

KEEGAN

EXHIBIT COPY



OF
KEEGAN

QFCI

Date: 19/05/11 JM

Exhibit Number: 428

IN THE MATTER OF
THE QUEENSLAND FLOODS COMMISSION OF INQUIRY

A COMMISSION OF INQUIRY UNDER THE
COMMISSIONS OF INQUIRY ACT 1950

AND PURSUANT TO
COMMISSIONS OF INQUIRY ORDER (No. 1) 2011

STATEMENT OF GRAHAM KEEGAN

On the 31 March 2011, I, Graham Keegan, of [REDACTED], Fornvale, say:

1. I am currently employed by Queensland Bulk Water Supply Authority (*Seqwater*) as Engineering Officer (Central Operations) and Storage Supervisor. I held this position with South East Queensland Water Corporation from 2006 until November 2007, and from then with Seqwater.
2. I make this statement in response to a requirement dated 25 March 2011 issued by Justice Catherine E Holmes, Commissioner of Inquiry, pursuant to section 5(1)(d) of the *Commissions of Inquiry Act 1950* (Qld).

Impacts of dam releases immediately downstream of Wivenhoe Dam (in the Brisbane Valley)

3. I am aware that releases from Wivenhoe Dam can have impacts immediately downstream of the dam, including:
 - (a) The submersion of bridges and associated access problems.
 - (b) Damage to farming equipment (initially to irrigation pumps and motors).
 - (c) The disruption of farming activities, including cattle grazing.
 - (d) At higher release rates, damage to bridges, and other property.

Communications with landholders in the area immediately downstream of Wivenhoe Dam between 1 and 19 January 2011 (the *Period*)

4. During the flood event in January 2011:

Filed on behalf of: Queensland Bulk Water Supply Authority trading as Seqwater

Allens Arthur Robinson
Lawyers
Riverside Centre
123 Eagle Street
Brisbane QLD 4000

DX 210 Brisbane
Tel (07) 3334 3000 Fax (07) 3334 3444
Ref MOI:120128021

sfwb A0117090748v1 120128021

- (a) I was responsible for providing information relating to releases from Wivenhoe Dam to certain landholders in the area immediately downstream of the dam.
 - (b) I received by email situation reports from the Flood Operations Centre, which I used to gauge potential impacts on the area immediately downstream of the dam.
5. In December 2010, together with others, I met with representatives of a group called the Mid-Brisbane River Irrigators (the *MBRI*). That group's membership includes persons who draw water from the Brisbane River in the area between Wivenhoe Dam and Mt Crosby Weir. Many of these persons own land which borders the Brisbane River. At the meeting it was agreed that Seqwater would communicate directly with holders of land on the banks of the Brisbane River from Wivenhoe Dam down as far as Mt Crosby Weir, primarily by email, to inform them of anticipated releases or variations to releases, and the possible impact of such releases on the area immediately downstream of the dam. After the meeting, I compiled an email list of the landholders with whom Seqwater was to communicate, based on information provided to me by the MBRI (*Email List*).
 6. During the Period, I sent group emails to those on the Email List to update them on releases (*Group Emails*). Annexure GK1 is a paginated bundle of all the Group Emails.
 7. I sent copies of the Group Emails to Mike Foster who is the manager of strategic relations and communications at Seqwater, and copies of the later emails to Paul Bird who was acting manager of strategic relations and communications during the flood event.
 8. From 17 January 2011 onwards I also forwarded copies of the Group Emails to Daniel Garcia, a Seqwater employee who was involved with the Rural Fire Brigade in the Wivenhoe Pocket district, so that he could pass the information on to others as he thought appropriate.
 9. In addition to the Group Emails, I engaged in some email correspondence with individual landholders immediately downstream of Wivenhoe Dam during the Period. Annexure GK2 is a copy of these emails.
 10. I also had some phone conversations with landholders immediately downstream of Wivenhoe Dam during the period. I can recall the following details:
 - (a) I spoke to both Ken Schmidt and Darren Zanow a number of times during the Period.
 - (b) Ken Schmidt is the head of the MBRI and Darren Zanow is the Managing Director of Zanow's Sand & Gravel, a river sediment mining business in the area.
 - (c) During the period of 6 January to 13 January I probably spoke to Ken or Darren at least once a day.
 - (d) In these conversations I was primarily:

- (i) responding to requests from Ken and Darren for further information about releases;
or
 - (ii) responding to rumours which Ken or Darren had heard about Wivenhoe Dam and flood releases.
- (e) I spoke with Graeme Lehman (Mayor, Somerset Regional Council) on Tuesday 11 January 2011 regarding the availability of emergency assistance for evacuation of residents in the Wivenhoe Pocket district; after visiting the area I called him to advise that the Wivenhoe Pocket Rural Fire Brigade was offering assistance to affected residents.
- (f) At one stage, on or after Wednesday 12 January 2011, I had a conversation with Ken Schmidt about release rates. This was after the releases from Wivenhoe Dam had peaked at about 7,450 m³/s on the Tuesday. Ken told me that he was concerned that releases would be increased like that again and I told him that I had no information consistent with that concern. I remember checking with the POC and confirming that at that stage there was no plan to increase releases from Wivenhoe Dam in that way.
11. I am sure I also spoke with other landholders during the Period, but I do not recall the details of any of these conversations.
12. I did not keep any notes of any phone conversations I had with landholders during the Period.
13. In addition to telephone conversations, I also recall speaking face to face with friends and neighbours in the Wivenhoe Pocket district during the times I was not working during the Period. I do not recall the content of any of these conversations, beyond that I made general comments about what was occurring, consistent with the information contained in the emails at Annexure GK1.

Signed by GRAHAM KEEGAN on 31 March 2011 at Brisbane.



**IN THE MATTER OF
THE QUEENSLAND FLOODS COMMISSION OF INQUIRY 2011**

**A COMMISSION OF INQUIRY UNDER THE
COMMISSIONS OF INQUIRY ACT 1950**

**AND PURSUANT TO THE
COMMISSIONS OF INQUIRY ORDER (No. 1) 2011**

STATEMENT OF GRAHAM KEEGAN

INDEX OF ANNEXURES

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GK-2	Paginated bundle of email correspondence	Various	33

"GK-1"

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 12:26 PM
To: [REDACTED]

Cc: Mike Foster
Subject: BoM Severe Weather Warning - Dam flood operations.

Good afternoon MBRI members and other residents,

BoM has released a Severe Weather Warning for rainfall commencing tonight over SE Qld. Significant totals of 100 to 200mm may occur during the next few days.

Somerset and Wivenhoe Dams are still above FSL and rising slowly due to continuing base-flows from their catchments. As the catchments are still wet (low expected initial losses) it is likely that we will be releasing flood waters in the near future if BoM's forecasts are accurate.

Please be prepared. We will keep you up to date with our plans as this event develops.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 6 January 2011 12:33 PM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good afternoon MBRI members and other residents,

We will commence releases via the Wivenhoe Dam gates from 1800hrs (6PM) tonight. At present our plan is to increase the flow to 250cumecs by 2200hrs (10PM) and to keep high level crossings such as Burton's Bridge open for as long as possible.

This is dependant upon development of the current rainfall event. Note that BoM forecast is for rain up until Tuesday next week. Larger inflows will translate to larger releases.

Lockyer Creek is still flowing and rising at various monitoring stations along the creek.

We will provide further updates as necessary. Don't forget the websites and 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 6 January 2011 4:39 PM
To: [REDACTED]

Cc: Mike Foster

Subject: RE: Releases from Wivenhoe Dam - change to plans..

Good afternoon MBRI members and other residents,

The flooding situation has deteriorated since my last email.

Lockyer Creek is rising at present and estimates indicate a peak of approx 600 to 700cumecs at O'Reilly's Weir late tomorrow. This will close all crossings except Fernvale and Mt Crosby Weir bridges. Burton's Bridge will be submerged again – possibly early Saturday morning.

The upper Brisbane River is reaching "moderate" flood levels. Somerset Dam's catchment is receiving rainfall but serious flooding is only occurring in the Kilcoy Creek zone at present. Both Wivenhoe and Somerset Dams are rising.

Contrary to the previous email and providing the weather does not change significantly, we do not expect to commence releases from Wivenhoe Dam until the Lockyer Creek peak passes O'Reilly's Weir late tomorrow. Our maximum release rate will again reach similar levels to the last release.

Expect crossings to be submerged for a couple of days again. We'll update the situation when we have further information.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Graham Keegan
Sent: Thursday, 6 January 2011 12:33 PM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good afternoon MBRI members and other residents,

We will commence releases via the Wivenhoe Dam gates from 1800hrs (6PM) tonight. At present our plan is to increase the flow to 250cumecs by 2200hrs (10PM) and to keep high level crossings such as Burton's Bridge open for as long as possible.

This is dependant upon development of the current rainfall event. Note that BoM forecast is for rain up until Tuesday next week. Larger inflows will translate to larger releases.

Lockyer Creek is still flowing and rising at various monitoring stations along the creek.

We will provide further updates as necessary. Don't forget the websites and 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Friday, 7 January 2011 10:56 AM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good afternoon MBRI members and other residents,

Lockyer Creek is beginning to peak at O'Reilly's Weir. High level crossings (except Fernvale and Mt Crosby Weir bridges) will be submerged later today.

As we expect heavy rainfall from Sunday to Tuesday (BoM predictions) we will begin releasing flood water from Wivenhoe Dam at 3PM today. Release rate will initially reach 1200cumecs; but may be increased to 1500cumecs rapidly if conditions deteriorate in the catchments. At present we expect to hold the peak rate for a couple of days and continue releasing until the end of the week.

Somerset Dam will also be releasing into Wivenhoe Dam at this time.

We'll keep you informed of our plans. Don't forget the websites and 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Saturday, 8 January 2011 8:26 PM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good evening MBRI members and other residents,

Current releases from Wivenhoe Dam are 1250cumecs. Our aim tonight is to keep to a maximum flow of 1600cumecs in the mid-Brisbane River (including Lockyer Creek). Without changes to weather conditions, crossings are expected to be affected until Wednesday 12/01.

The current BoM Severe Weather Warning predicts the return of rainfall tonight (radar is indicating rain bands moving onto the northern NSW coast at present). Forecast for the next 4 days is for significant rainfall across SE QLD. Possible scenarios include a reduction in release rate to accommodate potential flooding in the Bremer River; however they also include larger releases from Wivenhoe Dam if heavy rainfall strikes our catchments. Releases may then extend to the week-end or later.

We'll keep you updated as events develop. Don't forget the websites and 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Sunday, 9 January 2011 8:33 PM
To: [REDACTED]

Cc: Mike Foster

Subject: Releases from Wivenhoe Dam.

Good evening MBRI members and other residents,

Current releases from Wivenhoe Dam are 1400cumecs. Our aim is to keep to a maximum flow of 1600cumecs in the mid-Brisbane River for the next 24 hours if possible. We may reduce the release as Lockyer Creek flooding increases. At present river crossings are expected to be closed until Saturday 15/01 if conditions don't deteriorate further.

However, please note that we are experiencing major flooding in our catchments. Inflows are approx 5000cumecs in the upper-Brisbane river and 3000cumecs in the Stanley River system, with rainfall continuing.

The current BoM Severe Weather Warning predicts heavy rainfall until Tuesday. If these totals eventuate in the next 12 to 24 hours, higher releases from Wivenhoe Dam will be necessary. Fernvale and Mt Crosby Weir Bridges may be affected as early as Tuesday morning.

We'll keep you updated as events develop. Don't forget the websites and 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 3:25 AM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

We have experienced a rapid increase in river levels and inflow rates in the upper-Brisbane River. As an example the peak flow at Gregor's Creek station (near Toogoolawah) is similar to the 1974 peak flow at Savage's Crossing (combination of Brisbane River, Lockyer Creek and Somerset Dam releases at that time). The Stanley River is also experiencing major flooding. Flow rates in both rivers may increase if predicted rainfall occurs.

Flood water and releases began to affect Fernvale Bridge before mid-night. Mt Crosby Weir Bridge was closed at the same time.

Increases in Wivenhoe Dam release rates began at 0200hrs this morning. Initial target is 2600cumecs, and potential peak rate is 3500cumecs. The release is now expected to continue until at least Sunday 16/01.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 9:03 PM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good evening MBRI members and other residents,

Current release rate from Wivenhoe Dam is 2400cumecs. FOC has advised that we will increase to 2800cumecs, but have not provided a schedule at present.

Their advice is that the river will rise to approx 16 to 17m at Savage's Crossing gauge by midnight (currently 14.8m). The river is expected to rise to 17 to 18m at Mt Crosby Weir (currently 15m). 1974 flood levels were approx 24m at Savage's crossing and 26m at Mt Crosby Weir.

Present strategy is to keep flow rates in the lower Brisbane river to below 4000cumecs if possible and to minimize effects of flooding in urban areas.

Lockyer Valley and Somerset Regional residents have received SMS messages regarding this afternoon's flash flooding and response. The FOC is discussing its effects with BoM at present and will provide further advice shortly. We'll keep you updated. Please listen to radio and TV for media releases.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 2:42 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Current release rate is 2730cumecs. River heights at various gauging stations are: Lowood 15.89m, Savage's Crossing 15.77m, Burton's Bridge 12.16m and Mt Crosby Weir 15.68m.

FOC and BoM are still investigating the Lockyer Creek flash flood. If necessary (or possible) the release rate will be modified to moderate effects in the mid-Brisbane River zone. At present the peak appears to have passed Glenore Grove around mid-night but no significant rise has occurred at lower Lockyer gauging stations.

The overall strategy of maintaining the lower Brisbane River at a peak flow of 4000cumecs has not changed.

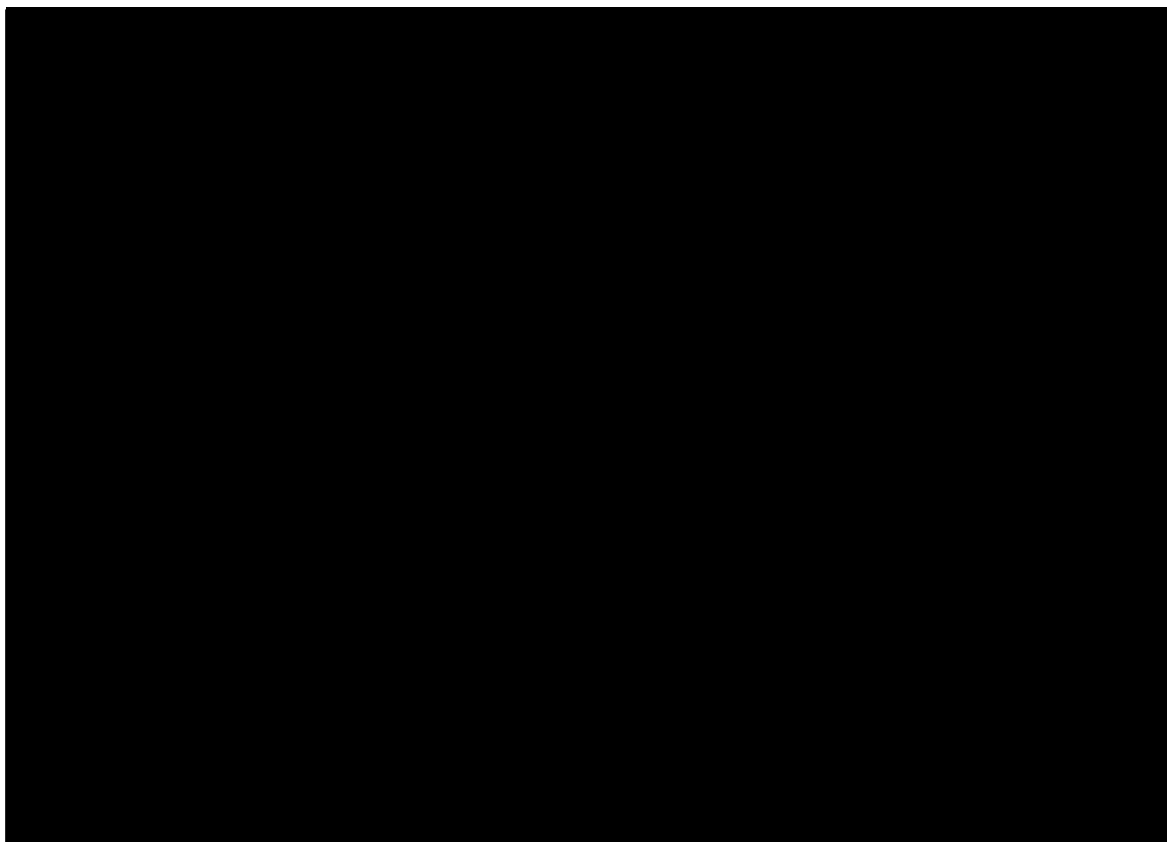
Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
E [REDACTED]
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Graham Keegan
Sent: Tuesday, 11 January 2011 6:53 AM
To:



Cc: Mike Foster; Paul Bird

Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

The release remains at approx 2750cumecs. Current river levels are: Lowood 16.13m (rising), Savage's Crossing 16.19m (rising), Burton's Bridge 12.94m (rising) and Mt Crosby 16.23 (rising). O'Reilly's Weir was levelling off but is beginning to rise again. The creek is still rising at Lyon's Bridge.

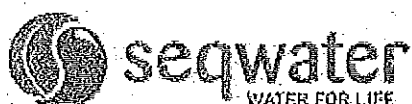
FOC is attempting to maintain flows in the lower Brisbane River at 4000cumecs. However changes to conditions in the catchments will affect this. The upper-Brisbane River has experienced another major flood. We have reduced the flow from Somerset Dam to reduce inflows into Wivenhoe Dam from that source. While FOC were examining the possibility of reducing the Wivenhoe Dam release to accommodate the Lockyer Creek increase, this is no longer an option. The river will rise along with Lockyer Creek; however we will attempt to maintain the Wivenhoe Dam release until the Lockyer Creek peak passes.

If the weather situation deteriorates further we may need to increase releases from the Dam and the new target flow in the lower Brisbane River will rise to 5000cumecs (including all streams). We are entering conditions where Dam Safety overrides other concerns – although minimisation of urban flooding remains very important.

Please stay up-to-date with the BoM website, our website and the 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.segwater.com.au

Information from ESET NOD32 Antivirus, version of virus signature database 5983
(20110324)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 9:50 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good morning again MBRI members and other residents,

The flood situation has moved into a critical phase as the lake is approaching our next trigger level. We began to increase releases at 8AM and will reach approx 3500cumecs by lunchtime today. Local run-off is exacerbating the situation and O'Reilly's Weir is rising also. Somerset Dam release has ceased.

At present communications with the FOC are difficult but it appears that river levels will rise significantly with no projections available yet. Current levels are: Lowood 17.05m (rising), Savage's Crossing 18.33m (rising), Burton's Bridge 14.82m (rising) and Mt Crosby Weir 16.76m (rising).

The FOC is constantly reviewing the situation and our operations. We will update ASAP, but in the meantime please check your options for re-location. Also listen to emergency services broadcasts for up-to-date situation reports. A severe weather alert is current for SE Qld and further falls of heavy rainfall appear likely.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater

30/03/2011

16a



Ph (07) [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 7:43 PM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good evening MBRI members and other residents,

I apologize for lack of communications in recent times – we have telecommunication problems and I badly needed some sleep.

Release rate was 6700cumecs at 1730hrs (05:30PM) and increasing to 8000cumecs by 2030hrs (08:30PM). This will match release rate with estimated inflow rate. On its own this release exceeds the peak flow rate of approx 7500cumecs at Savage's Crossing during the 1974 flood. Flood levels along the mid-Brisbane River can be expected to be significantly higher than that flood.

Current river levels are: Lowood 21.97m (rising), Savage's Crossing 21.67m (rising), Burton's Bridge 17.14m (rising) and Mt Crosby Weir 21.64m (rising). Approx peak river levels for 1974 flood were Lowood 22m (unconfirmed), Savages 23.8m (DERM) and Mt Crosby 26.7m (BoM).

Wivenhoe Dam is expected to reach a maximum level of 75.5m provided no further significant rainfall occurs. This is 0.1m below the trigger level for fuse-plug No1 (centre) – this is the major focus of the current release strategy. If this target is achieved, we may be able to slowly reduce the release rate overnight. Please note that our operators are continuing their regular inspections of Wivenhoe Dam and that it is still sound.

I understand there are still power problems in the area. Could one of you please confirm receipt of this email!

30/03/2011

17

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 12 January 2011 5:04 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

The lake level in Wivenhoe Dam is receding very slowly and clearance to the fuse-plug trigger is increasing. We are reducing the release rate slowly – current rate is approx 4300cumecs; peak was approx 7500cumecs.

Peak river levels and current levels are:

	Peak	Current
Lowood	25.09m @ 2346hrs 11/01	24.37m (falling)
Savage's Crossing	24.13M @ 0132hrs 12/01	23.99m (falling)
Burton's Bridge		18.4m (rising)
Mt Crosby Weir	24.91m @ 0327hrs 12/01	24.84m (rising).

Levels in Lockyer Creek are also dropping – the reduction at Wivenhoe Dam will also permit Lockyer Creek to drain quicker.

We'll keep you updated on our operations.

Regards,

Graham Keegan

Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 12 January 2011 9:15 AM
To: [REDACTED]

Cc: Mike Foster

Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Thanks to those people who were able to confirm receipt of the last email – communications appeared unreliable last night.

The Wivenhoe Dam release reached a peak of approx 7500cumecs last night (all gates opened to 12m). After the rise in the lake was brought to a halt (without triggering a fuse-plug), we confirmed that status for a few hours and then commenced reduction of the release rate as inflows diminished. At 0730hrs (07:30AM) this morning the release rate has been reduced to approx 2500cumecs – lake level is now relatively static. We will hold this rate for a short period until the Lockyer Creek peak flow enters the mid-Brisbane River. The Wivenhoe Dam release will be increased to 3500cumecs and drainage of the flood compartment will resume.

Somerset Dam has continued to discharge over its spillway (my mistake - releases had not ceased completely as stated in a previous email). The lake has now reached its peak (event) level. We will begin to drain it later today as we increase the Wivenhoe Dam release. Combined flood releases for the 2 Dams is expected to exceed 2million megalitres for this event – a return period (or probability) has not been assigned to the event yet; however BoM will eventually release that data. The concurrent event in the North Pine River catchment has been described tentatively as 1 in 10000 years (an extreme event).

Please note that there may be an initial reduction in river level associated with the lower release rate, but

also note that river level may rise again as we increase our release. Maximum flow in the river will be approx 4000cumecs. Our release will continue for another 7 days – flow rate will gradually reduce and river crossings will re-open. No timing is available at present. Please check BoM and traffic websites for flood information and updates on road conditions.

Current river levels are: Lowood 21.35m (falling, unreliable data). Savage's Crossing 23.09m (falling), Burton's Bridge 19.68m (rising) and Mt Crosby Weir 26.0m (static).

We'll provide updates as information is available.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 13 January 2011 11:48 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe and Somerset Dams.

Good morning MBRI members and other residents,

We have experienced communications problems due to flooding around HO in Brisbane and phone difficulties (land line and mobile – you are probably experiencing them also).

We have increased drainage of Somerset Dam. This will be completed within 5 days and require operation of low level sluice gates.

The release from Wivenhoe Dam remains at 2500cumecs. We are awaiting further instructions from the FOC on gate operations – expect to increase release rate today. Last night's 1800hrs Situation Report stated a target total flow of 3500cumecs (release plus other inflows), however this needs to be confirmed due to the time elapsed.

The Lockyer Creek peak passed Savage's Crossing at approx 0200 to 0300hrs yesterday morning and the river has been receding since then.

Current river levels are: Lowood 14.91m (falling); Savage's Crossing 14.91m (falling); Burton's Bridge – no valid data and Mt Crosby Weir 19.82m (falling).

We will update ASAP.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 13 January 2011 2:47 PM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good afternoon MBRI members and other residents,

We have begun to increase the release rate from Wivenhoe Dam. Target flow is a total of 3500cumecs at Moggill (downstream of the Bremer river junction with the Brisbane River). The increase commenced at 1300hrs (1PM) today and will rise to approx 2800cumecs by 6PM tonight. Inflows from Lockyer Creek, Bremer River and other minor streams continue.

As the Lockyer Creek peak has already passed Savage's Crossing, river rises will occur.

Current river levels are: Lowood 14.65m (falling), Savage's Crossing 14.59m (falling), Burton's Bridge (unreliable data) and Mt Crosby Weir 19.16m (falling).

Release will continue for approx 7days. Projections are unavailable for opening crossings.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



seqwater
WATER FOR LIFE

Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Friday, 14 January 2011 10:37 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Current release from Wivenhoe Dam is approx 3500cumecs. I have sought clarification and this is actually the target release rate for the Dam. It should result in drainage of the stored flood water by Wednesday next week. We may adjust the rate slightly at times to account for reduction in lake level (lower lake level equates to less available energy, so flow rate reduces if gate opening is not increased).

Current river levels are: Lowood 16.19m (static), Savage's Crossing 14.81m (rising slowly) and Mt Crosby Weir 16.98m (static, expect rise). Burton's Bridge sensor was faulty and is now out of action (no data on BoM site) – expect river to rise slowly there, as our maximum flow rate approaches the bridge.

On a lighter note; we are receiving many rumours relating to our operations and the Dam's status – it is providing some comedic relief for our staff. Events such as "gates falling off", "blowing up fuse-plugs", "deliberately sacrificing Lowood", have not occurred.

To allay any fears in the community we advise that the Dam is staffed 24 hours a day during flood events by 2 man teams. As well as operating gates as ordered by the FOC, the teams have a schedule of periodic inspections for elements of the Dam – these are our Dam Surveillance/Safety inspections. As lake levels rise the frequency increases and the team is expanded if necessary. No faults have been identified to date, so the Dam is operating as expected.

These inspections are designed to provide confidence in our operations and if needed: to identify faults early, enable rapid response for rectification and provide community awareness (warnings) if necessary.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 17 January 2011 4:07 PM
To: [REDACTED]

Cc: Mike Foster; Paul Bird; Daniel Garcia
Subject: Releases from Wivenhoe and Somerset Dams.

Good afternoon MBRI members and other residents,

Somerset Dam is close to FSL and minor releases are continuing through 1 cone valve.

At 1400hrs (02:00PM) today, we began to close gates at Wivenhoe Dam and the release will diminish from the current 3500cumecs. Wivenhoe Dam level was 68.7m (1.7m above FSL) at 3PM today and falling. Previous advice received from FOC was that the release via gates would cease on Wednesday 19/01, however we have unconfirmed advice that it may not cease until Thursday morning.

Projections for opening of crossings are not available yet. Confirmation on the release strategy and crossings will follow when available.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 18 January 2011 8:49 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird; Daniel Garcia
Subject: Releases from Wivenhoe and Somerset Dams.

Good morning MBRI members and other residents,

Somerset Dam has returned to FSL and minor releases continue via a cone valve to manage base-flow from the catchment.

At 07:00AM Wivenhoe Dam was at EL 67.76m AHD and falling slowly. Gate closures commenced at 2PM yesterday but ceased at midnight due to problems at Lowood WTP. Closures will resume at 9AM today – current release rate is approx 2000cumecs.

Flood releases are expected to cease on Thursday morning. Minor releases will continue via cone valve and hydro (if available). Fernvale bridge is now out of water but remains closed due to road maintenance and power issues. Other crossings will open progressively as the release rate reduces, but Twin Bridges will remain closed until low level releases cease.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



seqwater
WATER FOR LIFE

Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 19 January 2011 8:19 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird; Daniel Garcia
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Gate releases from Wivenhoe Dam will cease at noon today. Low level releases will continue via cone valve (and hydro if available) until further notice.

All crossings will be free of water from tonight, except College's Crossing (tomorrow) and Twin Bridges (indefinitely). Please note that some damage is already noticeable on or around major bridges and that local authorities will need to inspect all crossings prior to opening them for traffic.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Wednesday, 5 January 2011 1:39 PM
To: Graham Keegan
Subject: RE: BoM Severe Weather Warning - Dam flood operations.

Hi Graham,

Thanks for the update.....

Do you anticipate a dam release before the anticipated rain event tomorrow?

Regards



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: www.zanow.com.au
Email: [REDACTED]

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 12:26 PM
To: [REDACTED]

Cc: Mike Foster
Subject: BoM Severe Weather Warning - Dam flood operations.

Good afternoon MBRI members and other residents,

BoM has released a Severe Weather Warning for rainfall commencing tonight over SE Qld. Significant totals of 100 to 200mm may occur during the next few days.

Somerset and Wivenhoe Dams are still above FSL and rising slowly due to continuing base-flows from their catchments. As the catchments are still wet (low expected initial losses) it is likely that we will be releasing flood waters in the near future if BoM's forecasts are accurate.

Please be prepared. We will keep you up to date with our plans as this event develops.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] Mob [REDACTED]

IE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 1:50 PM
To: 'Darren Zanow'
Subject: RE: BoM Severe Weather Warning - Dam flood operations.

Darren,

There is a possibility. Wivenhoe Dam is near its "trigger level", so any early inflows (e.g. immediate catchment) could force early gate operations. I would think we have some time before the FOC developed a strategy - but they won't think about it until they get a feel for rainfall.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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To: Graham Keegan
Subject: RE: BoM Severe Weather Warning - Dam flood operations.

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Do you anticipate a dam release before the anticipated rain event tomorrow?

Regards



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: www.zanow.com.au
Email: [REDACTED]

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 12:26 PM
To: [REDACTED]

Cc: Mike Foster
Subject: BoM Severe Weather Warning - Dam flood operations.

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Please be prepared. We will keep you up to date with our plans as this event develops.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 2:45 PM
To: 'Darren Zanow'
Subject: RE: BoM Severe Weather Warning - Dam flood operations.

Darren,

That may be right – I don't have any data for the dam yet. It may be at 100% soon though!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
[REDACTED]
[REDACTED]
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Darren Zanow [REDACTED]
Sent: Wednesday, 5 January 2011 2:43 PM
To: Graham Keegan
Cc: 'David Gormley'
Subject: RE: BoM Severe Weather Warning - Dam flood operations.

Hi Graham,

The guys at Wyaralong Dam have just informed me their storage is at 65%....

Cheers.



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: 0417 722 595
Web Site: www.zanow.com.au
Email: [REDACTED]

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 1:50 PM
To: Darren Zanow

Subject: RE: BoM Severe Weather Warning - Dam flood operations.

Darren,

There is a possibility: Wivenhoe Dam is near its "trigger level", so any early inflows (e.g. immediate catchment) could force early gate operations. I would think we have some time before the FOC developed a strategy - but they won't think about it until they get a feel for rainfall.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
| E: [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Darren Zanow [REDACTED]
Sent: Wednesday, 5 January 2011 1:39 PM
To: Graham Keegan
Subject: RE: BoM Severe Weather Warning - Dam flood operations.

Hi Graham,

Thanks for the update.....

Do you anticipate a dam release before the anticipated rain event tomorrow?

Regards



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: www.zanow.com.au
Email: [REDACTED]

From: Graham Keegan [REDACTED]
Sent: Wednesday, 5 January 2011 12:26 PM
To: [REDACTED]

Cc: Mike Foster

Subject: BoM Severe Weather Warning - Dam flood operations.

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Please be prepared. We will keep you up to date with our plans as this event develops.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
IE [REDACTED]

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Website | www.seqwater.com.au

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Webster, Stewart

From: Heather Sinclair [REDACTED]
Sent: Thursday, 6 January 2011 10:51 AM
To: Graham Keegan
Subject: Email addresses to add

Morning Graham

Could you add these email addresses to your list for Release notifications please.

[REDACTED]

Thanks Graham.

Regards

Heather Sinclair
Secretary MBRI

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 6 January 2011 12:12 PM
To: 'Heather Sinclair'
Subject: RE: Email addresses to add

Heather,

Will do.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] Fax (07) [REDACTED] | Mob [REDACTED]
| E [REDACTED]
LWIC 2470 Brisbane Valley Highway, via Fernvale
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Heather Sinclair [REDACTED]
Sent: Thursday, 6 January 2011 10:51 AM
To: Graham Keegan
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Morning Graham

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[REDACTED]

Thanks Graham.

Regards

Heather Sinclair
Secretary MBRI

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Webster, Stewart

From: Wayne Gerard [REDACTED]
Sent: Friday, 7 January 2011 10:59 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Graham,

Just wanted to say thanks.

Your emails are well written and provide an excellent update

Cheers

Wayne Gerard

Sent from my iPhone

On 07/01/2011, at 10:55 AM, "Graham Keegan" [REDACTED] wrote:

Good afternoon MBRI members and other residents,

Lockyer Creek is beginning to peak at O'Reilly's Weir. High level crossings (except Fernvale and Mt Crosby Weir bridges) will be submerged later today.

As we expect heavy rainfall from Sunday to Tuesday (BoM predictions) we will begin releasing flood water from Wivenhoe Dam at 3PM today. Release rate will initially reach 1200cumecs; but may be increased to 1500cumecs rapidly if conditions deteriorate in the catchments. At present we expect to hold the peak rate for a couple of days and continue releasing until the end of the week.

Somerset Dam will also be releasing into Wivenhoe Dam at this time.

We'll keep you informed of our plans. Don't forget the websites and 1800 number.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

| E [REDACTED]

[REDACTED]
PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

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Webster, Stewart

From: Al & Jos [REDACTED]
Sent: Friday, 7 January 2011 11:13 AM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Hello Graham

I very much appreciate your detailed emails ... it's so important to know what water levels are likely to be doing when one lives/farms on the river.

Thankyou Jocelyn

From: Graham Keegan [REDACTED]
Sent: Friday, 7 January 2011 10:56 AM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good afternoon MBRI members and other residents,

Locker Creek is beginning to peak at O'Reilly's Weir. High level crossings (except Fernvale and Mt Crosby Weir bridges) will be submerged later today.

As we expect heavy rainfall from Sunday to Tuesday (BoM predictions) we will begin releasing flood water from Wivenhoe Dam at 3PM today. Release rate will initially reach 1200cumecs; but may be increased to 1500cumecs rapidly if conditions deteriorate in the catchments. At present we expect to hold the peak rate for a couple of days and continue releasing until the end of the week.

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Regards,

Graham Keegan

Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]
IE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
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Your Anti-virus Service scanned this email. It is safe from known viruses.
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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Friday, 7 January 2011 12:21 PM
To: 'Al & Jos'
Subject: RE: Releases from Wivenhoe Dam.

Jocelyn,

Thanks, its good to know it's helping!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph (07) [REDACTED] Fax (07) [REDACTED] Mob [REDACTED]
IE [REDACTED]
[REDACTED]
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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Sent: Friday, 7 January 2011 11:13 AM
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Subject: RE: Releases from Wivenhoe Dam.

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Thankyou Jocelyn

From: Graham Keegan [REDACTED]
Sent: Friday, 7 January 2011 10:56 AM
To: [REDACTED]

[REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

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Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph (07) [REDACTED] | Fax (07) [REDACTED] | Mob [REDACTED]

IE [REDACTED]

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<http://www.eset.com>

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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Saturday, 8 January 2011 8:37 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Thanks Graham..... Wyaralong will be full as well before we know it!!!!

Sent from my iPhone

On 08/01/2011, at 8:26 PM, "Graham Keegan" <[REDACTED]> wrote:

Good evening MBRI members and other residents,

Current releases from Wivenhoe Dam are 1250cumecs. Our aim tonight is to keep to a maximum flow of 1600cumecs in the mid-Brisbane River (including Lockyer Creek). Without changes to weather conditions, crossings are expected to be affected until Wednesday 12/01.

The current BoM Severe Weather Warning predicts the return of rainfall tonight (radar is indicating rain bands moving onto the northern NSW coast at present). Forecast for the next 4 days is for significant rainfall across SE QLD. Possible scenarios include a reduction in release rate to accommodate potential flooding in the Bremer River; however they also include larger releases from Wivenhoe Dam if heavy rainfall strikes our catchments. Releases may then extend to the week-end or later.

We'll keep you updated as events develop. Don't forget the websites and 1800 number.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

[E [REDACTED]]

[REDACTED]
PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Saturday, 8 January 2011 8:39 PM
To: 'Darren Zanow'
Subject: RE: Releases from Wivenhoe Dam.

Darren,

I think everything will be -- it might be like central Queensland.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

IE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Darren Zanow [REDACTED]
Sent: Saturday, 8 January 2011 8:37 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

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We'll keep you updated as events develop. Don't forget the websites and 1800 number.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
IE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Saturday, 8 January 2011 8:41 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Let's hope not..... It would be a very devastating situation for us!!!!

Sent from my iPhone

On 08/01/2011, at 8:39 PM, "Graham Keegan" [REDACTED] wrote:

Darren,

I think everything will be – it might be like central Queensland.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] Mob [REDACTED]

| E [REDACTED]

[REDACTED]
PO Box 37, FERNVALE, Q., 4306.

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Webster, Stewart

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Sent: Saturday, 8 January 2011 8:55 PM
To: 'Darren Zanow'
Subject: RE: Releases from Wivenhoe Dam.

Darren,

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Regards,

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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Saturday, 8 January 2011 9:11 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

I fully understand Graham.... I really appreciate being kept in the loop! I know you have an understanding of our site and how it effects our operation..... I am not alarmed..... Yet!!!! Cheers

Sent from my iPhone

On 08/01/2011, at 8:54 PM, "Graham Keegan" <[REDACTED]> wrote:

Darren,

I was trying not to alarm you, but that is what the word "however" is warning of. If we do keep peak flow rate in the river to 1800cumecs, bridges remain open - Mt Crosby Weir Bridge is submerged at 1900cumecs, while Fernvale bridge is 2100cumecs.

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Engineering officer

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<Image001.jpg>

Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]

| E [REDACTED]

[REDACTED]
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Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

[REDACTED]
PO Box 37, FERNVALE, Q., 4308.

Website | www.seqwater.com.au

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Webster, Stewart

From: Helen Skerman [REDACTED]
Sent: Sunday, 9 January 2011 6:02 PM
To: Graham Keegan
Subject: Advise of Wivenhoe water releases

Dear Graham

Could you please add our email address to the list of irrigators to be advised of Wivenhoe Dam releases.

Many thanks

Rob and Helen Skerman
[REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Sunday, 9 January 2011 7:18 PM
To: 'Helen Skerman'
Subject: RE: Advise of Wivenhoe water releases

Rob & Helen,

Will do!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]
LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
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Webster, Stewart

From: Helen [REDACTED]
Sent: Sunday, 9 January 2011 8:05 PM
To: Graham Keegan
Subject: RE: Advise of Wivenhoe water releases

Thanks

From: Graham Keegan [REDACTED]
Sent: Sunday, 9 January 2011 7:18 PM
To: Helen Skerman
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Rob & Helen,

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Regards,

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Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



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Webster, Stewart

From: anita [REDACTED]
Sent: Sunday, 9 January 2011 8:57 PM
To: Graham Keegan
Subject: could you add me to your alert list.

Hi graham, its Clinton mcdermott I live at [REDACTED] Wivenhoe pocket could you please add me to your email alert list Im at [REDACTED] thanks very much for time .

-----Safe Stamp-----
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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Sunday, 9 January 2011 8:59 PM
To: 'anita'
Subject: RE: could you add me to your alert list.

Anita,

Will do.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] Mob [REDACTED]
LE [REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Sunday, 9 January 2011 10:27 PM
To: [REDACTED]
Subject: Releases from Wivenhoe Dam.

Darren,

Sorry, but this is bad news!

The FOC has provided another update at 2100hrs. Rivers are still rising and inflow rates increasing – currently 6700cumecs in upper-Brisbane and 4000cumecs in Stanley River. These rates may increase with further rainfall.

Releases from Wivenhoe Dam will increase from midday tomorrow and rise to 2600cumecs during Tuesday morning. Peak release rate will be kept below 3500cumecs, with higher flow rates in the lower Brisbane River. The aim now is to drain Wivenhoe Dam, but minimize flood impacts in urban areas.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PQ Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Wendy Higgs [REDACTED]
Sent: Sunday, 9 January 2011 10:46 PM
To: Graham Keegan
Subject: Gate release update emails

Hi,
My Hubby manages the cropping property where we live at Wivenhoe Pocket which is on the Brisbane river, could you please add me to your email list and send me the gate release update emails too. It would be greatly appreciated.
Thanks Wendy

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Sunday, 9 January 2011 10:47 PM
To: 'Wendy Higgs'
Subject: RE: Gate release update emails

Wendy,

Will do.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 1:11 AM
To: [REDACTED]
Subject: Savage's Crossing ALERT station - DERM data.

Darren,

I have looked through the DERM website. Their discharge – height data indicates the following historical flows at Savage's crossing:

Year	Height (m)	Flow rate (cumecs)
1974	23.79	7393
1968	16.12	3363
1971	14.68	2779
1996	12.58	2019
1999	11.40	1639
1992	10.00	1239
1982	9.08	1006.

It looks like the river will reach around the 16.25m mark for a flow of 3500cumecs.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Monday, 10 January 2011 6:09 AM
To: Graham Keegan
Subject: RE: Savage's Crossing ALERT station - DERM data.

Thanks Graham.....

We are frantically working.....



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4806
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: [REDACTED]
Email: [REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 6:20 AM
To: 'Darren Zanow'
Subject: RE: Savage's Crossing ALERT station - DERM data.

Darren,

Good luck with everything.

I have just been to the Fernvale Bridge. You were correct about the area at Wivenhoe Pocket Road intersection. Water is deeper there than Shine's Gully – bridge deck is still well clear.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax: [REDACTED] | Mob [REDACTED]
IE [REDACTED]

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Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: www.zanow.com.au
Email: [REDACTED]

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Sent: Monday, 10 January 2011 7:36 AM
To: Graham Keegan
Cc: 'Zanow Sand Gravel'; 'David Gornley'
Subject: RE: Savage's Crossing ALERT station - DERM data.

Yes Graham.... I was sure this was the case as my Surveyor was surveying that new block we bought beside Tom and Ann Wilkinson's place, and I asked him to shoot me some levels..... This is why I was son confident about the water levels.... Our levy bank began to breach at 10.00pm last night which we let happen so it equalized the water.... Sorry we were not able to keep the water off the highway any longer..... It took until 3.30am this morning to fill the extraction..... It has just began to overtop in Wilkinson's so it is beginning to flow through that gully. I only hope the velocity of the water does not push over our bunds beside the highway... I never wanted to have them, but we were made to have them.....

Please let us know if FOC is going to let it out higher.....

Cheers



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: www.zanow.com.au
Email: [REDACTED]

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 6:20 AM
To: Darren Zanow
Subject: RE: Savage's Crossing ALERT station - DERM data.

Darren,

Good luck with everything.

I have just been to the Fernvale Bridge. You were correct about the area at Wivenhoe Pocket Road intersection. Water is deeper there than Shine's Gully – bridge deck is still well clear.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Darren Zanow [REDACTED]
Sent: Monday, 10 January 2011 6:09 AM
To: Graham Keegan
Subject: RE: Savage's Crossing ALERT station - DERM data.

Thanks Graham.....

We are frantically working.....



Darren Zanow
Managing Director

Address: [REDACTED]
Postal Address: P O Box 9, Fernvale Qld 4306
Telephone: [REDACTED]
Facsimile: [REDACTED]
Mobile: [REDACTED]
Web Site: www.zanow.com.au
Email: [REDACTED]

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 1:11 AM
To: darren@zanow.com.au
Subject: Savage's Crossing ALERT station - DERM data.

Darren,

I have looked through the DERM website. Their discharge – height data indicates the following historical flows at Savage's crossing:

Year	Height (m)	Flow rate (cumecs)
1974	23.79	7393
1968	16.12	3363
1971	14.68	2779
1996	12.58	2019
1999	11.40	1639
1992	10.00	1239
1982	9.08	1006.

It looks like the river will reach around the 16.25m mark for a flow of 3500cumecs.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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Webster, Stewart

From: Craig Horsfield [REDACTED]
Sent: Monday, 10 January 2011 11:17 AM
To: Graham Keegan
Subject: from Craig Horsfield

Graham , was hoping to be added to the emailing list of MBRI members , just have an intrest in the goings on of the water levels , thanks , Craig

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Webster, Stewart

From: Jon Scott [REDACTED]
Sent: Monday, 10 January 2011 11:23 AM
To: Graham Keegan
Subject: Updates

Yes please send me updates ,
Due to local road access for work purposes

Jon Scott

Mob: [REDACTED]
Email: [REDACTED]

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Webster, Stewart

From: Donna [REDACTED]
Sent: Monday, 10 January 2011 12:27 PM
To: Graham Keegan
Subject: dam release updates



Dear Graham

I have been told that you are the person to contact regarding dam releases.

My partner and I have a lease property that backs onto the brisbane river at Wivenhoe Pocket.

Recently we have had cattle stranded on a sand bank that has developed from previous dam releases. I desperately tried at the time to acquire information on further dam releases but to no avail.

We have also repaired and repaired fences that have totally washed away or damaged to the point of needing total repair. Some fences lay under metres of sand that has been deposited on the property.

It would be appreciated if we can receive sms notification of gate openings and closings so that our management of our livestock and property can be geared toward the rising and falling of the river.

My mobile telephone number is [REDACTED]. Many thanks.

Regards

Donna Ramsey & John Lacey
JL & DR Livestock



[FREE Animations for your email - by IncrediMail!](#) [Click Here!](#)

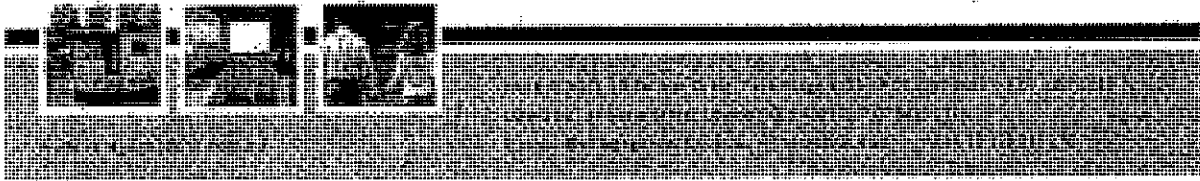
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For more information regarding this service, please contact your se

Webster, Stewart

From: Jacqui Stephen [REDACTED]
Sent: Monday, 10 January 2011 1:51 PM
To: Graham Keegan
Subject: Semi retirement village at Lowood - updates would be appreciated

As an owner of Village Gardens, a 40 plus village at Main Street Lowood I would appreciate an update of water and dam releases please.
We are a semi retirement village and as we seem to be flooded in at Lowood any information would be greatly appreciated.

--
Jacqui Stephen
[REDACTED]



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Webster, Stewart

From: YOUNG, Rebecca [REDACTED]
Sent: Monday, 10 January 2011 2:16 PM
To: Graham Keegan
Subject: Subscribe Alets

Hi,

As per below can you add me to the email alerts.

Regards,
Rebecca young

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

From: Somerset Region Business Alliance
Sent: Monday, January 10, 2011 10:36 AM
Subject: Brisbane Valley Highway closure due to flooding

Anyone in Somerset Region planning to travel south or north to or from Fernvale on the Brisbane Valley Highway might find it useful to know the Brisbane Valley Highway is closed at Shines Gully (between Geof Fisher Bridge and Spltyard Creek Road at the Somerset turnioff). It's a lagoon:



In addition, I've been advised that essential flood mitigation releases from Wivenhoe Dam will be increased over the next couple of days, so the Geof Fisher Bridge itself will be inundated. The recreational areas and viwing platforms in the Wivenhoe Dam spillway will be closed for safety reasons.

Anyone with land that may be affected by the Wivenhoe Dam flood mitigation releases can request to be included on the SEQ Water email alert list by emailing Graham Keegan

at [REDACTED]

In addition, the Somerset Region Council has posted this notice on their website:

"Due to recent rain, the Somerset Region's road network has been significantly affected and many of our roads have been flooded making vehicle travel difficult and in some areas impossible. Travelers are asked to be extra careful as there is significant flooding in many areas, and potholes and landslips are appearing as a result. Council is endeavouring to get as many roads opened as possible, however the developing rain is making that task all the more difficult."

If local residents would like to send me information about main road closures due to local flooding in our region, I will set up a web page on the Somerset Region Business Alliance website as a local resource if there is sufficient information to be useful.

Please feel welcome to forward this email to anyone you think may find it useful. If you wish to be included on the mailing list for future such alerts, please send an email to [REDACTED] with 'Subscribe Alerts' in the subject line. Your email address not be used for any other purpose.

Thank you.



Paul Heymans
Deputy Chairperson
Marketing and Communications
Somerset Region Business Alliance Inc.

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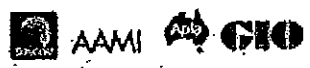
In these cases you should not reply unless you are authorised to do so, and adequate encryption is employed."

If you have any questions, please contact the IS Service Desk.

Rebecca Young
Customer Development Advisor | QLD Motor Portfolio | Suncorp

[REDACTED] IPC: 4PI382 |

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Webster, Stewart

From: Ramon Miller [REDACTED]
Sent: Monday, 10 January 2011 4:13 PM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Hello Graham,

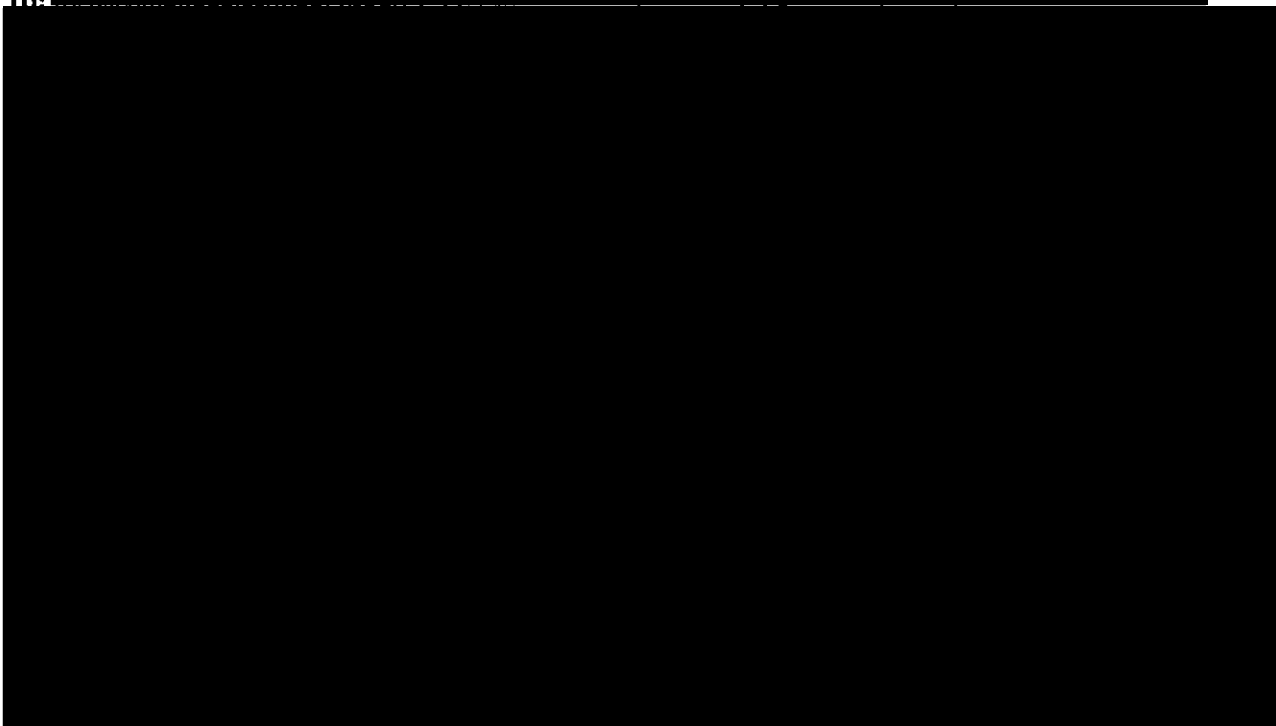
It's now 4.08pm and the Kholo Bridge is presently 6 + metres under water. Do you expect significant Brisbane River rises in the mid Brisbane River overnight?

Regards,

Ray and Jane Miller

Kholo

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 3:25 AM
To: [REDACTED]



Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

We have experienced a rapid increase in river levels and inflow rates in the upper-Brisbane River. As an example the peak flow at Gregor's Creek station (near Toogoolawah) is similar to the 1974 peak flow at Savage's Crossing (combination of Brisbane River, Lockyer Creek and Somerset Dam releases at that time). The Stanley River is also experiencing major flooding. Flow rates in both rivers may increase if predicted rainfall occurs.

Flood water and releases began to affect Fernvale Bridge before mid-night. Mt Crosby Weir Bridge was closed

at the same time.

Increases in Wivenhoe Dam release rates began at 0200hrs this morning. Initial target is 2600cumecs, and potential peak rate is 3500cumecs. The release is now expected to continue until at least Sunday 16/01.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 5:24 PM
To: [REDACTED]
Subject: Re: Releases from Wivenhoe Dam.

Ramon, yes . Email to follow after 7pm. GK

From: Ramon Miller [REDACTED]
To: Graham Keegan
Sent: Mon Jan 10 16:13:28 2011
Subject: RE: Releases from Wivenhoe Dam.

Hello Graham,

It's now 4.08pm and the Kholo Bridge is presently 6 + metres under water. Do you expect significant Brisbane River rises in the mid Brisbane River overnight?

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater.



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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 8:00 PM
To: 'YOUNG, Rebecca'
Cc: Mike Foster; Paul Bird
Subject: RE: Subscribe Alets

Rebecca,

We are providing a service to irrigation customers and other river front residents in the mid-Brisbane River zone (Wivenhoe Dam to Mt Crosby Weir). The purpose is to enable the irrigators to move valuable equipment and stock out of riverside areas which may be affected by our releases. My contact with Paul Heymans was aimed at irrigators who are not members of the mid-Brisbane River Irrigators association but need updates on our activities.

This may appear to be a harsh statement, but we are not responsible for general warnings to the public. Relevant information is available on our Seqwater website and the Water Grid Release Information number: 1800 613122. If you need additional information please contact Bureau of Meteorology and relevant Local Authorities. These bodies are responsible for alerts for Flood Warnings, road closures etc..

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: YOUNG, Rebecca [REDACTED]
Sent: Monday, 10 January 2011 2:16 PM
To: Graham Keegan
Subject: Subscribe Alets

Hi,

As per below can you add me to the email alerts.

Regards,
Rebecca young

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

From: Somerset Region Business Alliance
Sent: Monday, January 10, 2011 10:36 AM
Subject: Brisbane Valley Highway closure due to flooding

Anyone In Somerset Region planning to travel south or north to or from Fernvale on the Brisbane

Valley Highway might find it useful to know the Brisbane Valley Highway is closed at Shines Gully (between Geof Fisher Bridge and Spltyard Creek Road at the Somerset turnoff). It's a lagoon:



In addition, I've been advised that essential flood mitigation releases from Wivenhoe Dam will be increased over the next couple of days, so the Geof Fisher Bridge itself will be inundated. The recreational areas and viwing platforms in the Wivenhoe Dam spillway will be closed for safety reasons.

Anyone with land that may be affected by the Wivenhoe Dam flood mitigation releases can request to be included on the SEQ Water email alert list by emailing Graham Keegan at [REDACTED]

In addition, the Somerset Region Council has posted this notice on their website:

"Due to recent rain, the Somerset Region's road network has been significantly affected and many of our roads have been flooded making vehicle travel difficult and in some areas impossible. Travelers are asked to be extra careful as there is significant flooding in many areas, and potholes and landslips are appearing as a result. Council is endeavouring to get as many roads opened as possible, however the developing rain is making that task all the more difficult."

If local residents would like to send me information about main road closures due to local flooding in our region, I will set up a web page on the Somerset Region Business Alliance website as a local resource if there is sufficient information to be useful.

Please feel welcome to forward this email to anyone you think may find it useful. If you wish to be included on the mailing list for future such alerts, please send an email to [REDACTED] with 'Subscribe Alerts' in the subject line. Your email address not be used for any other purpose.

Thank you.



Paul Heymans
Deputy Chairperson
Marketing and Communications
Somerset Region Business Alliance Inc.

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Rebecca Young
Customer Development Advisor | QLD Motor Portfolio | Suncorp

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 8:22 PM
To: [REDACTED]
Cc: Mike Foster; Paul Bird
Subject: Emails on Wivenhoe Dam releases.

Paul,

I have received a few emails from your contacts. They have asked to be added to our contact list.

I need to explain that the purpose of our emails is to inform a specific group (mid-Brisbane River irrigators) of our operations so that they can move equipment and livestock from riverfront areas which may be affected by our releases. We are not trying to advise the general public of flooding or road closures. Some riverfront residents are included as they may also have equipment and livestock at risk.

The general public is welcome to visit our website or use the Water Grid Releases Information number 1800 613122 for their needs. However, they still need to take note of Bureau of Meteorology warnings and other relevant advice provided by Local Authorities and other government agencies who have a legal responsibility for that purpose.

I am rejecting some of the enquiries on the above basis.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Paul Heymans (SRBA Marketing & Comms.) [REDACTED]
Sent: Monday, 10 January 2011 8:31 PM
To: Graham Keegan
Subject: RE: Emails on Wivenhoe Dam releases.

OK, no worries, but since you asked for feedback, one common complaint has been lack of information from Wivenhoe Dam about flood releases. Frankly, if I'd know it was going over the bridge, I would have gone food shopping for supplies. Might it be an idea to generate an email alert system for that purpose? The info may be on the website, but people are busy and may not think to look. Just a suggestion for the suggestion box. ☺

SES has just issued an SMS emergency alert for all people in our region to move to higher ground. Came though on mobiles and phones.

Thanks.



Paul Heymans
Marketing and Communications
Somerset Region Business Alliance Inc

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 8:32 PM
To: 'Jacqui Stephen'
Subject: RE: Semi retirement village at Lowood - updates would be appreciated

Jacqui,

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

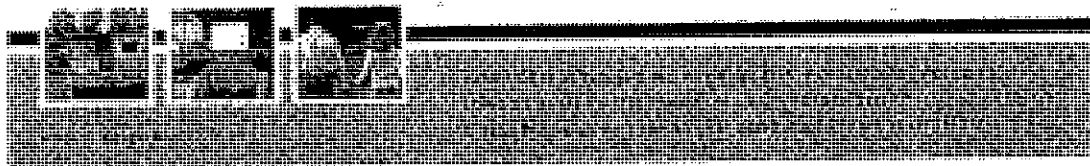
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Jacqui Stephen [REDACTED]
Sent: Monday, 10 January 2011 1:51 PM
To: Graham Keegan
Subject: Semi retirement village at Lowood - updates would be appreciated

As an owner of Village Gardens, a 40 plus village at Main Street Lowood I would appreciate an update of water and dam releases please.

We are a semi retirement village and as we seem to be flooded in at Lowood any information would be greatly appreciated.

--
Jacqui Stephen
[REDACTED]



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Webster, Stewart

From: Ramon Miller [REDACTED]
Sent: Monday, 10 January 2011 8:33 PM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Hi Graham,

What's happening? We really need some warning of what's going to occur tonight.

Kind regards,

Ray Miller

Kholo

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 5:24 PM
To: [REDACTED]
Subject: Re: Releases from Wivenhoe Dam.

Ramon, yes . Email to follow after 7pm. GK

From: Ramon Miller [REDACTED]
To: Graham Keegan
Sent: Mon Jan 10 16:13:28 2011
Subject: RE: Releases from Wivenhoe Dam.

Hello Graham,

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Regards,

Ray and Jane Miller

Kholo

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 3:25 AM
To: [REDACTED]

Cc: Mike Foster

Subject: Releases from Wivenhoe Dam.

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
IE [REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 8:36 PM
To: 'Paul Heymans (SRBA Marketing & Comms.)'
Subject: RE: Emails on Wivenhoe Dam releases.

Paul,

Understood, I'll raise the issue with our managers. Julie, just received the SMS message as well.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Paul Heymans (SRBA Marketing & Comms.) [REDACTED]
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OK, no worries, but since you asked for feedback, one common complaint has been lack of information from Wivenhoe Dam about flood releases. Frankly, if I'd know it was going over the bridge, I would have gone food shopping for supplies. Might it be an idea to generate an email alert system for that purpose? The info may be on the website, but people are busy and may not think to look. Just a suggestion for the suggestion box. ☺

SES has just issued an SMS emergency alert for all people in our region to move to higher ground. Came though on mobiles and phones.

Thanks.



Paul Heymans
Marketing and Communications
Somerset Region Business Alliance Inc

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Webster, Stewart

From: Paul Heymans (SRBA Marketing & Comms.) [REDACTED]
Sent: Monday, 10 January 2011 9:05 PM
To: Graham Keegan
Subject: RE: Emails on Wivenhoe Dam releases.

"I'll raise the issue with our managers"

Let me know how you go. If need be, I'll apply pressure. ☺

You know, it never occurred to me the river would go over the bridge. That's an awesome volume of water.



Paul Heymans
Marketing and Communications
Somerset Region Business Alliance Inc

[REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 9:13 PM
To: 'Donna'
Subject: RE: dam release updates

Donna,

I'll add you to our email list (no SMS at present).

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]
LWIC 2470 Brisbane Valley Highway, via Fernvale
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Donna [REDACTED]
Sent: Monday, 10 January 2011 12:27 PM
To: Graham Keegan
Subject: dam release updates



Dear Graham

I have been told that you are the person to contact regarding dam releases.

My partner and I have a lease property that backs onto the brisbane river at Wivenhoe Pocket.

Recently we have had cattle stranded on a sand bank that has developed from previous dam releases. I desperately tried at the time to acquire information on further dam releases but to no avail.

We have also repaired and repaired fences that have totally washed away or damaged to the point of needing total repair. Some fences lay under metres of sand that has been deposited on the property.

It would be appreciated if we can receive sms notification of gate openings and closings so that our


management of our livestock and property can be geared toward the rising and falling of the river.

My mobile telephone number is [REDACTED] Many thanks.

Regards

Donna Ramsey & John Lacey
JL & DR Livestock



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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 9:17 PM
To: [REDACTED]
Subject: FW: Releases from Wivenhoe Dam.

Donna,

Sorry, I hadn't included you on the list when I sent this latest email.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Graham Keegan
Sent: Monday, 10 January 2011 9:03 PM
To: [REDACTED]

Cc: Mike Foster; Paul Bird
Subject: Releases from Wivenhoe Dam.

Good evening MBRI members and other residents,

Current release rate from Wivenhoe Dam is 2400cumecs. FOC has advised that we will increase to 2800cumecs, but have not provided a schedule at present.

Their advice is that the river will rise to approx 16 to 17m at Savage's Crossing gauge by midnight (currently 14.8m). The river is expected to rise to 17 to 18m at Mt Crosby Weir (currently 15m). 1974 flood levels were approx 24m at Savage's crossing and 26m at Mt Crosby Weir.

Present strategy is to keep flow rates in the lower Brisbane river to below 4000cumecs if possible and to minimize effects of flooding in urban areas.

Lockyer Valley and Somerset Regional residents have received SMS messages regarding this afternoon's flash flooding and response. The FOC is discussing its effects with BoM at present and will provide further advice shortly. We'll keep you updated. Please listen to radio and TV for media releases.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

Webster, Stewart

From: Marianne & Fraser [REDACTED]
Sent: Monday, 10 January 2011 10:07 PM
To: Graham Keegan
Subject: SEQ Water email alert list

Please add me to your SEQ Water email alert list

Fraser

[REDACTED]
Wivenhoe pocket

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Monday, 10 January 2011 10:22 PM
To: 'Paul Heymans (SRBA Marketing & Comms.)'
Subject: RE: Emails on Wivenhoe Dam releases.

Paul,

There is still plenty of spare capacity in the spillway.

Have you received any feedback on the Flash flood in the Lockyer Creek?

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] Mob [REDACTED]
| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Paul Heymans (SRBA Marketing & Comms.) [REDACTED]
Sent: Monday, 10 January 2011 9:05 PM
To: Graham Keegan
Subject: RE: Emails on Wivenhoe Dam releases.

"I'll raise the issue with our managers"

Let me know how you go. If need be, I'll apply pressure. ☺

You know, it never occurred to me the river would go over the bridge. That's an awesome volume of water.



Paul Heymans
Marketing and Communications
Somerset Region Business Alliance Inc
[REDACTED]

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Webster, Stewart

From: Paul Heymans (SRBA Marketing & Comms.) [REDACTED]
Sent: Monday, 10 January 2011 10:41 PM
To: Graham Keegan
Subject: RE: Emails on Wivenhoe Dam releases.

"Have you received any feedback on the Flash flood in the Lockyer Creek?"

I took your advice and left it alone. It's one thing to set up an informal community network helping local people share information about which roads are closed and quite another to issue a flood warning that may or may not be accurate.

On the issue of the road closures, the SRC seem to have picked up the ball, but there is an absence of information about minor roads. For example, I received this email from one local resident: "Hubners bridge is completely missing and all residents on the other side have no way of getting supplies...hubners bridge is on sandy creek road, sandy creek via Kilcoy Qld."

With the lack of advance advice about the closure of the Brisbane Valley Highway into Fernvale, *someone is going to have to do something* about getting supplies to those locals who got caught out. We're OK, but a couple of neighbours are quite short of food. I understand Coominya shop is pretty much sold out



Paul Heymans
Marketing and Communications
Somerset Region Business Alliance Inc

[REDACTED]

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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Tuesday, 11 January 2011 2:54 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Hi Graham So the peak flow is currently around 4000? This is total? Cheers

Sent from my iPhone

On 11/01/2011, at 2:42 AM, "Graham Keegan" [REDACTED] wrote:

Good morning MBRI members and other residents,

Current release rate is 2730cumecs. River heights at various gauging stations are: Lowood 15.89m, Savage's Crossing 15.77m, Burton's Bridge 12.16m and Mt Crosby Weir 15.68m.

FOC and BoM are still investigating the Lockyer Creek flash flood. If necessary (or possible) the release rate will be modified to moderate effects in the mid-Brisbane River zone. At present the peak appears to have passed Glenore Grove around mid-night but no significant rise has occurred at lower Lockyer gauging stations.

The overall strategy of maintaining the lower Brisbane River at a peak flow of 4000cumecs has not changed.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

[E [REDACTED]

[REDACTED]
PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

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Webster, Stewart

From: John Craigie [REDACTED]
Sent: Tuesday, 11 January 2011 3:29 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Dear Graham

Thank you for the updates. My email [REDACTED] does not appear to be working. Below is the last e-mail received from you. Could you please sent further emails to [REDACTED] We are on the river at Pine Mountain and estimate we have about 5 metres to go before possible flooding into our house. Hopefully this may not occur!

Kind regards

John Craigie

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Lockyer Valley and Somerset Regional residents have received SMS messages regarding this afternoon's flash flooding and response. The FOC is discussing its effects with BoM at present and will provide further advice shortly. We'll keep you updated. Please listen to radio and TV for media releases.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]
LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au <<http://www.seqwater.com.au>>

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 5:40 AM
To: 'Darren Zanow'
Subject: RE: Releases from Wivenhoe Dam.

Darren,

It looks like it would be in that order – FOC advised that ratings at gauging stations do change over time (siltting, de-siltting, vegetation etc.), so it will be approximate.

Current levels are: Lowood 15.99m (level), Savage's Crossing 16.03m (rising), Burton's Bridge 12.54m (rising) and Mt Crosby 16.03 (rising). O'Reilly's Weir appears to be levelling off, but there are still rises above it at Lyon's Bridge.

We have another major flood in the upper Brisbane River and it is still raining in the catchments.

I should receive another SITREP soon, so will update again then.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]
[REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 5:41 AM
To: 'John Craigie'
Subject: RE: Releases from Wivenhoe Dam.

John,

Will do. I should provide another update soon.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: John Craigie [REDACTED]
Sent: Tuesday, 11 January 2011 3:29 AM
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Subject: Re: Releases from Wivenhoe Dam.

Dear Graham

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Kind regards

John Craigie

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.

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Webster, Stewart

From: Wayne Gerard [REDACTED]
Sent: Tuesday, 11 January 2011 2:42 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Hi Graham,

Any more news on water level in Wivenhoe Pocket. We pulled out at 1pm

Thanks

Have a fantastic day

Cheers

Wayne Gerard
Managing Director
Sales Development Group

Mobile [REDACTED]

Sent from my iPhone

On 11/01/2011, at 9:50 AM, Graham Keegan [REDACTED] wrote:

Good morning again MBRI members and other residents,

The flood situation has moved into a critical phase as the lake is approaching our next trigger level. We began to increase releases at 8AM and will reach approx 3500cumecs by lunchtime today. Local run-off is exacerbating the situation and O'Reilly's Weir is rising also. Somerset Dam release has ceased.

At present communications with the FOC are difficult but it appears that river levels will rise significantly – no projections available yet. Current levels are: Lowood 17.05m (rising), Savage's Crossing 18.33m (rising), Burton's Bridge 14.82m (rising) and Mt Crosby Weir 16.76m (rising).

The FOC is constantly reviewing the situation and our operations. We will update ASAP, but in the meantime please check your options for re-location. Also listen to emergency services broadcasts for up-to-date situation reports. A severe weather alert is current for SE Qld and further falls of heavy rainfall appear likely.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]
[REDACTED]

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Website | www.seqwater.com.au

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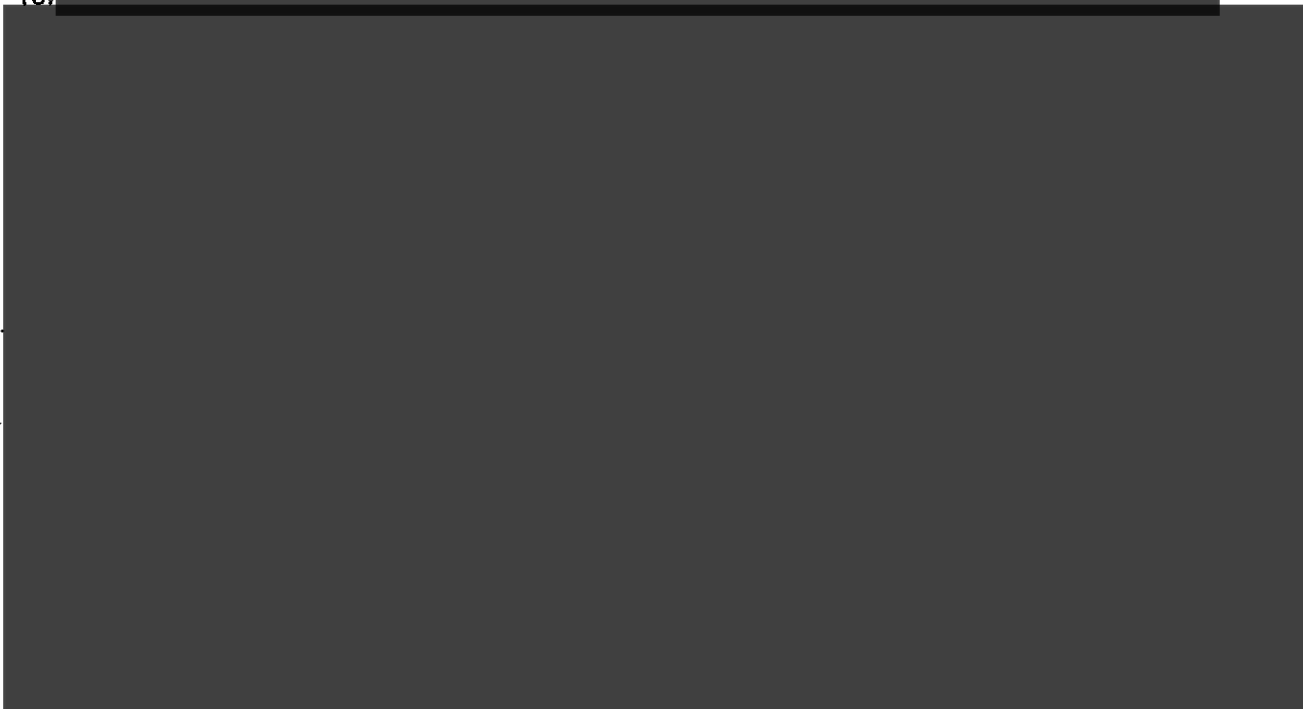
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Webster, Stewart

From: linda sippel [REDACTED]
Sent: Tuesday, 11 January 2011 7:48 PM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Thank you Graham, yes It was recleved ok, and thank you for you updates

Subject: Releases from Wivenhoe Dam.
Date: Tue, 11 Jan 2011 19:43:26 +1000
From: [REDACTED]
To: [REDACTED]



CC: mfooster@seqwater.com.au

Good evening MBRI members and other residents,

I apologize for lack of communications in recent times – we have telecommunication problems and I badly needed some sleep.

Release rate was 6700cumecs at 1730hrs (05:30PM) and increasing to 8000cumecs by 2030hrs (08:30PM). This will match release rate with estimated inflow rate. On its own this release exceeds the peak flow rate of approx 7500cumecs at Savage's Crossing during the 1974 flood. Flood levels along the mid-Brisbane River can be expected to be significantly higher than that flood.

Current river levels are: Lowood 21.97m (rising), Savage's Crossing 21.67m (rising), Burton's Bridge 17.14m (rising) and Mt Crosby Weir 21.64m (rising). Approx peak river levels for 1974 flood were Lowood 22m (unconfirmed), Savages 23.8m (DERM) and Mt Crosby 26.7m (BoM).

Wivenhoe Dam is expected to reach a maximum level of 75.5m provided no further significant rainfall occurs. This is 0.1m below the trigger level for fuse-plug No1 (centre) – this is the major focus of the current release strategy. If this target is achieved, we may be able to slowly reduce the release rate overnight. Please note that our operators are continuing their regular inspections of Wivenhoe Dam and that it is still sound.

I understand there are still power problems in the area. Could one of you please confirm receipt of this email!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
IE [REDACTED]

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Webster, Stewart

From: [REDACTED]
Sent: Tuesday, 11 January 2011 7:55 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoé Dam.

Received thanks graham

Sent via BlackBerry® from Telstra

From: "Graham Keegan" [REDACTED]
Date: Tue, 11 Jan 2011 19:43:26 +1000
To: [REDACTED]



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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
LE [REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 8:07 PM
To: 'grassco@optusnet.com.au'
Subject: Re: Releases from Wivenhoe Dam.

Matt, Jenny, thanks for the response. GK

From: grassco@optusnet.com.au [REDACTED]
To: Graham Keegan
Sent: Tue Jan 11 19:55:06 2011
Subject: Re: Releases from Wivenhoe Dam.

Received thanks graham

Sent via BlackBerry® from Telstra

From: "Graham Keegan" [REDACTED]
Date: Tue, 11 Jan 2011 19:43:26 +1000
To: [REDACTED]

[REDACTED]

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Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

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Webster, Stewart

From: Linda McInnes [REDACTED]
Sent: Tuesday, 11 January 2011 8:57 PM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Received. Thanks for you updates Graham and your tireless work to keep us all in the loop.
Regards
Linda

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 7:43 PM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

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Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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Webster, Stewart

From: Jean Bray [REDACTED]
Sent: Tuesday, 11 January 2011 9:00 PM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Graham thank you for the advice.....Jocelyn Bailey spoke to me earlier by phone....she has no power and is currently cut off from access to Ipswich and surrounds.....I am happy to ring her and pass on your information.....Jean Bray

From: Graham Keegan [REDACTED]
Sent: Tuesday, 11 January 2011 7:43 PM
To: [REDACTED]

CC: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good evening MBRI members and other residents,

I apologize for lack of communications in recent times – we have telecommunication problems and I badly needed some sleep.

Release rate was 6700cumecs at 1730hrs (05:30PM) and increasing to 8000cumecs by 2030hrs (08:30PM). This will match release rate with estimated inflow rate. On its own this release exceeds the peak flow rate of approx 7500cumecs at Savage's Crossing during the 1974 flood. Flood levels along the mid-Brisbane River can be expected to be significantly higher than that flood.

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Wivenhoe Dam is expected to reach a maximum level of 75.5m provided no further significant rainfall occurs. This is 0.1m below the trigger level for fuse-plug No1 (centre) – this is the major focus of the current release

strategy. If this target is achieved, we may be able to slowly reduce the release rate overnight. Please note that our operators are continuing their regular inspections of Wivenhoe Dam and that it is still sound.

I understand there are still power problems in the area. Could one of you please confirm receipt of this email

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

IE [REDACTED]

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Webster, Stewart

From: Wayne Gerard [REDACTED]
Sent: Tuesday, 11 January 2011 9:12 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Thanks Graham

Have a fantastic day

Cheers

Wayne Gerard
Managing Director
Sales Development Group

Mobile [REDACTED]

Sent from my iPhone

On 11/01/2011, at 7:43 PM, "Graham Keegan" [REDACTED] wrote:

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Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

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Webster, Stewart

From: Liz Christensen [REDACTED]
Sent: Tuesday, 11 January 2011 9:22 PM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe Dam.

Dear Graham,

Our sincere thanks for your tireless work & communications.....It is much appreciated, if that's any consolation!
Good luck with Wivenhoe's management etc. Interesting times, hey!?

Regards,

Liz Christensen

**Zuhra Arabian Horses & Pointer Dogs
Equine & Pet Photography**

Pine Mountain, Australia.

Email: [REDACTED]

or [REDACTED]

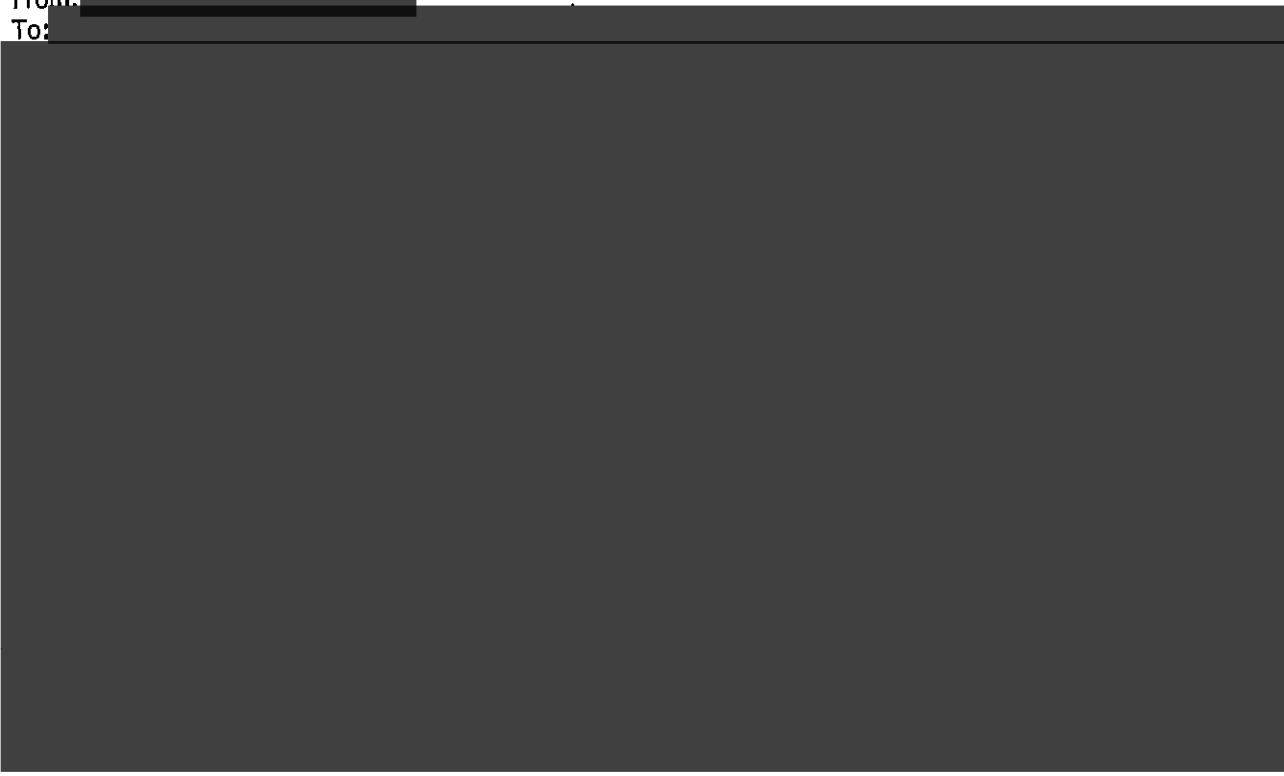
Phone: [REDACTED]

(International phone [REDACTED])

WEBSITE:

www.zuhra-arabians.com

Subject: Releases from Wivenhoe Dam.
Date: Tue, 11 Jan 2011 19:43:26 +1000
From: [REDACTED]
To: [REDACTED]



CC: [REDACTED]

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I apologize for lack of communications in recent times – we have telecommunication problems and I badly needed some sleep.

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I understand there are still power problems in the area. Could one of you please confirm receipt of this email!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
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[REDACTED]

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Webster, Stewart

From: phillipmorgan [REDACTED]
Sent: Tuesday, 11 January 2011 10:01 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

11.01.2011. received thankyou. Phillip Morgan.-----Graham Keegan
<gkeegan@seqwater.com.au> wrote;

> Good evening MBRI members and other residents,

>
>

> I apologize for lack of communications in recent times - we have
> telecommunication problems and I badly needed some sleep.

>
>

> Release rate was 6700cumecs at 1730hrs (05:30PM) and increasing to
> 8000cumecs by 2030hrs (08:30PM). This will match release rate with
> estimated inflow rate. On its own this release exceeds the peak flow
> rate of approx 7500cumecs at Savage's Crossing during the 1974 flood.
> Flood levels along the mid-Brisbane River can be expected to be
> significantly higher than that flood.

>
>

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> 21.67m (rising), Burton's Bridge 17.14m (rising) and Mt Crosby Weir
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>
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> Wivenhoe Dam is expected to reach a maximum level of 75.5m provided no
> further significant rainfall occurs. This is 0.1m below the trigger
> level for fuse-plug N01 (centre) - this is the major focus of the
> current release strategy. If this target is achieved, we may be able
> to slowly reduce the release rate overnight. Please note that our
> operators are continuing their regular inspections of Wivenhoe Dam and
> that it is still sound.

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> I understand there are still power problems in the area. Could one of
> you please confirm receipt of this email!

>
>

> Regards,

>
>

> Graham Keegan

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>

> Engineering officer

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>

> Queensland Bulk Water Supply Authority trading as Seqwater

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> Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

>
>

> | E [REDACTED]

> [REDACTED] PO Box 37, FERNVALE,
> Q., 4306.
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Webster, Stewart

From: Bill & Desley Mahon [REDACTED]
Sent: Tuesday, 11 January 2011 10:17 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Received email

Thank you

Desley Mahon
On 11/01/2011, at 7:43 PM, Graham Keegan wrote:

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*

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Webster, Stewart

From: Russell Ladbrook [REDACTED]
Sent: Tuesday, 11 January 2011 10:19 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Thanks for your updates. Diana says she hopes Julie & family are safe and well.
Regards,
Russell

Sent from my iPhone

On 11/01/2011, at 7:43 PM, "Graham Keegan" [REDACTED] wrote:

Good evening MBRI members and other residents,

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Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<Image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

[REDACTED]

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Webster, Stewart

From: [REDACTED]
Sent: Thursday, 13 January 2011 9:51 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Hi Graham,

Just wanted to thank you for all the updates etc. through this event. The information has been really helpful and much appreciated. Congratulations on what I think was a very successful management operation of the dam and subsequent releases and I have no doubt that it has saved the city of Brisbane from a fate far, far worse than they have suffered. I hope that the team at the dam is recognised fully for the great work done.

Regards,

Steve Sinclair,

TURFBIZ.

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

From: Graham Keegan

To: [REDACTED]



Cc: Mike Foster

Sent: Wed, 12 Jan 2011 07:15:16 +0800 (WST)

Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Thanks to those people who were able to confirm receipt of
the last email - communications appeared unreliable last night.

The Wivenhoe Dam release reached a peak of approx 7500cumecs

last night (all gates opened to 12m). After the rise in the lake was brought to a halt (without triggering a fuse-plug), we confirmed that status for a few hours and then commenced reduction of the release rate as inflows diminished. At 0730hrs (07:30AM) this morning the release rate has been reduced to approx 2500cumecs - lake level is now relatively static. We will hold this rate for a short period until the Lockyer Creek peak flow enters the mid-Brisbane River. The Wivenhoe Dam release will be increased to 3500cumecs and drainage of the flood compartment will resume.

Somerset Dam has continued to discharge over its spillway (my mistake - releases had not ceased completely as stated in a previous email). The lake has now reached its peak (event) level. We will begin to drain it later today as we increase the Wivenhoe Dam release. Combined flood releases for the 2 Dams is expected to exceed 2million megalitres for this event - a return period (or probability) has not been assigned to the event yet; however BoM will eventually release that data. The concurrent event in the North Pine River catchment has been described tentatively as 1 in 10000 years (an extreme event).

Please note that there may be an initial reduction in river level associated with the lower release rate, but also note that river level may rise again as we increase our release. Maximum flow in the river will be

approx 4000cumecs. Our release will continue for another 7 days – flow rate will gradually reduce and river crossings will re-open. No timing is available at present. Please check BoM and traffic websites for flood information and updates on road conditions.

Current river levels are: Lowood 21.35m (falling, unreliable data). Savage's Crossing 23.09m (falling), Burton's Bridge 19.68m (rising) and Mt Crosby Weir 26.0m (static).

We'll provide updates as information is available.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as*
Seqwater



Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]

E [REDACTED]



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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Wednesday, 12 January 2011 4:17 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Hi Graham.... What level are you going to let out until 100 percent is achieved?

Sent from my iPhone

On 12/01/2011, at 5:04 AM, "Graham Keegan" [REDACTED] wrote:

Good morning MBRI members and other residents,

The lake level in Wivenhoe Dam is receding very slowly and clearance to the fuse-plug trigger is increasing. We are reducing the release rate slowly – current rate is approx 4300cumecs; peak was approx 7500cumecs.

Peak river levels and current levels are:

	Peak	Current
Lowood	25.09m @ 2346hrs 11/01	24.37m (falling)
Savage's Crossing	24.13M @ 0132hrs 12/01	23.99m (falling)
Burton's Bridge		18.4m (rising)
Mt Crosby Weir	24.91m @ 0327hrs 12/01	24.84m (rising).

Levels in Lockyer Creek are also dropping – the reduction at Wivenhoe Dam will also permit Lockyer Creek to drain quicker.

We'll keep you updated on our operations.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

[REDACTED]

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Webster, Stewart

From: Anthony De Rulter [REDACTED]
Sent: Wednesday, 12 January 2011 9:46 PM
To: Graham Keegan
Subject: FW: Releases from Wivenhoe Dam.

Hello Graham. Thanks for all your information. Has been much appreciated. We are lucky that we moved all our plant and equipment clothes out of the house. We moved up the hill to my parents in-law up the hill and watched in anticipation to see if our house was going to go under. We woke 4.45 this morning to see that our house was spared by about 400mm. I think you guys have done a great job in managing mother nature. Our thoughts are with those who are less fortunate.

Regards Anthony, Kerry, Chloe, Andrew and Hayden

From: Graham Keegan [REDACTED]
Sent: Wednesday, 12 January 2011 9:15 AM
To: [REDACTED]

Cc: Mike Foster
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Thanks to those people who were able to confirm receipt of the last email – communications appeared unreliable last night.

The Wivenhoe Dam release reached a peak of approx 7500cumecs last night (all gates opened to 12m). After the rise in the lake was brought to a halt (without triggering a fuse-plug), we confirmed that status for a few hours and then commenced reduction of the release rate as inflows diminished. At 0730hrs (07:30AM) this morning the release rate has been reduced to approx 2500cumecs – lake level is now relatively static. We will hold this rate for a short period until the Lockyer Creek peak flow enters the mid-Brisbane River. The Wivenhoe Dam release will be increased to 3500cumecs and drainage of the flood compartment will resume.

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We'll provide updates as information is available.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater



Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]
| E [REDACTED]
[REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 13 January 2011 10:58 AM
To: 'Darren Zanow'
Subject: RE: Releases from Wivenhoe Dam.

Darren,

Sorry, Comms have only just returned. Phone is still very poor! Update will follow shortly!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]
E [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
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<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]
[REDACTED]

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Your Anti-virus Service scanned this email. It is safe from known viruses.
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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Thursday, 13 January 2011 11:00 AM
To: [REDACTED]
Subject: RE: Releases from Wivenhoe Dam.

Steve,

Thanks for the email. I'll pass it onto the team!

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] Mob [REDACTED]
IE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: stevesinclair@westnet.com.au [REDACTED]
Sent: Thursday, 13 January 2011 9:51 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Hi Graham,

Just wanted to thank you for all the updates etc. through this event. The information has been really helpful and much appreciated. Congratulations on what I think was a very successful management operation of the dam and subsequent releases and I have no doubt that it has saved the city of Brisbane from a fate far, far worse than they have suffered. I hope that the team at the dam is recognised fully for the great work done.

Regards,

Steve Sinclair,

TURFBIZ.

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

From: Graham Keegan

To: [REDACTED]



Cc: Mike Foster

Sent: Wed, 12 Jan 2011 07:15:16 +0800 (WST)

Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Thanks to those people who were able to confirm receipt of the last email – communications appeared unreliable last night.

The Wivenhoe Dam release reached a peak of approx 7500cumecs last night (all gates opened to 12m). After the rise in the lake was brought to a halt (without triggering a fuse-plug), we confirmed that status for a few hours and then commenced reduction of the release rate as inflows diminished. At 0730hrs (07:30AM) this morning the release rate has been reduced to approx 2500cumecs – lake level is now relatively static. We will hold this rate for a short period until the Lockyer Creek peak flow enters the mid-Brisbane River. The Wivenhoe Dam release will be increased to 3500cumecs and drainage of the flood compartment will resume.

Somerset Dam has continued to discharge over its spillway (my mistake - releases had not ceased completely as stated in a previous email). The lake has now reached its peak (event) level. We will begin to drain it later today as we increase the Wivenhoe Dam release. Combined flood releases for the 2 Dams is expected to exceed 2million megalitres for this event – a return period (or probability) has not been assigned to the event yet; however BoM will eventually release that data. The concurrent event in the North Pine River catchment has been described tentatively as 1 in 10000 years (an extreme event).

Please note that there may be an initial reduction in river level associated with the lower release rate, but also note that river level may rise again as we increase our release. Maximum flow in the river will be approx 4000cumecs. Our release will continue for another 7 days – flow rate will gradually reduce and river crossings will re-open. No timing is available at present. Please check BoM and traffic websites for flood information and updates on road conditions.

Current river levels are: Lowood 21.35m (falling, unreliable data), Savage's Crossing 23.09m (falling), Burton's Bridge 19.68m (rising) and Mt Crosby Weir 26.0m (static).

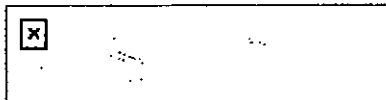
We'll provide updates as information is available.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as*
Seqwater



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

[REDACTED]

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Webster, Stewart

From: Darren Zanow [REDACTED]
Sent: Thursday, 13 January 2011 2:53 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Ok thanks Graham

Sent from my iPhone

On 13/01/2011, at 10:57 AM, "Graham Keegan" [REDACTED] wrote:

Darren,

Sorry, Comms have only just returned. Phone is still very poor! Update will follow shortly!

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] Fax [REDACTED] | Mob [REDACTED]

| E [REDACTED]

[REDACTED]
PO Box 37, FERNVALE, Q., 4306.

Website | www.seqwater.com.au

From: Darren Zanow [REDACTED]
Sent: Wednesday, 12 January 2011 4:17 PM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Hi Graham.... What level are you going to let out until 100 percent is achieved?

Sent from my iPhone

On 12/01/2011, at 5:04 AM, "Graham Keegan" [REDACTED] wrote:

Good morning MBRI members and other residents,

The lake level in Wivenhoe Dam is receding very slowly and clearance to the fuse-plug trigger is increasing. We are reducing the release rate slowly – current rate is approx 4300cumecs; peak was approx 7500cumecs.

Peak river levels and current levels are:

	Peak	Current
Lowood	25.09m @ 2346hrs 11/01	24.37m (falling)
Savage's Crossing	24.13M @ 0132hrs 12/01	23.99m (falling)
Burton's Bridge		18.4m (rising)
Mt Crosby Weir	24.91m @ 0327hrs 12/01	24.84m (rising).

Levels in Lockyer Creek are also dropping – the reduction at Wivenhoe Dam will also permit Lockyer Creek to drain quicker.

We'll keep you updated on our operations.

Regards,

Graham Keegan

Engineering officer

Queensland Bulk Water Supply Authority *trading as Seqwater*

<image001.jpg>

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

[REDACTED]
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Webster, Stewart

From: allen thomson [REDACTED]
Sent: Thursday, 13 January 2011 9:03 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Thank you for all the messages re releases from Wivenhoe Dam, much appreciated. Brian & Elin Thomson

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

From: Graham Keegan
To: [REDACTED]

Cc: Mike Foster
Sent: Wednesday, January 12, 2011 9:15 AM
Subject: Releases from Wivenhoe Dam.

Good morning MBRI members and other residents,

Thanks to those people who were able to confirm receipt of the last email – communications appeared unreliable last night.

The Wivenhoe Dam release reached a peak of approx 7500cumecs last night (all gates opened to 12m). After the rise in the lake was brought to a halt (without triggering a fuse-plug), we confirmed that status for a few hours and then commenced reduction of the release rate as inflows diminished. At 0730hrs (07:30AM) this morning the release rate has been reduced to approx 2500cumecs – lake level is now relatively static. We will hold this rate for a short period until the Lockyer Creek peak flow enters the mid-Brisbane River. The Wivenhoe Dam release will be increased to 3500cumecs and drainage of the flood compartment will resume.

Somerset Dam has continued to discharge over its spillway (my mistake - releases had not ceased completely as stated in a previous email). The lake has now reached its peak (event) level. We will begin to drain it later today as we increase the Wivenhoe Dam release. Combined flood releases for the 2 Dams is expected to exceed 2million megalitres for this event – a return period (or probability) has not been

assigned to the event yet; however BoM will eventually release that data. The concurrent event in the North Pine River catchment has been described tentatively as 1 in 10000 years (an extreme event).

Please note that there may be an initial reduction in river level associated with the lower release rate, but also note that river level may rise again as we increase our release. Maximum flow in the river will be approx 4000cumecs. Our release will continue for another 7 days – flow rate will gradually reduce and river crossings will re-open. No timing is available at present. Please check BoM and traffic websites for flood information and updates on road conditions.

Current river levels are: Lowood 21.35m (falling, unreliable data). Savage's Crossing 23.09m (falling), Burton's Bridge 19.68m (rising) and Mt Crosby Weir 26.0m (static).

We'll provide updates as information is available.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
| E [REDACTED]

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Version: 9.0.872 / Virus Database: 271.1.1/3374 - Release Date: 01/12/11 05:34:00

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Webster, Stewart

From: Andy and Desley Chalmers [REDACTED]
Sent: Tuesday, 18 January 2011 7:01 AM
To: Graham Keegan
Subject: Releases from Wivenhoe and Somerset Dams

Hi Graham

Thank you for all your updates regarding the releases from the dams.

We are members of the MBRI. We have had to change our email address. Would you please update your records to our new email address.

From: [REDACTED]

To: [REDACTED]

Thanks

Andy and Desley Chalmers

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 18 January 2011 7:42 AM
To: 'Andy and Desley Chalmers'
Subject: RE: Releases from Wivenhoe and Somerset Dams

Andy & Desley,

Will do. New update will follow later this morning.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
LE [REDACTED]
[REDACTED]
PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Andy and Desley Chalmers [REDACTED]
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Subject: Releases from Wivenhoe and Somerset Dams

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We are members of the MBRI. We have had to change our email address. Would you please update your records to our new email address.

From: [REDACTED]
To: [REDACTED]

Thanks

Andy and Desley Chalmers

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Webster, Stewart

From: [REDACTED]
Sent: Tuesday, 18 January 2011 8:52 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe and Somerset Dams.

Thanks Graham - your correspondence is invaluable.

Sent via BlackBerry® from Telstra

From: "Graham Keegan" [REDACTED]
Date: Tue, 18 Jan 2011 08:49:06 +1000
To: [REDACTED]

Cc: Mike Foster [REDACTED] Paul Bird [REDACTED] Daniel Garcia [REDACTED]
Subject: Releases from Wivenhoe and Somerset Dams.

Good morning MBRI members and other residents,

Somerset Dam has returned to FSL and minor releases continue via a cone valve to manage base-flow from the catchment.

At 07:00AM Wivenhoe Dam was at EL 67.76m AHD and falling slowly. Gate closures commenced at 2PM yesterday but ceased at midnight due to problems at Lowood WTP. Closures will resume at 9AM today -

current release rate is approx 2000cumecs.

Flood releases are expected to cease on Thursday morning. Minor releases will continue via cone valve and hydro (if available). Fernvale bridge is now out of water but remains closed due to road maintenance and power issues. Other crossings will open progressively as the release rate reduces, but Twin Bridges will remain closed until low level releases cease.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

E [REDACTED]

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Webster, Stewart

From: Al & Jos [REDACTED]
Sent: Tuesday, 18 January 2011 9:15 AM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe and Somerset Dams.

Graham

Words can't express the gratitude we feel for the exemplary manner in which you did your job during the flood crisis. Undoubtedly your efforts have saved lives & property and reduced the impacts on others. You're one of the heroes of this event.

Cheers Jocelyn Bailey (627 Riverside Dr Pine Mtn)

PS We met at the meeting held at Wivenhoe on 10th Dec (Mid Brisbane River Irrigators, Seqwater, SEQcatchments). I was the short haired lady concerned about bank slumping caused by water releases being reduced too quickly.

From: Graham Keegan [REDACTED]
Sent: Tuesday, 18 January 2011 8:49 AM
To: [REDACTED]

Cc: Mike Foster; Paul Bird; Daniel Garcia
Subject: Releases from Wivenhoe and Somerset Dams.

Good morning MBRI members and other residents,

Somerset Dam has returned to FSL and minor releases continue via a cone valve to manage base-flow from the catchment.

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]

LE [REDACTED]

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Tuesday, 18 January 2011 9:35 AM
To: 'Al & Jos'
Subject: RE: Releases from Wivenhoe and Somerset Dams.

Jocelyn,

Thanks. I do remember you from our meeting. Hopefully we'll be able to meet with MBRI again soon – see you then.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] Fax [REDACTED] Mob [REDACTED]

LE [REDACTED]
[REDACTED]

PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

From: Al & Jos [REDACTED]
Sent: Tuesday, 18 January 2011 9:15 AM
To: Graham Keegan
Subject: RE: Releases from Wivenhoe and Somerset Dams.

Graham

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PS We met at the meeting held at Wivenhoe on 10th Dec (Mid Brisbane River Irrigators, Seqwater, SEQcatchments). I was the short haired lady concerned about bank slumping caused by water releases being reduced too quickly.

From: Graham Keegan [REDACTED]
Sent: Tuesday, 18 January 2011 8:49 AM
To: [REDACTED]

[REDACTED]

Cc: Mike Foster; Paul Bird; Daniel Garcia
Subject: Releases from Wivenhoe and Somerset Dams.

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Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority *trading as Seqwater*



Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
LE [REDACTED]

PO Box 37, FERNVALE, Q., 4306.
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Webster, Stewart

From: [REDACTED]
Sent: Wednesday, 19 January 2011 9:55 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Thank you Graham for your updates on Dam releases during the present crisis. You and your colleagues must have been under extreme stress as the rain kept falling and the dams rising. Your emails were a source of comfort in knowing what was about to happen.

Our house at Kholo was inundated, and we've lost pretty much all our possessions but we're safe and we'll be fine. We attribute our safety primarily to you for your updates, often sent in the early hours of the morning.

We understand you had to operate the dams according to the law and you did a marvellous job given the circumstances. However, we fear that this could happen again, since it appears the dams will still be held at 100% FSL. Are you being asked for any input as to how to reduce the Dams capacities in this very wet summer to prevent a reoccurrence of this situation in the next few months?

Again, thanks for your emails. You provided an essential warning service to us and I hope you your services will be recognised officially.

If you need any support from us, please let us know.

Best wishes,

Ray and Jane Miller [REDACTED] Kholo)

- > Good morning MBRI members and other residents,
- >
- >
- >
- > Gate releases from Wivenhoe Dam will cease at noon today. Low level
- > releases will continue via cone valve (and hydro if available) until
- > further notice.
- >
- >
- >
- > All crossings will be free of water from tonight, except College's
- > Crossing (tomorrow) and Twin Bridges (indefinitely). Please note that
- > some damage is already noticeable on or around major bridges and that
- > local authorities will need to inspect all crossings prior to opening
- > them for traffic.
- >
- >
- >
- > Regards,
- >
- >
- >
- > Graham Keegan
- >
- > Engineering officer
- >
- > Queensland Bulk Water Supply Authority trading as Seqwater
- >

> Ph [REDACTED] | Fax [REDACTED] 1 Mob [REDACTED]
> | E [REDACTED]
> [REDACTED] PO Box 37, FERNSVALE,
> Q. 4306.
> Website | www.segwater.com.au <<http://www.segwater.com.au/>>

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Webster, Stewart

From: Graham Keegan [REDACTED]
Sent: Wednesday, 19 January 2011 10:17 AM
To: [REDACTED]
Subject: RE: Releases from Wivenhoe Dam.

Ray and Jane,

Thanks for the support. I'm also very sorry to hear about your losses - I have seen some of the same in Wivenhoe Pocket near my home.

Feedback is always useful. There are 2 ways to provide it - one is through the Seqwater website (Contact Us section) and the other is through submissions to the upcoming Royal Commission. If you have specific concerns about our operations, lack of or poor communications, etc. don't hesitate to provide comment.

Regards,

Graham Keegan
Engineering officer
Queensland Bulk Water Supply Authority trading as Seqwater

Ph [REDACTED] | Fax [REDACTED] | Mob [REDACTED]
E [REDACTED]
[REDACTED] PO Box 37, FERNVALE, Q., 4306.
Website | www.seqwater.com.au

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

From: rmliller@bordernet.com.au [mailto:rmliller@bordernet.com.au]
Sent: Wednesday, 19 January 2011 9:55 AM
To: Graham Keegan
Subject: Re: Releases from Wivenhoe Dam.

Thank you Graham for your updates on Dam releases during the present crisis. You and your colleagues must have been under extreme stress as the rain kept falling and the dams rising. Your emails were a source of comfort in knowing what was about to happen.

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If you need any support from us, please let us know.

Best wishes,

Ray and Jane Miller (138 Skyline Drive, Kholo)

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> further notice.

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> Crossing (tomorrow) and Twin Bridges (indefinitely). Please note that
> some damage is already noticeable on or around major bridges and that
> local authorities will need to inspect all crossings prior to opening
> them for traffic.

> Regards,

> Graham Keegan

> Engineering officer

> Queensland Bulk Water Supply Authority trading as Seqwater

> Ph (07) 54278135 | Fax (07) 54261097 | Mob 0437 836153

> | E gkeegan@seqwater.com.au <<mailto:gkeegan@seqwater.com.au>>

> LWIC 2470 Brisbane Valley Highway, via Fernvale PO Box 37, FERNSVALE,
> Q., 4306.

> Website | www.seqwater.com.au <<http://www.seqwater.com.au/>>

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