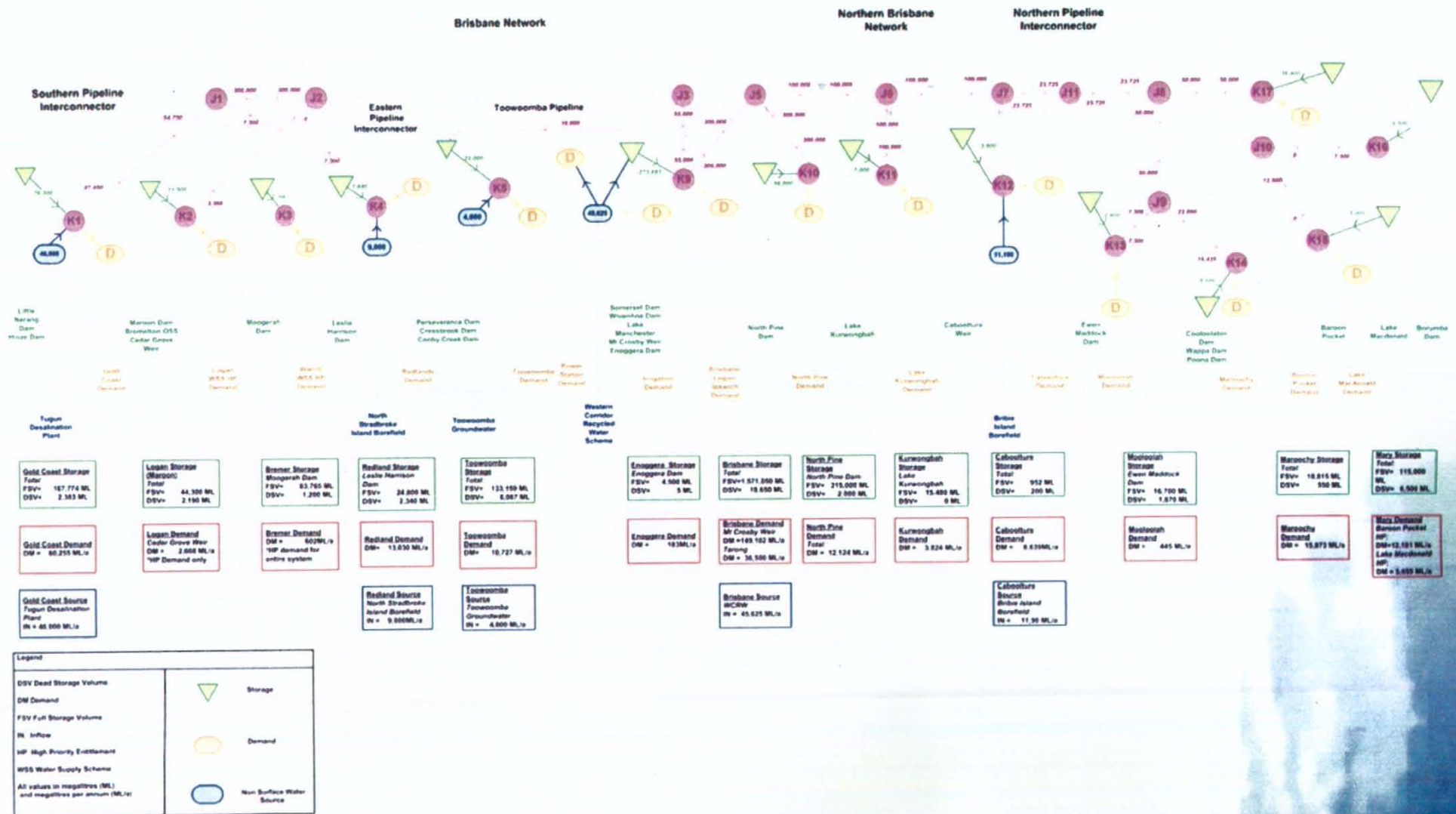
- a feedwater notification is inconsistent with the relevant grid instruction; or
- there is an error in the feedwater notification.

7. Approval of agreements relating to western corridor recycled water scheme feedwater

The distributor-retailer entity and the manufactured water entity must not enter into, change, extend, renew or otherwise deal with (including, without limitation, assign or novate) any agreement in relation to the use and/or supply of western corridor recycled water scheme feedwater unless the terms of the agreement, change, extension, renewal or other dealing have been approved by the SEQWGM.

An agreement between a former relevant Council, and the manufactured water entity in relation to the use and/or supply of western corridor recycled water scheme feedwater that is in force at 30 June 2008, excluding any change, extension, renewal or other dealing in relation to that agreement, is deemed to be approved by the SEQWGM.

Schedule 3: SEQ Network Schematic



Schedule 4: Definitions

approved recycled water management plan has the meaning give in the *Water Supply (Safety and Reliability) Act 2008*.

business day means a day that is not a Saturday, Sunday, public holiday or bank holiday in Brisbane, Australia.

bulk water supply entity means the Queensland Bulk Water Supply Authority established under the *South East Queensland Water (Restructuring) Act 2007*.

bulk water transport entity means the Queensland Bulk Water Transport Authority established under the *South East Queensland Water (Restructuring) Act 2007*.

commission water restrictions has the meaning given in section 360ZD of the *Water Act 2000*

customer demand forecast notice has meaning given in the market rules.

desired LOS objectives has the meaning given in Section 6 of the Plan. The principal tool for demonstrating compliance with the desired LOS objectives is the SEQ regional water balance model.

distributor-retailer entity has the meaning given in the *South-East Queensland Water (Distribution and Retail Restructuring) Act 2009*, and, in the Plan, refers to the Central SEQ Distributor-Retailer Authority, which has a geographic area covering the local government areas of Brisbane City Council, Ipswich City Council, Scenic Rim Regional Council, Lockyer Valley Regional Council and Somerset Regional Council, as shown in Schedule 1.

distribution service provider forecast notice has meaning given in the market rules.

drought response infrastructure means planned infrastructure to respond to a severe drought, triggered when all key water grid storages reach 30% of the combined total water storage capacity of these storages.

feedwater notification is a notification about western corridor recycled water scheme feedwater issued under Section 8.10 by the manufactured water entity to the distributor-retailer entity.

grid customer has the meaning given in the *Water Act 2000*.

grid instruction is an instruction issued by the SEQWGM to a grid participant in accordance with the market rules.

grid service provider forecast notice has meaning given in the market rules.

interim resource operations licence means a licence that was granted under section 175 of the *Water Act 2000*.

key water grid storages are all of Baroon Pocket Dam, Ewen Maddock Dam, Cooloolabin Dam, Wappa Dam, Lake Macdonald, Somerset Dam, Wivenhoe Dam, North Pine Dam, Lake Kurwongbah, Leslie Harrison Dam, Hinze Dam and Little Nerang Dam.

manufactured water is water produced by the Western Corridor Recycled Water Scheme or the South East Queensland (Gold Coast) Desalination Plant.

manufactured water entity means the Queensland Manufactured Water Authority established under the *South East Queensland Water (Restructuring) Act 2007*.

maximum volume of water has the meaning given in Section 5.1 of the Plan.

market rules are the rules about the operation of the market that may be made by the Minister pursuant to section 360ZCX of the *Water Act 2000*, known as the Market Rules SEQ Water Market.

medium level restrictions means commission water restrictions that achieve a targeted reduction in consumption of 15% below the total consumption volume in normal operations, triggered when all key water grid storages reach 40% of the combined total water storage capacity of these storages.

minimum operating levels means the storage levels for:

- Wivenhoe Dam when the volume of stored water in Wivenhoe Dam is 11,600 ML;
- Hinze Dam when the volume of stored water in Hinze Dam is 2,180 ML; and
- Baroon Pocket Dam when the volume of stored water in Baroon Pocket Dam is 4,500 ML;

ML/a is megalitres per annum.

normal operations means the mode of SEQ Water Grid operation when the total volume of water stored by all key water grid storages is greater than 40% of the combined total capacity of these storages.

quarter means each three month period ending on 31 March, 30 June, 30 September and 31 December.

resource operations plan means a plan approved under section 103(5) of the *Water Act 2000*.

risk criteria has the meaning given in Section 6 of the Plan. The principal tool for demonstrating compliance with the risk criteria is the SEQ regional water balance model.

run of river flow means water in a watercourse, not supplemented by storage releases.

SEQ region has the meaning given in the *Water Act 2000*.

SEQ regional water balance model is the Queensland Water Commission's model developed using the Water Headworks Network (WATHNET) computer program, used to determine the system yield based on existing infrastructure being operated in a specified arrangement. The model is based on stochastically generated inflow sequences derived from historical data. The relevant model version will be provided to the SEQ Water Grid Manager, or other entities, by the Queensland Water Commission as appropriate.

sewerage has the meaning given in the *Water Act 2000*.

water supply works has the meaning given in the *Water Act 2000*.

western corridor recycled water scheme feedwater means:

- sewage entering a sewerage network that provides source water for the following wastewater treatment plants— Bundamba, Gibson Island, Goodna, Luggage Point, Oxley, Wacol (western corridor recycled water scheme feedwater (untreated)); and
- treated wastewater exiting the following wastewater treatment plants— Bundamba, Gibson Island, Goodna, Luggage Point, Oxley and Wacol (western corridor recycled water scheme feedwater (treated)).