

'SR-A'

From: Dan Spiller [REDACTED]
Sent: Thursday, 6 January 2011 1:17 PM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Best Debble; [REDACTED]
Cc: Rob Drury; Mike Foster; SEQWGM Media; Reilly Bob
Subject: Recommencement of Wivenhoe Dam gate releases
Attachments: Technical Situation Report W28.docx

All,

We expect to begin gate release from Wivenhoe Dam this evening, to release water accumulated in the dams over the last 24 hours. The technical situation report is attached.

The release rate will be about 25,000 ML/day, compared to the peak last week of about 115,000 ML/day. We will aim to manage releases so as to avoid inundating Burtons Bridge and isolating up to 50 houses. However, depending upon rainfall, the bridge may be inundated by other flows.

The release strategy will be reviewed over the next 24 hours, and may change depending upon the amount of rainfall in the catchment.

We are consulting with Councils and the BoM about the release strategy.

A short media update is being issued, in consultation with the Minister's office.

Please contact me if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: [REDACTED] Fax: [REDACTED] | Mobile: [REDACTED]
[REDACTED]

Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Thursday, 6 January 2011 2:56 PM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Best Debbie; [REDACTED]
Cc: Rob Drury; Mike Foster; SEQWGM Media; Reilly Bob
Subject: RE: Recommencement of Wivenhoe Dam gate releases

All,

Rainfall in the Lockyer Valley over the past few hours has been heavier than initially assessed, with the prospect of further falls.

The scale of flows may be sufficient to close Burtons Bridge without any contribution from Wivenhoe Dam.

Given these flows, the Wivenhoe Dam release will be deferred until after the Lockyer Valley flows have peaked (expected to be Saturday, depending on rainfall). This strategy will minimise the impacts on downstream areas.

The media update will reflect this status. We had not advised media that a release was being considered from this evening.

We will provide more detailed advice tomorrow morning.

Regards,
Dan

From: Dan Spiller
Sent: Thursday, 6 January 2011 1:17 PM
To: [REDACTED]
[REDACTED]
Cc: Rob Drury; 'Mike Foster'; SEQWGM Media; 'Reilly Bob'
Subject: Recommencement of Wivenhoe Dam gate releases

All,

We expect to begin gate release from Wivenhoe Dam this evening, to release water accumulated in the dams over the last 24 hours. The technical situation report is attached.

The release rate will be about 25,000 ML/day, compared to the peak last week of about 115,000 ML/day. We will aim to manage releases so as to avoid inundating Burtons Bridge and isolating up to 50 houses. However, depending upon rainfall, the bridge may be inundated by other flows.

The release strategy will be reviewed over the next 24 hours, and may change depending upon the amount of rainfall in the catchment.

We are consulting with Councils and the BoM about the release strategy.

A short media update is being issued, in consultation with the Minister's office.

Please contact me if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [REDACTED]

Email: [REDACTED]

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Friday, 7 January 2011 8:27 AM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Best Debbie; [REDACTED]
Cc: Rob Drury; Mike Foster; SEQWGM Media; Reilly Bob
Subject: Update on dam gate releases
Attachments: Technical Situation Report W29.docx

All,

Attached is the updated technical situation report.

There has been widespread rainfall in most of the dam catchments. These inflows have triggering the need for gate releases, with forecasts of between 100 and 200 mm of further rainfall over the next five days.

For Wivenhoe and Somerset dams, key points are:

- There has been general falls of around 30 to 50 mm since Wednesday, with isolated peaks of up to 75mm. About 230,000 ML will need to be released, based on estimated flows into the dam.
- There has been heavier rainfall in the Lockyer Creek catchment, which flows into the Brisbane River below the dam wall. Without dam releases, these flows are likely to result in Burtons Bridge being inundated by mid afternoon today – again isolating up to 50 households.
- Dam releases are expected to commence late tonight or early tomorrow, once existing Lockyer Valley flows have peaked – minimising downstream impacts and deferring the inundation of Burtons Bridge.
- At this stage, releases are expected to be at a similar rate to the recent events (up to about 105,000 ML/day) and continue until Monday or Tuesday next week (depending on further rainfall).

North Pine and Leslie Harrison dams are also making gate releases. Youngs Crossing has been inundated.

Councils have been advised. Somerset is contacting key affected residents.

We will provide an update once the timing of releases has been fixed.

Please contact me if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
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[illegible]

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Friday, 7 January 2011 4:24 PM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Best Debbie; [REDACTED]
Cc: Rob Drury; Mike Foster; SEQWGM Media; Reilly Bob
Subject: Update on Wivenhoe Dam releases
Attachments: Technical Situation Report W30.docx

All,

Attached is the updated technical situation report.

For Wivenhoe Dam, key points are:

- The first of the gates has opened. The release rate is planned to be increased to about 1,200 m³/s by 1400 Saturday. This is a similar release rate to last week.
- Burtons Bridge is again inundated, isolating some residents.
- Councils have been advised of this strategy and are contacting residents as necessary.
- The releases will have a minimal impact on the level of the Brisbane River in the City Reach. Seqwater and BoM concur that a total flow of a 1,500m³/s adds about 50mm to the expected water levels at that location.
- Due to atmospheric conditions, current recorded high tide levels are 0.4 to 0.5 metres higher than predicted tides.

North Pine and Leslie Harrison dams are also making gate releases. Releases from Hinze Dam are likely to be required over the weekend.

Please contact me if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: [REDACTED] | Fax: [REDACTED] | Mobile: [REDACTED] 7

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Visit: Level 15, 53 Albert Street Brisbane
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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Saturday, 8 January 2011 9:00 AM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Debbie Best [REDACTED]
Cc: Rob Drury [REDACTED] SEQWGM Media; Damien Brown [REDACTED] Scott Denner
Subject: Water Grid operations update; 8/1/11
Attachments: Technical Situation Report W31.docx

All,

Dam releases

Attached is the current technical situation report.

Releases are being made from Somerset, Wivenhoe, North Pine and Leslie Harrison dams, with forecasts of high rainfall totals over the next four days.

For Wivenhoe Dam:

- All five gates are now open with the release rate planned to increase to 1200 cubic metres per second by midday today. This release rate is less than peak release from October 2010.
- The release strategy will continue to be reviewed based on actual rainfall. With significant inflows, it may need to be increased.
- As advised yesterday, a number of local bridges have been inundated by releases and local flows. The Fernvale and Mt Crosby Weir Bridges could potentially also be affected if predicted rainfall totals eventuate.
- The BoM and Seqwater concur that current releases will increase the level of the lower Brisbane River by about 50 to 100mm. There is currently a 40 to 50mm atmospheric anomaly.

Releases from North Pine and Leslie Harrison dams are continuing. Releases from Hinze Dam are expected to be required over the weekend.

Water treatment

In terms of operations, Lockyer Valley flows have again caused a turbidity spike in the Brisbane River. Impacts are expected to peak today at Mt Crosby today, before being diluted by dam releases. There are similar issues at some other locations.

Despite the spike, all key plants are currently operating within critical limits with any impacts being monitored. Seqwater and Linkwater have prepared for potential issues by increasing treated water storage and staffing at some treatment plants. Desalination is at one-third capacity and ready to increase production within two hours of an instruction (but is unlikely to be required in this event).

With forecast rainfall, these type of issues are likely to recur over the remainder of the wet season.

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Saturday, 8 January 2011 12:39 PM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Debbie Best [REDACTED]
Cc: SEQWGM Media; [REDACTED] Scott Denner;
Subject: RE: Water Grid operations update: 8/1/11

All,

High turbidity caused the Mt Crosby WTP to cease production for a period this morning. Turbidity levels have since returned to controllable levels and production recommenced, initially at low levels.

Reservoir levels in central SEQ dropped over this period, albeit from a high starting level. To stabilize reservoir levels, we have increased desalination production to two-thirds of capacity for about 24 hours.

Other plants are operating within critical limits.

While this turbidity peak has passed, we will monitor the impacts of rainfall over coming days and respond as appropriate.

Regards,
Dan

From: Dan Spiller
Sent: Saturday, January 08, 2011 9:00 AM
To: [REDACTED] Lance McCallum [REDACTED] Tim Watts
[REDACTED] Geoff Stead [REDACTED]
[REDACTED] Debbie Best [REDACTED]
Cc: Rob Drury [REDACTED] SEQWGM Media; Damien Brown [REDACTED] Scott Denner
Subject: Water Grid operations update: 8/1/11

All,

Dam releases

Attached is the current technical situation report.

Releases are being made from Somerset, Wivenhoe, North Pine and Leslie Harrison dams, with forecasts of high rainfall totals over the next four days.

For Wivenhoe Dam:

- All five gates are now open with the release rate planned to increase to 1200 cubic metres per second by midday today. This release rate is less than peak release from October 2010.
- The release strategy will continue to be reviewed based on actual rainfall. With significant inflows, it may need to be increased.
- As advised yesterday, a number of local bridges have been inundated by releases and local flows. The Fernvale and Mt Crosby Weir Bridges could potentially also be affected if predicted rainfall totals eventuate.
- The BoM and Seqwater concur that current releases will increase the level of the lower Brisbane River by about 50 to 100mm. There is currently a 40 to 50mm atmospheric anomaly.

Releases from North Pine and Leslie Harrison dams are continuing. Releases from Hinze Dam are expected to be required over the weekend.

Water treatment

In terms of operations, Lockyer Valley flows have again caused a turbidity spike in the Brisbane River. Impacts are expected to peak today at Mt Crosby today, before being diluted by dam releases. There are similar issues at some other locations.

Despite the spike, all key plants are currently operating within critical limits with any impacts being monitored. Seqwater and Linkwater have prepared for potential issues by increasing treated water storage and staffing at some treatment plants. Desalination is at one-third capacity and ready to increase production within two hours of an instruction (but is unlikely to be required in this event).

With forecast rainfall, these type of issues are likely to recur over the remainder of the wet season.

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Sunday, 9 January 2011 8:14 AM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Debbie Best [REDACTED]
Cc: Rob Drury [REDACTED] SEQWGM Media; Damien Brown [REDACTED]
Subject: Water Grid operations update; 9/1
Attachments: Technical Situation Report W32.docx

All,

Current technical situation report.

Key points are:

- () • Wivenhoe Dam is continuing releases at about 116,000 ML/day. Releases are expected to continue until at least Wednesday.
- A severe weather warning remains current for dam catchments. There has been heavy rainfall in the Somerset Dam catchment over the past two hours.
- The release strategy will continue to be reviewed based on actual rainfall.
- Releases are being made so as to avoid inundating the Fernvale and Mt Crosby Weir Bridges. Other flows may impact on the bridges, should the forecast rainfall eventuate.
- North Pine Dam may cease releases today or tomorrow morning, depending upon actual rainfall.
- Many dams and recreation areas are closed.

Please call me on [REDACTED] if you require any further information.

Regards,
Daniel Spiller

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Sunday, 9 January 2011 11:07 PM
To: Stephen Robertson; Ken Smith [REDACTED] Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; Debbie Best [REDACTED]
Cc: 'Rob Drury'; [REDACTED]; SEQWGM Media; Scott Denner; [REDACTED] Damien Brown
Subject: Updated Wivenhoe Dam release strategy
Attachments: Technical Situation Report W34.docx

All,

Latest advice from the Flood Control Centre attached.

There has been 100 to 300mm of rainfall in the Wivenhoe and Somerset dam catchments over the past 24 hours. Rainfall of similar magnitudes is expected over the next 12 to 24 hours.

At this time, including forecast rainfall, total inflows will exceed 1,000,000 ML and may approach 1,500,000 ML - in the order of the 1974 flood volume.

To date, the primary objective for this event has been managing to prevent inundation of the Mt Crosby Weir and Fernvale Bridges.

With the forecast volumes, this primary objective is being changed to minimizing the risk of urban inundation. This involves larger releases now, minimizing the risk of even larger releases later (were the flood compartment to reach high levels).

Urban inundation in the City reaches generally commences at total river flows of about 3,500 cubic metres per second (dam releases plus Lockyer and Bremer). At this time, and depending upon overnight rainfall, the Flood Control Centre is proposing to increase releases from around 1,200 to 2,500 cubic metres per second from midday tomorrow. This provides an allowance for other flows.

The Mt Crosby Weir and Fernvale bridges will certainly be inundated - isolating or inconveniencing many Brisbane valley residents. The timing will depend largely on local flows, with the river having recently increased to be about one foot below the deck. Seqwater is preparing the bridge to be inundated, and may need to close it tonight. However, other flows permitting, we will delay inundating the bridge until tomorrow night - providing notice for impacted residents.

Actions to date:

- Notified Councils (up to the CEO level at BCC)
- Notified Police (Assistant Commissioner)
- Increasing treated water storage and preparing treatment plants, should there again be increased turbidity levels or other operational issues.

A media advice is being prepared now, for review and issue by 7am. The advice will address the closure of the bridges, with the intent of providing as much notice as possible to impacted residents (if not already closed). Impacts on the City reaches will be addressed following further consultation with Council (with there being a 20+ hour transit time).

It is important to note that the dams are managing impacts by delaying and reducing releases. For comparison, peak flows into the dam are forecast to reach up to 7,500 cubic metres per second - excluding any downstream flows.

Please call me on [REDACTED] if you require any further information.

Regards,
Daniel Spiller

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si er ou e
[illegible]
er er
[illegible]

()

()

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Monday, 10 January 2011 5:31 AM
To: Dan Spiller; Stephen Robertson; [REDACTED]; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; 'Debbie Best [REDACTED]
[REDACTED]
Cc: 'Rob Drury'; [REDACTED] SEQWGM Media; Scott Denner; [REDACTED] 'Damien Brown
[REDACTED]
Subject: RE: Updated Wivenhoe Dam release strategy

The Mt Crosby Weir and Fernvale Bridges were both inundated by other flows last night. Councils were advised and are on site.

Dam releases began to be increased overnight, brought forward because the bridges were already and with increasing inflows to storages.

() We are preparing communications and technical information.

Regards,
Dan

From: Dan Spiller
Sent: Sunday, January 09, 2011 11:07 PM
To: [REDACTED] Ken Smith [REDACTED] Lance McCallum
[REDACTED] Tim Watts [REDACTED] Geoff Stead
[REDACTED] Debbie Best
[REDACTED]
Cc: 'Rob Drury'; [REDACTED] SEQWGM Media; Scott Denner;
[REDACTED] Damien Brown [REDACTED]
Subject: Updated Wivenhoe Dam release strategy

All,

() test advice from the Flood Control Centre attached.

There has been 100 to 300mm of rainfall in the Wivenhoe and Somerset dam catchments over the past 24 hours. Rainfall of similar magnitudes is expected over the next 12 to 24 hours.

At this time, including forecast rainfall, total inflows will exceed 1,000,000 ML and may approach 1,500,000 ML - in the order of the 1974 flood volume.

To date, the primary objective for this event has been managing to prevent inundation of the Mt Crosby Weir and Fernvale Bridges.

With the forecast volumes, this primary objective is being changed to minimizing the risk of urban inundation. This involves larger releases now, minimizing the risk of even larger releases later (were the flood compartment to reach high levels).

Urban inundation in the City reaches generally commences at total river flows of about 3,500 cubic metres per second (dam releases plus Lockyer and Bremer). At this time, and depending upon overnight rainfall, the Flood Control Centre is proposing to increase releases from around 1,200 to 2,500 cubic metres per second from midday tomorrow. This provides an allowance for other flows.

The Mt Crosby Weir and Fernvale bridges will certainly be inundated - isolating or inconveniencing many Brisbane Valley residents. The timing will depend largely on local flows, with the river having recently increased to be about one foot below the deck. Seqwater is preparing the bridge to be inundated, and may need to close it tonight. However, other flows permitting, we will delay inundating the bridge until tomorrow night - providing notice for impacted residents.

Actions to date:

- Notified Councils (up to the CEO level at BCC)
- Notified Police (Assistant Commissioner)
- Increasing treated water storage and preparing treatment plants, should there again be increased turbidity levels or other operational issues.

A media advice is being prepared now, for review and issue by 7am. The advice will address the closure of the bridges, with the intent of providing as much notice as possible to impacted residents (if not already closed). Impacts on the City reaches will be addressed following further consultation with Council (with there being a 20+ hour transit time).

It is important to note that the dams are managing impacts by delaying and reducing releases. For comparison, peak flows into the dam are forecast to reach up to 7,500 cubic metres per second - excluding any downstream flows.

Please call me on [REDACTED] if you require any further information.

Regards,
Daniel Spiller

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Monday, 10 January 2011 9:46 AM
To: Stephen Robertson; [REDACTED] Lance McCallum; Tim Watts;
Geoff Stead; Lauren Sims; Best Debbie; [REDACTED]
Cc: Rob Drury; Paul Bird; SEQWGM Media; [REDACTED] Rolly Bob;
[REDACTED] 'Stan Stevenson'
Subject: Water Grid operations update
Attachments: Technical Situation Report W36.docx

All,

Current situation report attached. We are distributing this version of the Technical Support Report to Councils and BoM now. We are seeking their formal input and endorsement by 1pm, prior to finalising and speaking publicly to our release strategy.

For dam operations, key points are:

- There is continuing heavy rainfall in catchments. Total inflows will be at least 1,500,000 ML and probably above 2,100,000 ML.
- As a result, Wivenhoe Dam is above 140% of capacity and Somerset is above 150%, with both rising fast.
- As specified in the approved Operational Procedures, the primary objective is now to minimizing the risk of urban inundation (release strategy W2). This involves larger releases now, minimizing the risk of even larger releases later (were the flood compartment to reach high levels).
- Consistent with this release strategy, dam releases have increased to 1,750 cubic metres per second (150,000 ML/day). It is expected to increase to 2,600 cubic metres per second by midday tomorrow.
- As specified in the approved Operational Manual, we are targeting maximum flow in the Brisbane River of 3,500 cumecs at Moggill. This is the levels above which urban inundation begins.
- For comparison, flows would be up to 12,000 cumecs without the dams.

For water treatment, key points are:

- Key facilities are operating and reservoir levels are high. Mt Crosby WTP is producing at 250 ML/day and desalination at one-third of capacity.
- There are a range of smaller plants that have been impacts, due to inundation of infrastructure, connections or stranding of operators. We are working through these issues and will advise if any become critical.

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: [REDACTED] Fax: [REDACTED] | Mobile: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
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[REDACTED]

From: Barry Dennien [REDACTED]
Sent: Monday, 10 January 2011 11:46 AM
To: Lance McCallum
Subject: FW: Wivenhoe Dam release strategy
Attachments: Technical Situation Report W37.docx

Importance: High

Lance

As discussed

Barry

Dear CEOs

() is teleconference at 12.30pm today is to update you on the current Wivenhoe flood release strategy.

In preparation for this meeting we are intending to send out a Technical Report closer to 12.30pm that will detail the strategy.

Dial in details are:

Phone: [REDACTED]

Pin: [REDACTED]

If you wish to contact me regarding this teleconference, please phone my office on [REDACTED] or mobile [REDACTED]

Carl and Rob,

Attached is the Technical Situation Report drafted by Seqwater following consultation with BoM and Councils.

() y points are:

- There is continuing heavy rainfall in catchments. Total inflows over the event will be at least 1,500,000 ML and probably above 2,100,000 ML.
- As a result, Wivenhoe Dam is above 140% of capacity and Somerset is above 150%, with both rising fast.
- As specified in the approved Operational Procedures, the primary objective is now to minimizing the risk of urban inundation (release strategy W2). This involves larger releases now, minimizing the risk of even larger releases later (were the flood compartment to reach high levels).
- Consistent with this release strategy, dam releases have increased to 2,000 cubic metres per second (172,000 ML/day). It is expected to increase to 2,600 cubic metres per second by midday tomorrow.
- As specified in the approved Operational Manual, we are targeting maximum flow in the Brisbane River of 3,500 cumecs at Moggill. This is the levels above which urban inundation begins.
- For comparison, flows would be up to 12,000 cumecs without the dams.

Seqwater has previously had verbal conversations with Council staff regarding impacts. However, given the significance of this event, and consistent with the draft protocol, we are seeking formal Council input to this version. This advice would relate to the impact of releases, based on the type of scenario analysis that you described this morning.

Our preference would be to finalise the report, including your input, before or at the 12.30 teleconference with Council CEOs and the BoM. This timing means that it can underpin all media messaging this afternoon.

I appreciate your assistance. Please call me if I can be of any assistance.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [REDACTED]

Email: [REDACTED]

Visit: Level 15, 53 Albert Street Brisbane

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Monday, 10 January 2011 4:22 PM
To: Stephen Robertson; [REDACTED]; Lance McCallum; Tim Watts;
Geoff Stead; Lauren Sims; Best Debbie; [REDACTED]
Cc: Paul Bird; SEQWGM Media; [REDACTED] Reilly Bob;
[REDACTED] 'Stan Stevenson'; 'Stan Stevenson'
Subject: Water Grid water supply update

All,

While most of the Water Grid is operating well, there are a number of incidents affecting areas with stand-alone supplies.

We have issued a boil water notice for areas supplied from a small treatment plant off Atkinson Dam. The treatment plant supplies about 20 people, including a couple of houses.

Jimna and Linville we are relying upon treated water storage. These towns both have about 100 residences and are currently isolated. We are arranging site access for operators through EMQ. We will also work with EMQ to ensure that essential supplies are maintained. In the meantime, we are using local radio to ask residents to use water wisely. With efficient use, reservoir levels should be sufficient for at least two days.

At Kilcoy, the treatment plant is offline due to power outages. Energex is treating this as a priority but has not yet been able to access its site. In the meantime, we will ask local residents to use water wisely and develop contingency plans for resupply. While this is a larger town, reservoir levels should also be sufficient for at least two days with efficient use.

At Kenilworth, the treatment plant has been flooded and will be out of operation for some days. Three trucks have been arranged to start deliveries from tomorrow. These deliveries should be sufficient to maintain reservoirs at current levels (about two days supply).

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: (07) [REDACTED] Fax: (07) [REDACTED] | Mobile: [REDACTED]

Email: [REDACTED]

Visit: Level 15, 53 Albert Street Brisbane

Post: PO Box 16205, City East QLD 4002

ABN: 14783 317 630

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[illegible]

()

()

[REDACTED]

From: Barry Dennien [REDACTED]
Sent: Monday, 10 January 2011 4:37 PM
To: Stephen Robertson; [REDACTED]; Lance McCallum; Tim Watts;
Geoff Stead; Lauren Sims; [REDACTED]
Cc: [REDACTED] SEQWGM Media; [REDACTED]
[REDACTED] Dan Spiller; Scott Denner
Subject: FW: FLDWARN for Lower Brisbane and Bremer Rs [SEC=UNCLASSIFIED]

Folks

For Information

Barry Dennien

(0::BOM615

IDQ20805

Australian Government Bureau of Meteorology Queensland

PRIORITY

FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER BELOW WIVENHOE INCLUDING BRISBANE CITY Issued at 4:16 PM on Monday the 10th of January 2011 by the Bureau of Meteorology, Brisbane.

Stream level rises causing moderate to major flooding are being recorded in Lockyer Creek, Warrill Creek and along the Bremer River. Major flood levels are likely at Ipswich during Tuesday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River flows from the Bremer and Lockyer catchments combined with releases from Wivenhoe dam are expected to increase levels in Brisbane overnight and through Tuesday.

At the Brisbane City Gauge, a river levels of about 2.1 metres is expected with the afternoon high tide on Tuesday and about 3 metres is expected with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

LOCKYER CREEK:

Further rainfall during Monday has led to renewed rises in the Lockyer Creek catchment. Rainfall is forecast to continue this evening and a return to moderate to major flood levels is expected overnight and during Tuesday. Major flood levels are expected to continue at Lyons Bridge with rises above 15 metres likely during Tuesday.

BREMER RIVER:

Rainfall during Monday will lead to renewed rises and a return to moderate flood levels along the Bremer River to Walloon. Levels over 5 metres are expected at Rosewood overnight.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday afternoon. Higher levels are possible.

WARRILL CREEK

Further rainfall during Monday will lead to increasing river levels along Warrill Creek with levels expected to reach above 6 metres at Amberley overnight.

MIDDLE AND LOWER BRISBANE:

SEQwater advises releases from Wivenhoe Dam will increase during Monday.

Moderate flooding is expected at Savages Crossing and at Mt Crosby Weir overnight tonight and during Tuesday.

The Brisbane River at the City Gauge (lower end of Edward Street and at Thornton Street) is expected to reach about 2.1 metres with the afternoon high tide on Tuesday and reach about 3 metres with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon. Quicker rises and higher levels are possible depending on further rainfall tonight.

Moggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres with the afternoon high tide on Tuesday.

Reach about 3 metres with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 9pm Monday.

Latest River Heights:

Lockyer Ck at Galton #	10.36m steady	03:04 PM MON 10/01/11
Laidley Ck at Laidley	6m rising	02:45 PM MON 10/01/11
Laidley Ck at Showground Weir #	6.98m rising	03:07 PM MON 10/01/11
Laidley Ck at Warrego Hwy *	5.43m falling	01:00 PM MON 10/01/11
Lockyer Ck at Glenore Grove #	11.36m falling	03:05 PM MON 10/01/11
Lockyer Ck at Lyons Br #	14.79m rising	03:02 PM MON 10/01/11
Lockyer Ck at Rifle Range Rd *	13.4m rising	08:20 AM MON 10/01/11
Brisbane R at Lowood Pump Stn #	14.13m falling	03:07 PM MON 10/01/11
Brisbane R at Savages Crossing #	14.15m rising	03:09 PM MON 10/01/11
Brisbane R at Burtons Br #	10.88m rising	03:05 PM MON 10/01/11
Brisbane R at Kholo Br #	6.23m rising	03:06 PM MON 10/01/11
Brisbane R at Mt Crosby #	14.26m rising	03:07 PM MON 10/01/11
Brisbane R at Colleges Crossing #	11.96m rising	03:09 PM MON 10/01/11
Bremer R at Spicers Br #	5.07m rising	03:09 PM MON 10/01/11
Bremer R at Rosewood #	4.94m rising	03:02 PM MON 10/01/11
Bremer R at Five Mile Br Walloon #	5.12m falling	03:09 PM MON 10/01/11
Warrill Ck at Harrisville #	3.82m rising	03:05 PM MON 10/01/11
Warrill Ck at Amberley DNR *	5.34m rising	08:10 AM MON 10/01/11
Bremer R at Ipswich #	6.6m rising	02:40 PM MON 10/01/11
Brisbane R at Moggill #	5.52m rising	02:59 PM MON 10/01/11
Brisbane R at Jindalee Br #	3.7m rising	02:50 PM MON 10/01/11
Brisbane R at City Gauge #	1.36m falling	03:09 PM MON 10/01/11

*automatic station

Warnings and River Height Bulletins are available at <http://www.bom.gov.au/qld/flood/>. Flood Warnings are also available on telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile, public and satellite phones.

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QLD Bulk Water Supply Authority ABN75450239876 (Trading as Seqwater).

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[REDACTED]

From: Jade Simmons [REDACTED]
Sent: Tuesday, 11 January 2011 2:27 PM
To: Geoff Stead; Michael Lyons; SEQWGM Media
Cc: Tim Watts; Lance McCallum; Lauren Sims; Megan Saunders; Premiers Office - Media Unit
Subject: RE: Wyaralong Dam

Thanks Geoff,

I am preparing the update now, will call Frank.

Regards
Jade

-----Original Message-----

From: Geoff Stead [mailto:[REDACTED]]
Sent: Tuesday, 11 January 2011 8:30 AM
To: Michael Lyons; Jade Simmons; SEQWGM Media
Cc: Tim Watts; Lance McCallum; [REDACTED] Megan Saunders; Premiers Office - Media Unit
Subject: Wyaralong Dam

Hi all, we have been advised Wyaralong Dam will spill inside the next hour. Although the dam is yet to be commissioned and therefore not in our portfolio, I would advise it might be prudent to include a line on the dam's situation in our next update. The best contact for the latest on Wyaralong is QWI CEO Frank Carroll 0408 730 431. Let me know if there are any problems with this request. Thanks, G

Geoff Stead
Senior Media Advisor
Office of the Hon Stephen Robertson MP
Minister for Natural Resources, Mines and Energy and Trade
P: [REDACTED]
M: [REDACTED]
E: [REDACTED]

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 7:17 AM
To: Stephen Robertson; 'Ken Smith' [REDACTED]; Lance McCallum;
Tim Watts; Geoff Stead; Lauren Sims; [REDACTED]
Cc: Barry Dennlen; [REDACTED]; 'Rob Drury'; [REDACTED]
'Damien Brown' [REDACTED]
Subject: Water Grid dam release strategy
Attachments: Technical Situation Report W38.docx

All,

Attached is the latest report, with the BoM warning on the Lockyer flood below.

Key points are:

- Current releases are 2,750 cubic metres per second (about 240,000 ML/day). Due to heavy rainfall in the catchment, it was not possible to reduce releases to allow the Lockyer Valley flows to pass.
- Further rainfall may result in the need to increase releases.
- Wivenhoe Dam is at 73.51m AHD and rising at about 25mm/hour. Above 74m, the primary objective becomes maintaining the security of the dam. Releases would be increased at this level with less scope for consideration of downstream impacts.

The BoM is remodeling based on this release strategy. There is some uncertainty about the level of flows coming from the Lockyer.

Please call me on [REDACTED] if you require any further information.

Debbie and Tim: I recommend that a briefing for the Minister would be appropriate, perhaps around 10am.

Regards,
Daniel Spiller

()
Australian Government Bureau of Meteorology Queensland

PRIORITY
FLOOD WARNING FOR THE LOCKYER, BREMER, WARRILL AND BRISBANE RIVER BELOW WIVENHOE INCLUDING BRISBANE CITY Issued at 4:06 AM on Tuesday the 11th of January 2011 by the Bureau of Meteorology, Brisbane.

The main flood waters in the Lockyer Creek are now arriving at Lyons Bridge, with strong stream rises expected during Tuesday.

Wivenhoe dam is providing significant mitigation of upper Brisbane floods. River flows from the Bremer and Lockyer catchments combined with releases from Wivenhoe dam are expected to increase levels in Brisbane during Tuesday.

At the Brisbane City Gauge, minor flood levels of about 2.1 metres are expected with the afternoon high tide on Tuesday and levels of about 3 metres are expected with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

LOCKYER CREEK:

Extremely heavy rainfall during Monday led to extreme rises in the Lockyer Creek catchment and Laidley Creek at Mulgowie. Record flood levels of 18.92 metres were recorded at Gatton Monday evening before the station failed. This level was well above the previous record peak of 16.33 metres from the February 1893 flood.

The main flood waters are currently arriving at Lyons Bridge, with strong stream rises expected in the next few hours. The Lockyer Creek at Glenore Grove peaked at 14.60 metres at 11:30pm, which is 0.3 metres below the 1974 flood.

Renewed stream rises have commenced in Lockyer Creek at Lyons Bridge with a peak between 16 and 16.5 metres expected Tuesday morning. This is likely to be similar in level to the 1996 flood.

BREMER RIVER:

The Bremer River at Walloon has exceeded the moderate flood level. The Bremer River at Rosewood peaked at 5.8 metres around midnight Monday.

The Bremer River at Ipswich is expected to reach about 12.7 metres on Tuesday afternoon. Higher levels are possible.

WARRILL CREEK

Warrill Creek at Amberley peaked at 5.98 metres around 9pm Monday.

MIDDLE AND LOWER BRISBANE:

Moderate flooding is developing at Savages Crossing and at Mt Crosby Weir.

At the Brisbane City Gauge (lower end of Edward Street and at Thornton Street), minor flood levels of about 2.1 metres are expected with the afternoon high tide on Tuesday and levels of about 3 metres are expected with the high tides on Wednesday causing moderate flooding.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Predicted River Heights/Flows:

Ipswich: Reach about 12.7 metres (major) during Tuesday afternoon.

(Joggill: Reach about 12 metres (minor) during Tuesday afternoon.

Jindalee: Reach about 7 metres (minor) overnight Tuesday.

Brisbane: Reach about 2.1 metres (minor) with the afternoon high tide on Tuesday. Reach about 3 metres (moderate) with the high tides on Wednesday.

(3 metres at the Brisbane City gauge is about 1.5 metres higher than the highest tide of the year at this location).

Further rises are possible at all four locations depending on further rain.

Next Issue:

The next warning will be issued at about 8am Tuesday.

Latest River Heights:

Lockyer Ck at Helidon #	12.68m steady	03:02 PM MON 10/01/11
Flagstone Ck at Brown-Zirbels Rd *	3.49m falling	02:10 AM TUE 11/01/11
Sandy Creek at Sandy Creek Road #	2.15m falling	03:19 AM TUE 11/01/11
Ma Ma Ck at Harm's *	3.26m rising	02:30 AM TUE 11/01/11
Tenthill Ck at Tenthill *	5.57m rising	02:40 AM TUE 11/01/11

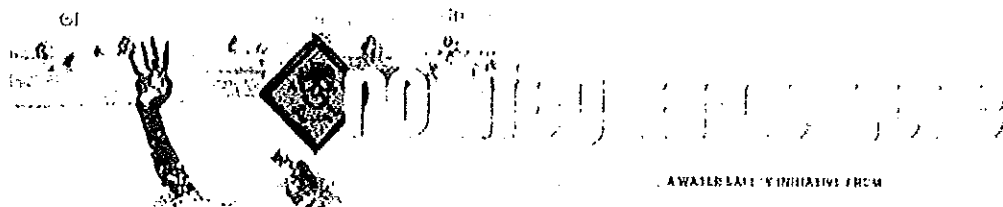
Lockyer Ck at Gatton #	18.92m rising	06:30 PM MON 10/01/11
Laidley Ck at Mulgowie *	6.39m rising	02:20 AM TUE 11/01/11
Laidley Ck at Laidley	8.7m falling slowly	10:00 PM MON 10/01/11
Laidley Ck at Showground Weir #	7.84m rising	03:25 AM TUE 11/01/11
Laidley Ck at Warrego Hwy *	6.41m rising	02:00 AM TUE 11/01/11
Lockyer Ck at Glenore Grove #	13.8m falling	03:24 AM TUE 11/01/11
Lockyer Ck at Lyons Br #	15.55m rising	03:23 AM TUE 11/01/11
Lockyer Ck at Rifle Range Rd *	15.39m rising	02:40 AM TUE 11/01/11
Lockyer Ck at O'Reilly's Weir #	18m falling	03:28 AM TUE 11/01/11
Brisbane R at Lowood Pump Stn #	15.93m falling	03:31 AM TUE 11/01/11
Brisbane R at Savages Crossing #	15.89m rising	03:29 AM TUE 11/01/11
Brisbane R at Burtons Br #	12.22m rising	03:29 AM TUE 11/01/11
Brisbane R at Kholo Br #	7.99m rising	03:29 AM TUE 11/01/11
Brisbane R at Mt Crosby #	15.82m steady	03:30 AM TUE 11/01/11
Brisbane R at Mt Crosby #	14.08m falling	04:39 PM MON 10/01/11
Brisbane R at Colleges Crossing #	13.91m rising	03:32 AM TUE 11/01/11
Bremer R at Rosewood#	5.56m falling	03:11 AM TUE 11/01/11
Bremer R at Five Mile Br Walloon #	6.4m rising	03:15 AM TUE 11/01/11
Warrill Ck at Greens Rd Amberley #	5.84m falling	03:29 AM TUE 11/01/11
Bremer R at One Mile Br #	13.75m rising	03:31 AM TUE 11/01/11
Bremer R at Hancocks Br Brassall #	11.33m rising	03:22 AM TUE 11/01/11
Bremer R at Ipswich #	8.55m rising	03:31 AM TUE 11/01/11
Brisbane R at Moggill #	7.07m rising	03:29 AM TUE 11/01/11
Brisbane R at Jindalee Br #	4.5m rising	03:29 AM TUE 11/01/11
Brisbane R at City Gauge #	1.4m falling	03:15 AM TUE 11/01/11

*automatic station

Warnings and River Height Bulletins are available at <http://www.bom.gov.au/qld/flood/>.
Flood Warnings are also available on telephone 1300 659 219 at a low call cost of 27.5 cents, more from mobile, public and satellite phones.

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Swimming in weirs and
flowing water is **FA**

rethink

www.segwater.com.au

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 1:18 PM
To: [REDACTED] Stephen Robertson; Ken Smith
[REDACTED] Lance McCallum; Tim Watts; Lauren Sims;
[REDACTED] Debbie Best
[REDACTED] Geoff Stead
Cc: Barry Dennien; Peter Borrows; Rob Drury [REDACTED] Stan Stevenson;
[REDACTED]
Subject: Wivenhoe Dam release update
Attachments: Image001.png; Technical Situation Report W39 (2).docx

All,

Attached is the updated Technical Situation Report.

Releases from Wivenhoe Dam have needed to be increased to 3,970 cubic metres per second. BoM is modelling based on this strategy.

() Based on these releases, Wivenhoe Dam will peak at between 74.5 and 74.8m with no further inflows.

Further inflows will require further releases. Seqwater is considering worst case scenarios to provide to BoM and BCC to model impacts.

Regards,
Daniel Spiller

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[REDACTED]

From: Petula Martinz [REDACTED]
Sent: Tuesday, 11 January 2011 6:44 PM
To: Barry Dennien; Bob Reilly; Damien Brown; Darren Madgwick; Geoff Stead; Ken Smith; Kerry Dunn; Lance McCallum; Lauren Sims; Peter Borrows; Peter Martin; Rob Drury; SEQWGM Emergency; Stephen Robertson; Terry Wall; Tim Watts; SEQWGM Media; [REDACTED]
Subject: Updated technical support report
Attachments: Technical Situation Report W41.docx

All,

Updated report attached.

Regards,
Dan

Petula Martinz
Executive Assistant to Daniel Spiller
Director Operations
SEQ Water Grid Manager
Phone: (07) [REDACTED] | Fax: (07) [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street, Brisbane
Post: PO Box 16205, City East Qld 4002
ABN: 14783 317 630

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 10:19 PM
To: Stephen Robertson; Lance McCallum; Tim Watts; Geoff Stead; Lauren Sims; John Bradley [REDACTED] Debbie Best [REDACTED] Ken Smith [REDACTED]
Cc: Rob Drury [REDACTED]; Barry Dennlen; Peter Borrows; SEQWGM Media; SEQWGM Emergency; [REDACTED]
Subject: Wivenhoe Dam update
Attachments: Technical Situation Report W44.docx

All,

Attached is the most recent technical situation report.

Note that Wivenhoe Dam levels have stabilised and are now falling slowly. Without further rainfall, release rates will be reduced progressively. The first reduction will be to 7,100 cubic metres per second.

()
Regards,
Daniel Spiller

[REDACTED]

From: Petula Martinz [REDACTED] on behalf of Dan Spiller
Sent: Tuesday, 11 January 2011 9:04 PM
To: Ken Smith; Dan Spiller; [REDACTED]
Cc: [REDACTED] Barry Dennien;
[REDACTED] Tim Watts; Lance McCallum;
[REDACTED]
Subject: RE: Request for logistic support - SEQ Water Grid

Ken,

Seqwater has been able to access a commercial helicopter for the day. That will be sufficient for the survey of reservoirs.

We will still require assistance with the supply of bottled water, and will continue to liaise with SDCC about that.

Thanks for your assistance.

Dan

From: Ken Smith [mailto:[REDACTED]]
Sent: Tuesday, 11 January 2011 7:06 PM
To: Dan Spiller; [REDACTED]
Cc: [REDACTED] Barry Dennien; [REDACTED]
[REDACTED]
Subject: Re: Request for logistic support - SEQ Water Grid

Dan

I will take up these logistical support issues with a/asst commissioner Alistair Dawson

From: Petula Martinz <[REDACTED]>
() Peter Martin <[REDACTED]> Kerry Dunn <[REDACTED]>
Cc: Ken Smith; [REDACTED] Barry Dennien
<[REDACTED]> Darren Madgwick <[REDACTED]> Tim Watts
<[REDACTED]> Lance McCallum <[REDACTED]>
Sent: Tue Jan 11 19:00:36 2011
Subject: FW: Request for logistic support - SEQ Water Grid

All,

As noted below, there are a number of stand-alone towns in the Scenic Rim and Somerset areas that have run out of supply or are expected to do so tomorrow.

Most of these towns are isolated. While we have tanker trucks on standby, these cannot access the areas. We also cannot access the reservoirs to confirm the amount in storage and the need and priority to supply of bottled water.

Our recommendation is that a helicopter be prioritised to early tomorrow to:

- transport operators to the Kilcoy site, which should be able to recommence supply (avoiding the need for air supply of bottled water)
- transport a QUU and a Seqwater officer to other isolated towns, allowing them to confirm remaining reservoir levels and provide advice and the need for supply of bottled water.

We are preparing a proposed itinerary and timetable.

We appreciate that these resources will need to be prioritised against other needs. We appreciate your advice and assistance.

We are receiving good support on a number of other issues.

Regards,
Dan

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 6:46 PM
To: [REDACTED]
Cc: SEQWGM Emergency; Dan Spiller
Subject: FW: Request for logistic support - SEQ Water Grid
Importance: High

Further to the below, please find attached the latest update. Please note that Fernvale a sub-district of Lowood is now out of water. It is the highest priority for resupply of potable water within the attached list.

We do not have any internal capacity to carry out the resupply to Fernvale as it is cut off by road.

Please acknowledge receipt and do not hesitate to contact our Emergency Manager on [REDACTED]

Regards,

Scott Denner
Duty Emergency Executive
[REDACTED]

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 4:25 PM
To: [REDACTED]
Cc: SEQWGM Emergency
Subject: Request for logistic support - SEQ Water Grid

Per telecom at 1605hr, please find attached a log of requested support tasks consisting of 5 towns requiring the supply of potable water (thru tanker or bottled water), and one water treatment plant requiring a resupply of lime.

The attachment includes detail of the time-line for supply of water to townships, based on what remains within the reservoirs at present.

With regards to the Water Treatment Plant, we have procured some lime, but are unable to get it to the plant. The plant supplies approx 40,000 pers on the Sunshine Coast, and will fail within 24 hours.

Included in the attachment are the contact details for personnel at a local level best able to answer queries and to coordinate movements and local support.

Regards

Scott Denner
Duty Emergency Executive
[REDACTED]

[illegible]

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 10:40 PM
To: Ken Smith; [REDACTED]
Cc: [REDACTED] Barry Dennien; [REDACTED] Tim Watts; Lance McCallum; [REDACTED]
Subject: RE: Request for logistic support - SEQ Water Grid

All,

A helicopter has been arranged through

Thank you for your assistance

Regards,
Dan

From: Ken Smith [REDACTED]
Sent: Tuesday, January 11, 2011 7:06 PM
To: Dan Spiller; [REDACTED]
Cc: [REDACTED] Barry Dennien; [REDACTED]
Subject: Re: Request for logistic support - SEQ Water Grid

Dan

I will take up these logistical support issues with a/asst commissioner Alistair Dawson

From: Petula Martinz <[REDACTED]>
To: Peter Martin <[REDACTED]>, Kerry Dunn <[REDACTED]>
Cc: Ken Smith; [REDACTED] Barry Dennien
[REDACTED] Darren Madgwick <[REDACTED]>; Tim Watts
[REDACTED] Lance McCallum <[REDACTED]>
Sent: Tue Jan 11 19:00:36 2011
Subject: FW: Request for logistic support - SEQ Water Grid

All,

As noted below, there are a number of stand-alone towns in the Scenic Rim and Somerset areas that have run out of supply or are expected to do so tomorrow.

Most of these towns are isolated. While we have tanker trucks on standby, these cannot access the areas. We also cannot access the reservoirs to confirm the amount in storage and the need and priority to supply of bottled water.

Our recommendation is that a helicopter be prioritised to early tomorrow to:

- transport operators to the Kilcoy site, which should be able to recommence supply (avoiding the need for air supply of bottled water)
- transport a QUU and a Seqwater officer to other isolated towns, allowing them to confirm remaining reservoir levels and provide advice and the need for supply of bottled water.

We are preparing a proposed itinerary and timetable.

We appreciate that these resources will need to be prioritised against other needs. We appreciate your advice and assistance.

We are receiving good support on a number of other issues.

Regards,
Dan

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 6:46 PM
To: [REDACTED]
Cc: SEQWGM Emergency; Dan Spiller
Subject: FW: Request for logistic support - SEQ Water Grid
Importance: High

Further to the below, please find attached the latest update. Please note that Fernvale a sub-district of Lowood is now out of water. It is the highest priority for resupply of potable water within the attached list.

We do not have any internal capacity to carry out the resupply to Fernvale as it is cut off by road.

Please acknowledge receipt and do not hesitate to contact our Emergency Manager on [REDACTED] (24/7).

Regards,

Scott Denner
Duty Emergency Executive
[REDACTED]

From: Lee Hutchison
Sent: Tuesday, 11 January 2011 4:25 PM
To: [REDACTED]
Cc: SEQWGM Emergency
Subject: Request for logistic support - SEQ Water Grid

Per telecom at 1605hr, please find attached a log of requested support tasks consisting of 5 towns requiring the supply of potable water (thru tanker or bottled water), and one water treatment plant requiring a resupply of lime.

The attachment includes detail of the time-line for supply of water to townships, based on what remains within the reservoirs at present.

With regards to the Water Treatment Plant, we have procured some lime, but are unable to get it to the plant. The plant supplies approx 40,000 pers on the Sunshine Coast, and will fail within 24 hours.

Included in the attachment are the contact details for personnel at a local level best able to answer queries and to coordinate movements and local support.

Regards

Scott Denner
Duty Emergency Executive
[REDACTED]

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Tuesday, 11 January 2011 11:43 PM
To: Stephen Robertson; 'Ken Smith' [REDACTED]
[REDACTED] Lance McCallum; Tim Watts; Geoff Stead; Lauren
Sims; [REDACTED]
Cc: Barry Dennien; [REDACTED] 'Rob Drury'; SEQWGM Media; SEQWGM
Emergency; [REDACTED] 'Damien Brown'
[REDACTED]
Subject: Updated Wivenhoe Dam releases
Attachments: Technical Situation Report W46.docx

All,

Updated report attached.

At 2300, Wivenhoe Dam was at 74.92m AHD (190.4%) and holding.

The Flood Operations Centre has commenced a closure sequence. At 2330, releases will be reduced to 6,100 cubic metres per second.

The centre will continue to monitor rainfall and inflows and adjust as necessary.

With releases having peaked, the next report will be provided at 0500.

Regards,
Dan

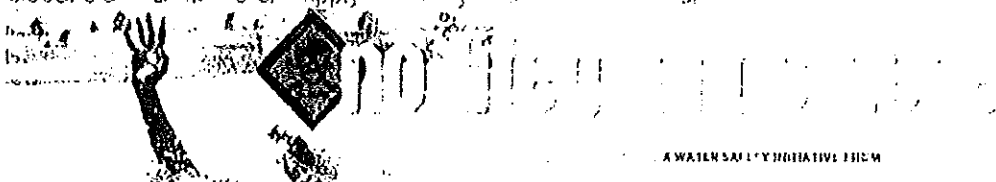
From: Rob Drury [REDACTED]
Sent: Tuesday, January 11, 2011 11:21 PM
To: Rob Drury; Dan Spiller; Paul Bird; Stan Stevenson; Peter Borrows; [REDACTED]
Cc: David Roberts; Duty Seq
Subject: RE: Technical Report

Attached report W46.

Next report will be 5am Wednesday 12.1.2011.

Rob

For further information,
contact the
Water Delivery
Queensland Branch or the Supply
[REDACTED]



Swimming in weirs and
flowing water is **FA**

rethink

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SAFETY

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[illegible]

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 12 January 2011 5:37 AM
To: Stephen Robertson; [REDACTED] Bradley John; Lance McCallum;
Tim Watts; Geoff Stead; Lauren Sims; [REDACTED]
[REDACTED] Best Debbie
Cc: Barry Dennien; Peter Borrows; Rob Drury; SEQWGM Media; SEQWGM Emergency;
[REDACTED] Reilly Bob
Subject: Dam release update
Attachments: Technical Situation Report W47.docx

All,

Attached is the most recent situation report.

There was minimum rainfall in the catchment last night, meaning that dam levels and release rates were reduced.

Wivenhoe Dam is currently at 188%, having peaked at about 191% (74.97m AHD, about 0.6m below the first fuse peak). Somerset Dam is at about 190%, which is its peak level.

Releases are now at 4,300 cubic metres per second (about 370,000 ML/day), having peaked at 7,500 cubic metres per second (about 650,000 ML/day) for a couple of hours.

We will update the report about every three hours. The next report will include more information about the closing sequence, including the broad timeframes for dam levels to be reduced. Note that, while dam levels are reducing, they remain at critical levels.

An update on water treatment will be provided later this morning.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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1. The first part of the document is a list of names and addresses. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a list of dates and times. The dates are: 1/1/2020, 2/1/2020, and 3/1/2020. The times are: 10:00 AM, 2:00 PM, and 6:00 PM.

3. The third part of the document is a list of numbers and symbols. The numbers are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The symbols are: +, -, *, /, %, ^, &, @, #, \$.

()

()

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 12 January 2011 9:00 AM
To: Stephen Robertson; [REDACTED] 'Bradley John'; Lance McCallum;
Tim Walls; Geoff Stead; Lauren Sims; [REDACTED]
[REDACTED] 'Best Debbie'
Cc: Barry Dennien; 'Peter Borrows'; 'Rob Drury'; SEQWGM Media; SEQWGM Emergency;
[REDACTED] 'Reilly Bob'
Subject: Dam release update
Attachments: Technical Situation Report W48.docx

All,

Attached is an updated Technical Support Report, including advice about the gate closure process.

Note that releases have been reduced to 2,500 cubic metres per second while peak Lockyer Valley flows pass. Increases will then increase to 3,500 cubic metres per second.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager

Phone: (07) [REDACTED] Fax: (07) [REDACTED] Mobile: [REDACTED]

Email: [REDACTED]

Visit: Level 15, 53 Albert Street Brisbane

Post: PO Box 16205, City East QLD 4002

ABN: 14783 317 630

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[REDACTED]

From: Water Grid Emergency Manager [REDACTED]
Sent: Wednesday, 12 January 2011 1:45 PM
To: Lance McCallum
Subject: Update regarding Water Grid Supply Situation

All,

Water supply status across the Water Grid is as follows.

WE, WATERSECURE AND SEQWATER ARE EXPERIENCING EMAIL ISSUES. ALL EMAILS SHOULD BE SENT TO THIS ADDRESS [REDACTED] FOR KEY ISSUES, PLEASE ALSO CONFIRM RECEIPT VIA SMS OR MOBILE.

Water quality

All water continues to meet quality requirements.

The exception is supply to about 20 people at Atkinson, where a boiled water notice has been issued.

Stand-alone towns

We are carting water to Kenilworth and Dayboro, though capacity may be limited.

Helicopters have been hired to enable supply of bottled water to other towns, in partnership with QUU. Supply is being prioritised based on remaining storage. Critical towns include Jimna, Linville and Withcott, which are all relatively small.

We are seeking to bring the standby water treatment plant online at Kilcoy/Somerset. This town is significantly larger than the others currently being supplied bottled water.

Central SEQ

In central SEQ, water storage levels remain high.

Reservoirs are likely to be drawn down over coming days, with the extent of drawdown depending upon demand and any asset failures (both bulk and local).

Available supply capacity to the central area is up to about 320 ML/day. Typical demand in this area is about 370 ML/day. The 50 ML/day difference will be supplied by drawing down reservoirs. Conservation is important to minimise drawdown.

Every effort is being made to have more water available by Friday, in order to ensure water is available for clean up.

In term of treatment assets:

- Mt Crosby East Bank WTP is offline. The raw water pump station is very close to being flooded, which may result in the plant remaining offline for some time.
- Mt Crosby West Bank WTP has been producing at reduced capacity due to poor water quality (about 135 ML/day). Water quality is being closely monitored
- At North Pine WTP, poor water quality has restricted treatment capacity.
- The Southern Regional Water Pipeline has been transporting about 95 ML/day to central SEQ. It is being supplied from the Molendinar WTP and the desalination facility, which is operating at two-thirds capacity.

A number of major plants are isolated. Another helicopter has been hired to ferry staff.

Chemical supply

Inundation has created logistic problems for the supply of chemicals into and within SEQ.

These issues are currently being managed, with all plants having at least two day supply of all chemicals and access to plants improving.

The most critical issue is the supply of lime to the Landershute WTP, which is the sole supply for about 40,000 people on the Sunshine Coast (pending completion of NPI Stage 2). Supply of 5 tonnes of bagged lime has been arranged, ensuring that supply can continue until at least tomorrow. Further supplies are being arranged.

Coordination

I am the Emergency Manager. I am available on [REDACTED]

An Emergency Management Team has been formed. The emergency room can be contacted on [REDACTED]

Operational teams have been formed with all Grid participants and relevant agencies. Teams include:

- Stand-alone towns
- Water balance
- Water quality
- Chemical logistics
- Resource logistics.

(Please call me on [REDACTED] if you require any further information.

Regards,

Water Grid Emergency Manager

Daniel Spiller

[Click here to acknowledge this message](#)

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 12 January 2011 3:52 PM
To: Stephen Robertson; [REDACTED] 'Bradley John'; Lance McCallum;
Tim Watts; Geoff Stead; Lauren Sims; [REDACTED]
[REDACTED] 'Best Dabble'
Cc: Barry Dennien; 'Peter Borrows'; 'Rob Drury'; SEQWGM Media; SEQWGM Emergency;
[REDACTED]; 'Reilly Bob';
Subject: Dam release update
Attachments: Technical_Situation_Report_W50.docx

All,

Attached is an updated Technical Support Report, including advice about the gate closure process.

The Wivenhoe Dam release rate has been maintained at 2,500 cubic metres per second. Dam levels have reduced slightly.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Wednesday, 12 January 2011 8:34 PM
To: Stephen Robertson; [REDACTED]; 'Bradley John'; Lance McCallum;
Tim Watts; Geoff Stead; Lauren Sims; [REDACTED];
[REDACTED]; 'Best Debbie'
Cc: Barry Dennien; 'Peter Borrowes'; 'Rob Drury'; SEQWGM Media; SEQWGM Emergency;
[REDACTED]; 'Reilly Bob';
[REDACTED]
Subject: RE: Dam release update
Attachments: Technical_Situation_Report_W51.docx

All,

Attached is an updated Technical Support Report.

Please call me on [REDACTED] if you require further information.

Regards,
Dan

Daniel Spiller
Director, Operations
SEQ Water Grid Manager
Phone: (07) [REDACTED] | Fax: (07) [REDACTED] | Mobile: [REDACTED]
Email: [REDACTED]
Visit: Level 15, 53 Albert Street Brisbane
Post: PO Box 16205, City East QLD 4002
ABN: 14783 317 630

Please consider the environment before printing this email. It takes 10 litres of water to make one sheet of A4 paper.

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[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Thursday, 13 January 2011 3:31 AM
To: [REDACTED] 'Bradley John'; [REDACTED] Tim Watts; Lance McCallum; Geoff Stead; Stephen Robertson
Cc: Barry Dennien; [REDACTED] 'Best Debbie'; [REDACTED]
Subject: Update on Water Grid supply situation
Attachments: Water balance_130111.docx

Update attached for information.

Please call me on [REDACTED] if you require any further information.

Regards,
Daniel Spiller

Central SEQ water balance

- On 12 January 2011, bulk water storage in central South East Queensland (Brisbane, Ipswich and Logan) reduced by a third from 338 to 215 ML.
- Most of the reduction was due to both of the Mt Crosby water treatment plants being taken offline.
 - The East Bank water treatment plant was partially inundated, forcing it to be shutdown for at least two days. Recovery is underway.
 - Raw water quality reduced during the day, causing treated water from the West Bank water treatment plant to exceed standard operational limits. Raw water quality increased from 1100 to 1700 NTU during the day.
- Without supply from Mt Crosby, key reservoirs around Ipswich would have been depleted on 13 January 2011.
- Table 1 lists expected production on 13 January. These are maximum production values, excluding any allowance for mechanical or other failures. By comparison, total production on 12 January was less than 200 ML due to Mt Crosby WTP being offline for much of the day and the Northern Pipeline Interconnector supplying north rather than south.
- The table also includes an indication of additional supplies that could potentially become available on 14 January, as the clean up commences. These additional supplies are subject to operational considerations, such as rectification of flood damage. Only some of these supplies are likely to become available.

Table 1: Supply to central SEQ (Brisbane, Ipswich and Logan)

Source	Planned production 13 January (ML)	Potential additional production from 14 January (ML)
Northern Pipeline Interconnector	25	
North Pine WTP	100	50
Petrie WTP	0	
Mt Crosby West Bank WTP	150	50
Mt Crosby East Bank WTP	0	100
Eastern Pipeline Interconnector	7	
Logan interconnector	20	
Southern Regional Water Pipeline ¹	100	110
Enoggera WTP and Brisbane Aquifer Project	0	TBD
Total	402	

¹ Includes supply from desalination facility.

- These supplies exceed estimated demand scenarios for the clean up period in central SEQ, as illustrated in Table 2. Forecasts are based on:
 - the proportion of residences in the area that are likely to be inundated
 - for impacted areas, demand being about double typical consumption

- for other areas, demand being around current levels.
- The forecasts highlight the importance of water conservation outside of the impacted areas, as a contingency against further operational issues (including an inability to bring on the potential additional supplies listed above).

Table 2: Estimated demand scenarios for clean up period in central SEQ (Brisbane, Ipswich and Logan)

Area	Typical	Low	Likely	High
Ipswich	42	55	61	67
Brisbane	270	265	294	324
Logan	48	43	48	53
Total	360	363	403	443

Mt Crosby operating arrangements

- As noted above, Mt Crosby West Bank WTP ceased production on 12 January 2011 due to treated water exceeding critical limits for normal operations.
- Alternative operating arrangements are now being applied, taking into account current catchment risks. These risks are considered to be considerably lessened, for a range of impacts including dilution.
- For the duration of the current flood event, the operating rules for the Mt Crosby water treatment plants are:
 - Minimum production of 150 ML/day
 - Achieve and maintain stable operation
 - Shutdown for operational reasons only, not treated water quality
 - Target of below 1 NTU in treated water
 - Periods of up to 2 NTU in treated water tolerable
 - Disinfection residual maintained at standard operating procedure
 - Note some discolouration may occur
- Queensland Health advised that:
 - Based on these operating rules, water supplied from the Mt Crosby water treatment plants is considered to have taken all necessary precautions to minimise the public health risk.
 - Further advice should be sought from Queensland Health should there be a prolonged trend to above 1.5 NTU in treated water. Production should not cease while this advice is sought. An evaluation will be made at that time to determine if water of above 2 NTU may still be safe to supply.

Mt Crosby critical logistics

- Continued operation of the Mt Crosby West Bank WTP is required to maintain water supplies in central SEQ.

- Chemical supplies are required in order to maintain continued operation. A dirt track is now accessible on the site, however supply routes from Brisbane are still flooded.
- Critical supplies are:
 - hypochlorite (2 days)
 - caustic soda (3 days)
 - alum (5 days).
- Should supply routes not become open tomorrow, assistance will be required to transport chemicals to the site. Volumes required are relatively large.
- Recommissioning of Mt Crosby East Bank WTP is a priority, to provide additional production and as a contingency in the event that chemicals are unable to be replenished at the site on the other side of the river.
- The East Bank WTP is both partially inundated and surrounded by flood waters, with access currently only able to be made by helicopter. A helicopter has been hired to transport additional staff to the WTP on the morning of 14 January. It is critical that this helicopter not be reprioritised by EMQ.

Western SEQ towns supplies

- Gatton is expected to run out of water overnight, following the loss of stored treated water.
- Supply is from the Lowood water treatment plant, which is offline due to loss of electricity and some operational issues. Energex has given electricity supply to the site a high priority.
- A number of smaller towns have already run out of supply or are expected to do so soon. QUU has started to supply bottled water to these towns via commercial helicopter.
- Tanker trucks will commence supply to towns as soon as they become accessible. QUU is seeking advice about potential routes as they become available.
- A boiled water notice is required when supply recommences after having run dry. A notice is required because of the risk of ingress into the pipelines. A number of these notices will be issued on 13 January 2011 for western towns.

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Thursday, 13 January 2011 8:28 PM
To: [REDACTED]
[REDACTED]
[REDACTED] 'Bradley John'; [REDACTED]
[REDACTED] Barry
Dennien; [REDACTED]
[REDACTED]
[REDACTED]; Tim Walls; Lance
McCallum
Cc: 'Best Debbie'; 'Reilly Bob'; Elaine Smouha; SEQWGM Media
Subject: RE: Record of teleconference 12 January 2011

All,

I wish to flag that a teleconference may be required early tomorrow morning.

The Mt Crosby West water treatment plant has been producing at a rate of 150 ML/day today, with water quality in the range of 0.4 to 0.8 NTU. While overall quality was within the agreed specification, two of twelve filters were producing water at above 1.5 NTU. For this reason, and mindful that East Bank WTP was commencing operation, we chose not to increase production. Queensland Health confirmed that continued operation at this levels was appropriate.

With this production, we maintained reservoir levels at about 150 ML. However, without additional production, we are unlikely to be able to match the forecast increase in demand for wash down (estimated at 60 to 80 ML/day).

Unfortunately, we will be unable to meet these increased demands from the East Bank water treatment plant. Due to a series of unrelated mechanical failures, the East Bank water treatment plant will not commence production until at least tomorrow morning.

Without the East Bank water treatment plant being available, I have directed that production be maximized at:

- West Bank water treatment plant, increasing supply by 100 ML/day (total 250 ML/day)
- North Pine water treatment plant, increasing supply by about 50 ML/day with re-valving within the Linkwater network.

The purpose of this email is to highlight that a teleconference may be required early tomorrow morning, should increase production from the West Bank water treatment plant exceed the triggers agreed last night. A teleconference may also be required should water from the North Pine water treatment plant exceed existing operating protocols (noting that much of the logic applying to the Mt Crosby water treatment plant also applies to North Pine).

Please call me on [REDACTED] should you require any further information.

Regards,
Daniel Spiller

From: Dan Spiller
Sent: Thursday, January 13, 2011 12:37 AM
To: [REDACTED]

[REDACTED]
[REDACTED] 'Bradley John';
[REDACTED] Barry Dennien;

Cc: 'Best Debble'; 'Reilly Bob'; Elaina Smouha; SEQWGM Media
Subject: Record of teleconference 12 January 2011

Record of teleconference attached.

Please contact me should you require any further information.

Regards,
Daniel Spiller

[illegible]

1

2

()

[REDACTED]

From: Dan Spiller [REDACTED]
Sent: Friday, 14 January 2011 12:16 AM
To: [REDACTED]
[REDACTED]
[REDACTED] 'Bradley John'; [REDACTED] Barry
Dennien; [REDACTED]
[REDACTED]
[REDACTED] Tim Watts; Lance
McCallum
Cc: 'Best Debbie'; 'Reilly Bob'; Elaine Smouha; SEQWGM Media
Subject: RE: Record of teleconference 12 January 2011

All,

The Mt Crosby West Bank WTP has increased production to 180 ML/day, with treated water remaining in the range of 0.4 to 0.8 NTU. It is currently being increased to 200 ML/day, with operators optimistic that at least this level of production can be achieved while remaining within the operating parameters that were agreed at the teleconference last night.

Given the increased output, until decided otherwise, operators will seek to ensure that water treatment plant is operated within the agreed operating parameters. We will continue to seek to increase production to 250 ML/day, but will limit it to less if further increases would result in exceeding the agreed parameters.

There is likely to be an increase in demand tomorrow, as the river level falls and clean-up commences. River levels are currently at 2.75 m at the Port Office gauge, which is below the major flooding level defined by Brisbane City Council. The BoM has verbally advised that it expects levels to fall to 2.3 to 2.4 metres by 5pm tomorrow, which remains within the moderate flooding range.

A teleconference has been arranged with Grid entities for 10am to assess the water balance, including the likely timing of commencement of production at the East Bank WTP and the outcomes of trials to increase the production from the North Pine WTP.

Without this additional production, the Grid will have limited capacity to meet demand that is significantly greater than it was today. Should the additional production not be available, scenarios and responses will need to be quickly agreed with relevant agencies, including consideration of health impacts. A teleconference may need to be urgently called with Queensland Health at about 10.30am to discuss options. Prior to this occurring, entities will update and refine potential supply scenarios.

To minimize these risks, the WGM recommends that residents outside the impacted area be strongly urged to conserve water. Within the affected area, until the East Bank WTP is consistently treating water, we recommend that the use of water to wash down roads and driveways be limited to what is required for health and safety reasons.

Please call me on [REDACTED] if you require any further information.

Regards,
Dan

From: Dan Spiller
Sent: Thursday, January 13, 2011 8:28 PM
To: [REDACTED]

[REDACTED] 'Bradley John';
[REDACTED] Barry Dennien;

[REDACTED]

Cc: 'Best Debble'; 'Reilly Bob'; Elaina Smouha; SEQWGM Media
Subject: RE: Record of teleconference 13 January 2011

All,

I wish to flag that a teleconference may be required early tomorrow morning.

The Mt Crosby West water treatment plant has been producing at a rate of 150 ML/day today, with water quality in the range of 0.4 to 0.8 NTU. While overall quality was within the agreed specification, two of twelve filters were producing water at above 1.5 NTU. For this reason, and mindful that East Bank WTP was commencing operation, we chose not to increase production. Queensland Health confirmed that continued operation at this levels was appropriate.

With this production, we maintained reservoir levels at about 150 ML. However, without additional production, we are unlikely to be able to match the forecast increase in demand for wash down (estimated at 60 to 80 ML/day).

Unfortunately, we will be unable to meet these increased demands from the East Bank water treatment plant. Due to a series of unrelated mechanical failures, the East Bank water treatment plant will not commence production until at least tomorrow morning.

Without the East Bank water treatment plant being available, I have directed that production be maximized at:

- West Bank water treatment plant, increasing supply by 100 ML/day (total 250 ML/day)
- North Pine water treatment plant, increasing supply by about 50 ML/day with re-valving within the Linkwater network.

The purpose of this email is to highlight that a teleconference may be required early tomorrow morning, should increase production from the West Bank water treatment plant exceed the triggers agreed last night. A teleconference may also be required should water from the North Pine water treatment plant exceed existing operating protocols (noting that much of the logic applying to the Mt Crosby water treatment plant also applies to North Pine).

Please call me on [REDACTED] should you require any further information.

Regards,
Daniel Spiller

From: Dan Spiller
Sent: Thursday, January 13, 2011 12:37 AM
To: [REDACTED]

[REDACTED] 'Bradley John';
[REDACTED] Barry Dennien;

Cc: 'Best Debble'; 'Reilly Bob'; Elaina Smouha; SEQWGM Media
Subject: Record of teleconference 12 January 2011

Record of teleconference attached.

Please contact me should you require any further information.

Regards,
Daniel Spiller

1. The first part of the document is a list of names and their corresponding dates. The names are: "1. The first part of the document is a list of names and their corresponding dates."