

## TECHNICAL SITUATION REPORT

<b>TSR Number</b>	W5	<b>Date of TSR release</b>	17.12.2010	<b>Time of TSR release</b>	12pm
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### Seqwater status of inflows and dam operations

#### Somerset/Wivenhoe Dams

The previous release plan was to get Wivenhoe dam as close to FSL as possible without inundating Burtons bridge and balance this off against opening Colleges Crossing as soon as possible. The BOM forecasts on Wednesday when the decision was made to proceed with closure on Thursday morning indicated a low chance of significant rainfall until Sunday and unfortunately these forecasts did not prove correct and were revised upwards on Thursday.

A decision to commence a release tonight was made this morning by Duty Flood Engineers to provide as much notice to impacted Councils as possible. Due to the large storms experienced yesterday afternoon and night, the current rain on the ground will result in over 60,000ML needing to be released from Wivenhoe and Somerset Dams to achieve FSL. Additionally BOM are forecasting an additional 20 to 50 millimetres of rain tonight, with further rain forecast through the weekend. If this rain eventuates, substantial flood releases will occur impacting a number of bridges along the river.

The extent of the release commencing tonight will depend on the rain that falls in the catchment over the next 72 hours. This could vary between 10 and 100+ millimetres and the release strategy will be developed in accordance with the Manual of Flood Mitigation as the situation develops. The objectives of the release will be to protect the safety of the dam while minimising flooding impacts on the crossings downstream of the dam in the Brisbane River.

Councils were contacted this morning to advise of the strategy and they had no concerns with the strategy and agreed with the strategy.

Twin Bridges, Savages Crossing and Colleges Crossing may be impacted by releases but it depends to some extent on the rainfall tonight and weekend. Significant rainfall could result in other bridges being impacted by releases.

A follow up email will be sent in case Councils want to provide an assessment.

<b>Seqwater Technical Officer name</b>	Robert Drury
<b>Seqwater Technical Officer position title</b>	Dam Operations Manager

### BoM assessment

*(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)*

BoM has been advised of the strategy.

Action taken was to mobilise the flood centre.

<b>BoM Technical Officer name</b>	
<b>BoM Technical Officer position title</b>	
<b>BoM Technical Officer contact details</b>	flood.qld [REDACTED]

### Brisbane City Council (BCC) assessment

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>BCC Technical Officer name</b>	Chris Lavin
<b>BCC Technical Officer position title</b>	Disaster Operations Manager
<b>BCC Technical Officer contact details</b>	[REDACTED]

### Ipswich City Council (ICC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>ICC Technical Officer name</b>	Tony Trace
<b>ICC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>ICC Technical Officer contact details</b>	[REDACTED]

### Somerset Regional Council (SRC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>SRC Technical Officer name</b>	Tony Jacobs
<b>SRC Technical Officer position title</b>	Local Disaster Response Coordinator

**SRC Technical Officer contact details**

Collated and distributed by (Agency)

<b>Contact Officer signature</b>	
<b>Contact Officer name</b>	Rob Drury
<b>Contact Officer position title</b>	Dam Operations Manager

<b>Next TSR due</b>	<b>Date</b>	17.12.2010	<b>Time</b>		<b>or Event</b>	Gate opening
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## TECHNICAL SITUATION REPORT

<b>TSR Number</b>	W6	<b>Date of TSR release</b>	17.12.2010	<b>Time of TSR release</b>	6pm
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### Seqwater status of inflows and dam operations

Somerset/Wivenhoe Dams

At 18:00 tonight the regulator was closed and Gate 3 opening initiated.

By 18:30, Gate 3 will be open 0.5 metres and releasing approximately 50m<sup>3</sup>/s.

It is noted that the hydro will continue releasing 13 m<sup>3</sup>/s, making a total release from Wivenhoe Dam just over 63m<sup>3</sup>/s.

Based on levels in the creeks and ongoing rain, releases will most likely increase during the night depending on the flow in Lockyer Creek and inflows. It is planned at this stage that releases could increase to 300m<sup>3</sup>/s depending on downstream flows. This is similar to last week and will impact Twin Bridges, Savages Crossing and Colleges Crossing.

Councils were contacted tonight prior to release to advise them of the strategy and they had no concerns with the proposed release strategy.

A follow up email will be sent in case Councils want to provide an assessment.

<b>Seqwater Technical Officer name</b>	Robert Drury
<b>Seqwater Technical Officer position title</b>	Dam Operations Manager

### BoM assessment

*(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)*

BoM has been advised of the releases.

Action taken was to mobilise the flood centre.

<b>BoM Technical Officer name</b>	
<b>BoM Technical Officer position title</b>	
<b>BoM Technical Officer contact details</b>	flood.qld@ [REDACTED]

## Brisbane City Council (BCC) assessment

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>BCC Technical Officer name</b>	Chris Lavin
<b>BCC Technical Officer position title</b>	Disaster Operations Manager
<b>BCC Technical Officer contact details</b>	[REDACTED]

## Ipswich City Council (ICC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>ICC Technical Officer name</b>	Tony Trace
<b>ICC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>ICC Technical Officer contact details</b>	[REDACTED]

## Somerset Regional Council (SRC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>SRC Technical Officer name</b>	Tony Jacobs
<b>SRC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>SRC Technical Officer contact details</b>	[REDACTED]

## Collated and distributed by (Agency)

<b>Contact Officer signature</b>	
<b>Contact Officer name</b>	Rob Drury
<b>Contact Officer position title</b>	Dam Operations Manager

<b>Next TSR due</b>	<b>Date</b>	18.12.2010	<b>Time</b>	9am	<b>or Event</b>	Change in strategy
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## TECHNICAL SITUATION REPORT

<b>TSR Number</b>	W7	<b>Date of TSR release</b>	18.12.2010	<b>Time of TSR release</b>	7am
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### Seqwater status of inflows and dam operations

Somerset/Wivenhoe Dams

Since Thursday falls of 40-50 mm have fallen over the catchment with isolated falls of up to 80 mm. It is estimated that this inflow will result in approximately 100,000 ML of flood water flood storage that will need to be drained over the next four days. The total flow in the Brisbane River will be maintained at between 300-350 m<sup>3</sup>/s, depending on further rain. Somerset Dam is currently transferring water to Wivenhoe Dam through two regulators. Overnight Wivenhoe Dam releases were increased to 150m<sup>3</sup>/s and will increase to 300 m<sup>3</sup>/s as the flows from Lockyer Creek subside over the next twenty-four hours. Lockyer Creek is currently peaking at approximately 130 m<sup>3</sup>/s.

Currently twin Bridges and Savages crossing are closed by the flood releases. Colleges crossing will be impacted from late afternoon.

This is in accordance with the strategy advised to Councils previously however a follow up advice will be sent.

A follow up email will be sent in case Councils want to provide an assessment.

<b>Seqwater Technical Officer name</b>	Robert Drury
<b>Seqwater Technical Officer position title</b>	Dam Operations Manager

### BoM assessment

*(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)*

BoM has been advised of the releases.

Action taken was to mobilise the flood centre.

<b>BoM Technical Officer name</b>	
<b>BoM Technical Officer position title</b>	
<b>BoM Technical Officer contact details</b>	flood.qld [REDACTED]

## Brisbane City Council (BCC) assessment

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>BCC Technical Officer name</b>	Chris Lavin
<b>BCC Technical Officer position title</b>	Disaster Operations Manager
<b>BCC Technical Officer contact details</b>	[REDACTED]

## Ipswich City Council (ICC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>ICC Technical Officer name</b>	Tony Trace
<b>ICC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>ICC Technical Officer contact details</b>	[REDACTED]

## Somerset Regional Council (SRC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>SRC Technical Officer name</b>	Tony Jacobs
<b>SRC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>SRC Technical Officer contact details</b>	[REDACTED]

## Collated and distributed by (Agency)

<b>Contact Officer signature</b>	
<b>Contact Officer name</b>	Rob Drury
<b>Contact Officer position title</b>	Dam Operations Manager

<b>Next TSR due</b>	<b>Date</b>	<b>Time</b>	<b>or Event</b>	<b>Any significant change in strategy</b>

## TECHNICAL SITUATION REPORT

<b>TSR Number</b>	<b>W8</b>	<b>Date of TSR release</b>	19.12.2010	<b>Time of TSR release</b>	7am
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### Seqwater status of inflows and dam operations

Somerset/Wivenhoe Dams

This is just an update and does not include further discussions with Councils unless the strategy changes.

There is no change in the current strategy however storms on Saturday afternoon dumped 20 to 30mm in the Monsildale area in the upper Brisbane River but elsewhere in the Upper Brisbane and Stanley Rivers falls were much lower.

At 0600 Sunday, two regulators remain open at Somerset Dam, giving a release of around 12,000 ML/day into Wivenhoe. These releases are expected to continue for several days, especially as further rain is forecast in the next 24 hours.

The storms on Saturday afternoon caused renewed river rises in the Upper Brisbane. Significant inflows to Wivenhoe will continue for several days.

There is currently has one gate open at Wivenhoe Dam at 3.5 metres providing a release of about 350 m3/s. This release is expected to continue until at least Wednesday and perhaps longer depending on forecast rain in the next 36 hours.

Twin Bridges, Savages Crossing and Colleges Crossing are closed. Savages Crossing and Colleges Crossing are expected to remain closed until at least Wednesday with Twin Bridges closed for a much longer period.

The current strategy is to drain Somerset and Wivenhoe back to full supply level by mid week and keep Kholo and Burtons Bridge remaining open, but this may change depending on the rainfall experienced in the catchments in the next 24 hours.

This is in accordance with the strategy advised to Councils and they will be advised of any change.

<b>Seqwater Technical Officer name</b>	Robert Drury
<b>Seqwater Technical Officer position title</b>	Dam Operations Manager
<b>[Redacted]</b>	<b>[Redacted]</b>

### BoM assessment

*(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)*



BoM has been advised of the releases.

Action taken was to mobilise the flood centre.

<b>BoM Technical Officer name</b>	
<b>BoM Technical Officer position title</b>	
<b>BoM Technical Officer contact details</b>	flood.qld [REDACTED]

### Brisbane City Council (BCC) assessment

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>BCC Technical Officer name</b>	Chris Lavin
<b>BCC Technical Officer position title</b>	Disaster Operations Manager
<b>BCC Technical Officer contact details</b>	[REDACTED]

### Ipswich City Council (ICC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>ICC Technical Officer name</b>	Tony Trace
<b>ICC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>ICC Technical Officer contact details</b>	[REDACTED]

### Somerset Regional Council (SRC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council was advised of the strategy.

Action taken was to mobilise the flood centre.

<b>SRC Technical Officer name</b>	Tony Jacobs
<b>SRC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>SRC Technical Officer contact details</b>	[REDACTED]

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	Rob Drury
Contact Officer position title	Dam Operations Manager

<b>Next TSR due</b>	<b>Date</b>		<b>Time</b>		<b>or Event</b>	Any significant change in strategy
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## TECHNICAL SITUATION REPORT

<b>TSR Number</b>	W9	<b>Date of TSR release</b>	19.12.2010	<b>Time of TSR release</b>	6pm
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### Seqwater status of inflows and dam operations

Somerset/Wivenhoe Dams

This is a further update.

Somerset Dam remains relatively steady with two regulator valves discharging around 140 cumecs. Inflows have risen slightly during the afternoon and so Somerset Dam lake level should remain steady until late tonight.

The only change with Wivenhoe Dam was to reduce the gate opening from 3.5m to 3.0m due to the Lockyer flows. Wivenhoe Dam also remains steady with Gate 3 open 3.0 m discharging approximately 300 cumecs. Rises in the Upper Brisbane are expected to result in the Lake level increasing to around 67.4 m AHD over the next two days.

Under the current operational strategy the release from Wivenhoe Dam will be maintained at 300 cumecs (Lockyer Creek flows permitting) to enable Burtons Bridge to remain open. This may mean releases from Wivenhoe Dam will be throttled back to ensure the bridge is not inundated prematurely. It is anticipated that if no further rainfall occurs, Wivenhoe and Somerset Dam will continue to operate until early Friday 24 December.

If more rainfall occurs this evening or further inflows occur, the current strategy will need to be revised and the closing of Burtons Bridge and Kholo Bridge will be considered. A decision on this will be made by 10:00 on Monday 20 December 2010. Councils have been advised of this possibility and further discussions with Councils will take place in the morning.

Twin Bridges, Savages Crossing and Colleges Crossing are closed. Savages Crossing and Colleges Crossing are expected to remain closed until at Friday.

<b>Seqwater Technical Officer name</b>	Robert Drury
<b>Seqwater Technical Officer position title</b>	Dam Operations Manager

### BoM assessment

*(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)*

BoM has been advised of the releases.

Action taken was to mobilise the flood centre.

<b>BoM Technical Officer name</b>	
<b>BoM Technical Officer position title</b>	
<b>BoM Technical Officer contact details</b>	flood.qld [REDACTED]

### Brisbane City Council (BCC) assessment

*(to include predicted local inundation areas and depths of inundation based on the information)*

Action taken was to mobilise the flood centre.

<b>BCC Technical Officer name</b>	Chris Lavin
<b>BCC Technical Officer position title</b>	Disaster Operations Manager
<b>BCC Technical Officer contact details</b>	[REDACTED]

### Ipswich City Council (ICC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council has been advised of the current situation with further advice before the current strategy is changed.

Action taken was to mobilise the flood centre.

<b>ICC Technical Officer name</b>	Tony Trace
<b>ICC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>ICC Technical Officer contact details</b>	[REDACTED]

### Somerset Regional Council (SRC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Council has been advised of the current situation with further advice before the current strategy is changed.

Action taken was to mobilise the flood centre.

<b>SRC Technical Officer name</b>	Tony Jacobs
<b>SRC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>SRC Technical Officer contact details</b>	[REDACTED]

Collated and distributed by (Agency)

<b>Contact Officer signature</b>	
<b>Contact Officer name</b>	Rob Drury
<b>Contact Officer position title</b>	Dam Operations Manager

<b>Next TSR due</b>	<b>Date</b>	20.12.2010	<b>Time</b>	Morning	<b>or Event</b>	Any significant change in strategy
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## TECHNICAL SITUATION REPORT

<b>TSR Number</b>	W10	<b>Date of TSR release</b>	20.12.2010	<b>Time of TSR release</b>	7am
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### Seqwater status of inflows and dam operations

Somerset/Wivenhoe Dams

This is a further update.

#### **Somerset and Wivenhoe Dam**

Somerset Dam has risen steadily overnight to currently be at around 100.2m AHD. A sluice gate will be opened at 0700 this morning, with a further sluice gate opened later today. Sluice gate releases are projected to continue until around Wednesday morning, when the dam level will approach FSL. Dam inflow should peak today at around 700 cumecs.

Wivenhoe Dam has risen steadily overnight, with the level projected to reach 68.0m AHD by this afternoon. The proposed strategy is to ramp up releases to have the dam drained to FSL by Saturday. This will require both Burtons and Kholo bridges to be inundated, with dam discharges in excess of 1200 cumecs. This strategy will be discussed with the impacted Councils this morning with a decision on the strategy to be made by 1000. Dam inflow excluding Somerset Dam outflows should peak tomorrow at around 1800 cumecs.

<b>Seqwater Technical Officer name</b>	Robert Drury
<b>Seqwater Technical Officer position title</b>	Dam Operations Manager

### BoM assessment

*(consisting of references to latest Flood Warning for the Brisbane River and other relevant Bureau forecasts and warnings (e.g. weather/rain forecasts, Tropical Cyclone Warning etc) and other updates/comments if needed)*

BoM will be advised of the releases.

<b>BoM Technical Officer name</b>	
<b>BoM Technical Officer position title</b>	
<b>BoM Technical Officer contact details</b>	flood.qlc [REDACTED]

## Brisbane City Council (BCC) assessment

*(to include predicted local inundation areas and depths of inundation based on the information)*

BCC is being contacted again to discuss situation and get their comment.

<b>BCC Technical Officer name</b>	Chris Lavin
<b>BCC Technical Officer position title</b>	Disaster Operations Manager
<b>BCC Technical Officer contact details</b>	[REDACTED]

## Ipswich City Council (ICC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

ICC is being contacted again to discuss situation and get their comment.

<b>ICC Technical Officer name</b>	Tony Trace
<b>ICC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>ICC Technical Officer contact details</b>	[REDACTED]

## Somerset Regional Council (SRC) assessment (if required)

*(to include predicted local inundation areas and depths of inundation based on the information)*

Somerset Council is being contacted again to discuss situation and get their comment. They were advised yesterday of the possibility.

<b>SRC Technical Officer name</b>	Tony Jacobs
<b>SRC Technical Officer position title</b>	Local Disaster Response Coordinator
<b>SRC Technical Officer contact details</b>	[REDACTED]

## Collated and distributed by (Agency)

<b>Contact Officer signature</b>	
<b>Contact Officer name</b>	Rob Drury
<b>Contact Officer position title</b>	Dam Operations Manager

<b>Next TSR due</b>	<b>Date</b>	20.12.2010	<b>Time</b>	Morning	<b>or Event</b>	After strategy is finalised with Councils
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