

"KJM-4"

Fwd: Wivenhoe Release

From: James Charalambous [REDACTED]
To: "Caswell, Evan" [REDACTED], "Morris, Ken"
Date: Tue, 12 Oct 2010 08:20:49 +1000

FYI.

>>> "Ayre, Rob" [REDACTED] 11/10/2010 9:36:04 pm >>>

James
The strategy will be firmed as estimates of inflow become more reliable. But generally speaking we will increase the release on the back of the Lockyer creek peak. Depending upon final volumes we will endeavour to empty the combined flood storage within seven days of the peak inflow. This will dictate the target release up to a maximum of 1900 cumecs. This release will inundate all low level bridges located d/s of WD.
Regards
Rob Ayre

From: James Charalambous
To: Ayre, Rob
Sent: Mon Oct 11 15:08:11 2010
Subject: Wivenhoe Release
Rob,

I understand from talking to Ken, Wivenhoe wil release 250m3/s possibly up to 1000m3/s depending on rainfall tonight, is there any change to this status.

Regards
JamesC.

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**FW: Water levels in the Brisbane River at Brisbane City
[SEC=UNCLASSIFIED]**

From: Duty Engineer [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Date: Thu, 14 Oct 2010 10:05:52 +1000

Ken

The information below shows the thoughts of Peter Baddiley, however it is not BOM's official position.

Duty Engineer

Flood Operations Centre

[REDACTED]
[REDACTED]
[REDACTED] [REDACTED]

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From: Peter Baddiley [REDACTED]
Sent: Wednesday, 13 October 2010 9:37 PM
To: [REDACTED]
Cc: 'Duty Engineer'; Peter Baddiley
Subject: Water levels in the Brisbane River at Brisbane City [SEC=UNCLASSIFIED]

Barry and all

Further to our discussions this evening regarding water levels at Brisbane City, here is a summary of key facts:

1. The highest level reached at the Brisbane City gauge (at bottom end of Edward Street, and near Thornton St ferry on opposite bank of river) this week was about 1.6m AHD just after midday on Monday 11th. This level is just above the Highest Astronomical Tide (HAT or "king tide") of 1.55m AHD at this location.

(The higher than predicted tide will have been caused by a combination of meteorological factors (high onshore winds causing setup, atmospheric pressure etc) and hydrological factors (local inflows, incl creeks & parts of Bremer R flow).

2. Since Monday, the peak water level at the Brisbane City gauge has been getting slightly less each day.

(The reason for this is the decreasing astronomical tide (dropping by about 0.1 metre each day) and the reducing local flood inflows which is outweighing the minimal increase associated with the arriving Wivenhoe Dam discharge.)

3. Today, Wednesday 13 Oct, the peak level had fallen to about 1.3m AHD which occurred at about 2pm. (i.e. about 0.3m less than Monday)

4. For tomorrow Thursday 14, based on flood modelling, the expected highest level is predicted to be quite similar to, and likely slightly less than, today's highest level.

(Current modelling indicates about 1.2m AHD at about 3pm, although this is sensitive to the timing of reductions of local flows compensating slight increases associated with arriving Wivenhoe Dam discharge.)

5. Current modelling indicates that a level of about 1.0 to 1.2 metres AHD will be reached at the Brisbane City gauge with each afternoon/evening high tide for the next few days as releases from Wivenhoe Dam continue.

For future occurrences, it seems that an improved communications strategy is needed to address the issues of misinformation appearing in the media and the associated suggestions of variances between agencies. It may require a daily media release containing some technical information (in appropriate language). The Bureau's flood warning for the Brisbane River is one vehicle for information regarding Brisbane City. For these "non-flood" events, the warning could include a statement (for example) that "flood levels will remain below minor flood level in Brisbane City" or "water levels will remain below normal highest tide levels".

I feel though that an additional statement from an agency associated with the operation of Wivenhoe Dam is needed to ensure a strong, consistent unambiguous message to the media and public.

regards, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

EMAIL: [REDACTED]
WWW : www.bom.gov.au

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FW: tides [SEC=UNCLASSIFIED]

From: Duty Engineer [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Date: Thu, 14 Oct 2010 10:06:35 +1000

Ken

My apologies, the email below shows that level was 0.5 higher than predicted on Monday, however releases from the dam were not ramped up until Tuesday night and probably did not impact the lower areas of the Brisbane River until early this morning.

Duty Engineer

Flood Operations Centre

[REDACTED]
[REDACTED]
[REDACTED] [REDACTED]

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From: Terry Malone [REDACTED]
Sent: Wednesday, 13 October 2010 6:26 PM

To: Duty Seq
Subject: Fw: tides [SEC=UNCLASSIFIED]

From: Terry Malone [REDACTED]
To: Terry Malone
Sent: Wed Oct 13 17:10:05 2010
Subject: FW: tides [SEC=UNCLASSIFIED]

From: Jeff Perkins [REDACTED]
Sent: Wednesday, 13 October 2010 5:08 PM
To: [REDACTED]
Cc: Peter Baddiley
Subject: tides [SEC=UNCLASSIFIED]

Jeff Perkins
Supervising Hydrologist
Seasonal Streamflow Forecasting, Extended Hydrological Prediction
Climate and Water Division

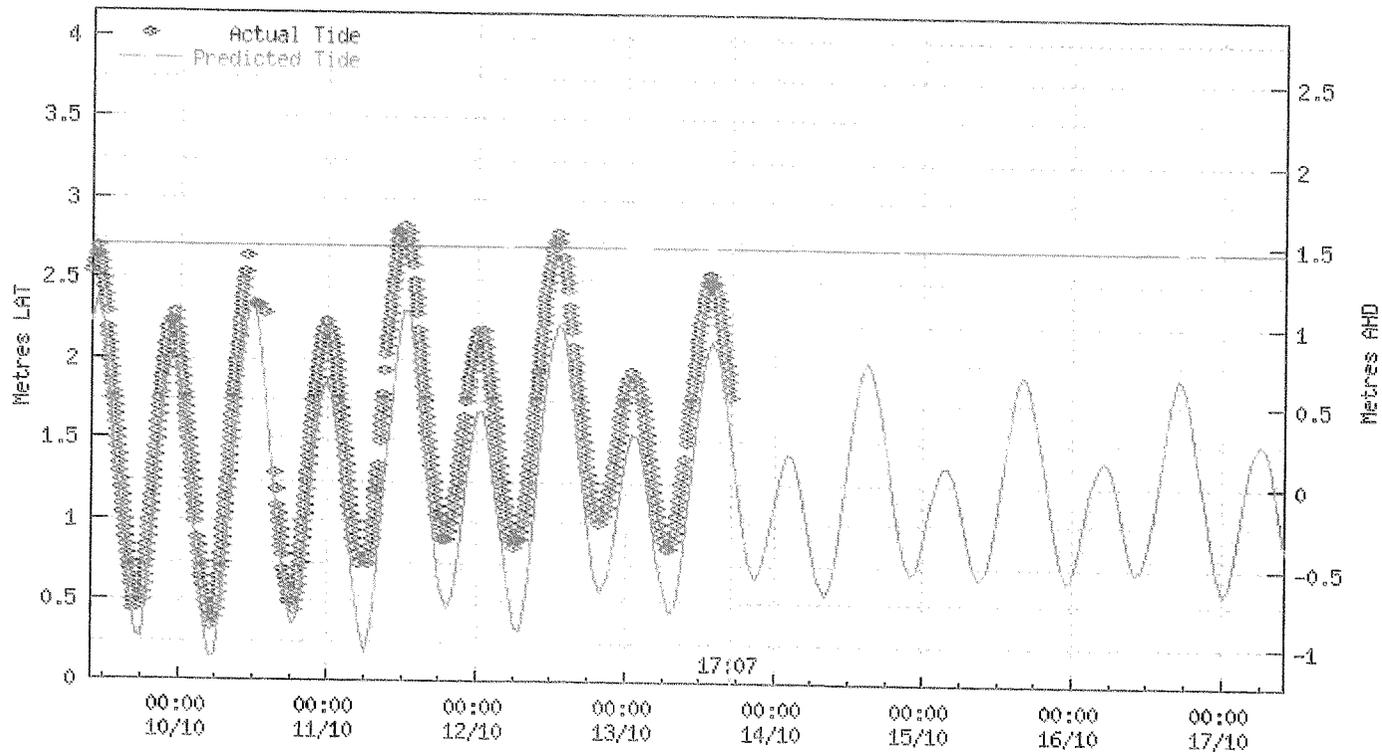
Australian Government Bureau of Meteorology
Level 21, 69 Ann Street QLD 4001
[REDACTED]

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Brisbane City AL



From: James Charalambous
To: Morris, Ken
Date: Thu, Oct 14, 2010 12:31 pm
Subject: SEQ Meeting Today

Ken,

Key points of meeting (disseminate as you see fit), these are short form notes:

With regards to this week events:

- *agreement there is no disconnect between models/technical data
- *Council adopted a precautionary approach with a view to warn residents of potential flooding impacts in low lying tidal areas
- *Greg Scroope is to provide BCC media release to Rob and vice versa

For future events

- * a further meeting to be arranged with BCC/BOM/SEQ Water to discuss comms arrangements
- *Greg Scroope identified that SEQ Water may require a comms strategy and provided a contact name from Energex. He also suggested SEQ Water engage a specialist comms/pr/marketing consultant
- *agreement to advise Greg Scroope initially of a Brisbane River event/release then provide technical data to FIC from that point onwards, ie ongoing updates to be provided to an operational FIC
- *agreement to provide a status report (overview) and technical update (could be discharge hydrographs from Wivenhoe similar to what the BOM receives) to FIC email (ie one point of contact) at least once a day during an event. This can be then disseminated by Ken through Floodwise most likely to FIC controllers ie Evan/James and assistant controllers
- *agreement that we could ring/email the duty officer at the flood operations centre (Sunwater) seeking clarification on release/technical data etc when we want as opposed to going through the one point of contact system ie Greg Scroope.
- *Greg Scroope offered his assistance should we have any issues with procuring data/technical advice from the State
- *Ken Morris is to follow-up with Terry Malone/Peter Baddiley/Rob Drury for next comms meeting.

Regards
JamesC.

CC: Caswell, Evan



Discharge/City Gauge Relationship Data

From: James Charalambous [REDACTED]
To: [REDACTED]
Cc: "Morris, Ken" [REDACTED] "Scroope, Greg"
Date: Fri, 15 Oct 2010 08:05:15 +1000

Hi John,

As discussed at our meeting yesterday, just wondering if you had a chance to send through that information with regards to the lower discharges from Wivenhoe (ie less than 4000m³/s) and the relationship to additional height we can expect at the city gauge.

With this week's event we are developing a relationship but obviously anything you can provide would greatly assist.

Regards
JamesC.

Friday Morning 22/10 - Technical Capability Meeting

From: James Charalambous [REDACTED]

To: "Baddiley, Peter" [REDACTED]

Cc: "Carroll, Don" [REDACTED] "Caswell, Evan"

[REDACTED], "Morris, Ken" [REDACTED]

Date: Mon, 18 Oct 2010 16:00:57 +1000

Hi

As discussed this Friday 22/10 from 9am to 12:30pm would like to conduct a technical meeting between SEQWater/BOM/BCC:

Agenda as follows:

1. SEQ Water, BOM and BCC to each discuss for 30mins technical capabilities and how they operate/function in a flood event
2. Open discussion on communication between agencies, processing of information and data
3. Suggestions or improvements to current systems/processes

Morning tea and lunch will be provided.

Regards
JamesC.

Friday Morning 22/10 - Technical Capability Meeting

From: James Charalambous [REDACTED]
To: "Baddiley, Peter" [REDACTED]
Cc: "Carroll, Don" [REDACTED], "Caswell, Evan"
[REDACTED], "Morris, Ken" [REDACTED]
Date: Tue, 19 Oct 2010 09:51:41 +1000

Hi

Just a follow-up from my phone call and email yesterday.

As discussed this Friday 22/10 from 9am - 12:30pm would like to conduct a technical meeting between SEQWater/BOM/BCC:

Agenda as follows:

1. SEQ Water, BOM and BCC to each discuss for 30mins technical capabilities and how they operate/function in a flood event
2. Open discussion on communication between agencies, processing of information and data
3. Suggestions or improvements to current systems/processes

Morning tea and lunch will be provided.

The meeting room has a computer/projector so if you would like to present a brief power point presentation this is possible.

Please aim to arrive at 8:45am for arrival morning tea/coffee so we can start the meeting at 9am sharp.

Thank-you.

Regards
JamesC.

Friday Morning 22/10 - Technical Capability Meeting

From: James Charalambous [REDACTED]

To: "Baddiley, Peter" [REDACTED]

Cc: "Carroll, Don" [REDACTED], "Caswell, Evan"

[REDACTED], "Morris, Ken" [REDACTED]

"Scroope, Greg" [REDACTED]

Date: Wed, 20 Oct 2010 15:36:15 +1000

Hi

Just a follow-up from my phone call and email Monday.

As discussed this Friday 22/10 from 9am - 12:30pm would like to conduct a technical meeting between SEQWater/BOM/BCC:

Proposed detailed meeting agenda as follows:

Session 1

9:00am Welcome and overview by Don Carroll

9:00 to 9:30am: Technical capability presentation by SEQ Water

9:30 to 10:00am: Technical capability presentation by BOM

10:00 to 10:30am: Technical capability presentation by BCC (James/Ken)

10:30am to 10:45am: Morning Tea

Session 2

10:45am to 11:00am: Outline of agenda items from each agency

11:00am to 12:00pm: Focused discussions on communications/improvements to existing systems/protocols for 'key agenda items'

With regards to Session 2, as we have limited time, we are requesting each agency give some thought beforehand to possible agenda items.

Based on the items tabled at the start of session 2, 'key items' will be identified for the focused discussion over the next hour.

12:00am to 12:30pm: Lunch

Morning tea and lunch will be provided. The meeting room has a computer/projector.

Please aim to arrive at 8:45am for arrival morning tea/coffee so we can start the meeting at 9am sharp.

Thank-you.

Regards
JamesC.

Fwd: Protocol for release of flood waters from Wivenhoe and Somerset dams

From: Tammy Anderson [REDACTED]
To: Dean Morse [REDACTED], Evan Caswell [REDACTED], Greg Swain [REDACTED], Ken Morris [REDACTED]
Date: Fri, 22 Oct 2010 11:15:50 +1000

Hello

The email below and attachment were received by Vicki Pethybridge yesterday. The turnaround for our feedback to the state is one day - they would like our feedback today. I circulated this information to relevant managers within FaCS division yesterday and today Rob Broughton, Manager Business Services has brought to my attention that feedback from your area would also be valuable.

Greg - please see the comments re the media on Page 4 of the attached document.

I look forward to receiving an email back from you with your feedback.

I am sorry for this short turnaround.

Thank you
Tammy.

Tammy Anderson
Executive Officer to Divisional Manager
Families and Community Services Divisional Manager's Office
Level 11, Brisbane Square

PH: [REDACTED]

>>> Vicki Pethybridge 21/10/2010 14:01 >>>
>>> "Bruce Grady" [REDACTED] 21/10/2010 11:47 >>>

To: Vicki Pethybridge - Brisbane City Council, Tony Trace - Ipswich City Council, Tony Jacobs - Somerset Regional Council

You will know of the recent debate over a protocol on information for the release of water from Wivenhoe and Somerset dams.

Attached is draft protocol that covers both technical and public communication aspects.

In view of the interest in the subject I would appreciate an indication of council's response on Friday 22 October.

Officers from the Department of Community Safety, Environment and Resource Management and Seqwater will be available to respond to points of clarification from 8 am. Friday 22 October. Should you wish to meet to discuss the protocol, the conference room on level 3, 41 George Street has been made available at 0800.

I would be grateful if you would copy Bob Reilly and Mike Shapland into any reply.

Regards

Bruce Grady
A/Chief Officer
Emergency Management Queensland

[REDACTED]

[REDACTED]

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Protocol for the Communication of Flooding Information during Floodwater Releases - Wivenhoe and Somerset Dams

OBJECTIVE

The purpose of this protocol is to outline the processes to be followed by the Brisbane, Ipswich and Somerset Councils, relevant Queensland Government agencies and the Bureau of Meteorology, which will ensure the provision of consistent and robust information to the community, concerning potential flooding impact during release of floodwater from Wivenhoe and Somerset Dams.

The intent is to ensure that consistent, harmonised information, based on an agreed single point of truth, is communicated to the public in a way that contributes to disaster resilient communities.

BACKGROUND

Wivenhoe Dam controls approximately half of the Brisbane River catchment above Brisbane City. Other factors such as storm surges, tides, creek flooding, flooding from Brisbane River below Wivenhoe Dam, including Lockyer Creek and the Bremer River, will influence inundation levels in Brisbane.

The operational strategy for water release from Wivenhoe and Somerset Dams is governed by the *Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam*, henceforth referred to as the Flood Mitigation Manual.

The Flood Mitigation Manual is approved and gazetted by the Department of Environment and Resource Management (DERM), in accordance with the provisions of the *Water Supply (Safety and Reliability) Act 2008*.

The Flood Mitigation Manual was developed to ensure that operational decisions at Wivenhoe and Somerset Dams are based on sound engineering principles, which ensure the structural safety of the dam, while minimising downstream impacts.

In the event of a major impact on communities, Queensland disaster management arrangements, based on disaster management groups at local, district and state level, ensure the collaborative and effective coordination of information for all hazards.

Local, district and state disaster management and hazard-specific plans outline arrangements and structures for disaster management, or the hazard, and amongst other things, identify the need for coordination of public communications.

This protocol adds to such plans by outlining specific arrangements necessary when advice to the community needs to be based on technical assessments from hazard-specific primary agencies and other complementary stakeholders across federal, state and local governments.

GENERAL DECISION MAKING - GUIDING PRINCIPLES

- Protection of public safety is paramount throughout both the Flood Mitigation Manual and this Protocol;
- The Flood Mitigation Manual is used to determine how Wivenhoe and Somerset Dams will be operated during flood events;
- Impact on the community upstream or downstream is a legitimate consideration of any risk assessment;
- Agreed regular and consistent communications within government and to the public, in relation to the impacts of floodwater releases from Wivenhoe Dam, are essential;
- Decision-making chains regarding the communications strategy and disaster management should remain flexible;

PROCESS OF COMMUNICATION

There are three stages in the process of communication:

- Monitoring and Assessment
- Briefing and Activation
- Public Communications

Monitoring and Assessment

The floodwater release strategy is a balance between releasing the water quickly enough so that the flood storage capacity is available if another major rain event occurs, versus minimising downstream flooding impacts (human safety and property damage) from the releases.

A fundamental principle is that all floodwater should be released from the dams within seven days of the flood event peaking in Wivenhoe or Somerset Dam. This ensures the dams can cope with closely spaced major rain events.

Communications with the public on floodwater releases are based on a continuous process of technical assessment. The process is dynamic and evolves according to the event, but will normally contain the following steps:

- Routine monitoring of weather events and dam levels by relevant agencies via established systems and procedures;
- The Bureau of Meteorology (BoM) provides weather forecasts and warnings (e.g. Tropical Cyclone, Severe Weather, Severe Thunderstorm, Flood). In the event of heavy rain and runoff in the Wivenhoe and/or Somerset Dam catchments, BoM and the Queensland Bulk Water Supply Authority (Seqwater) discuss modelled inflows to Wivenhoe and/or Somerset Dam, and downstream flood levels.
- Seqwater discusses and models implications of the inflows on the necessary floodwater release from Wivenhoe Dam and/or Somerset Dam.
- Seqwater calculates the releases according to dam levels and predicted weather events in accordance with the Flood Mitigation Manual. Seqwater shares predicted floodwater releases with BoM and with the Councils.
- BoM undertakes modelling of the Brisbane River catchment and its river systems using Seqwater advice of actual and projected Wivenhoe Dam and/or

Somerset Dam releases when these are, or are expected, to occur.

- BoM participates in technical discussions with Seqwater, Brisbane City Council, Ipswich City Council and Somerset Regional Council as necessary, to share modelling results. The discussions aim to establish an agreement on what to tell the public about predicted flood levels and timings.
- Councils identify flood inundation areas and assess impacts for their communities and regularly share this information with all relevant parties.
- Following a decision to release floodwater, or a significant change in the severity and scope of the event, Seqwater coordinates the completion of the *Flood Release Operations and Impact Report* (FROIR - Appendix C) and provides the Report to the SEQ Water Grid Manager according to their Emergency Response Plan, in order to inform the public communications process.

If, during this continuous process, it becomes apparent to either BoM, local governments or Seqwater that the situation is likely to result in significant public safety issues, the SEQ Water Grid Manager, based on the Report, will commence the public communications process and engage with the disaster management arrangements as appropriate.

Briefing and Activation

Consideration will be given to the activation of the Disaster Management arrangements, if not already activated.

1. SEQ Water Grid Manager will alert the Director-General (DG) of the Department of Community Safety (DCS), DG DERM, and the local governments;
2. DG DCS will inform the DG of the Department of Premier and Cabinet (DPC) - the Chair of the State Disaster Management Group (SDMG), and will activate the State Disaster Coordination Centre (SDCC). DG DCS will also inform the Minister for Police, Corrective Services and Emergency Services;
3. Councils will consider activating their Local Disaster Management Groups (LDMGs);
4. The SDCC and LDMGs will inform the relevant District Disaster Coordinators (DDCs);
5. The Queensland Police Service (QPS) will consider initiating disaster management actions as provided for under the *Disaster Management Act 2003*;
6. DG DERM will inform the Minister for Natural Resources, Mines and Energy;
7. DG DPC will inform the Premier;
8. In the case of an extreme event, the Crisis Communications Network, chaired by the Department of Premier and Cabinet (DPC), may be activated at the direction of the SDMG Chair to coordinate public messaging agreed by BoM, Seqwater, SEQ Water Grid Manager, QPS, relevant Councils and DCS as per this protocol;
9. In the case of a non-disaster, public communications will be in accordance

with this protocol.

Public Communications Issues

SEQ Water Grid Communications Unit will coordinate the input and liaise with the following or their representatives over public safety messages:

- BoM;
- Seqwater;
- Councils' Media Directors.
- QPS Media Director; and
- DCS Media Director.

The BoM, Seqwater and Local Governments are to maintain continual discussions, to ensure that conflicting information is not released to the public at any time. Where differences arise, officers of the agencies concerned will liaise and consult to ensure that the information released to the public by all agencies is consistent. Agencies must exchange public releases.

Harmonised public communications messages will be released from the following agencies:

- **Bureau of Meteorology** - concentrating on Flood Warnings which are widely disseminated to the BoM website, agencies and the media. BoM also participates in media (radio, television, newspaper) interviews to provide factual information regarding observed and forecast weather conditions, rainfalls and water levels;
- **SEQ Water Grid Manager** - concentrating on the technical aspects of release timings and duration of effects as lead technical agency on floodwater release. Seqwater operational staff are to ensure that technical information is communicated to the SEQ Water Grid Emergency Response Team (if activated) and the SEQ Water Grid Communications Unit;
- **Local Governments /Local Disaster Management Groups** - concentrating on the effects of release and safety for their local communities and residents.

If necessary these will be augmented by:

- **Queensland Police Service** - concentrating on specific community safety messaging during operations;
- **Department of Community Safety** - concentrating on general safety matters regarding flooding;
- **Department of Premier and Cabinet (extreme events only)** - concentrating on consistent messages to media and agencies concerned.

Event-specific information will be released to the public as frequently as required by the severity and scope of the event. Timings of media releases will be dependent on the event and may range from once a day to once an hour.

Questions from the Public

All questions from the public should be directed to the relevant local government in the first instance. Any questions relating to the release of water should be directed to the SEQ Water Grid Manager Communications Unit. Any queries about disaster

management should be addressed by the relevant local and district disaster management groups.

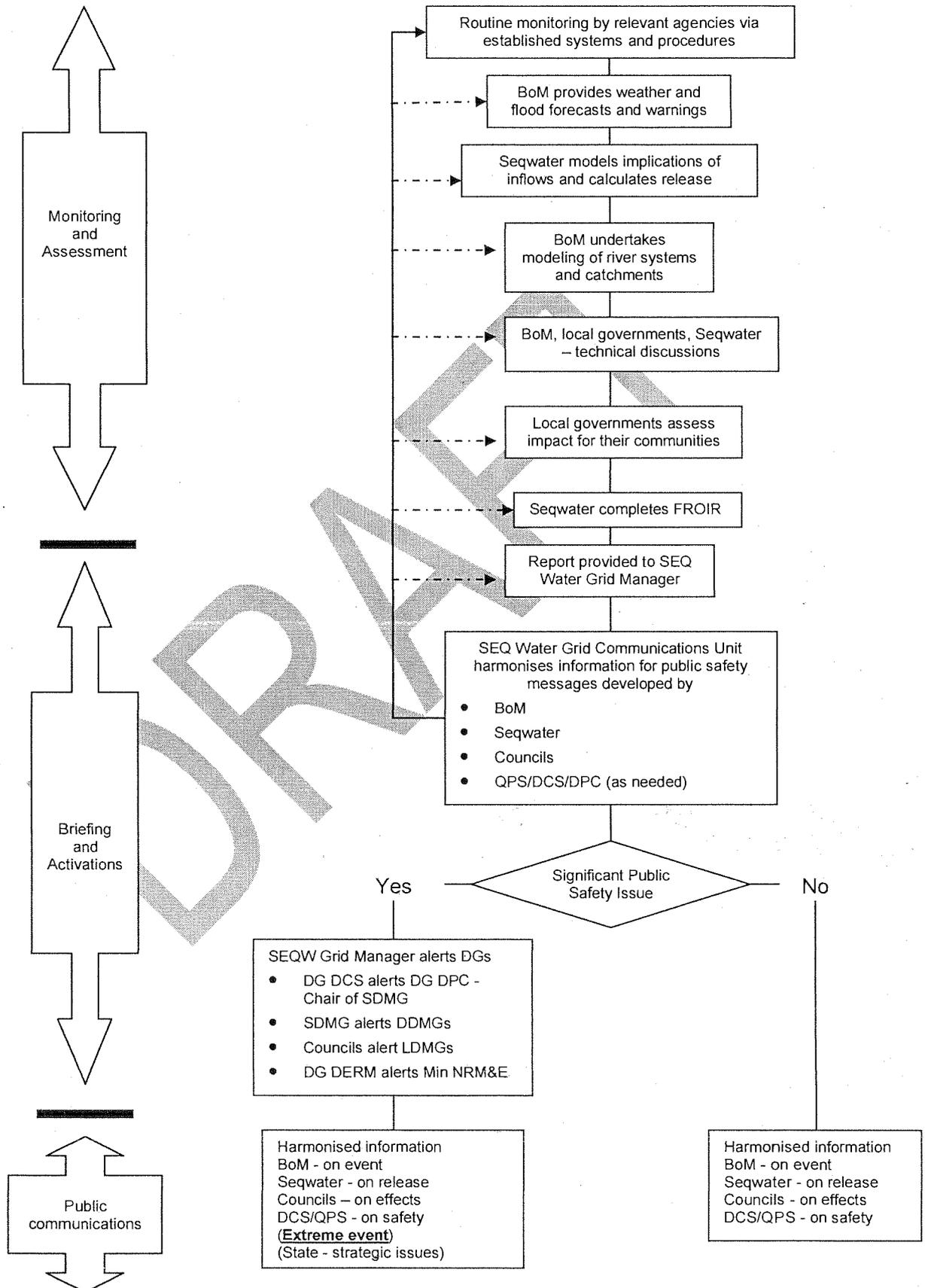
Protocol Maintenance

This protocol will be reviewed annually by agencies involved and exercised, during the years when operational floodwater release does not occur, under DDMG arrangements.

The protocol should provide for a review after each event of what worked and could be improved for management of future events, to be led by DCS.

DRAFT

Communications process for the release of floodwater from Wivenhoe and Somerset Dams



ROLES AND RESPONSIBILITIES

- The Bureau of Meteorology (BoM) is the agency responsible for issuing flood warnings for the Brisbane River and its major tributaries. These, when required, include rainfall forecasts for the Brisbane catchment and predicted river heights for Brisbane City, Ipswich, Jindalee and Moggill according to established procedures.

River height predictions are agreed in consultation with South East Queensland Water (Seqwater), Brisbane City Council (BCC), Ipswich City Council (ICC) and Somerset Regional Council (SRC), as required.

- Queensland Bulk Water Supply Authority (Seqwater) operates Wivenhoe and Somerset Dams in accordance with the Flood Mitigation Manual. It provides dam outflow information to BoM, to allow the development of Flood Warnings and to local authorities, to assist them in quantifying likely impacts within their areas.

It informs BoM and other agencies on the status of dams, and actual and projected releases from Wivenhoe Dam.

It consults BoM regarding inflows to Wivenhoe Dam and expected flood heights along the Brisbane River downstream of Wivenhoe Dam.

Seqwater initiates proposed changes to the Flood Mitigation Manual, undertaking consultation with Councils and other stakeholders.

Seqwater coordinates the production of the FROIRs.

- Brisbane City Council (BCC), Ipswich City Council (ICC) and Somerset Regional Council (SRC) distribute consistent, detailed local flood level information, both to their respective operational units, their senior management and their broader communities. This should include the interpretation of BoM flood warnings and river height forecasts into expected areas and depths of inundation. Councils are responsible for activating their respective Local Disaster Management Groups (LDMGs), which then undertake the disaster management responsibility for response in the community.
- DERM consults with the stakeholders prior to the approval of any updates to the Flood Mitigation Manual. DERM also approves any necessary variations to the strategies in the manual if required during the course of a flood event.
- Queensland Police Service (QPS) assumes a legislative role, as per the Disaster Management system, to provide disaster management at a district level during an event, including provision of necessary community advice for public safety.
- Emergency Management Queensland (EMQ) provides support and general community safety advice on flooding issues, during non-operational times.
- SEQ Water Grid Communications Unit coordinates the general harmonisation, but not specific detail of public messaging with BoM, SEQ Water Grid, BCC and DCS, as required. It does this by ensuring that each agency understands the extent of the release and that there is a general consensus as to the level of potential impacts.

FLOOD RELEASE OPERATIONS AND IMPACT REPORT

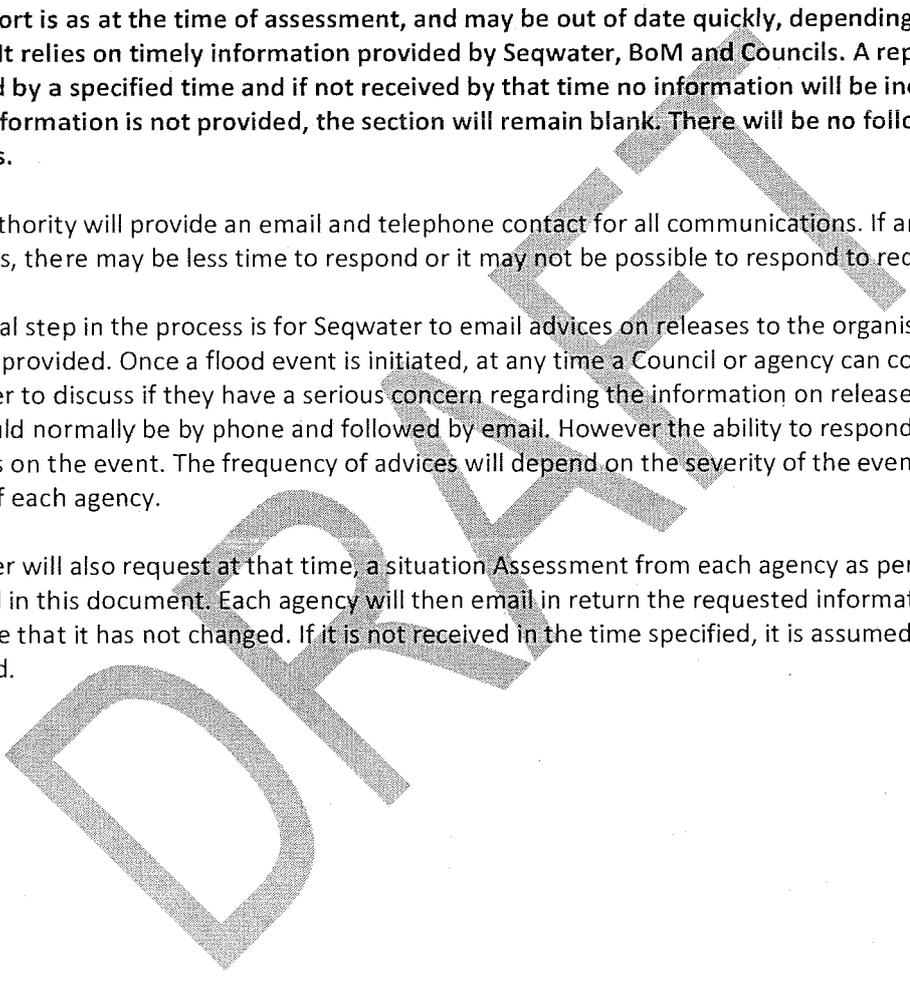
OPREP Number	Date of OPREP release	Time of OPREP release	
Next OPREP due	Date	Time	or Event

This report is as at the time of assessment, and may be out of date quickly, depending on current events. It relies on timely information provided by Seqwater, BoM and Councils. A reply will be required by a specified time and if not received by that time no information will be included. If any information is not provided, the section will remain blank. There will be no follow up requests.

Each Authority will provide an email and telephone contact for all communications. If an event escalates, there may be less time to respond or it may not be possible to respond to requests.

The initial step in the process is for Seqwater to email advices on releases to the organisations email address provided. Once a flood event is initiated, at any time a Council or agency can contact Seqwater to discuss if they have a serious concern regarding the information on releases provided, this would normally be by phone and followed by email. However the ability to respond to any queries depends on the event. The frequency of advices will depend on the severity of the event and the needs of each agency.

Seqwater will also request at that time, a situation Assessment from each agency as per details outlined in this document. Each agency will then email in return the requested information if possible or advice that it has not changed. If it is not received in the time specified, it is assumed it is not being provided.



Seqwater status of inflows and dam operations

(to include information on the current and/or predicted levels of Somerset and Wivenhoe Dams and the probable or planned release strategy with assessment as governed under the Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam)

This is Seqwaters status report on the dam levels, probable inflows and planned releases.

.....

This has been supplied to

BCC on

ICC on

SRC on

Issues raised by Councils were

Actions taken were

Seqwater Technical Officer name

Seqwater Technical Officer position title

Seqwater Technical Officer contact details

BoM assessment

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

BoM is to provide either a copy of, or links to, their current information and other updates or comments if needed. This will be their current set of warnings and may be updated or changed at any time.

BoM Technical Officer name

BoM Technical Officer position title

BoM Technical Officer contact details

Brisbane City Council (BCC) assessment

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

This is an assessment as above provided by BCC. A request for this information will be sent to the email address provided by BCC.

BCC Technical Officer name	
BCC Technical Officer position title	
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

Somerset Regional Council (SRC) assessment (if required)

(both ICC and SRC requirements are the same as for BCC)

Collated and distributed by Seqwater

Seqwater Contact Officer signature	
Seqwater Contact Officer name	
Seqwater Contact Officer position title	
Seqwater contact details	

Friday Morning 29/10 - Technical Capability Meeting

From: James Charalambous [REDACTED]
To: "Baddiley, Peter" [REDACTED], "Carroll, Don" [REDACTED],
"Caswell, Evan" [REDACTED], "Charalambous, James"
[REDACTED],
"Morris, Ken" [REDACTED]
Cc: "Lavin, Chris" [REDACTED], "Scroope, Greg"
[REDACTED]
Date: Fri, 22 Oct 2010 15:01:00 +1000

As per our discussions today:

SEQWater/BOM/BCC have agreed to reconvene next Friday 29/10/2010

Time: 8:45 am to 12:30pm.

Location: Green Square Level 2 (GSQ-L2A-4-10p)

Agenda as follows:

1. Open discussion on communication between agencies, processing of information and data
2. Suggestions or improvements to current systems/processes

Morning tea (10am) and lunch (12-12:30pm) will be provided.

The meeting will follow on from today's discussion (meeting notes attached).

[No Subject]

Brisbane River Storm Event

1. Rain in Brisbane
2. SEQ water contacts LDCC
3. Decision on action

Brisbane River Flood Event

1. May or may not mobilise FOC
2. If FOC mobilised 24x7 ops
3. FOC contacts (telephones) duty officer at BCC Disaster Management and the BOM, starts providing releases estimates to the BOM
4. BCC DM duty officer contacts FIC, FIC stands up, LDCC advises SEQ Water to direct future comms to FIC
5. FIC contacts BOM, advises that FIC will stand up, then seeks to access flood height estimates from the BOM's modelling
6. What are the triggers for SEQ Water to provide release advice directly to FIC?
7. The possibility of a telephone conference between all three agencies at a significant level of flooding? Again what is the trigger for such a conversation (i.e. 3500m³/s or less??) Triggers for media release may be different for each agency.
8. What is the minor flood level for Brisbane?

From: Ken Morris
To: Anderson, Tammy; Caswell, Evan; Morse, Dean; Pethybridge, Vicki; Swain, Greg
Date: 22/10/2010 15:06:27
Subject: Re: Fwd: Protocol for release of flood waters from Wivenhoe and Somerset dams

Vicki

Evan and I have reviewed the document. Some discussion on trigger levels o start he cross communications needs to take place and be included in the document. What is regarded by one agency as a below minor, "no consequence" event may not be so considered by Councils. As an example the BCC Ferries are impacted by quite minor events.

Sharing of information across all agencies is welcomed. In the main the document confirms a discusion we had with the technical officers of BOM and SEQWB this morning.

cheers
ken

>>> Tammy Anderson 22/10/2010 11:15 >>>
Hello

The email below and attachment were received by Vicki Pethybridge yesterday. The turnaround for our feedback to the state is one day - they would like our feedback today. I circulated this information to relevant managers within FaCS division yesterday and today Rob Broughton, Manager Business Services has brought to my attention that feedback from your area would also be valuable.

Greg - please see the comments re the media on Page 4 of the attached document.

I look forward to receiving an email back from you with your feedback.

I am sorry for this short turnaround.

Thank you
Tammy.

Tammy Anderson
Executive Officer to Divisional Manager
Families and Community Services Divisional Manager's Office
Level 11, Brisbane Square

PH: [REDACTED]

>>> Vicki Pethybridge 21/10/2010 14:01 >>>

>>> "Bruce Grady" [REDACTED] 21/10/2010 11:47 >>>

To: Vicki Pethybridge - Brisbane City Council, Tony Trace - Ipswich City Council, Tony Jacobs - Somerset Regional Council You will know of the recent debate over a protocol on information for the release of water from Wivenhoe and Somerset dams. Attached is draft protocol that covers both technical and public communication aspects. In view of the interest in the subject I would appreciate an indication of council's response on Friday 22 October. Officers from the Department of Community Safety, Environment and Resource Management and Seqwater will be available to respond to points of clarification from 8 am. Friday 22 October. Should you wish to meet to discuss the protocol, the conference room on level 3, 41 George Street has be made available at 0800. I would be grateful if you would copy Bob Reilly and Mike Shapland into any reply.

BCC.039.0006

SEQ Water - Gold Folder Request

From: James Charalambous [REDACTED]
To: [REDACTED]
Cc: "Carroll, Don" [REDACTED] >, "Caswell, Evan"
[REDACTED], "Grant, Madeleine"
[REDACTED] "Morris, Ken" [REDACTED]

Date: Fri, 22 Oct 2010 15:09:08 +1000

Hi John/Terry,

It appears we have the emergency action plans for Wivenhoe, Somerset and a number of other dams in SEQ (ie the red folders)

Unfortunately we do not have any gold folders (manual of operations procedures). Can we please request another complete copy of the gold folders.

Also for future reference any new updates for the 'red' and 'gold' folders be directed to Madeleine Grant (our knowledge centre information officer) email attached.

Thank-you.

Kind Regards
JamesC.

RE: SEQ Water - Gold Folder Request

From: Terry Malone [REDACTED]
To: James Charalambous [REDACTED], John Tibaldi
Cc: "Carroll, Don" [REDACTED], "Caswell, Evan"
[REDACTED], "Grant, Madeleine"
[REDACTED] >, "Morris, Ken" [REDACTED]
Rob Drury [REDACTED]
Date: Fri, 22 Oct 2010 15:15:47 +1000

James

Peter Hillcoat signed for the 2009 EAPs (18/09/09) and Cathy Wilson signed for the 2009 Wivenhoe and Somerset Dam Operational Procedures for Flood Mitigation (21/01/10).

Terry

From: James Charalambous [REDACTED]
Sent: Friday, 22 October 2010 3:09 PM
To: John Tibaldi; Terry Malone
Cc: Carroll, Don; Caswell, Evan; Grant, Madeleine; Morris, Ken; Rob Drury
Subject: SEQ Water - Gold Folder Request

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Kind Regards
JamesC.

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strictly prohibited. The confidentiality attached to this email is not waived, lost or destroyed by
reasons of mistaken delivery to you. If you have received this email in error please contact the
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Authority ABN75450239876 (Trading as Seqwater).

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Job Meeting with BOM & SEQW.

Job No.

Page 1

By 22/10/10

Section

Date / /

BOM

Limited flash flooding warning.

Can look at historical events for River during an event and look at what happened to assist with predictions.

Need further meeting re their tools and what they can do.

SEQW

Peak discharge in mid reach is generally constant. Similar with lower reach.

FOC - Flood operation centre

Key issue - one set of ratings.

What should be the triggers for contact with BCC?

Discussion

- Flood forecasting
- Messages
- Terminology.

Need to lock in the one voice approach.

Need to clarify the difference between the forecast best estimate and worst case scenario.

↳ public

↳ disaster management.

What do we say & what ^{info} do we exchange.

SEQW - anytime they think need to open gates FOC in operation.

- contact DM in BCC.

Rain event → BCC contact SEQW + BOM.

Need to send advice to SEQW FOC that FIC up.

For SEQW first point of contact is DM then

may change to FIC if escalates.

SEQW provide release strategy to BCC.

What is trigger for advising Dam releases? to BOM & BCC

Event Stage	Action	By who	Trigger
-------------	--------	--------	---------

Bom Reg User site

Restricted - need to talk to them about the info they may get, be the info in the prediction.

3 way conference - what is trigger.
3500 m³/s?

29th October.

Future discussion - other dams.

1. Consider current plan in ^{Dam} Emergency Action Plan.

FOC mobilized if chance of release.
By phone advice to Duty Officer if gates are going to be opened.

BCC added to list for all triggers
SEQ Provide any info or advice on significance of closure. photos - check Flood Manual.
BCC need to talk to ICL & SRC.

Need to ~~can~~ check with DM re who receives info.

Check contact info in EOM and advise required changes.

Above 2000 m³/s no phone call. Info from Bom primarily and Start Repts from SEQW.

On Bom Reg User can see source of flows

Time delay between SEQW advice & Bom Reg User will vary depending on circumstances.

2. James J. King, Terry to meet & discuss rating info.

BOM Comms

Will advise ^{email} of new results on Reg User site.
Will discuss prior to warning heights sent out.
Copy flood related, advices to public to

⇒ Talk to DM.

Trigger a message need to talk to DM & their
relevant people for 1.5m & 1.7m.
No warnings before 2am.

Classifications are not agreed by BOM
Council has input.

* Need to talk to DM for creeks.

A lot of uncertainty in low flood levels.

* Check with Ken re interpretation of time in bands
for levels on rising limb. Not all at the
same time.

BOM advices could include referral to BCC contact
centre for further info.

Reg User site gives info for next week but
with decreasing reliability.

Manual gauges in Edward St have been
removed. Put back?

Staff gauges incomplete.

BOM have both Bris. City Gauge + Port Office Gauge
levels on website.

Actions

Next meeting 9th Nov @ BOM.

What is BCC Protocol??

③

BCC/Gen/SBAWB

Move to FCS and half credits.

Need consider with rating

Impact of rating on FSL

Good trigger

Warning Times. Trigger

B.O.M. Future Heavy Rainfall.

S.G.A.W.B. F.O.C. methods.

General Contact with B.C.C.

BOM/BCC/SEQWB Meeting 22/10/10

BOM ISSUES FORCAST - Moyill, Tindaloe Bay Area

LOCAL RIVER Waterford
Droghda & Ipremer

BOM/SEQWB - predicted profile & Actual & predicted
release of W'low.

Technical capabilities
Profile analysis & tide analysis
Published to website & automated
dissemination of new height.

Over 100 alert stations added to QLI bel 1-7.

SEQWB.

Manure - Show yellow cover (Abjections)
& ACC is now red. (Emergency situation)

Prime system - structural safety.

Options protected to urban areas.

Minimize disruption to road traffic.

Minimize environmental impact of lake
slumping, mowing fish.

Tripes - 4000 m³/sec minor flooding.

St2WB - 11/4/10

FEWS - Delft
Flood Early Warning System

Data from multiple sources

INSTANT

GROUND

Fine Structure → WISKI

GROUND

BOM

DOCOM

Use 15 min data for last 4 days

There are 30 telemeters

Use BOM forecast rainfall data - Grindsted

100% forecast Rain 17/11

Talk to Pete B & e
Wisk
Hydroys. as a replacement to
\$500/1k

Chris Lavin - RE: Friday Morning 29/10 - Technical Capability Meeting

From: "Terry Malone" [REDACTED]
To: [REDACTED]
Date: 25/10/2010 8:57:04 am
Subject: RE: Friday Morning 29/10 - Technical Capability Meeting
CC: [REDACTED]

Gents

Seqwater would to submit this as a proposal for discussion at this Friday's meeting:

Relationships with external agencies during flood events when water is released from Wivenhoe Dam.

1. Seqwater will contact Bureau of Meteorology (BOM), Somerset Regional Council (SRC), Ipswich City Council (ICC) and Brisbane City Council (BCC), Disaster Management Duty Officer, by phone when the Flood Operations Centre (FOC) is mobilised. It is understood that BCC Disaster Management Duty Officer will advise BCC Flood Information Centre (FIC) Duty Officer to establish an officer-to-officer technical relationship with the FOC.
2. Seqwater will not contact ICC or BCC Councils unless releases are expected from Wivenhoe.
3. Seqwater may contact SRC if the expected flood impact is limited to areas upstream of Wivenhoe.
4. Seqwater will advise Councils when it is expected that a combination of local runoff and releases from Wivenhoe will result in the following flows being reached or exceeded:

Trigger	Impact	Deck Level	Agency to Advise	Comment
Mid Brisbane >50 m3/s	Twin Bridges	20.0	SRC	Seqwater will advise of likely impact
Mid Brisbane >130 m3/s	Savages Crossing		SRC	Seqwater will advise of likely impact
Mid Brisbane >175 m3/s	Colleges Crossing		ICC	Seqwater will advise of likely impact
Mid Brisbane >430 m3/s	Burtons Bridge	19.6	SRC	Seqwater will advise of likely impact
Mid Brisbane >550 m3/s	Kholo Bridge	11.9	ICC	Seqwater will advise of likely impact
Mid Brisbane >1,000 m3/s	Minor Flood Level Savages Crossing		BOM	Seqwater and BOM to discuss flows Seqwater will provide

				actual and projected Wivenhoe releases to BOM
Mid Brisbane >1,900 m ³ /s	Mt Crosby Weir Bridge	12.4	ICC	Seqwater will advise of likely impact
Mid Brisbane >2,000 m ³ /s	Fernvale bridge	33.8	SRC	Seqwater will advise of likely impact
Lower Brisbane >3,500 m ³ /s	Threshold of urban damage in BCC		BOM, BCC FIC	Seqwater, BOM and BCC FIC to discuss flows

5. At the first instance of the expectation of the trigger, contact by Seqwater will be by phone, thereafter advice will be via email.
6. Seqwater will provide daily email advice of the status to SRC, ICC, BOM and BCC when Mid Brisbane flows are expected to reach or exceed 130 m³/s.
7. Seqwater will provide twice daily email advice of the status to SRC, ICC, BOM and BCC when Mid Brisbane flows are expected to reach or exceed 550 m³/s.
8. Nominated Councils officers are invited to contact the Flood Operations Centre for technical discussions at any time after mobilisation.
9. Seqwater will advise when the FOC is demobilised.
10. In the event of email failure, contact will be by phone, if possible.

Items for further discussion

Will Seqwater provide actual and projected Wivenhoe releases to Councils?

What are the triggers for phone contact to BCC FIC?

Regards

Terry Malone
Principal Hydrologist
Queensland Bulk Water Supply Authority *trading as Seqwater*



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002

Brisbane River Model - Calibration Spreadsheet - 1974 Event

From: James Charalambous [REDACTED]
To: "Baddiley, Peter" [REDACTED]
Cc: "Caswell, Evan" [REDACTED], "Morris, Ken"
[REDACTED], "Tibaldi, John" [REDACTED]
Date: Mon, 25 Oct 2010 10:11:52 +1000

Hi Peter/Terry,

As discussed on Friday these are the results of the 2D Brisbane River model for the 1974 event.

- *Water level comparison
- *HQ comparison
- *Discharge rating comparison (only available at Jindalee)

BOM Link:

https://sendit.ourbrisbane.com/files/00d25fe4c977ff622d3e74fb49000e1b/CalibrationData_br_1974_30m_cal_023d_Report.xls

SEQ Water Link:

https://sendit.ourbrisbane.com/files/69601fcfff9e1421fad6988a15d19727/CalibrationData_br_1974_30m_cal_023d_Report.xls

The key limitation of the results is the accuracy of terrain data for the DTM at the upper reaches of the model study area.

At the time of the study LIDAR data was very limited for the Lockyer Creek and Bremer at River at Wallon (NRM 5m contours I believe were used in the model). Obviously I would expect an improvement in the results of the 2D model at these locations with the new LIDAR that has recently been captured by the Commonwealth/State. You should also be aware this is a 30m grid model. In the future I hope to rerun the model at a 10m grid resolution.

I would greatly appreciate if you could plot your own rating curves (BOM/SEQWater) for comparison purposes (mainly at the Brisbane River gauges) and email these back to me for further discussion at the upcoming meeting.

Thank-you.

Kind Regards
JamesC.

**RE: Brisbane River Model - Calibration Spreadsheet - 1974
Event [SEC=UNCLASSIFIED]**

From: Peter Baddiley [REDACTED]
To: Terry Malone [REDACTED], James Charalambous
Cc: "Caswell, Evan" [REDACTED], James Stuart [REDACTED]
"Morris, Ken" [REDACTED], John Tibaldi [REDACTED]
James Stuart [REDACTED]
Date: Mon, 25 Oct 2010 15:06:27 +1000

James

Similar to Terry's comments re Moggill rating, based on the Oct2010, I adjusted the low stage rating for Moggill to the following during the flood (which gave a better fit for this flood!):



which just puts a bit of extra concave in the low stage rating below 10.5/4000.

Seems to match 199902 and 198903 events
Worse fit for 198306 and 198904. Needs more analysis.

Of course our model is based on terry's work with URBS here at the Bureau - so there is plenty of commonality BOM/Seqwater modelling.

I noted the difference in height to flow relationships developed from the 2D modelling. I am not sure how we'll reconcile these differences - but at least working in height between the BOM and BCC should keep estimates of inundation (in line with forecast heights).

regards

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

WWW : www.bom.gov.au

From: Terry Malone [mailto:[REDACTED]]
Sent: Monday, 25 October 2010 2:52 PM
To: James Charalambous; Peter Baddiley

Cc: Caswell, Evan; James Stuart; Morris, Ken; John Tibaldi

Subject: RE: Brisbane River Model - Calibration Spreadsheet - 1974 Event

James

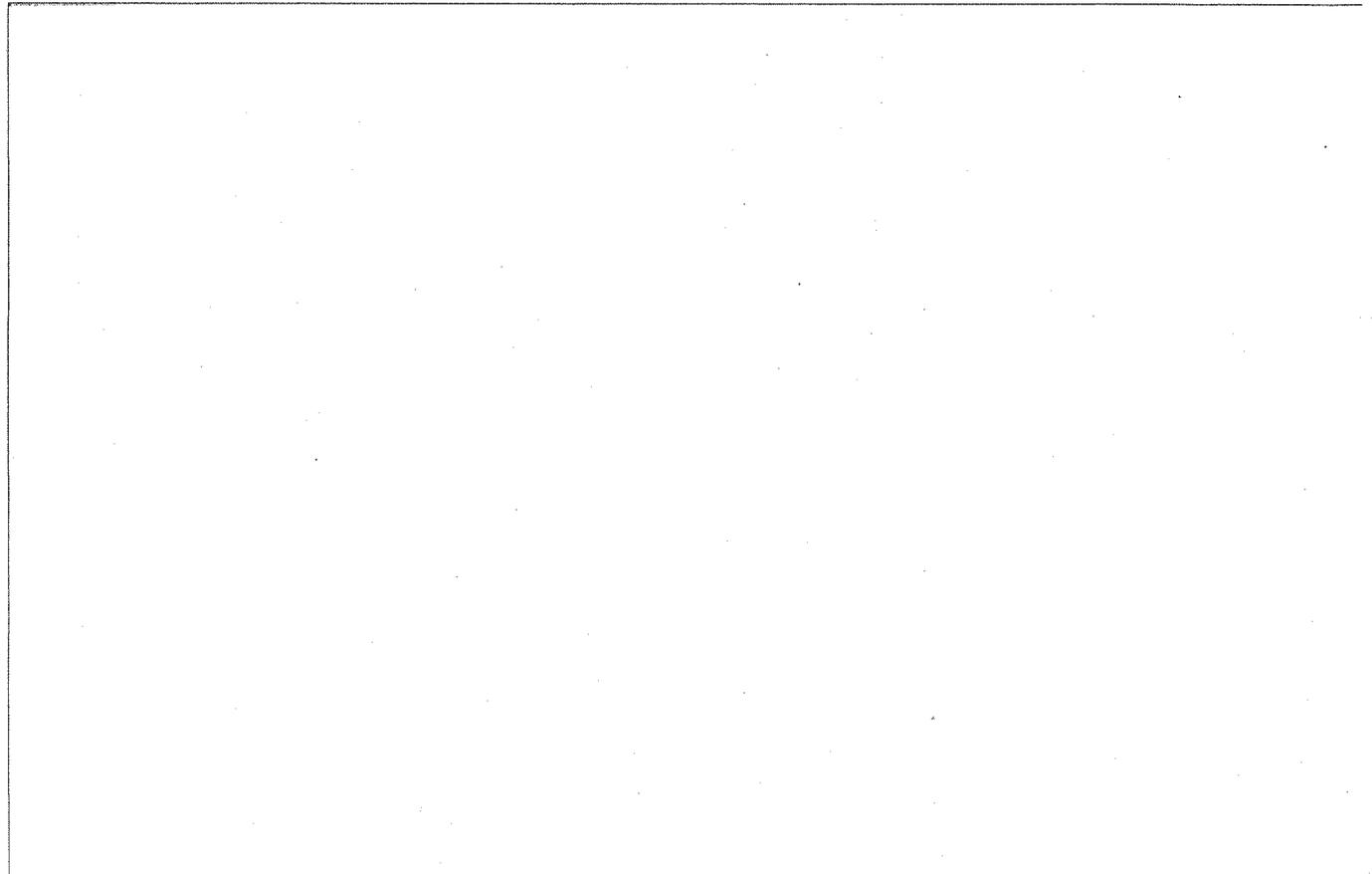
I've plotted your Moggill rating on our current rating. There is some large discrepancies between our ratings, especially at low flows.

For the 1974 flood, it is generally accepted that the peak flow in the lower Brisbane R was 9,500m³/s and the recorded peak water level at Moggill was 19.95 m AHD.

According to our individual ratings, for a flow of about 2,000 m³/s, the height at Moggill could be anything from 4 to 7 m AHD.

The peak flow last week was about 1,600 m³/s and the peak height was about 2.6 m AHD and didn't even match our current rating!

There is obviously still much to do to get a consensus.....



Happy to talk with you about this in more detail.

Terry Malone
Principal Hydrologist
Queensland Bulk Water Supply Authority *trading as Seqwater*



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002



From: James Charalambous [mailto: [REDACTED]]
Sent: Monday, 25 October 2010 10:12 AM
To: Baddiley, Peter; Terry Malone
Cc: Caswell, Evan; [REDACTED] Morris, Ken; John Tibaldi
Subject: Brisbane River Model - Calibration Spreadsheet - 1974 Event

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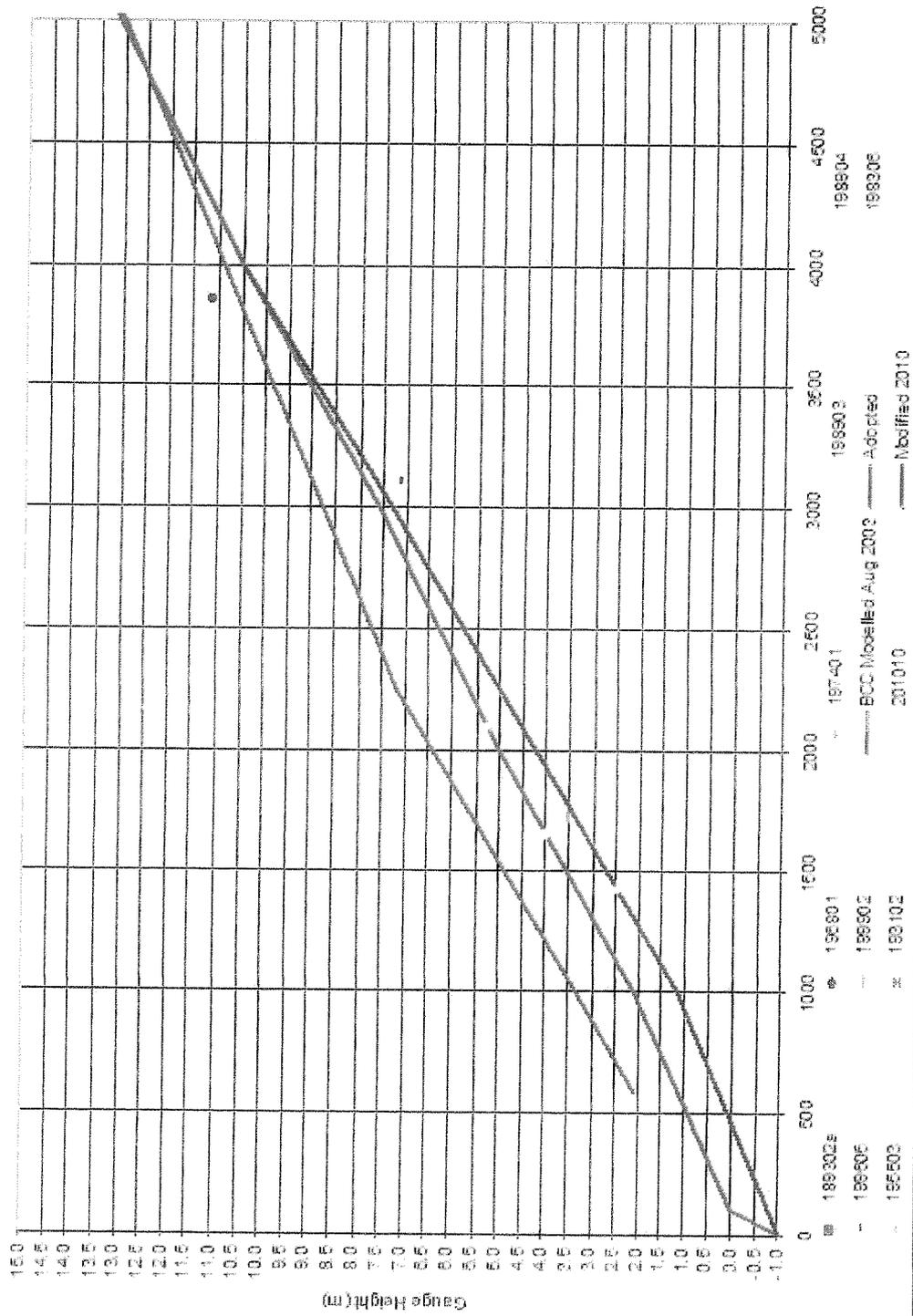
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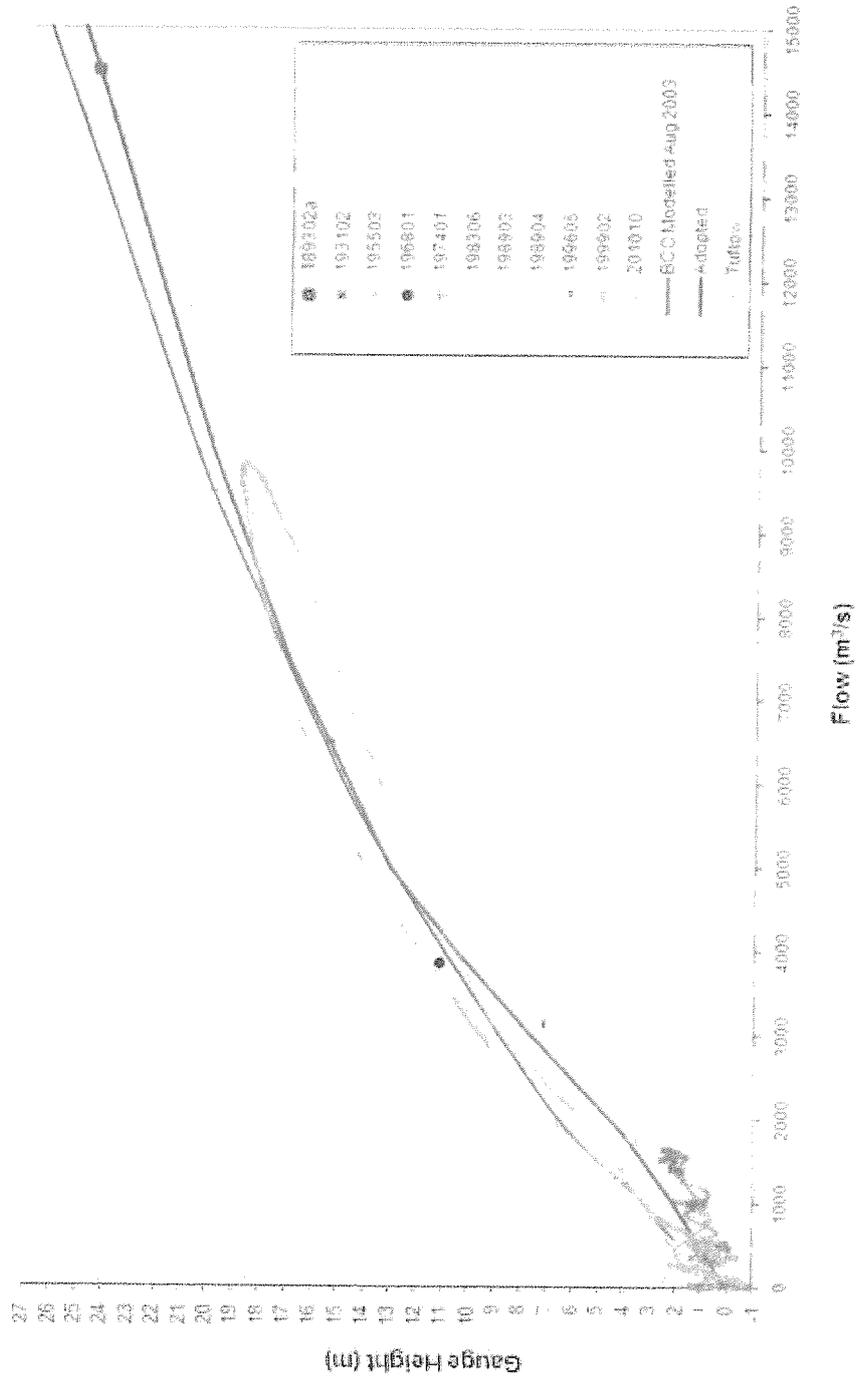
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Mogjill



Moggill



RE: Brisbane River Model - Calibration Spreadsheet - 1974 Event

From: Terry Malone [REDACTED]
To: James Charalambous [REDACTED] "Baddiley, Peter"
Cc: "Caswell, Evan" [REDACTED], "Morris, Ken"
[REDACTED] John Tibaldi [REDACTED]
Date: Mon, 25 Oct 2010 14:51:36 +1000

James

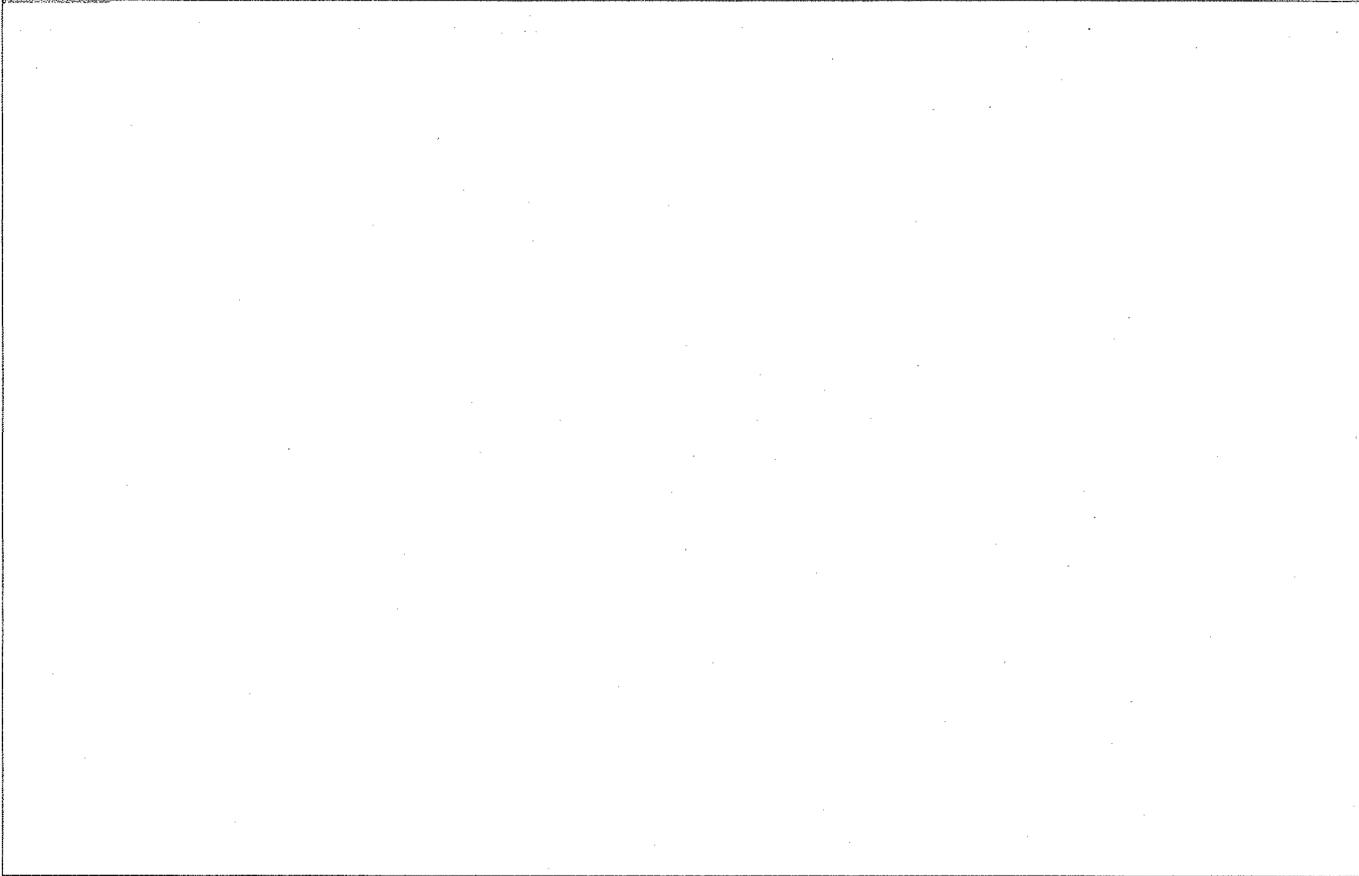
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Principal Hydrologist
Queensland Bulk Water Supply Authority *trading as Seqwater*



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002

████ (7) ██████████ (7) ██████████ ██████████ (0) ██████████ ██████████

From: James Charalambous [mailto: [REDACTED]]
Sent: Monday, 25 October 2010 10:12 AM
To: Baddiley, Peter; Terry Malone
Cc: Caswell, Evan [REDACTED] Morris, Ken; John Tibaldi
Subject: Brisbane River Model - Calibration Spreadsheet - 1974 Event

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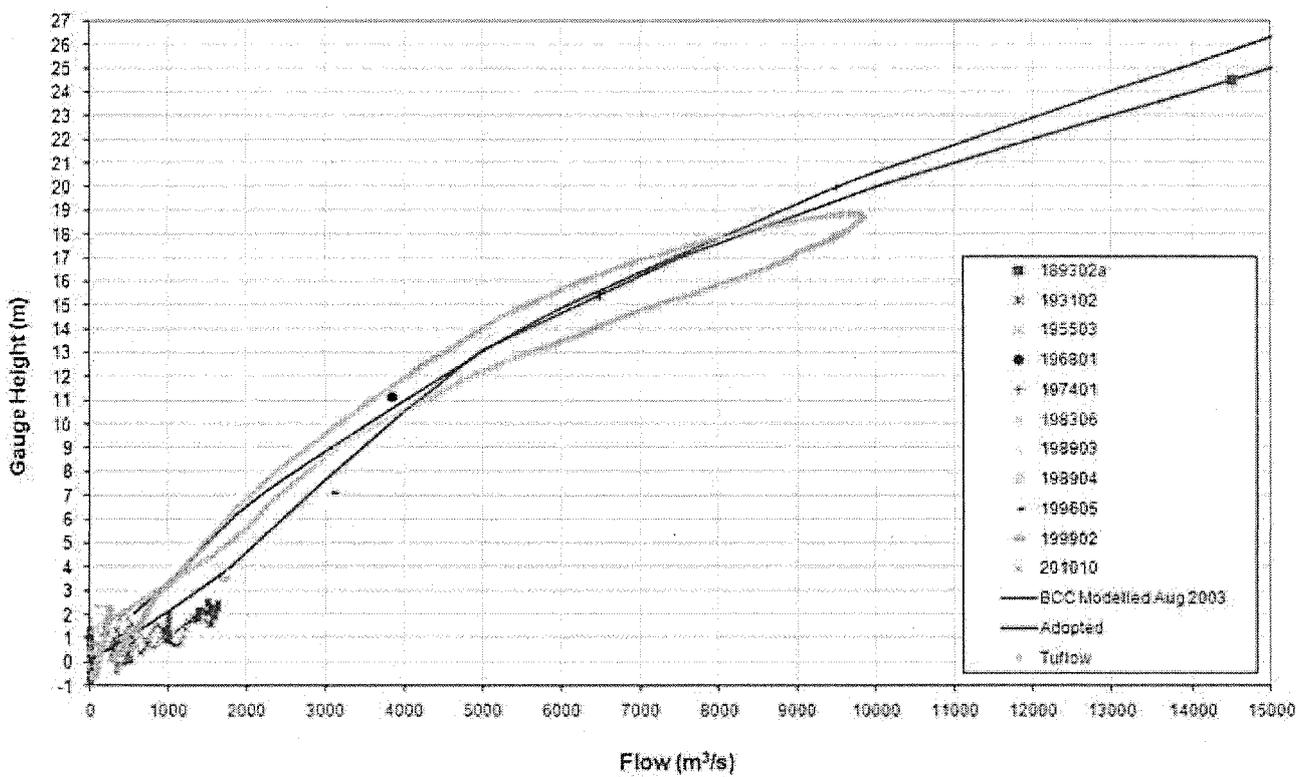
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Authority ABN75450239876 (Trading as Seqwater).

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Please direct all enquiries to the message author.

Moggill



Fwd: A meeting to discuss floodwater releases from Wivenhoe and Somerset dams

From: Vicki Pethybridge [REDACTED]
To: Shane Hackett <[REDACTED]> Ken Morris
Cc: Dean Morse [REDACTED] >, Andrew Chesterman
Date: Tue, 26 Oct 2010 14:18:00 +1000

Hi Shane & Ken,

See invitation below. I will be attending along with Chris Lavin and Julie McLellan.

I would like you both to attend also, can you please confirm availability.

thanks

Vicki

>>> "Michael Shapland" [REDACTED] > 26/10/2010 9:44:00 am >>>

To: Vicki Pethybridge - Brisbane City Council,

Bob Bain - CEO, Somerset Regional Council

Tony Trace - Ipswich City Council,

After discussion on the protocol that was circulated last week, it is evident that a meeting to discuss the issue of flood water release from Wivenhoe and Somerset dams would be worthwhile.

The Department of the Environment and Resource Management has proposed to meet at 0800 (to 1000) on Thursday 28 October 2010. The venue will be the Floor 3 Conference room in Mineral House, 41 George St, Brisbane. Senior technical staff from the water authorities (Seqwater and the SEQ Water Grid Manager) and the Bureau of Meteorology will be in attendance.

Please take this opportunity for a wide-ranging discussion on floodwater release, its potential impact on all our communities and a protocol to ensure that consistent messages reach them. I look forward to seeing you and/or your representatives there.

Mike

Mike Shapland MBE | Director, Disaster Management

Emergency Management Queensland | Department of Community Safety

Level 3, Block E, Emergency Services Complex, Kedron, Queensland

[REDACTED]

[REDACTED] <mailto:[REDACTED]>

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Please direct all enquiries to the message author.

**RE: Brisbane River Model - Calibration Spreadsheet -
1974Event[SEC=UNCLASSIFIED]**

From: James Charalambous [REDACTED]
To: "Baddiley, Peter" [REDACTED] "Malone, Terry" [REDACTED]
Cc: "Caswell, Evan" [REDACTED], "Morris, Ken"
[REDACTED], "Murray, Peter" [REDACTED],
"Stuart, James" [REDACTED]
Date: Wed, 27 Oct 2010 10:57:27 +1000

Peter/Terry,

Thanks for your feedback at Moggill.

I have checked with our engineering surveyor and the DTM in the 2D model at Moggill uses latest the POB bathymetry for this reach of the river (2009), BCC ALS (Aerial Laser Survey) 2002 and ICC ALS 2002 for the floodplain overbanks.

I have extracted the plot output discharge location (red polygon line - measures output discharge) from the model and the level plot output location (measures height) indicated by the red star. These outputs were the basis for the HQ relationship at Moggill. (See att. Moggill.jpg)

In order capture discharge for all profiles up to the PMF (see Moggill.doc), the plot output line for discharge is slightly skewed to the river to the nearest high points on either side of the river. I have also provided the Moggill discharge plot output cross-section for your reference (Moggill.xls).

Does the above align with SEQ Water/BOM Moggill location and cross-section information used for ratings?

Regards
JamesC.

>>> Peter Baddiley [REDACTED] 25/10/2010 3:06 pm >>>

James

Similar to Terry's comments re Moggill rating, based on the Oct2010, I adjusted the low stage rating for Moggill to the following during the flood (which gave a better fit for this flood!):



which just puts a bit of extra concave in the low stage rating below 10.5/4000.

Seems to match 199902 and 198903 events

Worse fit for 198306 and 198904. Needs more analysis.

Of course our model is based on terry's work with URBS here at the Bureau - so there is plenty of commonality BOM/Seqwater modelling.

I noted the difference in height to flow relationships developed from the 2D modelling. I am not sure how we'll reconcile these differences - but at least working in height between the BOM and BCC should keep estimates of inundation (in line with forecast heights).

regards

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

WWW : www.bom.gov.au

From: Terry Malone [REDACTED]
Sent: Monday, 25 October 2010 2:52 PM
To: James Charalambous; Peter Baddiley
Cc: Caswell, Evan; James Stuart; Morris, Ken; John Tibaldi
Subject: RE: Brisbane River Model - Calibration Spreadsheet - 1974 Event

James

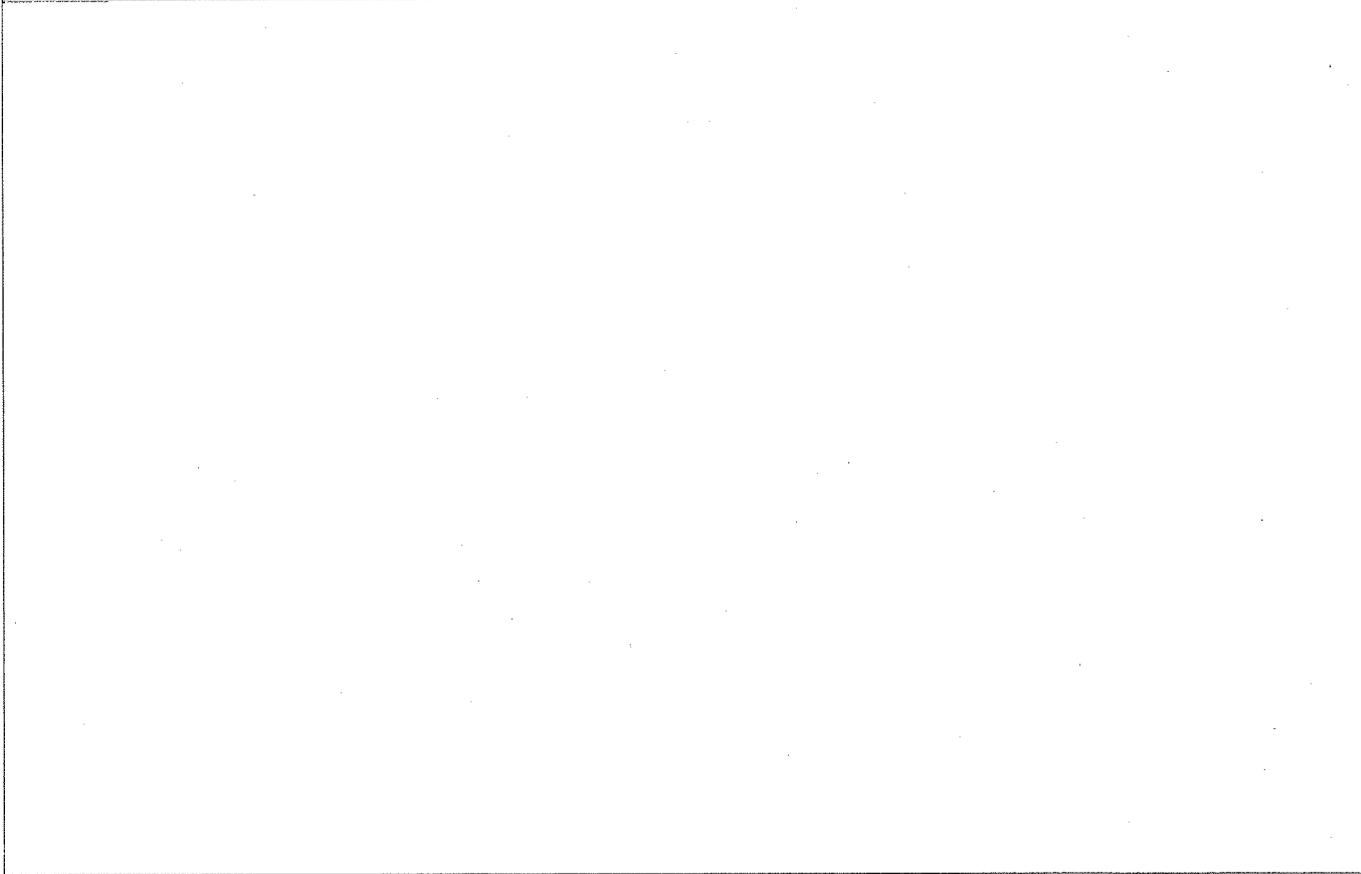
I've plotted your Moggill rating on our current rating. There is some large discrepancies between our ratings, especially at low flows.

For the 1974 flood, it is generally accepted that the peak flow in the lower Brisbane R was 9,500m³/s and the recorded peak water level at Moggill was 19.95 m AHD.

According to our individual ratings, for a flow of about 2,000 m³/s, the height at Moggill could be anything from 4 to 7 m AHD.

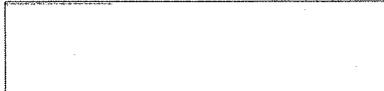
The peak flow last week was about 1,600 m³/s and the peak height was about 2.6 m AHD and didn't even match our current rating!

There is obviously still much to do to get a consensus.....



Happy to talk with you about this in more detail.

Terry Malone
Principal Hydrologist
Queensland Bulk Water Supply Authority *trading as Seqwater*



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002

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From: James Charalambous [mailto: [REDACTED]]
Sent: Monday, 25 October 2010 10:12 AM
To: Baddiley, Peter; Terry Malone
Cc: Caswell, Evan [REDACTED]; Morris, Ken; John Tibaldi
Subject: Brisbane River Model - Calibration Spreadsheet - 1974 Event

Hi Peter/Terry,

As discussed on Friday these are the results of the 2D Brisbane River model for the 1974 event.

- *Water level comparison
- *HQ comparison
- *Discharge rating comparison (only available at Jindalee)

BOM Link:

https://sendit.ourbrisbane.com/files/00d25fe4c977ff622d3e74fb49000e1b/CalibrationData_br_1974_30m_cal_023d_Report.xls

SEQ Water Link:

https://sendit.ourbrisbane.com/files/69601fcfff9e1421fad6988a15d19727/CalibrationData_br_1974_30m_cal_023d_Report.xls

The key limitation of the results is the accuracy of terrain data for the DTM at the upper reaches of the model study area.

At the time of the study LIDAR data was very limited for the Lockyer Creek and Bremer at River at Wallon (NRM 5m contours I believe were used in the model). Obviously I would expect an improvement in the results of the 2D model at these locations with the new LIDAR that has recently been captured by the Commonwealth/State. You should also be aware this is a 30m grid model. In the future I hope to rerun the model at a 10m grid resolution.

I would greatly appreciate if you could plot your own rating curves (BOM/SEQWater) for comparison purposes (mainly at the Brisbane River gauges) and email these back to me for further discussion at the upcoming meeting.

Thank-you.

Kind Regards
JamesC.

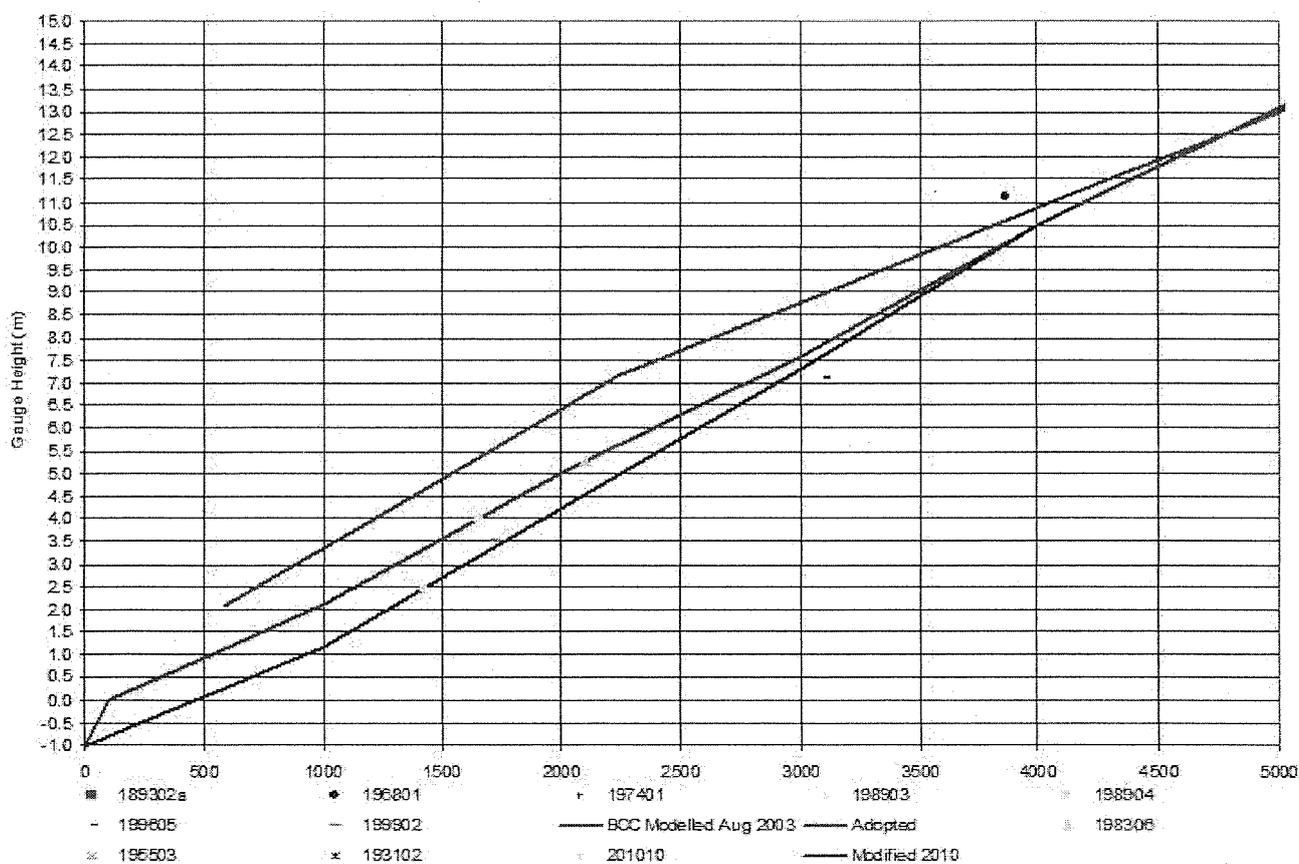
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-----Safe Stamp-----
Your Anti-virus Service scanned this email. It is safe from known viruses.
For more information regarding this service, please contact your service
provider.

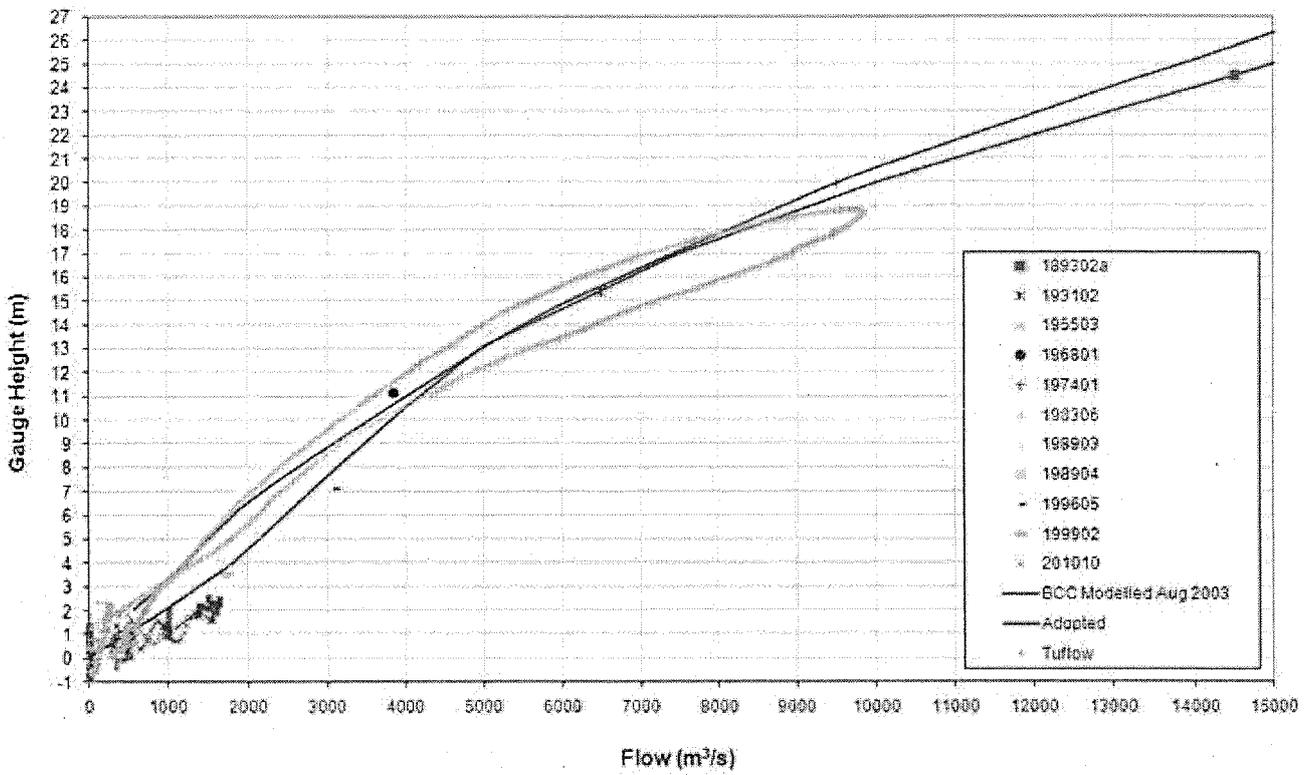
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strictly prohibited. The confidentiality attached to this email is not waived, lost or destroyed by
reasons of mistaken delivery to you. If you have received this email in error please contact the
sender immediately and delete the material from your email system. QLD Bulk Water Supply
Authority ABN75450239876 (Trading as Seqwater).

This message has passed through an insecure network.
Please direct all enquiries to the message author.

Moggill

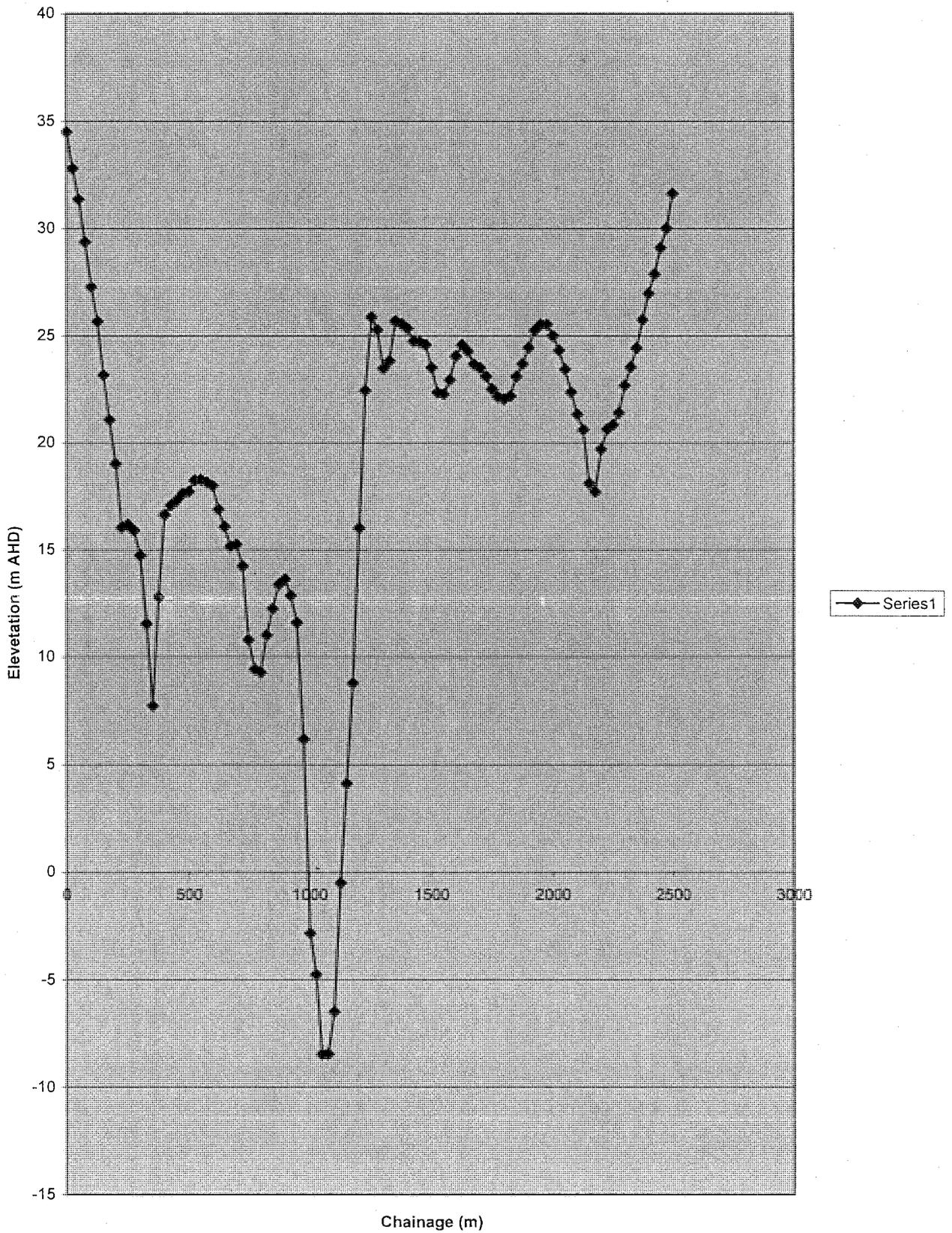


Moggill





Moggill - Discharge Plot Output Cross-Section
Left to Right Looking U/S



background material for tomorrow

From: Vicki Pethybridge [REDACTED]
To: Dean Morse [REDACTED], Shane Hackett
[REDACTED], Julie McLellan [REDACTED],
Ken Morris [REDACTED], Chris Lavin [REDACTED],
Greg Swain [REDACTED], Tammy Anderson
[REDACTED], Evan Caswell [REDACTED]
Date: Wed, 27 Oct 2010 13:33:05 +1000

Hi,

Here is the material that went to LMO yesterday, including the protocol with tracked changes.

The letter (to go from CEO) did not go, we will send an amended letter later today.

Vicki

Protocol for the Communication of Flooding Information during Floodwater Releases - Wivenhoe and Somerset Dams

OBJECTIVE

The purpose of this protocol is to outline the processes to be followed by the Brisbane, Ipswich and Somerset Councils, relevant Queensland Government agencies and the Bureau of Meteorology, which will ensure the provision of consistent and robust information to the community, concerning potential flooding impact during release of floodwater from Wivenhoe and Somerset Dams.

The intent is to ensure that consistent, harmonised information, based on an agreed single point of truth, is communicated to the public in a way that contributes to disaster-resilient communities.

BACKGROUND

Wivenhoe Dam controls approximately half of the Brisbane River catchment above Brisbane City. Other factors such as storm surges, tides, creek flooding, flooding from Brisbane River below Wivenhoe Dam, including Lockyer Creek and the Bremer River, will influence inundation levels in Brisbane.

The operational strategy for water release from Wivenhoe and Somerset Dams is governed by the *Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam*, henceforth referred to as the Flood Mitigation Manual.

The Flood Mitigation Manual is approved and gazetted by the Department of Environment and Resource Management (DERM), in accordance with the provisions of the *Water Supply (Safety and Reliability) Act 2008*.

The Flood Mitigation Manual was developed to ensure that operational decisions at Wivenhoe and Somerset Dams are based on sound engineering principles, which ensure the structural safety of the dam, while minimising downstream impacts.

In the event of a major impact on communities, Queensland disaster management arrangements, based on disaster management groups at local, district and state level, ensure the collaborative and effective coordination of information for all hazards.

Local, district and state disaster management and hazard-specific plans outline arrangements and structures for disaster management, or the hazard, and amongst other things, identify the need for coordination of public communications.

This protocol adds to such plans by outlining specific arrangements necessary when advice to the community needs to be based on technical assessments from hazard-specific primary agencies and other complementary stakeholders across federal, state and local governments.

GENERAL DECISION MAKING - GUIDING PRINCIPLES

- Protection of public safety is paramount throughout both the Flood Mitigation Manual and this Protocol;
- The Flood Mitigation Manual is used to determine how Wivenhoe and Somerset Dams will be operated during flood events;
- Impact on the community upstream or downstream is a legitimate consideration of any risk assessment;
- Agreed regular and consistent communications within government and to the public, in relation to the impacts of floodwater releases from Wivenhoe Dam, are essential;
- Decision-making chains regarding the communications strategy and disaster management should remain flexible; and should recognise the important role and the expectation of the Lord Mayor of Brisbane to quickly communicate issues of public safety with members of the community

PROCESS OF COMMUNICATION

There are three stages in the process of communication:

- Monitoring and Assessment
- Briefing and Activation
- Public Communications

Some discussion on trigger levels to start the cross communications needs to take place and be included in the document.

What is regarded by one agency as a below minor, "no consequence" event may not be so considered by Councils. As an example the BCC Ferries are impacted by quite minor events.

Can the trigger for the DG comms process 'significant public safety issues' be defined? ie 20 residential houses? What about public concern as a trigger? Or public infrastructure?

Can the process for 'continual discussions' and 'harmonising' be made clearer? ie is SEQ Grid Communications unit the key contact for these discussions?

Monitoring and Assessment

The floodwater release strategy is a balance between releasing the water quickly enough so that the flood storage capacity is available if another major rain event occurs, versus minimising downstream flooding impacts (human safety and property damage) from the releases.

A fundamental principle is that all floodwater should be released from the dams within seven days of the flood event peaking in Wivenhoe or Somerset Dam. This ensures the dams can cope with closely spaced major rain events.

Communications with the public on floodwater releases are based on a continuous process of technical assessment. (if the water released is not expected to be a problem will SEQ Water still make info available that it is releasing water to ensure informed communities?) The process is dynamic and evolves according to the event, but will normally contain the following steps:

- Routine monitoring of weather events and dam levels by relevant agencies via established systems and procedures;

- The Bureau of Meteorology (BoM) provides weather forecasts and warnings (e.g. Tropical Cyclone, Severe Weather, Severe Thunderstorm, Flood). In the event of heavy rain and runoff in the Wivenhoe and/or Somerset Dam catchments, BoM and the Queensland Bulk Water Supply Authority (Seqwater) discuss modelled inflows to Wivenhoe and/or Somerset Dam, and downstream flood levels.
- Seqwater discusses and models implications of the inflows on the necessary floodwater release from Wivenhoe Dam and/or Somerset Dam. (who will Seqwater discuss this information with?)
- Seqwater calculates the releases according to dam levels and predicted weather events in accordance with the Flood Mitigation Manual. Seqwater shares predicted floodwater releases with BoM and with the Councils. (Discussions should occur before the water is released)
- BoM undertakes modelling of the Brisbane River catchment and its river systems using Seqwater advice of actual and projected Wivenhoe Dam and/or Somerset Dam releases when these are, or are expected, to occur. (what about a flood event entirely outside of Wivenhoe?)
- BoM participates in technical discussions with Seqwater, Brisbane City Council, Ipswich City Council and Somerset Regional Council as necessary, to share modelling results. The discussions aim to establish an agreement on what to tell the public about predicted flood levels and timings.
- Councils identify flood inundation areas and assess impacts for their communities and regularly share this information with all relevant parties.
- Following a decision to release floodwater, or a significant change in the severity and scope of the event, Seqwater coordinates the completion of the *Flood Release Operations and Impact Report* (FROIR - Appendix C) and provides the Report to the SEQ Water Grid Manager according to their Emergency Response Plan, in order to inform the public communications process.

If, during this continuous process, it becomes apparent to either BoM, local governments or Seqwater that the situation is likely to result in significant public safety issues, the SEQ Water Grid Manager, based on the Report, will commence the public communications process and engage with the disaster management arrangements as appropriate.

Briefing and Activation

Consideration will be given to the activation of the Disaster Management arrangements, if not already activated.

1. SEQ Water Grid Manager will alert the Director-General (DG) of the Department of Community Safety (DCS), DG DERM, and the local governments; (the CEO should be named here, not listed as "local governments"- likewise on Appendix A)
2. DG DCS will inform the DG of the Department of Premier and Cabinet (DPC) - the Chair of the State Disaster Management Group (SDMG), and will activate the State Disaster Coordination Centre (SDCC). DG DCS will also inform the Minister for Police, Corrective Services and Emergency Services;
3. Councils will consider and more than likely will activate their Local

Disaster Management Groups (LDMGs) and Local Disaster Coordination Centre;

4. The SDCC and LDMGs will inform the relevant District Disaster Coordinators (DDCs);
5. The Queensland Police Service (QPS) will consider initiating disaster management actions as provided for under the *Disaster Management Act 2003*;
6. DG DERM will inform the Minister for Natural Resources, Mines and Energy;
7. DG DPC will inform the Premier;
8. In the case of an extreme event, the Crisis Communications Network, chaired by the Department of Premier and Cabinet (DPC), may be activated at the direction of the SDMG Chair to coordinate public messaging agreed by BoM, Seqwater, SEQ Water Grid Manager, QPS, relevant Councils and DCS as per this protocol;
9. In the case of a non-disaster, public communications will be in accordance with this protocol.

Public Communications Issues

SEQ Water Grid Communications Unit will coordinate the input and liaise with the following or their representatives over public safety messages:

- BoM;
- Seqwater;
- Councils' Media Directors.
- QPS Media Director; and
- DCS Media Director.

(above contacts should receive a list of other agencies' contact numbers and this should aim to be reviewed at least every 6 months)

An internal BCC media representative is in the LDCC to action any community service announcement activities, which go through the normal process, through the Lord Mayor's office.

The point around *harmonised public communications* cannot impact on our timelines to release information, as the Lord Mayor may not want to wait to communicate information to the public.

The BoM, Seqwater and Local Governments are to maintain continual discussions, to ensure that conflicting information is not released to the public at any time. Where differences arise, officers of the agencies concerned will liaise and consult to ensure that the information released to the public by all agencies is consistent. Agencies must exchange public releases.

Harmonised public communications messages will be released from the following agencies:

- **Bureau of Meteorology** - concentrating on Flood Warnings which are widely disseminated to the BoM website, agencies and the media. BoM also participates in media (radio, television, newspaper) interviews to provide factual information regarding observed and forecast weather conditions, rainfalls and water levels;
- **SEQ Water Grid Manager** - concentrating on the technical aspects of release

timings and duration of effects as lead technical agency on floodwater release. Seqwater operational staff are to ensure that technical information is communicated to the SEQ Water Grid Emergency Response Team (if activated) and the SEQ Water Grid Communications Unit;

- **Local Governments /Local Disaster Management Groups** - concentrating on the effects of release and safety for their local communities and residents.

If necessary these will be augmented by:

- **Queensland Police Service** - concentrating on specific community safety messaging during operations;
- **Department of Community Safety** - concentrating on general safety matters regarding flooding;
- **Department of Premier and Cabinet (extreme events only)** - concentrating on consistent messages to media and agencies concerned.

Event-specific information will be released to the public as frequently as required by the severity and scope of the event. Timings of media releases will be dependent on the event and may range from once a day to once an hour.

Questions from the Public

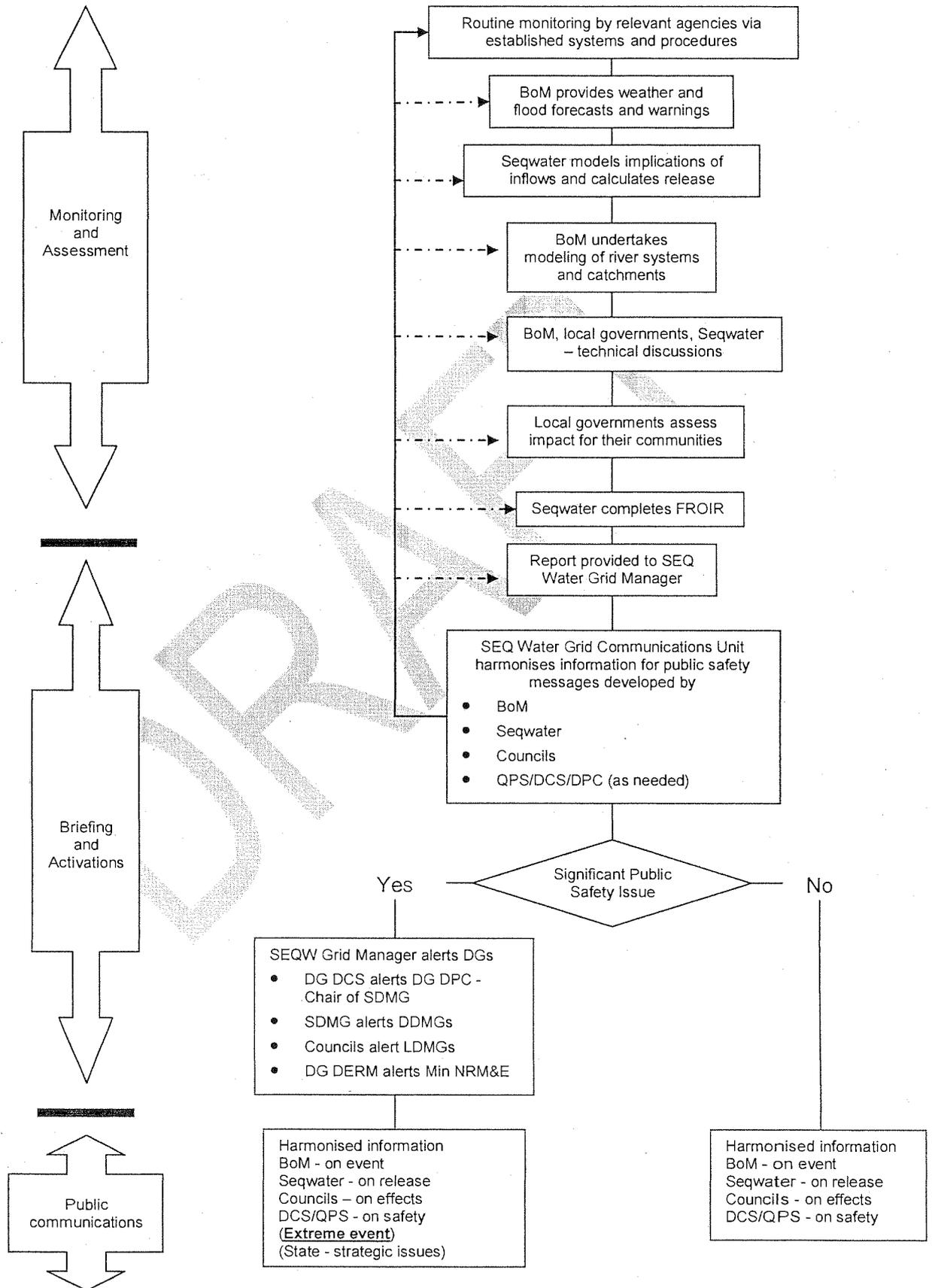
All questions from the public should be directed to the relevant local government in the first instance. (should we be more specific on what questions the LGs can answer and who will provide scripting) Any questions relating to the release of water should be directed to the SEQ Water Grid Manager Communications Unit. Any queries about disaster management should be addressed by the relevant local and district disaster management groups.

Protocol Maintenance

This protocol will be reviewed annually by agencies involved and exercised, during the years when operational floodwater release does not occur, under DDMG arrangements.

The protocol should provide for a review after each event of what worked and could be improved for management of future events, to be led by DCS.

Communications process for the release of floodwater from Wivenhoe and Somerset Dams



ROLES AND RESPONSIBILITIES

- The Bureau of Meteorology (BoM) is the agency responsible for issuing flood warnings for the Brisbane River and its major tributaries. These, when required, include rainfall forecasts for the Brisbane catchment and predicted river heights for Brisbane City, Ipswich, Jindalee and Moggill according to established procedures.

River height predictions are agreed in consultation with South East Queensland Water (Seqwater), Brisbane City Council (BCC), Ipswich City Council (ICC) and Somerset Regional Council (SRC), as required.

- Queensland Bulk Water Supply Authority (Seqwater) operates Wivenhoe and Somerset Dams in accordance with the Flood Mitigation Manual. It provides dam outflow information to BoM, to allow the development of Flood Warnings and to local authorities, to assist them in quantifying likely impacts within their areas.

It informs BoM and other agencies on the status of dams, and actual and projected releases from Wivenhoe Dam.

It consults BoM regarding inflows to Wivenhoe Dam and expected flood heights along the Brisbane River downstream of Wivenhoe Dam.

Seqwater initiates proposed changes to the Flood Mitigation Manual, undertaking consultation with Councils and other stakeholders.

Seqwater coordinates the production of the FROIRs.

- Brisbane City Council (BCC), Ipswich City Council (ICC) and Somerset Regional Council (SRC) distribute consistent, detailed local flood level information, both to their respective operational units, their senior management and their broader communities. This should include the interpretation of BoM flood warnings and river height forecasts into expected areas and depths of inundation. Councils are responsible for activating their respective Local Disaster Management Groups (LDMGs), which then undertake the disaster management responsibility for response in the community.
- DERM consults with the stakeholders prior to the approval of any updates to the Flood Mitigation Manual. DERM also approves any necessary variations to the strategies in the manual if required during the course of a flood event.
- Queensland Police Service (QPS) assumes a legislative role, as per the Disaster Management system, to provide disaster management at a district level during an event, including provision of necessary community advice for public safety.
- Emergency Management Queensland (EMQ) provides support and general community safety advice on flooding issues, during non-operational times.
- SEQ Water Grid Communications Unit coordinates the general harmonisation, but not specific detail of public messaging with BoM, SEQ Water Grid, BCC and DCS, as required. It does this by ensuring that each agency understands the extent of the release and that there is a general consensus as to the level of potential impacts.

FLOOD RELEASE OPERATIONS AND IMPACT REPORT

OPREP Number		Date of OPREP release		Time of OPREP release	
---------------------	--	------------------------------	--	------------------------------	--

Next OPREP due	Date		Time		or Event	
-----------------------	-------------	--	-------------	--	-----------------	--

This report is as at the time of assessment, and may be out of date quickly, depending on current events. It relies on timely information provided by Seqwater, BoM and Councils. A reply will be required by a specified time and if not received by that time no information will be included. If any information is not provided, the section will remain blank. There will be no follow up requests.

Each Authority will provide an email and telephone contact for all communications. If an event escalates, there may be less time to respond or it may not be possible to respond to requests.

The initial step in the process is for Seqwater to email advices on releases to the organisations email address provided. Once a flood event is initiated, at any time a Council or agency can contact Seqwater to discuss if they have a serious concern regarding the information on releases provided, this would normally be by phone and followed by email. However the ability to respond to any queries depends on the event. The frequency of advices will depend on the severity of the event and the needs of each agency.

Seqwater will also request at that time, a situation Assessment from each agency as per details outlined in this document. Each agency will then email in return the requested information if possible or advice that it has not changed. If it is not received in the time specified, it is assumed it is not being provided.

Emails should be followed up with a phone call on each occasion.
What is the work around should there be a power outage, which is likely?

Seqwater status of inflows and dam operations

(to include information on the current and/or predicted levels of Somerset and Wivenhoe Dams and the probable or planned release strategy with assessment as governed under the Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam)

This is Seqwaters status report on the dam levels, probable inflows and planned releases.

.....

This has been supplied to

BCC on

ICC on

SRC on

Issues raised by Councils were

Actions taken were

Seqwater Technical Officer name

Seqwater Technical Officer position title

Seqwater Technical Officer contact details

BoM assessment

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

BoM is to provide either a copy of, or links to, their current information and other updates or comments if needed. This will be their current set of warnings and may be updated or changed at any time.

BoM Technical Officer name

BoM Technical Officer position title

BoM Technical Officer contact details

Brisbane City Council (BCC) assessment

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

This is an assessment as above provided by BCC. A request for this information will be sent to the email address provided by BCC.

BCC Technical Officer name	
BCC Technical Officer position title	
BCC Technical Officer contact details	

Ipswich City Council (ICC) assessment (if required)

Somerset Regional Council (SRC) assessment (if required)

(both ICC and SRC requirements are the same as for BCC)

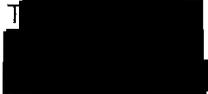
Collated and distributed by Seqwater

Seqwater Contact Officer signature	
Seqwater Contact Officer name	
Seqwater Contact Officer position title	
Seqwater contact details	

From: Vicki Pethybridge
To: Chris Lavin; Cris Anstey; Evan Caswell; Julie McLellan; Ken Morris; Richard Ferrett; Shane Hackett; Vicki Pethybridge
Date: 27/10/2010
Time: 16:30:00 - 17:15:00
Subject: Preparation for Flood Protocol meeting
Place: BSQ 11.4

Hi,
I'd like us to get together prior to the meeting at EMQ tomorrow to agree on our position tomorrow. Cris Anstey has spoken to the LM regarding the protocol and will provide us with guidance on the LM's requirements.
Vicki

Vicki Pethybridge
Divisional Manager
Families and Community Services
Brisbane City Council



W www.brisbane.qld.gov.au

Dam emergency procedures

From: Madeleine Grant [REDACTED]
To: [REDACTED]
Cc: Ken Morris [REDACTED], Greg Scroope
[REDACTED], Chris Lavin [REDACTED] >, Peter Hillcoat [REDACTED] >, Evan Caswell [REDACTED], James Charalambous [REDACTED] >, Rachael Lindsay [REDACTED]
Date: Thu, 28 Oct 2010 13:38:19 +1000

For the Attention of Terry Malone and John Tibaldi,

After discussion with the Flood Information Centre staff and Peter Hillcoat, a decision has been made to change the central point of contact for updates to the SEQ Water Emergency procedures to the City Design Library. This will allow Brisbane City Council to track the location and updating of these items more effectively. When updates are received by the library the information will be disseminated to the appropriate staff and all folders containing information will be updated promptly.

It will be the responsibility of the City Design Librarian and Information Officer to inform SEQ Water of any changes to contact details or staff to ensure that all future information is received by the Council in a timely manner

Yours Sincerely

Madeleine Grant

City Design Librarian and Information Officer

City Design

Brisbane Infrastructure

Brisbane City Council

GPO Box 1434

Brisbane Q 4000



Friday Morning 29/10 - Technical Capability Meeting Reminder

From: James Charalambous [REDACTED]
To: "Baddiley, Peter" [REDACTED], "Carroll, Don" [REDACTED],
"Caswell, Evan" [REDACTED], "Charalambous, James"
[REDACTED],
"Morris, Ken" [REDACTED],
Cc: "Lavin, Chris" [REDACTED], "Scroope, Greg"
[REDACTED]
Date: Thu, 28 Oct 2010 15:31:29 +1000

Just a reminder for meeting tomorrow:

Time: 8:45 am to 12:30pm.

Location: Green Square Level 2 (GSQ-L2A-4-10p)

Agenda as follows:

1. Open discussion on communication between agencies, processing of information and data
2. Suggestions or improvements to current systems/processes

Morning tea (10am) and lunch (12-12:30pm) will be provided.

The meeting notes from last's weeks meeting are attached and email from SEQ Water outlining trigger levels.

[No Subject]

Brisbane River Storm Event

1. Rain in Brisbane
2. SEQ water contacts LDCC
3. Decision on action

Brisbane River Flood Event

1. May or may not mobilise FOC
2. If FOC mobilised 24x7 ops
3. FOC contacts (telephones) duty officer at BCC Disaster Management and the BOM, starts providing releases estimates to the BOM
4. BCC DM duty officer contacts FIC, FIC stands up, LDCC advises SEQ Water to direct future comms to FIC
5. FIC contacts BOM, advises that FIC will stand up, then seeks to access flood height estimates from the BOM's modelling
6. What are the triggers for SEQ Water to provide release advice directly to FIC?
7. The possibility of a telephone conference between all three agencies at a significant level of flooding? Again what is the trigger for such a conversation (i.e. 3500m³/s or less??) Triggers for media release may be different for each agency.
8. What is the minor flood level for Brisbane?

RE: Friday Morning 29/10 - Technical Capability Meeting

From: Terry Malone [REDACTED]
To: James Charalambous [REDACTED], "Baddiley, Peter"
[REDACTED], "Carroll, Don", "Caswell, Evan"
[REDACTED], John
[REDACTED], "Morris, Ken"
p.birch@bom.gov.au, Rob Drury
Cc: "Lavin, Chris" [REDACTED], "Scroope, Greg"
[REDACTED]
Date: Mon, 25 Oct 2010 08:56:45 +1000

Gents

Seqwater would to submit this as a proposal for discussion at this Friday's meeting:

Relationships with external agencies during flood events when water is released from Wivenhoe Dam.

1. Seqwater will contact Bureau of Meteorology (BOM), Somerset Regional Council (SRC), Ipswich City Council (ICC) and Brisbane City Council (BCC), Disaster Management Duty Officer, by phone when the Flood Operations Centre (FOC) is mobilised. It is understood that BCC Disaster Management Duty Officer will advise BCC Flood Information Centre (FIC) Duty Officer to establish an officer-to-officer technical relationship with the FOC.
2. Seqwater will not contact ICC or BCC Councils unless releases are expected from Wivenhoe.
3. Seqwater may contact SRC if the expected flood impact is limited to areas upstream of Wivenhoe.
4. Seqwater will advise Councils when it is expected that a combination of local runoff and releases from Wivenhoe will result in the following flows being reached or exceeded:

Trigger	Impact	Deck	Agency to	Comment
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		Level	Advise	
Mid Brisbane >50 m3/s	Twin Bridges	20.0	SRC	Seqwater will advise of likely impact
Mid Brisbane >130 m3/s	Savages Crossing		SRC	Seqwater will advise of likely impact
Mid Brisbane >175 m3/s	Colleges Crossing		ICC	Seqwater will advise of likely impact
Mid Brisbane >430 m3/s	Burtons Bridge	19.6	SRC	Seqwater will advise of likely impact
Mid Brisbane >550 m3/s	Kholo Bridge	11.9	ICC	Seqwater will advise of likely impact
Mid Brisbane >1,000 m3/s	Minor Flood Level Savages Crossing		BOM	Seqwater and BOM to discuss flows Seqwater will provide actual and projected Wivenhoe releases to BOM
Mid Brisbane >1,900 m3/s	Mt Crosby Weir Bridge	12.4	ICC	Seqwater will advise of likely impact
Mid Brisbane >2,000 m3/s	Fernvale bridge	33.8	SRC	Seqwater will advise of likely impact
Lower Brisbane >3,500 m3/s	Threshold of urban damage in BCC		BOM, BCC FIC	Seqwater, BOM and BCC FIC to discuss flows

5. At the first instance of the expectation of the trigger, contact by Seqwater will be by phone, thereafter advice will be via email.
6. Seqwater will provide daily email advice of the status to SRC, ICC, BOM and BCC when Mid Brisbane flows are expected to reach or exceed 130 m3/s.
7. Seqwater will provide twice daily email advice of the status to SRC, ICC, BOM and BCC when Mid Brisbane flows are expected to reach or exceed 550 m3/s.

8. Nominated Councils officers are invited to contact the Flood Operations Centre for technical discussions at any time after mobilisation.
9. Seqwater will advise when the FOC is demobilised.
10. In the event of email failure, contact will be by phone, if possible.

Items for further discussion

Will Seqwater provide actual and projected Wivenhoe releases to Councils?

What are the triggers for phone contact to BCC FIC?

Regards

Terry Malone
Principal Hydrologist
Queensland Bulk Water Supply Authority *trading as Seqwater*



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002



From: James Charalambous [redacted]
Sent: Friday, 22 October 2010 3:01 PM
To: Baddiley, Peter; Carroll, Don; Caswell, Evan; Charalambous, James [redacted]; John Tibaldi; Morris, Ken [redacted]; Rob Drury; Terry Malone
Cc: Lavin, Chris; Scroope, Greg
Subject: Friday Morning 29/10 - Technical Capability Meeting

As per our discussions today:

SEQWater/BOM/BCC have agreed to reconvene next Friday 29/10/2010

Time: 8:45 am to 12:30pm.

Location: Green Square Level 2 (GSQ-L2A-4-10p)

Agenda as follows:

1. Open discussion on communication between agencies, processing of information and data
2. Suggestions or improvements to current systems/processes

Morning tea (10am) and lunch (12-12:30pm) will be provided.

The meeting will follow on from today's discussion (meeting notes attached).

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RE: Friday Morning 29/10 - Technical Capability Meeting Reminder

From: James Charalambous [REDACTED]

To: "Tibaldi, John" [REDACTED]

Cc: "Baddiley, Peter" [REDACTED], "Caswell, Evan"

[REDACTED], "Morris, Ken" [REDACTED]

Date: Thu, 28 Oct 2010 16:01:15 +1000

Hi John,

I am awaiting an agenda list from Peter Baddiley in addition to the discussion on the triggers.

I think it would be a good idea if you chair the first session to morning tea focusing on triggers. Then Peter Baddiley can chair the second session from morning tea to lunch with the BOM agenda items. Obviously BCC have some agenda items as well, however these can fit broadly into these two sessions.

Is that acceptable?

Regards
JamesC.

>>> "John Tibaldi" [REDACTED] > 28/10/2010 3:37 pm >>>
James

In the interests of getting to some final decision points, I think it would be useful to have a structured agenda rather than an open discussion. I also understand that Don Carroll is on leave, so I was not sure who would chair tomorrow's meeting. I am happy to take that role if that is of assistance in finalising some actions.

Regards.

John Tibaldi
Dam Safety Manager
Queensland Bulk Water Supply Authority *trading as Seqwater*



[REDACTED]
Unit 1/ 68 Junction Road, Karalee QLD 4306
PO Box 2437, North Ipswich QLD 4305
Website | www.seqwater.com.au

From: James Charalambous [mailto: [REDACTED]]
Sent: Thursday, 28 October 2010 3:31 PM
To: Baddiley, Peter; Carroll, Don; Caswell, Evan; Charalambous, James [REDACTED]; [REDACTED]; John Tibaldi; Morris, Ken; [REDACTED]; Terry Malone
Cc: Lavin, Chris; Rob Drury; Scroope, Greg
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RE: Friday Morning 29/10 - Technical Capability Meeting Reminder

From: John Tibaldi [REDACTED]
To: James Charalambous [REDACTED]
Cc: "Baddiley, Peter" [REDACTED], "Caswell, Evan"
[REDACTED]
Date: Thu, 28 Oct 2010 16:03:03 +1000

Thanks. That sounds good to me.

From: James Charalambous [REDACTED]
Sent: Thursday, 28 October 2010 4:01 PM
To: John Tibaldi
Cc: Baddiley, Peter; Caswell, Evan; Morris, Ken
Subject: RE: Friday Morning 29/10 - Technical Capability Meeting Reminder

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Is that acceptable?

Regards
JamesC.

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Regards.

John Tibaldi
Dam Safety Manager
Queensland Bulk Water Supply Authority *trading as Seqwater*



[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] 68 Junction Road, Karalee QLD 4306
PO Box 2437, North Ipswich QLD 4305
Website | www.seqwater.com.au

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To: Baddiley, Peter; Carroll, Don; Caswell, Evan; Charalambous, James [REDACTED]
[REDACTED] John Tibaldi; Morris, Ken; [REDACTED] Terry Malone
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[No Subject]

Brisbane River Storm Event

1. Rain in Brisbane
2. SEQ water contacts LDCC
3. Decision on action

Brisbane River Flood Event

1. May or may not mobilise FOC
2. If FOC mobilised 24x7 ops
3. FOC contacts (telephones) duty officer at BCC Disaster Management and the BOM, starts providing releases estimates to the BOM
4. BCC DM duty offier contacts FIC, FIC stands up, LDCC advises SEQ Water to direct future comms to FIC
5. FIC contacts BOM, advises that FIC will stand up, then seeks to access flood height estimates from the BOM's modelling
6. What are the triggers for SEQ Water to provide release advice directly to FIC?
7. The possibility of a telephone conference between all three agencies at a significant level of flooding? Again what is the trigger for such a conversation (i.e. 3500m³/s or less??) Triggers for media release may be different for each agency.
8. What is the minor flood level for Brisbane?

RE: Friday Morning 29/10 - Technical Capability Meeting

From: Terry Malone [REDACTED]
To: James Charalambous <[REDACTED]>, "Baddiley, Peter"
[REDACTED], "Carroll, Don", "Caswell, Evan"
John Tibaldi >, "Morris, Ken"
[REDACTED] Rob Drury
Cc: "Lavin, Chris" [REDACTED], "Scroope, Greg"
[REDACTED]
Date: Mon, 25 Oct 2010 08:56:45 +1000

Gents

Seqwater would to submit this as a proposal for discussion at this Friday's meeting:

Relationships with external agencies during flood events when water is released from Wivenhoe Dam.

1. Seqwater will contact Bureau of Meteorology (BOM), Somerset Regional Council (SRC), Ipswich City Council (ICC) and Brisbane City Council (BCC), Disaster Management Duty Officer, by phone when the Flood Operations Centre (FOC) is mobilised. It is understood that BCC Disaster Management Duty Officer will advise BCC Flood Information Centre (FIC) Duty Officer to establish an officer-to-officer technical relationship with the FOC.
2. Seqwater will not contact ICC or BCC Councils unless releases are expected from Wivenhoe.
3. Seqwater may contact SRC if the expected flood impact is limited to areas upstream of Wivenhoe.
4. Seqwater will advise Councils when it is expected that a combination of local runoff and releases from Wivenhoe will result in the following flows being reached or exceeded:

Trigger	Impact	Deck	Agency to	Comment
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		Level	Advise	
Mid Brisbane >50 m3/s	Twin Bridges	20.0	SRC	Seqwater will advise of likely impact
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10. In the event of email failure, contact will be by phone, if possible.

Items for further discussion

Will Seqwater provide actual and projected Wivenhoe releases to Councils?

What are the triggers for phone contact to BCC FIC?

Regards

Terry Malone
Principal Hydrologist
Queensland Bulk Water Supply Authority *trading as Seqwater*



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002



From: James Charalambous [REDACTED]
Sent: Friday, 22 October 2010 3:01 PM
To: Baddiley, Peter; Carroll, Don; Caswell, Evan; Charalambous, James; [REDACTED]; John Tibaldj; Morris, Ken; [REDACTED]; Rob Drury; Terry Malone
Cc: Lavin, Chris; Scroope, Greg
Subject: Friday Morning 29/10 - Technical Capability Meeting

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RE: Friday Morning 29/10 - Technical Capability Meeting Reminder [SEC=UNCLASSIFIED]

From: Peter Baddiley [REDACTED]
To: John Tibaldi [REDACTED], James Charalambous
Cc: "Caswell, Evan" [REDACTED], "Morris, Ken" [REDACTED], Terry Malone [REDACTED], Peter [REDACTED], Jeff Perkins [REDACTED]
Date: Thu, 28 Oct 2010 16:53:39 +1000

James/John

Expecting 3 participants from BoM tomorrow - Peter, Jimmy, Paul.

I think agenda items that BoM would propose align mostly with the issues I listed last week. Not sure that we will get through all of these tomorrow & some of these may already be captured by preceding discussions/agenda items ...

1. Triggers and warning procedures
 - * BoM to BCC/ICC/Seqwater perspective
 - * BCC expectations/requirements
 - * parallel development of protocol
 - * existing flood classifications (minor/moderate/major)
 - * height predictions for public release (thresholds, leadtimes, handling uncertainty, longer term planning levels)
2. Content & updating of warnings
 - * incl Seqwater advice/statements
 - * BCC and ICC statements to be specified
 - * distribution of Council advices (CSAs?) to Bom/Seqwater
3. Restricted use of BoM registered user model results.
4. Brisbane City gauge readings
 - * ALERT vs TM vs manual
 - * manual check readings & comparisons with past floods

Obviously Modelling (hydrologic and hydraulic) is a topic in itself.

regards, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

EMAIL [REDACTED]
WWW : www.bom.gov.au

From: John Tibaldi [REDACTED]
Sent: Thursday, 28 October 2010 4:03 PM
To: James Charalambous
Cc: Peter Baddiley; Caswell, Evan; Morris, Ken; Terry Malone
Subject: RE: Friday Morning 29/10 - Technical Capability Meeting Reminder

Thanks. That sounds good to me.

From: James Charalambous [REDACTED]
Sent: Thursday, 28 October 2010 4:01 PM
To: John Tibaldi
Cc: Baddiley, Peter; Caswell, Evan; Morris, Ken
Subject: RE: Friday Morning 29/10 - Technical Capability Meeting Reminder

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Is that acceptable?

Regards
JamesC.

>>> "John Tibaldi" [REDACTED] > 28/10/2010 3:37 pm >>>
James

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Regards.

John Tibaldi
Dam Safety Manager
Queensland Bulk Water Supply Authority *trading as Seqwater*



[REDACTED]
Unit 1/ 68 Junction Road, Karalee QLD 4306
PO Box 2437, North Ipswich QLD 4305
Website | www.seqwater.com.au

From: James Charalambous [mailto:[REDACTED]]
Sent: Thursday, 28 October 2010 3:31 PM
To: Baddiley, Peter; Carroll, Don; Caswell, Evan; Charalambous, James; [REDACTED]; John Tibaldi; Morris, Ken; [REDACTED] Terry Malone
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Tuesday Morning 9th Nov.

From: James Charalambous [REDACTED]

To: [REDACTED]

Cc: "Baddiley, Peter" [REDACTED] >, "Caswell, Evan"

[REDACTED], "Morris, Ken" [REDACTED]

Date: Fri, 29 Oct 2010 14:09:50 +1000

Hi Jimmy,

Ken, Evan and myself are all free Tuesday morning, 9th November. I have booked our time from 8:30am to 12:30pm.

Looking forward to checking out the FWC.

Regards
JamesC.

Tuesday Morning 9th Nov.

From: James Charalambous [REDACTED]

To: [REDACTED]

Cc: "Baddiley, Peter" [REDACTED] >, "Caswell, Evan"

[REDACTED] "Morris, Ken" [REDACTED]

Date: Mon, 08 Nov 2010 10:19:42 +1000

Hi Jimmy,

Just checking we are still on for tomorrow?

Also we would like to bring an extra 1-2 additional persons, being the FIC assistant controllers who are available to attend at this time.

Regards

JamesC.

From: James Charalambous
To: Stuart, James
Date: Mon, Nov 8, 2010 1:35 pm
Subject: RE: Tuesday Morning 9th Nov. [SEC=UNCLASSIFIED]

Hi Jimmy,

Can confirm that there will be two additional persons Rob McGlinn and Chris Wilson (Assistant FIC Controllers).

With regards to the agenda we can spend the first session before morning tea going over the FWC; data, op. procedures and modelling.

In the second session we can discuss BOM/BCC forecasting in the event of a Lockyer/Bremer flooding event particularly in the light of the new protocols and TSR (technical situation report).

Regards
JamesC.

>>> James Stuart [REDACTED] > 8/11/2010 11:17:00 am >>>

Hi James,

we are indeed. Can you ask about and let me know asap if there's anything you guys want to specifically add into an agenda? i'll get one out shortly.

9am - come earlier to grab a coffee if you want.

cheers,
Jimmy

From: James Charalambous [REDACTED]
Sent: Monday, 8 November 2010 10:20 AM
To: James Stuart
Cc: Peter Baddiley; Caswell, Evan; Morris, Ken
Subject: Tuesday Morning 9th Nov.

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Regards
JamesC.

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CC: Caswell, Evan; McGlinn, Robert; Morris, Ken; Wilson, Chris

From: James Stuart [REDACTED]
To: [REDACTED]
Date: Tue, Nov 9, 2010
Time: 8:45 am - 12:45 pm
Subject: Brisbane River [SEC=UNCLASSIFIED]
Place: FWC Level 21 69 Ann street

When: Tuesday, 9 November 2010 8:45 AM-12:45 PM (GMT+10:00) Brisbane.
 Where: FWC Level 21 69 Ann street

~~*~*~*~*~*~*~*~*

Hi all,

The next meeting will be at the Bureau, 69 Ann street. Focus will be on registered users site in the Flood Warning Centre.

Morning tea and lunch will be provided. We'll kick off around 9am.

Cheers,
Jimmy

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 Please direct all enquiries to the message author.

From: "John Tibaldi" [redacted]
To: [redacted]
Date: Thu, Nov 11, 2010 11:00 am
Subject: Agenda for today's meeting

The agenda for today's meeting is attached. The main aim of the meeting is to provide a thorough overview of the developed FEWS configuration for managing the dam flood operations. If you would like any items added to the agenda, please let me know.

John Tibaldi
Dam Safety Manager
Queensland Bulk Water Supply Authority trading as Seqwater



Unit 1/ 68 Junction Road, Karalee QLD 4306
PO Box 2437, North Ipswich QLD 4305

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

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**FLOOD MODELING AND FLOOD OPERATIONS EXPERT PANEL
WIVENHOE, SOMERSET AND NORTH PINE DAMS
FEWS IMPLEMENTATION**

Agenda

Date: Thursday, 11 November 2010
Time: 1.30pm – 4.30pm
Place: Large Training Room, Level 5 - 240 Margaret Street

Invitees: John Tibaldi (Chair), Terry Malone, Rob Ayre, Peter Allen, John Ruffini, Ken Morris, Peter Baddiley, Jimmy Stuart, Martin Ebel, Alex Minett, Iliass el Hadouchi.

Apologies: Rob Drury, Barton Maher, Jim Pruss.

Meeting No. 6

	Agenda Item	Discussion Format	Presenter
1	Introduction	Discussion	John Tibaldi
2	FEWS Overview	Presentation	Martin Ebel
3	Seqwater Data Sources	Discussion	Terry Malone
	FEWS Data Displays	Demonstration	Martin Ebel
5	Afternoon Tea at around 3:00pm.		
6	Models	Discussion	Terry Malone
7	FEWS Modeling	Demonstration	Alex Minett
8	FEWS Features	Demonstration	Martin Ebel
9	Next steps in the development and evaluation process	Discussion	John Tibaldi
10	Other Business	General discussion	All
	MEETING CLOSURE		

Brisbane City Gauge (water level) [SEC=UNCLASSIFIED]

From: Peter Baddiley [REDACTED]
To: "Caswell, Evan" [REDACTED], "Carroll, Don"
Cc: "Morris, Ken" [REDACTED], James Charalambous
[REDACTED], Terry
Malone [REDACTED]
Date: Fri, 12 Nov 2010 09:08:39 +1000

Evan

cc Terry Malone, Seqwater

Further to our recent discussions on the Brisbane City gauge (water level), I thought it would be useful to summarise the current status and possible actions:

1. Background

There are two sites which provide water level readings as follows:

Brisbane City TM (where TM indicates telemeter)

- * Bureau number 040690; AWRC No 143919
- * Longterm historical reference gauge site (site of Port Office readings for historical floods)
- * Equipment located at bottom end of Edward Street in Stamford Plaza
- * Gauge zero is 0.0m AHD
- * Fully owned & operated by Maritime Safety Qld (no involvement of BoM, BCC or Seqwater)
- * Sensor is gas bubbler (I think) and Mace logger (should be relatively accurate at tide/low stage; accuracy over flood range/high stage not known)
- * Relies on telephone communication, with polling by BoM
- * No known staff gauges for manual check readings (although MSQ may have a low level water/tide board)

Brisbane City AL (where AL indicates ALERT)

- * Bureau number 540198; AWRC No 143838
- * Established June 1992
- * Equipment located in CT White Park, bottom end of Scott Street, near Thornton St ferry
- * Gauge zero is 0.0m AHD
- * ALERT equipment fully owned & operated by Seqwater (with some maintenance subcontracted to DMR Roadtek)
- * Sensor is wet pressure transmitter (I think) and ALERT equipment (calibration accuracy over range not known - need Seqwater to comment)
- * Relies on ALERT VHF radio comms
- * BoM installed staff gauges, range 2-11 metres, at Thornton St ferry and in park.

2. Current status

Brisbane City TM

- * Fully functional but relies on MSQ

* Some comment from MSQ in the past that they may wish to discontinue this site. BoM would presumably offer to own/maintain in this case. BoM will followup with MSQ.

* BoM may explore options to install ALERT equipment at this site but this will not be in place for this summer. There would probably be difficulties locating an antenna and securing a radio path.

Brisbane City AL

* Seqwater currently arranging maintenance for damage sustained to sensor line. (Still operating, but reading about 0.3m too high.)

* Manual 4-5m gauge board is missing. BoM will arrange replacement asap.

3. Issues and action for BCC consideration

3.1 Neither station has known accuracy at high stage. BoM will make enquiries with MSQ re Brisbane City TM. Seqwater may be able to provide calibration report for Brisbane City AL.

3.2 There is likely to be a difference in readings from the two sites, especially at high stage due to their cross-bank positioning (flood slope, super-elevation etc). If the difference is significant, during a flood, BoM, BCC and Seqwater will need to decide on which readings are to be given to the public, either both or restricted to one site.

3.3 Check manual readings will need to be taken from the Brisbane City AL staff gauges during a flood. At this stage, this can only be done for floods exceeding 2 metres, although maybe Seqwater have installed a water/tide board?. BCC may wish to have the ability to take lower readings (less than 2 metres) ? In any case, BoM would seek BCC assistance to undertake regular check readings during a flood.

3.4 I believe there is a need for some form of manual flood level readings, especially for high stage, at the Port Office site, for the purposes of accuracy check of the MSQ gauge and for redundancy should the automatic equipment or phone line fail. I think BCC would be the agency to undertake manual readings.

In the 1970s and 1980s, there were staff gauges (one metre gauge boards) along Edward Street back towards the city to allow for manual readings to be easily taken during floods. These no longer exist. BCC should consider reinstating some form of staff gauges, or alternatively, have clear procedures/bench marks in place for surveyors to quickly take readings during floods.

3.5 Rationalisation of the ownership & operation/maintenance of these stations needs to be discussed between BoM/BCC/Seqwater/MSQ but existing arrangements are unlikely to change for this wet season.

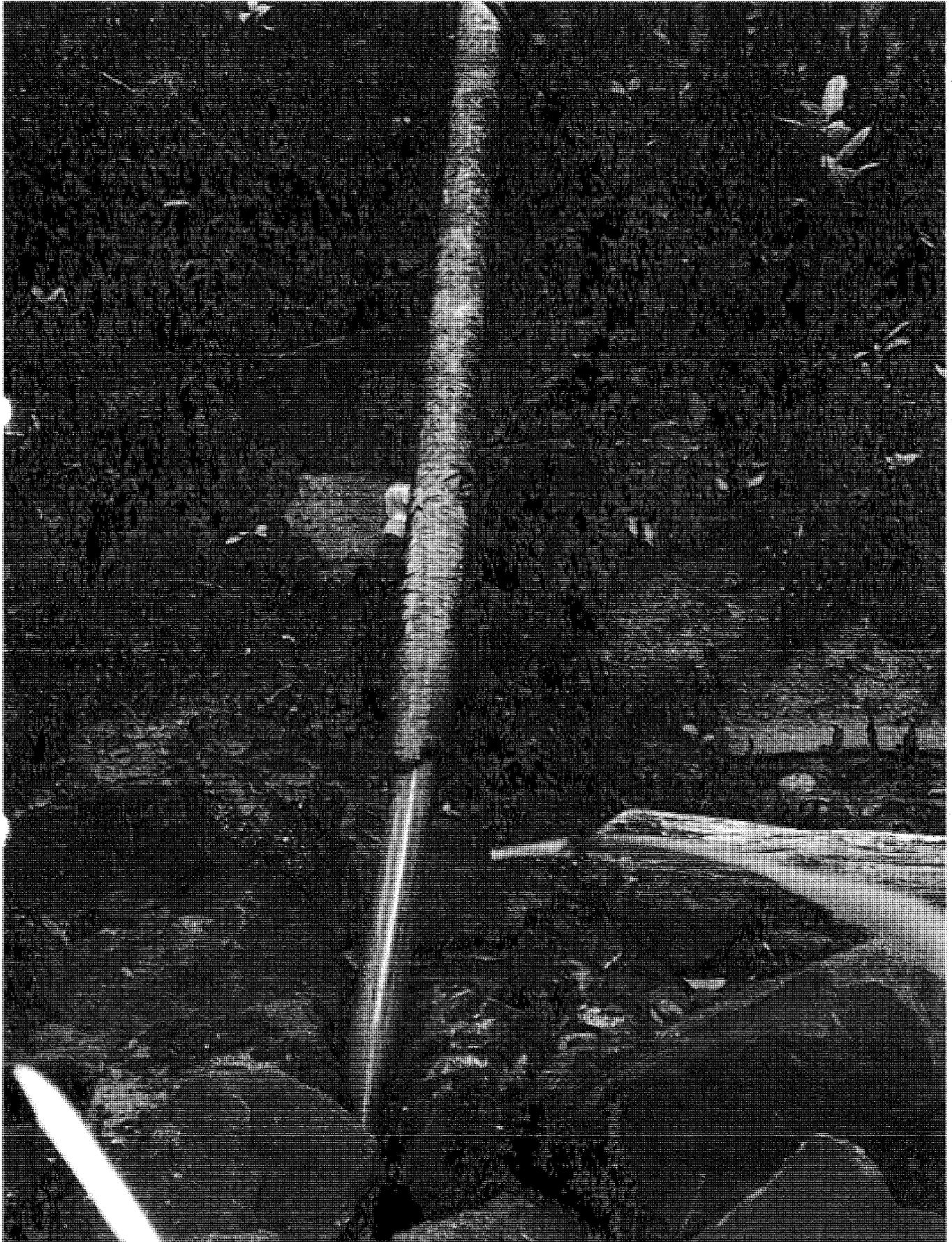
Happy to clarify further as needed.

Regards, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

EMAIL [REDACTED]
WWW : www.bom.gov.au

This message has passed through an insecure network.
Please direct all enquiries to the message author.



RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

From: Terry Malone <[REDACTED]>
To: Peter Baddiley [REDACTED], Chris Edhouse [REDACTED], James Stuart [REDACTED], Russell Denton [REDACTED], Ian Rocca [REDACTED], David Woodman [REDACTED]
Cc: [REDACTED]
Date: Tue, 16 Nov 2010 10:28:41 +1000

Peter

At the same time is it worth trying to install a 1-2 metre board somewhere?

Our guys will be visiting the ALERT site in the next couple of days to fix the corroded pipe.

Cheers

Terry

From: Peter Baddiley [mailto:[REDACTED]]
Sent: Tuesday, 16 November 2010 10:02 AM
To: Chris Edhouse; James Stuart; Russell Denton; Ian Rocca; David Woodman
Cc: [REDACTED]; Terry Malone; [REDACTED]
Subject: RE: Thornton St gauge boards [SEC=UNCLASSIFIED]
Importance: High

Evan

Would BCC please confirm that approval is given for the Bureau to re-install the 4-5m flood gauge approx 1 metre away from the cycle/pedestrian pathway as per the attached photo & mud map to the previous email.

I was not sure if there are any restrictions re objects near the pathway - but from the photos there is adjacent trees etc so I assume there is no problem with placing the 4-5m flood gauge as proposed.

Once BCC approval is given, BoM will go ahead. I'd like this to be completed as soon as possible.

Thanks, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

WWW : www.bom.gov.au

From: Chris Edhouse
Sent: Tuesday, 16 November 2010 9:50 AM
To: Peter Baddiley; James Stuart; Russell Denton; Ian Rocca; David Woodman
Cc: [REDACTED]; 'Terry Malone'
Subject: RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

Peter,

Following a site visit by Russell and myself yesterday, it may be possible to install the 4-5m. board in line with the 5-11m. boards.

The suggested position would be on the river side, and approximately, 1 metre away from the cycle/pedestrian pathway. (see attached photo & mud map.)

The RL at ground level is 3.60m. gauge datum. If this site is found to be suitable by BCC, it would be possible to recover and install the 4-5 m. board currently lying in the mangroves.

Chris

From: Peter Baddiley
Sent: Monday, 15 November 2010 09:14
To: James Stuart; Russell Denton; Ian Rocca; David Woodman; Chris Edhouse
Cc: [REDACTED] 'Terry Malone'
Subject: RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

That is good news, I think :- (Jimmy has confirmed that the 4-5m gauge is still lying in the mud on the river bank.

Would whoever of the Techs is available please do a site visit this week & assess options ... could be that a quick survey confirms or otherwise that the 4-5m gauge would need to go back near the bike path.

(The suspicion is that the 4-5m staff gauge was in the way of the bike path when it was constructed last year & the gauge was just removed & "placed" in the mangroves!)

If it does need to be re-installed near the bike path, we would need to involve BCC as I am sure there would be restrictions on its placement.

Tks, peter

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001
[REDACTED] [REDACTED]

EMA [REDACTED]
WWW : www.bom.gov.au

From: James Stuart
Sent: Monday, 15 November 2010 8:15 AM
To: Russell Denton; Ian Rocca; David Woodman; Chris Edhouse
Cc: Peter Baddiley
Subject: Thornton St gauge boards [SEC=UNCLASSIFIED]

Hi guys,

The 4-5 gauge board is still lying in the mud at Thornton Street..

cheers,

jimmy

-----Safe Stamp-----
Your Anti-virus Service scanned this email. It is safe from known viruses.
For more information regarding this service, please contact your service
provider.

Important information: This email and any attached information is intended only for the addressee and may contain confidential and/or privileged information. If you are not the addressee, you are notified that any transmission, distribution, or other use of this information is strictly prohibited. The confidentiality attached to this email is not waived, lost or destroyed by reasons of mistaken delivery to you. If you have received this email in error please contact the sender immediately and delete the material from your email system. QLD Bulk Water Supply Authority ABN75450239876 (Trading as Seqwater).

This message has passed through an insecure network.
Please direct all enquiries to the message author.

Fwd: FEWS Documents

From: James Charalambous [REDACTED]
To: "Caswell, Evan" [REDACTED], "Morris, Ken"
Cc: "Carroll, Don" [REDACTED]
Date: Wed, 17 Nov 2010 08:12:26 +1000

FYI.

>>> "Terry Malone" [REDACTED] > 16/11/2010 7:24 am >>>

James

Meant to give you some FEWS info yesterday – you can download some info from our ftp site

<ftp://ftp.seqwater.com.au/FEWSdocuments.zip>

Cheers

Terry Malone

Principal Hydrologist

Queensland Bulk Water Supply Authority *trading as* Seqwater

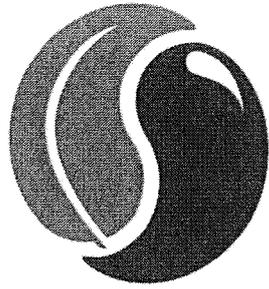


Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002

[REDACTED]

Important information: This email and any attached information is intended only for the addressee and may contain confidential and/or privileged information. If you are not the addressee, you are notified that any transmission, distribution, or other use of this information is strictly prohibited. The confidentiality attached to this email is not waived, lost or destroyed by reasons of mistaken delivery to you. If you have received this email in error please contact the sender immediately and delete the material from your email system. QLD Bulk Water Supply Authority ABN75450239876 (Trading as Seqwater).

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Please direct all enquiries to the message author.



seqwater
WATER FOR LIFE

Seqwater FTP Server Access

Instructions for Seqwater Staff and External users

Contents

- 1. Document Control..... 3
- 2. Introduction 4
- 3. Adding Files to the FTP Server while at Seqwater 4
- 4. Retrieving a File from the FTP server while at Seqwater..... 8
- 5. Retrieving a File from the Seqwater FTP server from outside the Seqwater Network 11
- 6. Adding a File to the FTP Server from outside the Seqwater Network..... 14

1. Document Control

Document	FTP Access for Staff and External Users
Prepared By	Denis Markwell
Document first created	12 Nov. 09
Current Revision	1.2

Revision No	Date Issued	Reason for Issue	Distributed to
1.1	24 March 2010	Review by DN	DM
1.2	26 March 2010	Release	Seqwater Staff

2. Introduction

Seqwater ICT group has implemented an FTP server within the Seqwater network to allow staff to exchange large documents/data with people outside the organisation.

This document outlines step by step procedures how to upload and download from the FTP server for internal users and external users.

Please Note: The FTP server is accessed differently for Seqwater staff and external users.

3. Adding Files to the FTP Server while at Seqwater

Seqwater Staff Only

This procedure is for Seqwater staff who wish to add files to the FTP server from within the Seqwater network.

In your web browser, open the following address [REDACTED]

Internal Access (Seqwater Staff Only)

Username [REDACTED]

Password: [REDACTED]

When the page loads you will be presented with the logon page. The username is [REDACTED] and the password is [REDACTED]. See figure 1 below.

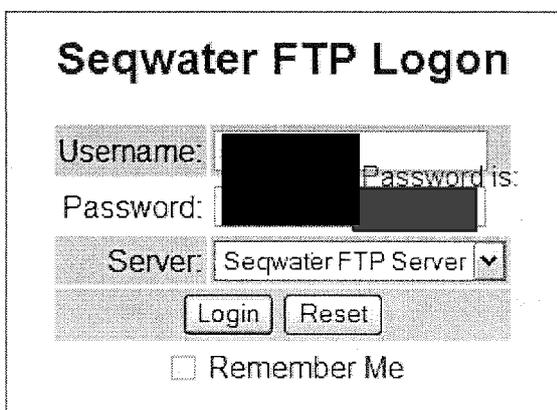


Figure 1 - FTP Logon Screen

After successfully logging on you will be presented with the default page for the ftp site, here you can manage files and add new files. See figure 2.

Adding Files to the FTP Server

To add files to the FTP server, click on the 'Browse' button (Figure 2).

Browse to the local or network drive and folder to find the file you wish to add to the FTP server (Figure 3).

Once the file has been located, select the file and click on open and then click Upload (Figure 4).

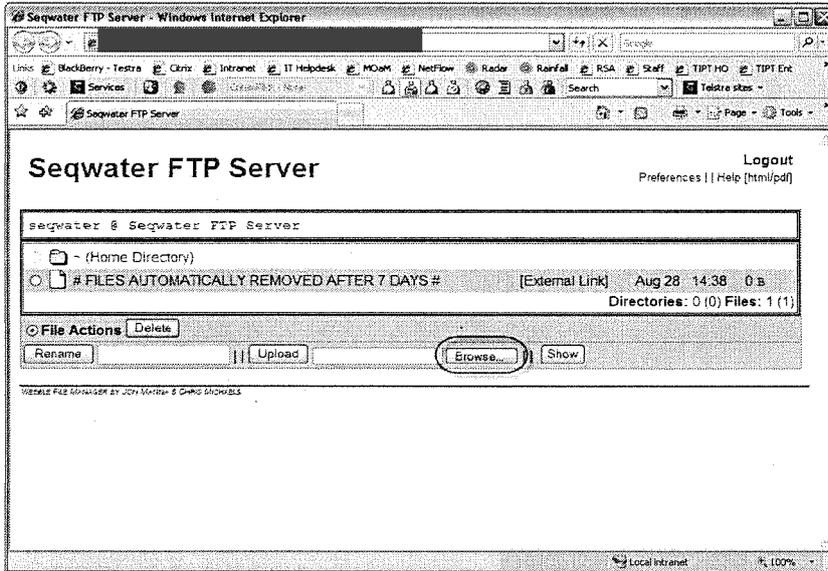


Figure 2 - FTP Web site default view

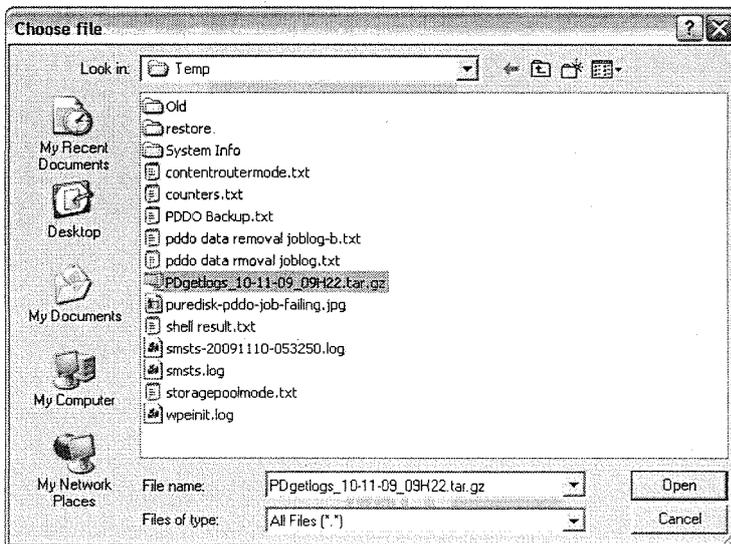


Figure 3 - Choose file to upload

Once you have located the file you wish to add to the FTP server, click the Open button.

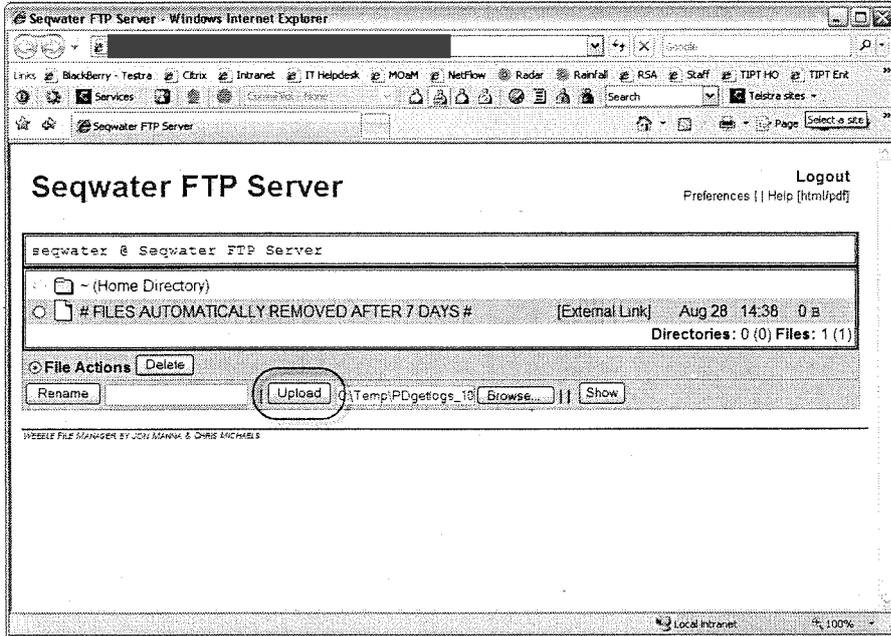


Figure 4 – Click the Upload to finalise the file transfer to the FTP server

The upload duration will depend on the size of the file. Please expect the upload to take at least a few minutes. Once the upload is complete, the file will appear in the FTP server file listing.

Figure 5 shows the newly uploaded file.

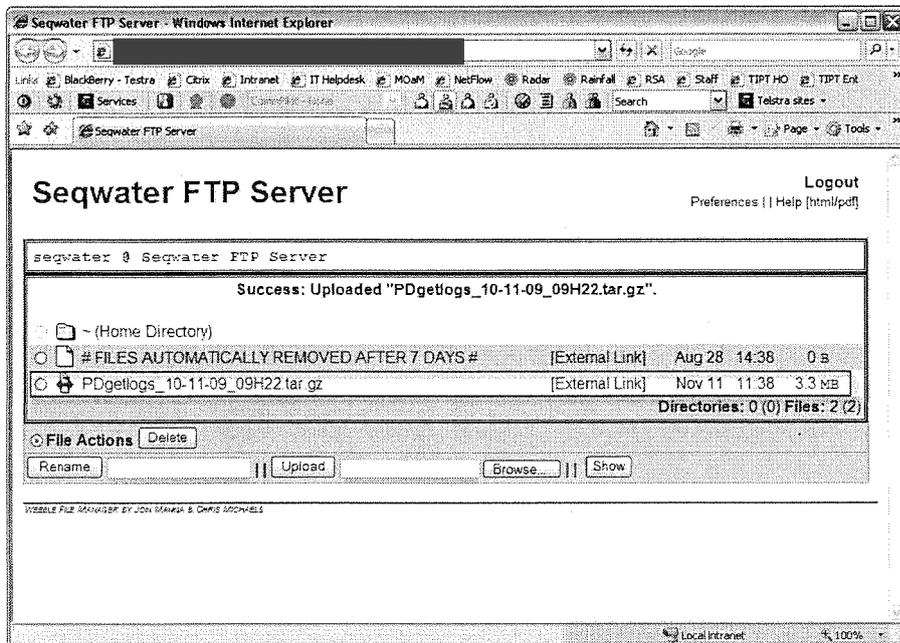


Figure 5 - Newly added file.

After the file has been added to the FTP server you will need inform the external user of the path to retrieve the file.

You will need to get the web address by **'right' mouse clicking the text** that says **'External Link'** and then choose **'Copy Shortcut'** from the menu. Please make sure you have selected the right file before you copy the shortcut.

Figure 6 shows the newly added file highlighted and the user right clicking and about to select **Copy Shortcut**.

After the shortcut has been copied you can open up a new email message and paste the address in the body.

The external link will look similar to: [REDACTED]

Fill in the email address and add any extra information the user may need (see below)

Seqwater FTP server address: [REDACTED]

Username: [REDACTED]

Password: [REDACTED]

Figure 7 shows the shortcut to the file which has just been pasted into a new email.

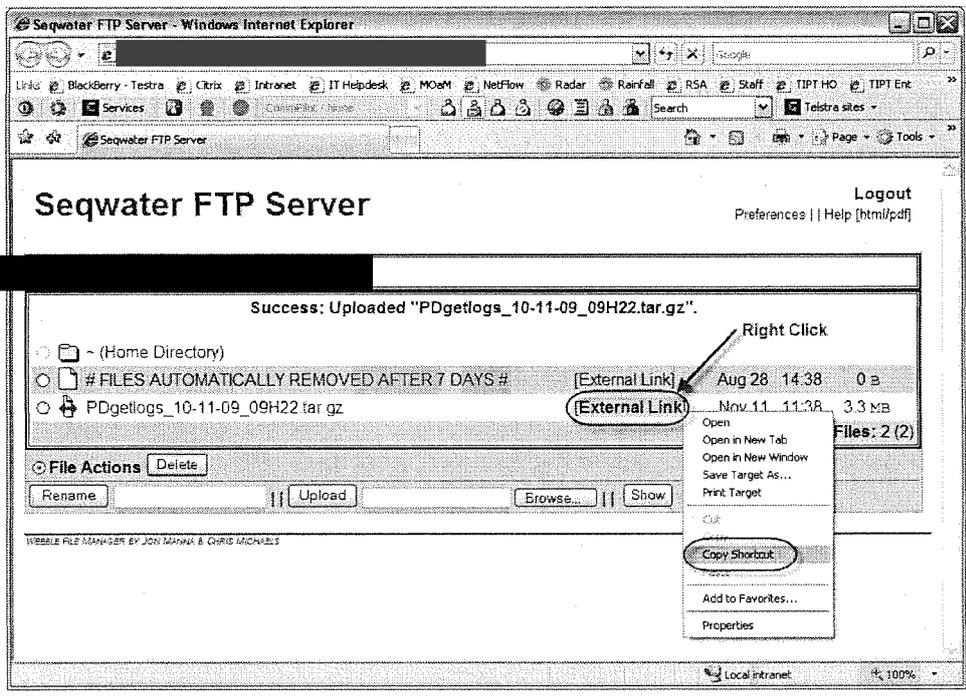


Figure 6 - Copy Shortcut

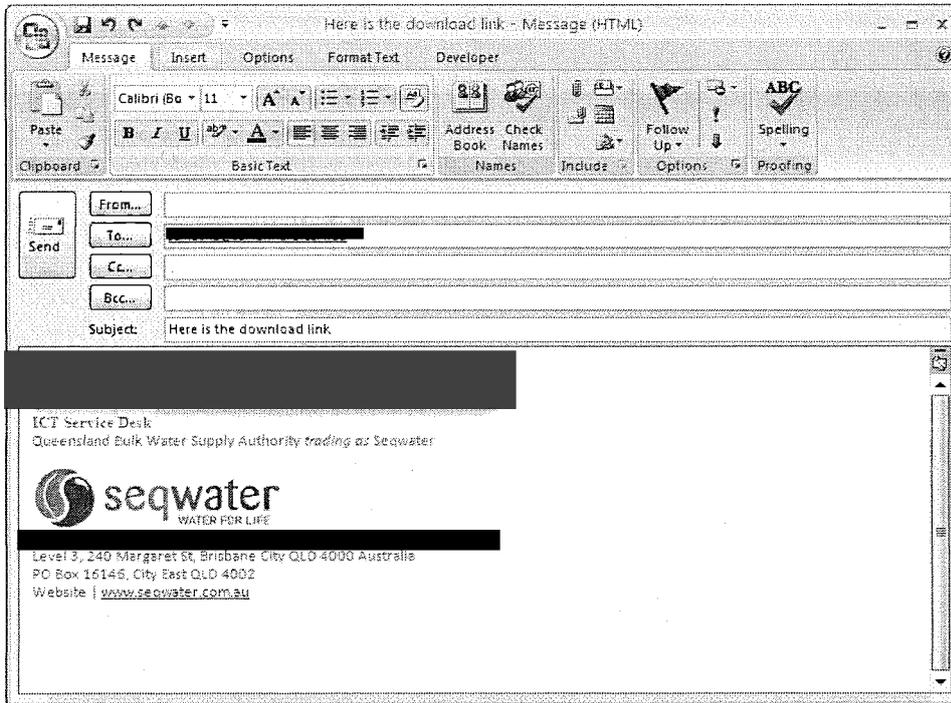


Figure 7 - Download shortcut that's been added to a new email message

4. Retrieving a File from the FTP server while at Seqwater Seqwater Staff Only

This procedure is for Seqwater staff who wish to retrieve files from the FTP server from within the Seqwater network.

In your web browser go to the following address [REDACTED]

When the page loads up you will be presented with the logon page.

The username is [REDACTED] and the password is [REDACTED]

Seqwater FTP Logon

Username: Password is:
 Password:
 Server: Seqwater FTP Server v

 Remember Me

Figure 8 - FTP Logon Screen

After successfully logging on you will be presented with the default home page of the ftp site. Here you can manage files, add new files and download recently added files.

Please note, files uploaded by external clients will appear in the **external** folder. Navigate to the **external** folder to access files which have been uploaded by external clients.

Seqwater FTP Server

[Logout](#)
[Preferences](#) || [Help \[html/pdf\]](#)

seqwater @ Seqwater FTP Server

~ (Home Directory)				
<input type="radio"/>	<input type="checkbox"/> external		Mar 24	13:52 0 B
<input type="radio"/>	# FILES AUTOMATICALLY REMOVED AFTER 7 DAYS #	[External Link]	Aug 28	2009 0 B
<input type="radio"/>	470_b059_english_nomediamanager.exe	[External Link]	Mar 22	15:13 80.1 MB
<input type="radio"/>	IBM ServerGuide 8.1.01.iso	[External Link]	Mar 22	10:58 589.3 MB
<input type="radio"/>	INFORM Staff Bulletin 081209.pdf	[External Link]	Mar 24	13:04 866.2 KB
<input type="radio"/>	iTunesSetup7.2.exe	[External Link]	Mar 22	18:33 36.3 MB
<input type="radio"/>	Manage Engine Netflow.pdf	[External Link]	Mar 23	15:14 68.7 KB
<input type="radio"/>	Webcasts5.rar	[External Link]	Mar 23	9:34 683.3 MB
<input type="radio"/>	XenAppStreaming.exe	[External Link]	Mar 22	10:48 9.7 MB
Directories: 1 (1) Files: 8 (8)				

File Actions

|| || ||

WIZBEE FILE MANAGER BY JON MANNIA & CHRIS MICHAELS

Figure 9 - Default FTP Web view

To download the files, click on the file name on the left column.

After you click on the link, a dialog similar to figure 20 will prompt you to either open or save the file. You should **always choose to save the file** to either your local drive or your group drive on the network.

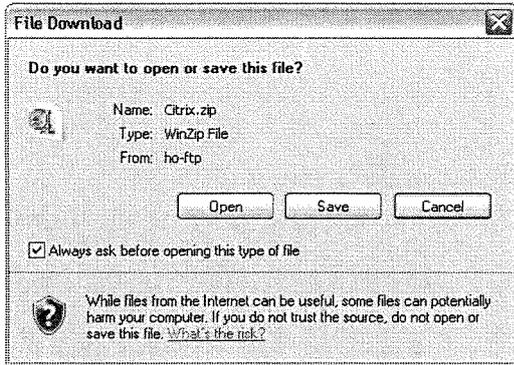


Figure 10 - File Download dialog

Choose where you wish to save the file and then lick the “Save” button as shown in figure 22. The download will not take long and once it’s finished you will see a dialog box similar to figure 23 informing you that the download has completed.

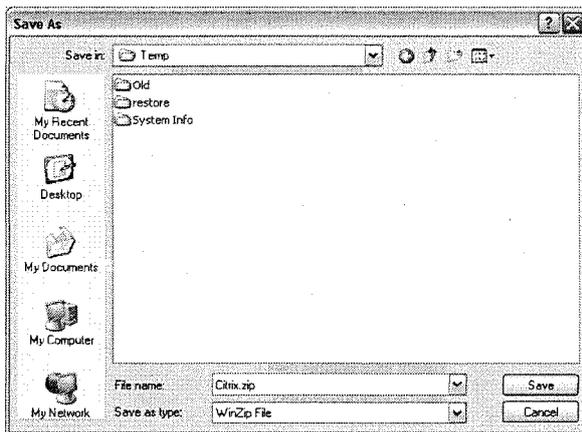


Figure 11 - Choose a location to save the file

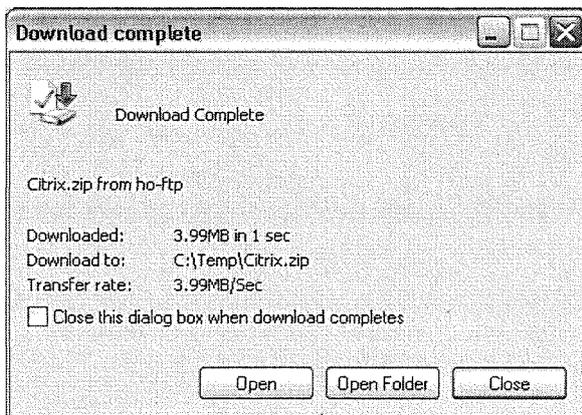


Figure 12 - Download complete - now you can access the file

5. Retrieving a file from the Seqwater FTP server from outside the Seqwater Network

Non Seqwater Users

This procedure used by non-Seqwater users to retrieve files from the Seqwater FTP server from outside the Seqwater network.

Assumptions:

1. That an Seqwater staff member has sent an email containing a link to the FTP file to an external party. See the above section - *Adding Files to the FTP Server while at Seqwater.*
2. Internet access and inbound FTP is permitted to the external user's desktop.

When you are ready to download the file, click on the link that was emailed to you. See Figure 8

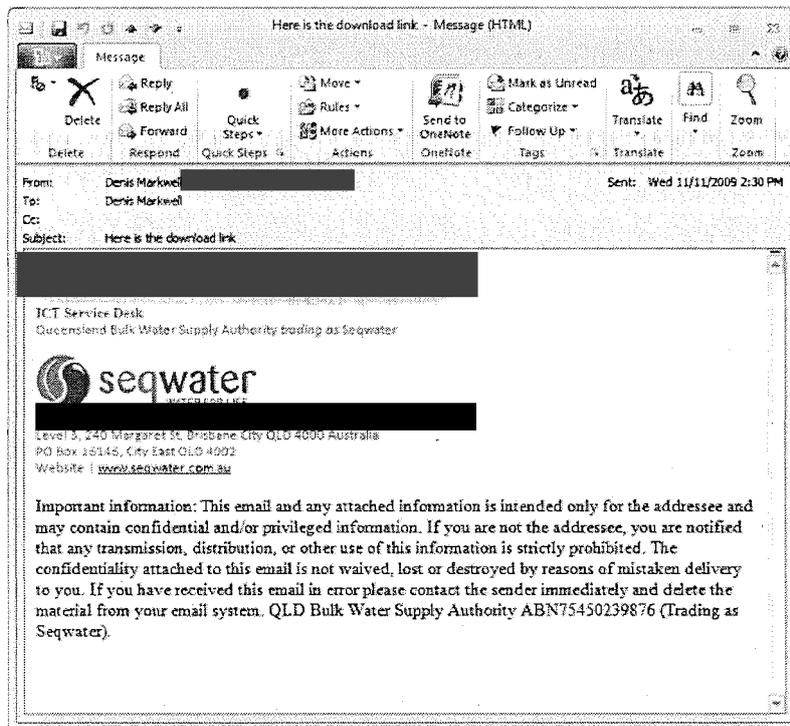


Figure 13 - Email from Seqwater with a link to the file

After clicking on the file link, your web browser will connect and attempt the download the file. The web browser will display an authentication dialog similar to the one displayed in figure 8. The username is [redacted] and the password is [redacted]. The anonymous logon option is to be left unchecked.

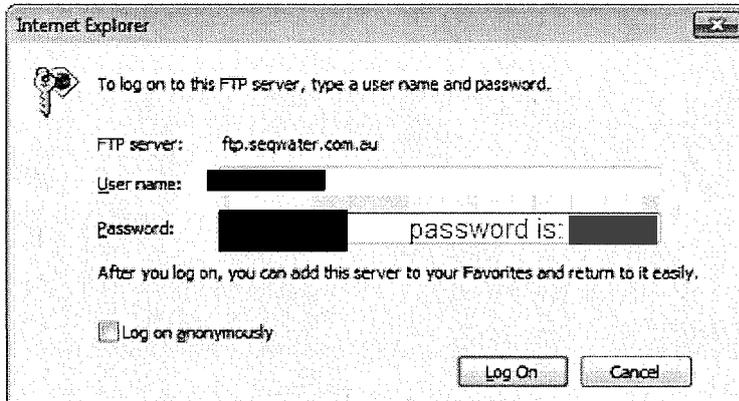


Figure 14 - FTP authentication dialog (Internet Explorer 8 in Windows 7 shown)

After successfully authenticating the download will start and you will be prompted to either open or save the file. It is **always recommended to save the file**. Opening the file directly from the FTP server is likely to lead to unpredictable results.

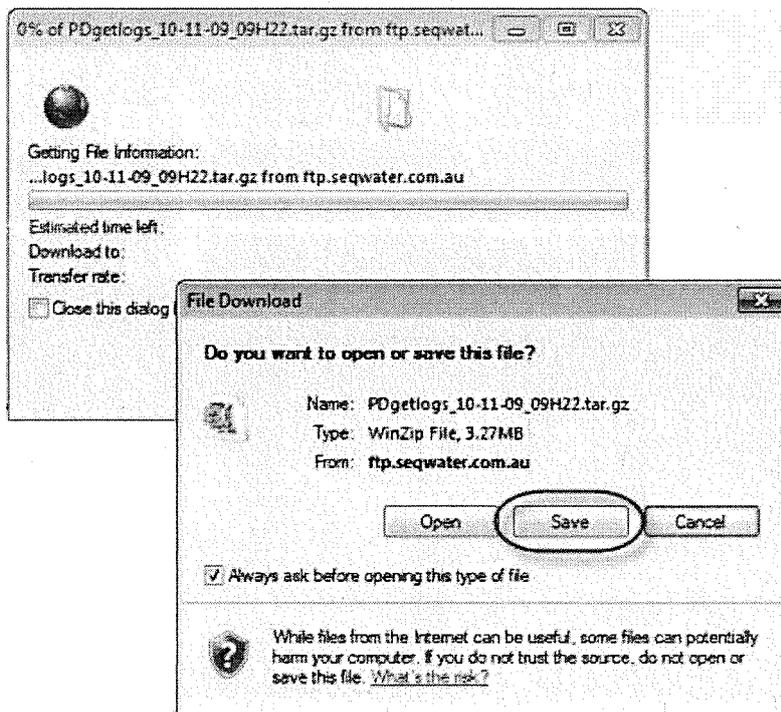


Figure 15 - Prompt to open or save the file

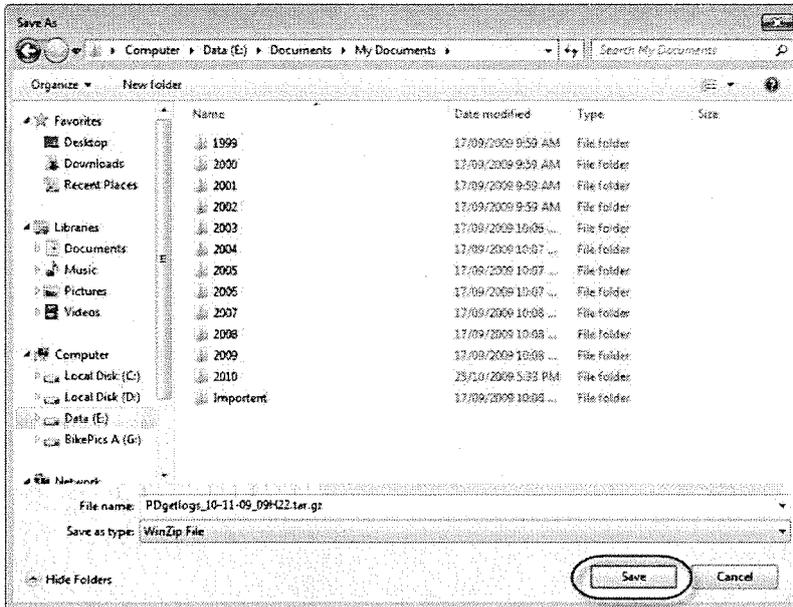


Figure 16- Save as dialog box

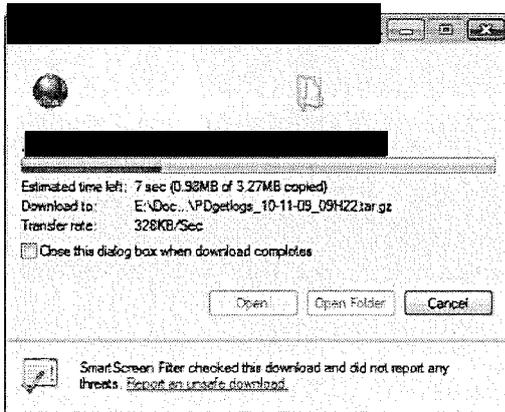


Figure 17 - File download progress

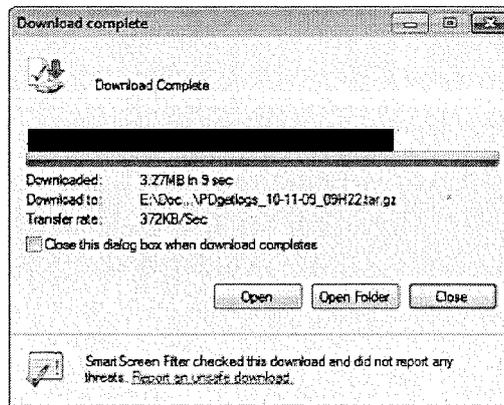


Figure 18 - Download complete dialog

6. Adding a File to the FTP Server from outside the Seqwater Network

External Client Upload Procedure

This procedure used by non-Seqwater users to upload files to the Seqwater FTP server from outside the Seqwater network.

To upload files to the Seqwater FTP server you will need to use an FTP Client. If you require an FTP client, there are many free FTP programs available from the Internet. Seqwater is unable to recommend any specific FTP clients.

If you are situated on a corporate network, you may wish to confirm with your network administrator whether there is an FTP client available or if your network has any restrictions on the use of FTP.

Most home and small business users should have no connection problems.

External clients wishing to upload files to the Seqwater FTP server should connect to the following FTP host using the credentials as indicated below.

FTP Host: [REDACTED]
Username: [REDACTED]
Password: [REDACTED]
Port: [REDACTED]

Once connected to the Seqwater FTP server, an error message or warning may appear. This is expected and only indicates that the FTP client is unable to retrieve the directory listing. (see figure 16).

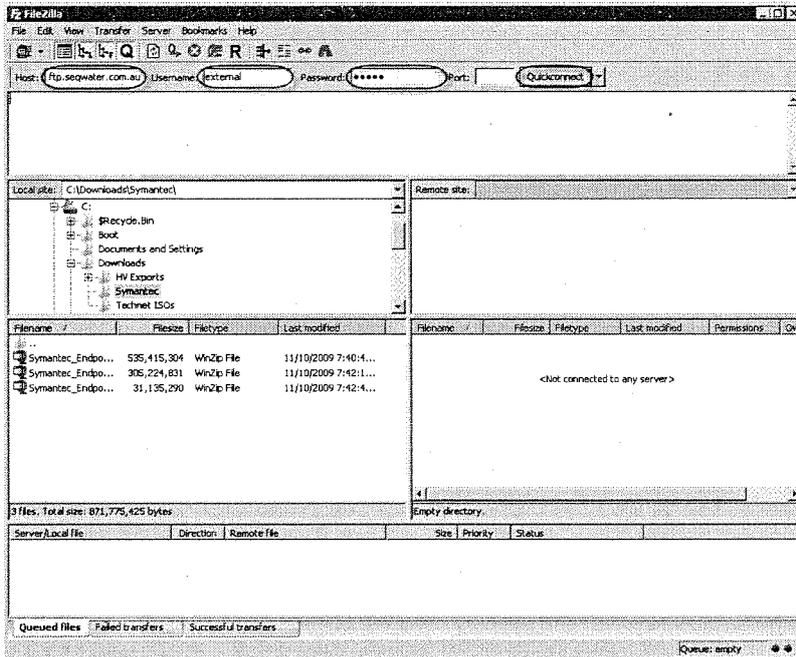


Figure 19 – FTP client with host information ready to connect

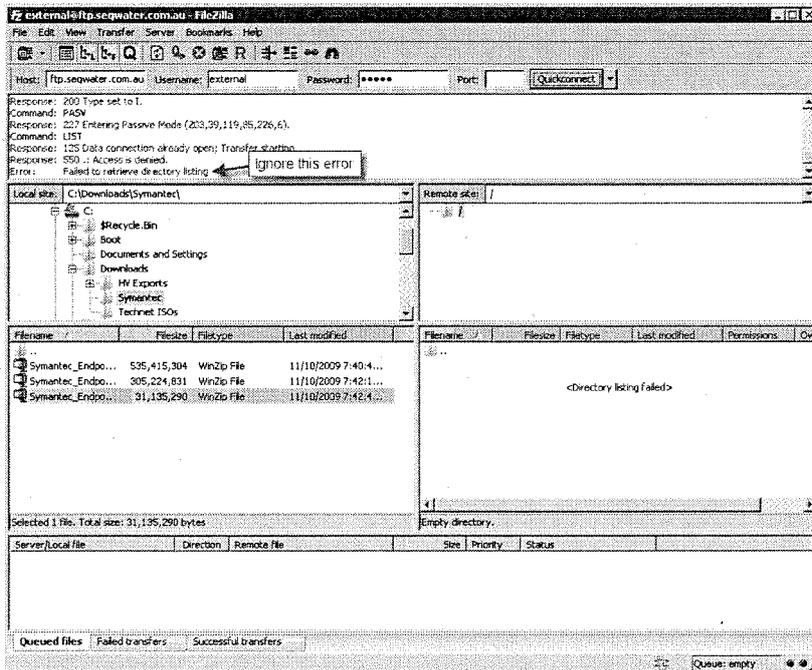


Figure 20 - Display after connecting

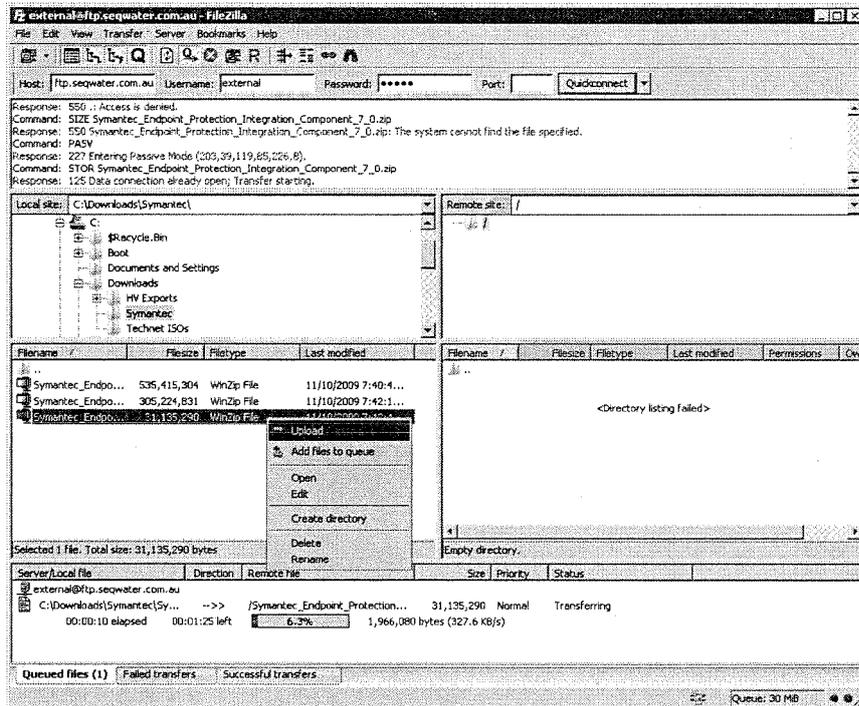


Figure 21 - find a file to upload

After you have connected to the Seqwater FTP server, browse the area in your computer to locate the file you wish to upload. Once you have located the file, highlight it and choose “Uplöad”. (See Figure 17).

Usually the FTP client will display the progress of the upload.

After the upload has finished you should inform your contact at Seqwater of the name of the file that was uploaded to the Seqwater FTP server so they can retrieve it from the **external** folder on FTP server.

RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

From: Peter Baddiley [REDACTED]
To: Evan Caswell [REDACTED]
Cc: James Charalambous [REDACTED], Ken Morris [REDACTED],
[REDACTED] v.au, Carolyn Ellis Mallard [REDACTED],
Terry Malone [REDACTED]
Date: Tue, 23 Nov 2010 09:20:48 +1000

Thanks Evan.

Passed email on to our Techs/Hydrographers who will arrange to replace the 4-5m gauge board & hopefully install an additional 1-2m gauge on the pontoon structure. Hopefully the approval process is not going to be too onerous and time-consuming.

Also passed email to Carolyn at Seqwater.

Following this work and Seqwater's recent activities, we should be as ready as we can be on the Thornton St ALERT site, at least for this wet season.

I think both the Bureau and Seqwater are likely to be interested in handing over this site to BCC for a major upgrade (new instrumentation using industry standard gas bubbler/air pump/dry pressure transmitter) and for BCC to maintain the manual/staff gauges. This is for discussion in the months ahead, along with Seqwater's proposal to rationalise the total Brisbane Valley flood warning network.

Regards, peter

Peter Baddiley

Regional Hydrology Manager

Climate & Water Division

Bureau of Meteorology

Level 21, 69 Ann Street

GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

Phone: [REDACTED]

EMAIL: [REDACTED]

WWW : www.bom.gov.au

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

From: Evan Caswell [REDACTED]

Sent: Monday, 22 November 2010 2:26 PM

To: Peter Baddiley

Cc: James Charalambous; Ken Morris

Subject: RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

Peter,

I have spoken to my counterparts in Local Asset Services and Active Transport (bikeways). There is apparently a form to be submitted for closing the bikeway if required (attached). You can contact John Lee who is mentioned on the form if any queries. I also found in our system a vehicle access permit should you need to have a vehicle enter the parkland area. But before filling that one in it would be best to send an email to Glen Diskin

[REDACTED] re any requirements the BCC parks people might have for works in the park area.

The 1 metre setback from the bikeway for the replacement gauge boards will be sufficient (according to my sources).

Also, in relation to any work in the River and mangroves, the relevant State Gov permits will be required.

I have made mention of the request for gauge boards in Edward Street to my friends up town but will follow them up again re this

Regards,

Evan Caswell

Product Manager Flood Management

Water and Environment

CITY DESIGN

phone

fax

email

>>> Peter Baddiley [REDACTED] 16/11/2010 10:02 >>>

Evan

Would BCC please confirm that approval is given for the Bureau to re-install the 4-5m flood gauge approx 1 metre away from the cycle/pedestrian pathway as per the attached photo & mud map to the previous email.

I was not sure if there are any restrictions re objects near the pathway - but from the photos there is adjacent trees etc so I assume there is no problem with placing the 4-5m flood gauge as proposed.

Once BCC approval is given, BoM will go ahead. I'd like this to be completed as soon as possible.

Thanks, peter

Peter Baddiley

Regional Hydrology Manager

Climate & Water Division

Bureau of Meteorology

Level 21, 69 Ann Street

GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

Phone:

EMAIL

WWW : www.bom.gov.au<<http://www.bom.gov.au/>>

From: Chris Edhouse

Sent: Tuesday, 16 November 2010 9:50 AM

To: Peter Baddiley; James Stuart; Russell Denton; Ian Rocca; David Woodman

Cc: [REDACTED] 'Terry Malone'

Subject: RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

Peter,

Following a site visit by Russell and myself yesterday, it may be possible to install the 4-5m. board in line with the 5-11m. boards.

The suggested position would be on the river side, and approximately, 1 metre away from the cycle/pedestrian pathway. (see attached photo & mud map.)

The RL at ground level is 3.60m. gauge datum. If this site is found to be suitable by BCC, it would be possible to recover and install the 4-5 m. board currently lying in the mangroves.

Chris

From: Peter Baddiley

Sent: Monday, 15 November 2010 09:14

To: James Stuart; Russell Denton; Ian Rocca; David Woodman; Chris Edhouse

Cc: [REDACTED] 'Terry Malone'

Subject: RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

That is good news, I think :- (Jimmy has confirmed that the 4-5m gauge is still lying in the mud on the river bank.

Would whoever of the Techs is available please do a site visit this week & assess options ... could be that a quick survey confirms or otherwise that the 4-5m gauge would need to go back near the bike path.

(The suspicion is that the 4-5m staff gauge was in the way of the bike path when it was constructed last year & the gauge was just removed & "placed" in the mangroves!)

If it does need to be re-installed near the bike path, we would need to involve BCC as I am sure there would be restrictions on its placement.

Tks, peter

Peter Baddiley

Regional Hydrology Manager

Climate & Water Division

Bureau of Meteorology

Level 21, 69 Ann Street

GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

Phone:

EMAIL

WWW : www.bom.gov.au<<http://www.bom.gov.au/>>

From: James Stuart

Sent: Monday, 15 November 2010 8:15 AM

To: Russell Denton; Ian Rocca; David Woodman; Chris Edhouse

Cc: Peter Baddiley

Subject: Thornton St gauge boards [SEC=UNCLASSIFIED]

Hi guys,

The 4-5 gauge board is still lying in the mud at Thornton Street..

cheers,

jimmy

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Please direct all enquiries to the message author.

Santina Pennisi - Wivenhoe Releases

From: "Duty Engineer" [REDACTED]
To: [REDACTED]
Date: 13/12/2010 1:44:33 pm
Subject: Wivenhoe Releases

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

Santina Pennisi - Wivenhoe Releases

From: "Duty Engineer" [REDACTED]

To: [REDACTED]

Date: 14/12/2010 5:49:12 am

Subject: Wivenhoe Releases

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Duty Engineer
Flood Operations Centre

Phone

Fax:

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

Re: FEWS

From: James Charalambous [REDACTED]
To: "Ebel, Martin" [REDACTED]
Cc: "Caswell, Evan" [REDACTED] "Morris, Ken"
Date: Thu, 16 Dec 2010 16:07:47 +1000

Hi Martin,

Yes we would appreciate some further information.

I spoke to Terry Malone the other day and he mentioned we could potentially use FEWS in the context of a creek flood forecasting system using Access B BOM forecasts.

Essentially we have a number hydrology models (URBS, WBNM, RAFTS etc) for our 30+ creek systems. Our plan if we went to down the FEWS pathway would be use to Catchment SIM, generate new more detailed and consistent URBS model/vector files for these creeks in BCC. Then link these to BOM forecasts similar to SEQ Water methodology, however for the creek flooding scenario (very short lead times).

Terry indicated to me the other day that the only difference between our potential FEWS system and that of SEQ Water's current FEWS system would be that instead of using sub-catchments linked to forecast rainfall, we could potentially base it on pixel resolution/area generation and use a continuous model (URBS can be run in this way).

However I am not exactly certain how to do this at this point in time. It is obviously something we can discuss and work on in a collaborative manner.

At the moment we disseminate warnings through FloodWise (in-house system) through SMS and also email. Our plan would be to link the results of the FEWs system to FloodWise. Obviously this open to further discussion.

Hopefully this provides some background information as required.

Regards
JamesC.

>>> Martin Ebel [REDACTED] 14/12/2010 12:25 am >>>
Dear James,

I am back in the Netherlands (in snow and ice) and you are in the middle of the next flooding event, as far as I can see.
How are things in Brisbane?

I'm happy to provide you with more information on FEWS concerning your specific needs. Can you send me some more information, how you handle creek and river flooding at the moment? Which models and platform do you use currently. I understand you have to be able to handle very short lead times. Which input data do you use to calculate your forecasts at present? And how do you disseminate those short term information and warnings? A very interesting and challenging task indeed.

Kind regards,

Martin

--

Martin Ebel

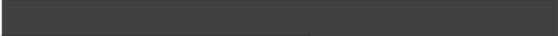
senior consultant / researcher
operational water management

Deltares - Delft Hydraulics
PO Box 177
2600 MH Delft
The Netherlands


www.deltares.nl

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

Subject: FEWS

From: James Charalambous 

To: 

Date: Fri Nov 12 2010 06:04:21 GMT+0100

Martin/Alex,

We were impressed with the FEWS system developed for SEQ Water. We would appreciate a future opportunity to discuss a FEWS application specific to creek and river flooding for Brisbane City Council.

In the interim can you please direct to us to an appropriate website page or provide an overview powerpoint presentation of the general FEWS system.

Thank-you.

Kind Regards
JamesC.

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Santina Pennisi - Wivenhoe Releases

From: "Duty Engineer" [REDACTED]

To: [REDACTED] ...

Date: 18/12/2010 11:21:52 pm

Subject: Wivenhoe Releases

16/12/2010 09:00:00	50	Actual
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23/12/2010 03:00:00	323	Projected
23/12/2010 04:00:00	323	Projected

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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Chris Lavin - INCREASE TO DAM RELEASE S

From: Chris Lavin
To: Caswell, Evan; Charalambous, James; Logan, Craig; McGlenn, Robert; Morris, Ken; Pennisi, Santina
Date: 20/12/2010 7:58:18 am
Subject: INCREASE TO DAM RELEASE S
CC: Matters, Media; Pethybridge, Vicki; Turville, Brett

I have received advice from the Flood Operations Centre that releases are to increase from Wivenhoe (up to 1300-1500 m3/s) as a result of increased rainfall in the catchment. This is expected to commence by 6pm today and continue for several days.

FIC - The Flood Ops Centre will forward the release sequence by about midday today so that you can consider impacts.

Regards,

Chris Lavin
Disaster Operations Manager
Disaster Management Group
FAMILIES & COMMUNITY SERVICES DIVISION | Brisbane City Council
Level 9 | Brisbane Square | 266 George Street | GPO Box 1434
Brisbane QLD 4001

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www.brisbane.qld.gov.au

Santina Pennisi - New releases from Wivenhoe 20/12/2010

From: James Charalambous
To: Stuart, James
Date: 20 December 2010 8:54:02 am
Subject: New releases from Wivenhoe 20/12/2010
CC: Baddiley, Peter; Caswell, Evan; McGlinn, Robert; Morris, Ken; Pennisi, Santina

Hi Jimmy,

We have been advised the FOC will be undertaking releases in the order 1300-1500m³/s this week. See email below. Can you please advise us when the BOM will undertake modelling and post the results to the registered users website so that we can advise our internal stakeholder. I understand the BOM would like to be copied in our advice based on the modelling results.

FYI since we have last met, the FIC has been asked to provide a 24/7 'on call' service to internal stakeholders within Council. Our FIC roster normally begins and ends on Tuesday. Santina Pennisi will finish up tmrw morning and then Rob McGlinn will start tmrw until Friday 24/12. Evan will be on call Christmas Day, Ken is then on call boxing day. The following week (until the 4/1/11) Santina is on call again with the exception of Tuesday (28/12) when Ken is on call.

Give the above I suggest you copy in Santina & Rob in addition to Ken, Evan and myself on any comms over the Xmas/New Year's period.

We have also purchased a dedicated mobile (blackberry) for the FIC duty officer, the number is [REDACTED]

Regards
JamesC.

Note: Also as a suggestion it might be worth us also knowing the BOM's roster over the Xmas/New Year's period (just in case something should happen).

Santina Pennisi - Proposed Flood releases from Wivenhoe - @ 12:00 20/12/2010

From: "Duty Engineer" [REDACTED]

To: [REDACTED]

Date: 20/12/2010 1:07:52 pm

Subject: Proposed Flood releases from Wivenhoe - @ 12:00 20/12/2010

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Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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BCC Advice to DM

From: James Charalambous [REDACTED]

To: "Baddiley, Peter" [REDACTED]

Cc: "Caswell, Evan" [REDACTED] "Lavin, Chris"

[REDACTED] "Morris, Ken" [REDACTED]

Date: Mon, 20 Dec 2010 14:52:39 +1000

Peter/Jimmy (BOM) and John Ruffini (Flood Operation Centre - SEQ Water),

Further to our discussions today, and as part of improving communication between our agencies (as agreed last month) see attached our advice for this week's event.

Regards

JamesC.

Re: High Tides this week

From: Evan Caswell [REDACTED]
To: Chris Lavin [REDACTED]
Cc: Dean Morse [REDACTED], Ken Morris [REDACTED],
Don Carroll [REDACTED], James Charalambous [REDACTED], Robert McGlinn [REDACTED],
Santina Pennisi [REDACTED]
Date: Mon, 20 Dec 2010 14:38:50 +1000

Chris,

Further to our earlier conversation, BoM have advised that the extra high tides this morning were due to an atmospheric anomaly accounting for about 0.3m. ie 300mm higher than expected. The reading at the City Gauge was 1.6m AHD which is about 0.5m higher than expected due to atmospheric conditions (0.3m) and river flows (0.2m).

BoM have just completed the modelling for the river to determine flood levels over the next few days. The modelling suggests similar high tide levels to what occurred today for the next few days. Therefore the following localities may be affected by minor flooding tomorrow:

In the vicinity of Victoria Street and Northey Street at Windsor.

In the vicinity of Park Street, Amy Street, Agnes Street at Albion.

Edmonstone Street, Albion.

Low lying land in the vicinity of Youngs Road, Hemmant.

Flooding in the areas above may be exacerbated with any local rain at the time of high tide.

As you are aware extra dam releases are not scheduled until tonight. The influence of these releases would not likely be noticed in the city reach until Wednesday morning. These have been accounted for in the BoM's modelling.

In conjunction with the dam releases there is the chance for some debris to be mobilised within the river. Therefore it may be worth monitoring the river from early Wednesday morning to ensure no significant debris is present.

I will forward the above listed locations to Lisa Martin.

Regards,

Evan Caswell

Product Manager Flood Management

Water and Environment

CITY DESIGN

phone



fax

email



>>> Chris Lavin 20/12/2010 11:39 >>>

The rain run off and high tides has caused some inundation in low lying areas this morning.

High tides will continue this week. Considering that dam releases are to increase and rain may continue some modelling is required as to the impacts on the city.

Evan - can you look at the modelling re flooding risk.

Craig - can you consider the king tide action plan and its possible application in these circumstances.

Chris

RE: FOC Situation Report at 12:00 on Monday 20 December 2010 ... river/tide levels in Brisbane City
[SEC=UNCLASSIFIED]

From: Peter Baddiley [REDACTED]
To: Duty Engineer [REDACTED] James Charalambous
[REDACTED] Evan Caswell
[REDACTED], Ken Morris [REDACTED]
Date: Mon, 20 Dec 2010 16:37:58 +1000

John/James

As per our telephone discussions, the following is a summary re expected river/tide levels in Brisbane City ...

Predicted (highest) tides at Brisbane City gauge:

Wed 22nd: 2.5m tide datum, or 1.35m AHD at approx 11am

Thu 23rd: 2.5m tide datum, or 1.35m AHD at approx noon

The tide anomaly (in the sea/ocean) over the past few days has been about +0.3 metres. We are assuming this will be sustained based on the Bureau's bluelink forecast products at: <http://www.bom.gov.au/oceanography/forecasts/idyoc13.shtml?region=13&forecast=3#>

which means for Wed/Thu morning highest tides (without the effect of freshwater flows) should be about 1.35m +0.3m = 1.65m AHD at Brisbane City (late morning/middayish).

Peak of Wivenhoe Dam releases and flows from lower catchment should be in Brisbane City reaches on Wednesday & Thursday (based on current release strategy).

Allow approx 0.1m increase in water levels for freshwater flows implies possibility of 1.7m - 1.8m with the high tide on Wednesday & similar on Thursday

which means that current indications are that Brisbane R at the City gauge may reach/possibly slightly exceed the minor flood level of 1.7m (almost entirely due to the "tide").

To be reviewed again at noon Tuesday following high tide tomorrow.

Model results have been sent to registered user website (with the +0.3 metre anomaly in the tide predictions & latest release strategy).

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street

GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001

Phone: [REDACTED]

EMAIL: [REDACTED]

EMAIL for flood matters: [REDACTED]

WWW : www.bom.gov.au

From: Duty Engineer [REDACTED]

Sent: Monday, 20 December 2010 1:27 PM

To: [REDACTED]

[REDACTED] Al Navaruk; Bill Stephens; David Pokarier;
John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED]

[REDACTED] Murray Dunstan; [REDACTED]

Doug Grigg; gkeegan@seqwater.com.au; Graham Francis; Jayam Tennakoon; Matthew O'Reilly

Subject: FOC Situation Report at 12:00 on Monday 20 December 2010

Please find attached the latest update on the Flood Operation Centre Situation Report.

Cheers

John Ruffini

Duty Engineer

Flood Operations Centre

Phone: [REDACTED]

Fax: [REDACTED]

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Santina Pennisi - Proposed Flood Releases from Wivenhoe Dam @ 06:00 21/12/2010

From: "Duty Engineer" [REDACTED]

To: [REDACTED]

Date: 21/12/2010 6:14:59 am

Subject: Proposed Flood Releases from Wivenhoe Dam @ 06:00 21/12/2010

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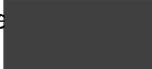
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Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

High Tide Update - 21 Dec 2pm

From: James Charalambous [REDACTED]

To: "Baddiley, Peter" [REDACTED]

Cc: "Caswell, Evan" [REDACTED] "Lavin, Chris"
[REDACTED] "Morris, Ken" [REDACTED]

Date: Tue, 21 Dec 2010 14:36:55 +1000

BOM/FOC

FYI our advice today.

Regards
JamesC.

High Tide Update - 21 Dec 2pm

From: James Charalambous [REDACTED]
To: "Lavin, Chris" [REDACTED]
Cc: "Carroll, Don" [REDACTED], "Caswell, Evan"
[REDACTED], "McGlinn, Robert"
[REDACTED], "Morris, Ken" [REDACTED]
[REDACTED], "Morse, Dean" [REDACTED], "Pennisi, Santina"
[REDACTED]
Date: Tue, 21 Dec 2010 14:03:13 +1000

Chris,

Further to our advice yesterday, the reading at the City Gauge was 1.7m AHD which is about 0.4m higher than expected; due to atmospheric conditions (0.3m) and river flows (0.1m). Our conversation with the BoM indicates that the atmospheric anomaly (causing higher than predicted tide levels of about 0.3m) is likely to remain over the next few days.

BoM have just completed the modelling for the river to determine flood levels over the next few days. The modelling suggests similar high tide levels to what occurred today for the remainder of the week. By the weekend the peak of the high tidal cycle will be over and the most of the releases from Wivenhoe will be finishing, so we should see a gradual reduction in these high tide levels over the weekend.

For Wed/Thu we could expect to see high tides range from 1.7m AHD to 1.8 mAHD which is about 0.4m higher than expected, again due to atmospheric conditions (0.3m) and river flows (0.1m).

Therefore the following localities are again likely to be affected by minor flooding on Wed/Thu:

In the vicinity of Victoria Street and Northey Street at Windsor.
In the vicinity of Bryden Street, Windsor
In the vicinity of Park Street, Amy Street and Agnes Street at Albion.
Edmonstone Street, Albion.
Low lying land in the vicinity of Youngs Road, Hemmant.

Flooding in the areas above may be exacerbated with any local rain at the time of high tide.

In conjunction with the dam releases there is the chance for some debris to be mobilised within the river. Therefore it may be worth monitoring the river from tomorrow morning to ensure no significant debris is present.

We will be in touch with the BoM again at midday tomorrow and will provide another update.

Regards
JamesC.

SEQ Release Update

From: James Charalambous [REDACTED]
To: "Lavin, Chris" [REDACTED]
Cc: "Carroll, Don" [REDACTED], "Caswell, Evan"
[REDACTED], "McGlinn, Robert"
[REDACTED], "Morris, Ken" [REDACTED]
[REDACTED], "Morse, Dean" [REDACTED], "Pennisi, Santina"
[REDACTED]

Date: Tue, 21 Dec 2010 15:46:04 +1000

Hi Chris,

We have been just advised that SEQ Water are going to increase the release to 1500m3/s tonight.

This will have no impact on tomorrow's forecast of high tide levels (due to travel time) and is unlikely to alter our estimates of high tide levels for Thu/Fri. However we will confirm with BOM at midday tmrw when they have a chance to model the new release strategy.

Regards
JamesC.

Santina Pennisi - Wivenhoe Releases

From: "Duty Engineer" [REDACTED]**To:** [REDACTED] ...**Date:** 21/12/2010 4:21:21 pm**Subject:** Wivenhoe Releases

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Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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Santina Pennisi - Wivenhoe Actual and Projected Releases

From: "Duty Engineer" [REDACTED]
To: [REDACTED]
Date: 22/12/2010 3:28:40 pm
Subject: Wivenhoe Actual and Projected Releases

Please note that Wivenhoe gate closure will begin at 1600 22/12/2010 and all gates are expected to be fully closed by 1400 Thursday 23/12/2010 barring further significant rain.

16/12/2010 09:00:00	50	Actual
16/12/2010 10:00:00	50	Actual
16/12/2010 11:00:00	50	Actual
16/12/2010 12:00:00	50	Actual
16/12/2010 13:00:00	50	Actual
16/12/2010 14:00:00	50	Actual
16/12/2010 15:00:00	50	Actual
16/12/2010 16:00:00	50	Actual
16/12/2010 17:00:00	50	Actual
16/12/2010 18:00:00	50	Actual
16/12/2010 19:00:00	50	Actual
16/12/2010 20:00:00	50	Actual
16/12/2010 21:00:00	50	Actual
16/12/2010 22:00:00	50	Actual
16/12/2010 23:00:00	50	Actual
17/12/2010 00:00:00	50	Actual
17/12/2010 01:00:00	50	Actual
17/12/2010 02:00:00	50	Actual
17/12/2010 03:00:00	50	Actual
17/12/2010 04:00:00	50	Actual
17/12/2010 05:00:00	50	Actual
17/12/2010 06:00:00	50	Actual
17/12/2010 07:00:00	50	Actual
17/12/2010 08:00:00	50	Actual
17/12/2010 09:00:00	50	Actual
17/12/2010 10:00:00	50	Actual
17/12/2010 11:00:00	50	Actual
17/12/2010 12:00:00	50	Actual
17/12/2010 13:00:00	50	Actual
17/12/2010 14:00:00	50	Actual
17/12/2010 15:00:00	50	Actual
17/12/2010 16:00:00	50	Actual
17/12/2010 17:00:00	50	Actual
17/12/2010 18:00:00	63	Actual
17/12/2010 19:00:00	63	Actual
17/12/2010 20:00:00	63	Actual
17/12/2010 21:00:00	63	Actual

17/12/2010 22:00:00	63	Actual
17/12/2010 23:00:00	63	Actual
18/12/2010 00:00:00	63	Actual
18/12/2010 01:00:00	63	Actual
18/12/2010 02:00:00	63	Actual
18/12/2010 03:00:00	112	Actual
18/12/2010 04:00:00	112	Actual
18/12/2010 05:00:00	161	Actual
18/12/2010 06:00:00	161	Actual
18/12/2010 07:00:00	210	Actual
18/12/2010 08:00:00	210	Actual
18/12/2010 09:00:00	210	Actual
18/12/2010 10:00:00	210	Actual
18/12/2010 11:00:00	210	Actual
18/12/2010 12:00:00	210	Actual
18/12/2010 13:00:00	210	Actual
18/12/2010 14:00:00	210	Actual
18/12/2010 15:00:00	210	Actual
18/12/2010 16:00:00	210	Actual
18/12/2010 17:00:00	210	Actual
18/12/2010 18:00:00	210	Actual
18/12/2010 19:00:00	210	Actual
18/12/2010 20:00:00	210	Actual
18/12/2010 21:00:00	210	Actual
18/12/2010 22:00:00	210	Actual
18/12/2010 23:00:00	257	Actual
19/12/2010 00:00:00	257	Actual
19/12/2010 01:00:00	303	Actual
19/12/2010 02:00:00	303	Actual
19/12/2010 03:00:00	303	Actual
19/12/2010 04:00:00	303	Actual
19/12/2010 05:00:00	303	Actual
19/12/2010 06:00:00	348	Actual
19/12/2010 07:00:00	348	Actual
19/12/2010 08:00:00	348	Actual
19/12/2010 09:00:00	348	Actual
19/12/2010 10:00:00	348	Actual
19/12/2010 11:00:00	303	Actual
19/12/2010 12:00:00	303	Actual
19/12/2010 13:00:00	303	Actual
19/12/2010 14:00:00	303	Actual
19/12/2010 15:00:00	303	Actual
19/12/2010 16:00:00	304	Actual
19/12/2010 17:00:00	304	Actual
19/12/2010 18:00:00	304	Actual
19/12/2010 19:00:00	304	Actual
19/12/2010 20:00:00	304	Actual
19/12/2010 21:00:00	304	Actual

19/12/2010 22:00:00	305	Actual
19/12/2010 23:00:00	305	Actual
20/12/2010 00:00:00	305	Actual
20/12/2010 01:00:00	305	Actual
20/12/2010 02:00:00	305	Actual
20/12/2010 03:00:00	306	Actual
20/12/2010 04:00:00	259	Actual
20/12/2010 05:00:00	260	Actual
20/12/2010 06:00:00	260	Actual
20/12/2010 07:00:00	260	Actual
20/12/2010 08:00:00	261	Actual
20/12/2010 09:00:00	213	Actual
20/12/2010 10:00:00	164	Actual
20/12/2010 11:00:00	165	Actual
20/12/2010 12:00:00	165	Actual
20/12/2010 13:00:00	165	Actual
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20/12/2010 15:00:00	166	Actual
20/12/2010 16:00:00	216	Actual
20/12/2010 17:00:00	266	Actual
20/12/2010 18:00:00	314	Actual
20/12/2010 19:00:00	361	Actual
20/12/2010 20:00:00	414	Actual
20/12/2010 21:00:00	466	Actual
20/12/2010 22:00:00	616	Actual
20/12/2010 23:00:00	721	Actual
21/12/2010 00:00:00	824	Actual
21/12/2010 01:00:00	928	Actual
21/12/2010 02:00:00	1030	Actual
21/12/2010 03:00:00	1133	Actual
21/12/2010 04:00:00	1232	Actual
21/12/2010 05:00:00	1276	Actual
21/12/2010 06:00:00	1276	Actual
21/12/2010 07:00:00	1275	Actual
21/12/2010 08:00:00	1274	Actual
21/12/2010 09:00:00	1274	Actual
21/12/2010 10:00:00	1273	Actual
21/12/2010 11:00:00	1272	Actual
21/12/2010 12:00:00	1271	Actual
21/12/2010 13:00:00	1270	Actual
21/12/2010 14:00:00	1269	Actual
21/12/2010 15:00:00	1268	Actual
21/12/2010 16:00:00	1267	Actual
21/12/2010 17:00:00	1366	Actual
21/12/2010 18:00:00	1413	Actual
21/12/2010 19:00:00	1461	Actual
21/12/2010 20:00:00	1459	Actual
21/12/2010 21:00:00	1457	Actual
21/12/2010 22:00:00	1455	Actual

21/12/2010 23:00:00	1453	Actual
22/12/2010 00:00:00	1451	Actual
22/12/2010 01:00:00	1449	Actual
22/12/2010 02:00:00	1447	Actual
22/12/2010 03:00:00	1445	Actual
22/12/2010 04:00:00	1443	Actual
22/12/2010 05:00:00	1440	Actual
22/12/2010 06:00:00	1438	Actual
22/12/2010 07:00:00	1436	Actual
22/12/2010 08:00:00	1434	Actual
22/12/2010 09:00:00	1432	Actual
22/12/2010 10:00:00	1430	Actual
22/12/2010 11:00:00	1428	Actual
22/12/2010 12:00:00	1425	Actual
22/12/2010 13:00:00	1423	Actual
22/12/2010 14:00:00	1421	Actual
22/12/2010 15:00:00	1419	Actual
22/12/2010 16:00:00	1416	Projected
22/12/2010 17:00:00	1367	Projected
22/12/2010 18:00:00	1317	Projected
22/12/2010 19:00:00	1267	Projected
22/12/2010 20:00:00	1175	Projected
22/12/2010 21:00:00	1127	Projected
22/12/2010 22:00:00	1078	Projected
22/12/2010 23:00:00	979	Projected
23/12/2010 00:00:00	930	Projected
23/12/2010 01:00:00	881	Projected
23/12/2010 02:00:00	781	Projected
23/12/2010 03:00:00	732	Projected
23/12/2010 04:00:00	683	Projected
23/12/2010 05:00:00	584	Projected
23/12/2010 06:00:00	534	Projected
23/12/2010 07:00:00	484	Projected
23/12/2010 08:00:00	392	Projected
23/12/2010 09:00:00	343	Projected
23/12/2010 10:00:00	299	Projected
23/12/2010 11:00:00	207	Projected
23/12/2010 12:00:00	160	Projected
23/12/2010 13:00:00	111	Projected
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23/12/2010 23:00:00	35	Projected

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25/12/2010 12:00:00	35	Projected
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25/12/2010 14:00:00	35	Projected
25/12/2010 15:00:00	35	Projected
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25/12/2010 18:00:00	35	Projected
25/12/2010 19:00:00	35	Projected
25/12/2010 20:00:00	35	Projected
25/12/2010 21:00:00	35	Projected
25/12/2010 22:00:00	35	Projected
25/12/2010 23:00:00	35	Projected

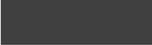
26/12/2010 00:00:00	35	Projected
26/12/2010 01:00:00	35	Projected
26/12/2010 02:00:00	35	Projected
26/12/2010 03:00:00	35	Projected
26/12/2010 04:00:00	35	Projected
26/12/2010 05:00:00	35	Projected
26/12/2010 06:00:00	35	Projected
26/12/2010 07:00:00	35	Projected
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26/12/2010 14:00:00	35	Projected
26/12/2010 15:00:00	35	Projected
26/12/2010 16:00:00	35	Projected
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26/12/2010 18:00:00	35	Projected
26/12/2010 19:00:00	35	Projected
26/12/2010 20:00:00	35	Projected
26/12/2010 21:00:00	35	Projected
26/12/2010 22:00:00	35	Projected
26/12/2010 23:00:00	35	Projected
27/12/2010 00:00:00	35	Projected
27/12/2010 01:00:00	35	Projected
27/12/2010 02:00:00	35	Projected
27/12/2010 03:00:00	35	Projected
27/12/2010 04:00:00	35	Projected
27/12/2010 05:00:00	35	Projected
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27/12/2010 11:00:00	35	Projected
27/12/2010 12:00:00	35	Projected
27/12/2010 13:00:00	35	Projected
27/12/2010 14:00:00	35	Projected
27/12/2010 15:00:00	35	Projected
27/12/2010 16:00:00	35	Projected
27/12/2010 17:00:00	35	Projected
27/12/2010 18:00:00	35	Projected
27/12/2010 19:00:00	35	Projected
27/12/2010 20:00:00	35	Projected
27/12/2010 21:00:00	35	Projected
27/12/2010 22:00:00	35	Projected
27/12/2010 23:00:00	35	Projected
28/12/2010 00:00:00	35	Projected

28/12/2010 01:00:00	35	Projected
28/12/2010 02:00:00	35	Projected
28/12/2010 03:00:00	35	Projected
28/12/2010 04:00:00	35	Projected
28/12/2010 05:00:00	35	Projected
28/12/2010 06:00:00	35	Projected
28/12/2010 07:00:00	35	Projected
28/12/2010 08:00:00	35	Projected
28/12/2010 09:00:00	35	Projected
28/12/2010 10:00:00	35	Projected
28/12/2010 11:00:00	35	Projected
28/12/2010 12:00:00	35	Projected
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28/12/2010 14:00:00	35	Projected
28/12/2010 15:00:00	35	Projected
28/12/2010 16:00:00	35	Projected
28/12/2010 17:00:00	35	Projected
28/12/2010 18:00:00	35	Projected
28/12/2010 19:00:00	35	Projected
28/12/2010 20:00:00	35	Projected
28/12/2010 21:00:00	35	Projected
28/12/2010 22:00:00	35	Projected
28/12/2010 23:00:00	35	Projected
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29/12/2010 06:00:00	35	Projected
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29/12/2010 08:00:00	35	Projected
29/12/2010 09:00:00	35	Projected
29/12/2010 10:00:00	35	Projected
29/12/2010 11:00:00	35	Projected
29/12/2010 12:00:00	35	Projected
29/12/2010 13:00:00	35	Projected
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29/12/2010 16:00:00	35	Projected
29/12/2010 17:00:00	35	Projected
29/12/2010 18:00:00	35	Projected
29/12/2010 19:00:00	35	Projected
29/12/2010 20:00:00	35	Projected
29/12/2010 21:00:00	35	Projected
29/12/2010 22:00:00	35	Projected
29/12/2010 23:00:00	35	Projected
30/12/2010 00:00:00	35	Projected
30/12/2010 01:00:00	35	Projected

30/12/2010 02:00:00	35	Projected
30/12/2010 03:00:00	35	Projected
30/12/2010 04:00:00	35	Projected
30/12/2010 05:00:00	35	Projected
30/12/2010 06:00:00	35	Projected
30/12/2010 07:00:00	35	Projected
30/12/2010 08:00:00	35	Projected
30/12/2010 09:00:00	35	Projected
30/12/2010 10:00:00	35	Projected
30/12/2010 11:00:00	35	Projected
30/12/2010 12:00:00	35	Projected
30/12/2010 13:00:00	35	Projected
30/12/2010 14:00:00	35	Projected
30/12/2010 15:00:00	35	Projected
30/12/2010 16:00:00	35	Projected
30/12/2010 17:00:00	35	Projected
30/12/2010 18:00:00	35	Projected
30/12/2010 19:00:00	35	Projected
30/12/2010 20:00:00	35	Projected
30/12/2010 21:00:00	35	Projected
30/12/2010 22:00:00	35	Projected
30/12/2010 23:00:00	35	Projected
31/12/2010 00:00:00	35	Projected
31/12/2010 01:00:00	35	Projected
31/12/2010 02:00:00	35	Projected
31/12/2010 03:00:00	35	Projected
31/12/2010 04:00:00	35	Projected
31/12/2010 05:00:00	35	Projected
31/12/2010 06:00:00	35	Projected
31/12/2010 07:00:00	35	Projected
31/12/2010 08:00:00	35	Projected

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

Wivenhoe Actual and Projected Releases (Updated 0400 23/12/2010)

From: Duty Engineer [REDACTED]
To: [REDACTED] Chris Lavin [REDACTED] Craig Logan
[REDACTED] Evan Caswell [REDACTED]
James Charalambous [REDACTED] Ken Morris
[REDACTED] Robert McGlinn [REDACTED]
Santina Pennisi [REDACTED]
Cc: [REDACTED]
Date: Thu, 23 Dec 2010 04:14:50 +1000

The gate closure sequence has been modified to account for additional inflow as contained in the attached spreadsheet. All gates are now expected to be fully closed by 1500 on Thursday 23/12/2010 (today) barring further significant rain. This is one hour later than previously expected. Please contact the Seqwater Flood Operations Centre if you have any queries.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone: [REDACTED]
Fax: [REDACTED]

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

DATE/TIME	WIVENHOE RELEASE (Cumecs)	
Sat 18/12/10 02:00	63	ACTUAL
Sat 18/12/10 03:00	112	ACTUAL
Sat 18/12/10 04:00	112	ACTUAL
Sat 18/12/10 05:00	162	ACTUAL
Sat 18/12/10 06:00	162	ACTUAL
Sat 18/12/10 07:00	210	ACTUAL
Sat 18/12/10 08:00	210	ACTUAL
Sat 18/12/10 09:00	210	ACTUAL
Sat 18/12/10 10:00	210	ACTUAL
Sat 18/12/10 11:00	210	ACTUAL
Sat 18/12/10 12:00	210	ACTUAL
Sat 18/12/10 13:00	210	ACTUAL
Sat 18/12/10 14:00	210	ACTUAL
Sat 18/12/10 15:00	210	ACTUAL
Sat 18/12/10 16:00	210	ACTUAL
Sat 18/12/10 17:00	210	ACTUAL
Sat 18/12/10 18:00	210	ACTUAL
Sat 18/12/10 19:00	210	ACTUAL
Sat 18/12/10 20:00	210	ACTUAL
Sat 18/12/10 21:00	210	ACTUAL
Sat 18/12/10 22:00	210	ACTUAL
Sat 18/12/10 23:00	257	ACTUAL
Sun 19/12/10 00:00	257	ACTUAL
Sun 19/12/10 01:00	304	ACTUAL
Sun 19/12/10 02:00	304	ACTUAL
Sun 19/12/10 03:00	304	ACTUAL
Sun 19/12/10 04:00	304	ACTUAL
Sun 19/12/10 05:00	304	ACTUAL
Sun 19/12/10 06:00	348	ACTUAL
Sun 19/12/10 07:00	348	ACTUAL
Sun 19/12/10 08:00	348	ACTUAL
Sun 19/12/10 09:00	348	ACTUAL
Sun 19/12/10 10:00	348	ACTUAL
Sun 19/12/10 11:00	304	ACTUAL
Sun 19/12/10 12:00	304	ACTUAL
Sun 19/12/10 13:00	304	ACTUAL
Sun 19/12/10 14:00	304	ACTUAL
Sun 19/12/10 15:00	304	ACTUAL
Sun 19/12/10 16:00	304	ACTUAL
Sun 19/12/10 17:00	304	ACTUAL
Sun 19/12/10 18:00	305	ACTUAL
Sun 19/12/10 19:00	305	ACTUAL
Sun 19/12/10 20:00	305	ACTUAL
Sun 19/12/10 21:00	305	ACTUAL
Sun 19/12/10 22:00	305	ACTUAL
Sun 19/12/10 23:00	306	ACTUAL
Mon 20/12/10 00:00	306	ACTUAL
Mon 20/12/10 01:00	306	ACTUAL
Mon 20/12/10 02:00	306	ACTUAL
Mon 20/12/10 03:00	306	ACTUAL
Mon 20/12/10 04:00	260	ACTUAL
Mon 20/12/10 05:00	260	ACTUAL
Mon 20/12/10 06:00	261	ACTUAL
Mon 20/12/10 07:00	261	ACTUAL
Mon 20/12/10 08:00	261	ACTUAL
Mon 20/12/10 09:00	214	ACTUAL
Mon 20/12/10 10:00	165	ACTUAL
Mon 20/12/10 11:00	165	ACTUAL
Mon 20/12/10 12:00	165	ACTUAL
Mon 20/12/10 13:00	166	ACTUAL
Mon 20/12/10 14:00	166	ACTUAL
Mon 20/12/10 15:00	167	ACTUAL
Mon 20/12/10 16:00	217	ACTUAL
Mon 20/12/10 17:00	267	ACTUAL
Mon 20/12/10 18:00	316	ACTUAL
Mon 20/12/10 19:00	363	ACTUAL
Mon 20/12/10 20:00	416	ACTUAL
Mon 20/12/10 21:00	468	ACTUAL
Mon 20/12/10 22:00	619	ACTUAL

022.0274

Mon 20/12/10 23:00	724	ACTUAL
Tue 21/12/10 00:00	828	ACTUAL
Tue 21/12/10 01:00	933	ACTUAL
Tue 21/12/10 02:00	1036	ACTUAL
Tue 21/12/10 03:00	1139	ACTUAL
Tue 21/12/10 04:00	1239	ACTUAL
Tue 21/12/10 05:00	1284	ACTUAL
Tue 21/12/10 06:00	1283	ACTUAL
Tue 21/12/10 07:00	1283	ACTUAL
Tue 21/12/10 08:00	1282	ACTUAL
Tue 21/12/10 09:00	1281	ACTUAL
Tue 21/12/10 10:00	1281	ACTUAL
Tue 21/12/10 11:00	1280	ACTUAL
Tue 21/12/10 12:00	1279	ACTUAL
Tue 21/12/10 13:00	1278	ACTUAL
Tue 21/12/10 14:00	1277	ACTUAL
Tue 21/12/10 15:00	1276	ACTUAL
Tue 21/12/10 16:00	1275	ACTUAL
Tue 21/12/10 17:00	1375	ACTUAL
Tue 21/12/10 18:00	1423	ACTUAL
Tue 21/12/10 19:00	1470	ACTUAL
Tue 21/12/10 20:00	1469	ACTUAL
Tue 21/12/10 21:00	1467	ACTUAL
Tue 21/12/10 22:00	1465	ACTUAL
Tue 21/12/10 23:00	1463	ACTUAL
Wed 22/12/10 00:00	1461	ACTUAL
Wed 22/12/10 01:00	1459	ACTUAL
Wed 22/12/10 02:00	1457	ACTUAL
Wed 22/12/10 03:00	1455	ACTUAL
Wed 22/12/10 04:00	1453	ACTUAL
Wed 22/12/10 05:00	1451	ACTUAL
Wed 22/12/10 06:00	1449	ACTUAL
Wed 22/12/10 07:00	1447	ACTUAL
Wed 22/12/10 08:00	1444	ACTUAL
Wed 22/12/10 09:00	1442	ACTUAL
Wed 22/12/10 10:00	1440	ACTUAL
Wed 22/12/10 11:00	1438	ACTUAL
Wed 22/12/10 12:00	1436	ACTUAL
Wed 22/12/10 13:00	1434	ACTUAL
Wed 22/12/10 14:00	1431	ACTUAL
Wed 22/12/10 15:00	1429	ACTUAL
Wed 22/12/10 16:00	1379	ACTUAL
Wed 22/12/10 17:00	1329	ACTUAL
Wed 22/12/10 18:00	1279	ACTUAL
Wed 22/12/10 19:00	1186	ACTUAL
Wed 22/12/10 20:00	1137	ACTUAL
Wed 22/12/10 21:00	1088	ACTUAL
Wed 22/12/10 22:00	988	ACTUAL
Wed 22/12/10 23:00	939	ACTUAL
Thu 23/12/10 00:00	890	ACTUAL
Thu 23/12/10 01:00	889	ACTUAL
Thu 23/12/10 02:00	889	ACTUAL
Thu 23/12/10 03:00	888	ACTUAL
Thu 23/12/10 04:00	788	ACTUAL
Thu 23/12/10 05:00	738	SCHEDULED
Thu 23/12/10 06:00	688	SCHEDULED
Thu 23/12/10 07:00	588	SCHEDULED
Thu 23/12/10 08:00	588	SCHEDULED
Thu 23/12/10 09:00	538	SCHEDULED
Thu 23/12/10 10:00	488	SCHEDULED
Thu 23/12/10 11:00	395	SCHEDULED
Thu 23/12/10 12:00	345	SCHEDULED
Thu 23/12/10 13:00	255	SCHEDULED
Thu 23/12/10 14:00	161	SCHEDULED
Thu 23/12/10 15:00	35	SCHEDULED

From: "Duty Engineer" [REDACTED]
To: [REDACTED]
Date: Thu, Dec 23, 2010 12:52 pm
Subject: Projected Release from Wivenhoe Dam - Revised Release Strategy

16/12/2010 09:00:00

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Duty Engineer

Flood Operations Centre

Phone:



Fax:

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Santina Pennisi - Projected Release from Wivenhoe Dam - 14:30 Friday 24 December 2010

From: "Duty Engineer" [REDACTED]

To: [REDACTED]

Date: 24/12/2010 2:45:32 pm

Subject: Projected Release from Wivenhoe Dam - 14:30 Friday 24 December 2010

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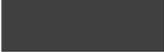
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Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

From: Chris Lavin
To: Evan Caswell, Chris Wilson, Santina Pennisi, Ken Morris, Robert McGlenn, Dean Morse, [REDACTED]
Date: Sat, Dec 25, 2010 11:03 am
Subject: Dam Releases - Sunday

FYI -

Yesterday I was advised that releases will be scaling up to 345m³/s by 3pm Saturday (ref Final SITREP from 24 Dec).

I have received advice today from Terry Malone, Principal Hydrologist SEQWater that Wivenhoe will now be opening Sunday morning.

Chris Lavin

CC: Vicki Pethybridge, Craig Logan, [REDACTED]
[REDACTED]

Wivenhoe Dam Projectd Releases - Sunday 26 Decemember 2010

From: Duty Engineer [REDACTED]
To: Chris Lavin [REDACTED], Craig Logan [REDACTED], Evan Caswell [REDACTED], James Charalambous [REDACTED], Ken Morris [REDACTED], Robert McGlinn [REDACTED], Santana Pennisi [REDACTED]
[REDACTED]

Date: Sun, 26 Dec 2010 13:05:50 +1000



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Duty Engineer

Flood Operations Centre

Phone

Fax:

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Santina Pennisi - Update - Upper Brisbane Catchment - decent flows

From: Santina Pennisi
To: Ken Morris
Date: 27/12/2010 8:02:15 am
Subject: Update - Upper Brisbane Catchment - decent flows
CC: Santina Pennisi

Hi
Just got off the phone with Terry Malone - he is at the Flood Ops Centre.

The flood flow situation is as follows:

-decent flows in the upper Brisbane Catchment.

Predictions are as follows:

- Lockyer to peak tomorrow at around 600m³/s
- Bremer to peak today at around 800m³/s to 1000m³/s
- Wivenhoe to ramp up releases to 1000m³/s over the next few days

I am going to contact BoM.

kind regards
Santina

Santina Pennisi - FOC Situation Report 1200 Monday 27 December 2010

From: "Duty Engineer" [REDACTED]
To: [REDACTED]
Date: 27/12/2010 12:58:01 pm
Subject: FOC Situation Report 1200 Monday 27 December 2010
CC: [REDACTED] ...

Rainfall

In the 3 hours to 1200 Monday, rainfalls in the North Pine, Somerset and Wivenhoe catchments have generally been less than 10mm. There have been isolated heavier falls up to 45mm in the headwaters of Lockyer and Laidley Cks.

The current BOM forecast is:

Monday 27 December Rain periods
Tuesday 28 December Rain at times
Wednesday 29 December Rain at times
Thursday 30 December Shower or two
Friday 31 December Fine
Saturday 31 December Fine
Sunday 1 January Fine

BoM advise that following today's rain, there will be an easing during Tuesday before a re-intensification on Wednesday. With the current wet catchments, there is a high probability that this forecast rain will result in further flood releases from the dams over the coming week.

North Pine Dam

Since 0900 Monday, the water level in dam has been steady at about 39.7m and upstream water levels are continuing to fall slowly. Following discussions with the MBRC a release commenced at 2000 Sunday evening with five currently open one increment releasing about 80m³/s. Releases are likely to continue until at least 0700 on Tuesday 28 December 2010. This release has resulted in the closure of Youngs Crossing and the crossing will remain closed until the release ceases. Current outflows from Lake Kurwongbah would also be sufficient to inundate Youngs Crossing, regardless of releases from North Pine Dam. The release strategy will be reviewed this evening, noting any rainfall during the day.

Somerset Dam

Three regulators were opened yesterday morning, to provide a release of 18,000ML/day into Wivenhoe Dam. Since that time the lake has continued to rise steadily to currently be around 99.7m or 700mm above the full supply level at noon Monday. Further gate operations may be necessary later today if forecast rainfall results in subsequent river rises. Draining will take at least until Wednesday.

Wivenhoe Dam

Closure of the Wivenhoe radial gates commenced late Sunday night to allow for flows from Lockyer Ck to pass through the mid Brisbane R, ensuring that Wivenhoe outflows did not adversely impact upon Burtons Bridge. Since then, the lake has risen steadily to currently be around 67.74m or 740mm above the full supply level. It is expected that Lockyer Ck flow will impact upon Burtons Bridge early Tuesday morning and Somerset Regional Council have confirmed that they will close the bridge this evening. This will allow Wivenhoe releases to commence tonight rather than Tuesday morning. Somerset Regional Council will advise the FOC when the bridge is closed. It is expected that release will be increased such that total flow (releases plus Lockyer and local runoff) in the mid Brisbane will be maintained around 1500m³/s. Outflow from the Lockyer is expected to peak around 650m³/s 0300 Tuesday and later tonight. By this stage Wivenhoe release will be increased to about 900m³/s. Further gates would be opened to match the decrease in the Lockyer flow. Operations may be altered in coming days if forecast rainfall results in subsequent river rises.

Impacts of Wivenhoe Dam Releases

Twin Bridges, Savages Crossing and Colleges Crossing are currently closed and will remain so until at least Thursday. Burtons Bridge is currently open, but will be closed later this evening and is likely to remain closed until at least Wednesday. However, the length of time that Burtons Bridge will be closed is dependant upon the rainfall experienced over the next several days. Kholo Bridge remains unserviceable due to flood damage. There is no current expectation that either Mt Crosby Weir Bridge or Fernvale Bridge will be impacted by the current event.

Terry Malone
Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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Santina Pennisi - Wivenhoe Outflows

From: "Duty Engineer" <[REDACTED]>**To:** [REDACTED]**Date:** 27/12/2010 1:17:33 pm**Subject:** Wivenhoe Outflows

Please note that Wivenhoe gates will commence to be opened Monday evening.

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Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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Please direct all enquiries to the message author.

Santina Pennisi - Actual and Projected Wivenhoe Releases

From: "Duty Engineer" [REDACTED]**To:** [REDACTED] ...**Date:** 28/12/2010 3:08:11 pm**Subject:** Actual and Projected Wivenhoe Releases

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08/01/2011 08:00:00	0	Projected

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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Please direct all enquiries to the message author.

Santina Pennisi - Actual and Projected Wivenhoe Releases

From: "Duty Engineer" [REDACTED]**To:** [REDACTED]**Date:** 29/12/2010 7:24:19 am**Subject:** Actual and Projected Wivenhoe Releases

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29/12/2010 15:00:00	973	Projected
29/12/2010 16:00:00	1026	Projected
29/12/2010 17:00:00	1079	Projected
29/12/2010 18:00:00	1132	Projected
29/12/2010 19:00:00	1185	Projected
29/12/2010 20:00:00	1237	Projected
29/12/2010 21:00:00	1288	Projected
29/12/2010 22:00:00	1287	Projected
29/12/2010 23:00:00	1333	Projected
30/12/2010 00:00:00	1384	Projected
30/12/2010 01:00:00	1436	Projected

30/12/2010 02:00:00	1486	Projected
30/12/2010 03:00:00	1536	Projected
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30/12/2010 05:00:00	1532	Projected
30/12/2010 06:00:00	1530	Projected
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31/12/2010 23:00:00	1408	Projected
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02/01/2011 22:00:00	13	Projected
02/01/2011 23:00:00	13	Projected
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04/01/2011 23:00:00	13	Projected
05/01/2011 00:00:00	13	Projected
05/01/2011 01:00:00	13	Projected
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05/01/2011 08:00:00	13	Projected
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07/01/2011 01:00:00	0	Projected
07/01/2011 02:00:00	0	Projected
07/01/2011 03:00:00	0	Projected
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07/01/2011 05:00:00	0	Projected
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08/01/2011 03:00:00	0	Projected
08/01/2011 04:00:00	0	Projected
08/01/2011 05:00:00	0	Projected
08/01/2011 06:00:00	0	Projected
08/01/2011 07:00:00	0	Projected
08/01/2011 08:00:00	0	Projected

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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**Santina Pennisi - Actual and Projected Releases from Wivenhoe Dam - 20:30 on Wednesday29
December 2010**

From: "Duty Engineer" [REDACTED]

To: [REDACTED]

Date: 29/12/2010 8:25:08 pm

Subject: Actual and Projected Releases from Wivenhoe Dam - 20:30 on Wednesday29 December 2010

24/12/2010 09:00:00	255	Actual
24/12/2010 10:00:00	208	Actual
24/12/2010 11:00:00	160	Actual
24/12/2010 12:00:00	112	Actual
24/12/2010 13:00:00	13	Actual
24/12/2010 14:00:00	13	Actual
24/12/2010 15:00:00	13	Actual
24/12/2010 16:00:00	13	Actual
24/12/2010 17:00:00	13	Actual
24/12/2010 18:00:00	13	Actual
24/12/2010 19:00:00	13	Actual
24/12/2010 20:00:00	13	Actual
24/12/2010 21:00:00	13	Actual
24/12/2010 22:00:00	13	Actual
24/12/2010 23:00:00	13	Actual
25/12/2010 00:00:00	13	Actual
25/12/2010 01:00:00	13	Actual
25/12/2010 02:00:00	13	Actual
25/12/2010 03:00:00	13	Actual
25/12/2010 04:00:00	13	Actual
25/12/2010 05:00:00	13	Actual
25/12/2010 06:00:00	13	Actual
25/12/2010 07:00:00	13	Actual
25/12/2010 08:00:00	13	Actual
25/12/2010 09:00:00	13	Actual
25/12/2010 10:00:00	13	Actual
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25/12/2010 14:00:00	13	Actual
25/12/2010 15:00:00	13	Actual
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25/12/2010 17:00:00	13	Actual
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25/12/2010 20:00:00	13	Actual
25/12/2010 21:00:00	13	Actual
25/12/2010 22:00:00	13	Actual
25/12/2010 23:00:00	13	Actual

26/12/2010 00:00:00	13	Actual
26/12/2010 01:00:00	13	Actual
26/12/2010 02:00:00	13	Actual
26/12/2010 03:00:00	13	Actual
26/12/2010 04:00:00	13	Actual
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26/12/2010 06:00:00	13	Actual
26/12/2010 07:00:00	13	Actual
26/12/2010 08:00:00	13	Actual
26/12/2010 09:00:00	63	Actual
26/12/2010 10:00:00	258	Actual
26/12/2010 11:00:00	349	Actual
26/12/2010 12:00:00	349	Actual
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26/12/2010 15:00:00	349	Actual
26/12/2010 16:00:00	349	Actual
26/12/2010 17:00:00	349	Actual
26/12/2010 18:00:00	350	Actual
26/12/2010 19:00:00	350	Actual
26/12/2010 20:00:00	305	Actual
26/12/2010 21:00:00	305	Actual
26/12/2010 22:00:00	259	Actual
26/12/2010 23:00:00	259	Actual
27/12/2010 00:00:00	212	Actual
27/12/2010 01:00:00	212	Actual
27/12/2010 02:00:00	212	Actual
27/12/2010 03:00:00	163	Actual
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27/12/2010 05:00:00	114	Actual
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27/12/2010 20:00:00	65	Actual
27/12/2010 21:00:00	65	Actual
27/12/2010 22:00:00	65	Actual
27/12/2010 23:00:00	65	Actual
28/12/2010 00:00:00	65	Actual

28/12/2010 01:00:00	65	Actual
28/12/2010 02:00:00	65	Actual
28/12/2010 03:00:00	65	Actual
28/12/2010 04:00:00	65	Actual
28/12/2010 05:00:00	65	Actual
28/12/2010 06:00:00	66	Actual
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28/12/2010 17:00:00	226	Actual
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29/12/2010 20:00:00	1237	Actual
29/12/2010 21:00:00	1288	Projected
29/12/2010 22:00:00	1335	Projected
29/12/2010 23:00:00	1386	Projected
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30/12/2010 02:00:00	1538	Projected
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31/12/2010 22:00:00	1092	Projected
31/12/2010 23:00:00	1040	Projected
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01/01/2011 01:00:00	987	Projected
01/01/2011 02:00:00	937	Projected

01/01/2011 03:00:00	936	Projected
01/01/2011 04:00:00	886	Projected
01/01/2011 05:00:00	835	Projected
01/01/2011 06:00:00	834	Projected
01/01/2011 07:00:00	784	Projected
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02/01/2011 12:00:00	13	Projected
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Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

Santina Pennisi - Wivenhoe Actual and Projected Release

From: "Duty Engineer" [REDACTED]**To:** [REDACTED]**Date:** 30/12/2010 9:25:58 am**Subject:** Wivenhoe Actual and Projected Release

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06/01/2011 21:00:00	0	Projected
06/01/2011 22:00:00	0	Projected
06/01/2011 23:00:00	0	Projected
07/01/2011 00:00:00	0	Projected
07/01/2011 01:00:00	0	Projected
07/01/2011 02:00:00	0	Projected
07/01/2011 03:00:00	0	Projected
07/01/2011 04:00:00	0	Projected

07/01/2011 05:00:00	0	Projected
07/01/2011 06:00:00	0	Projected
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07/01/2011 08:00:00	0	Projected
07/01/2011 09:00:00	0	Projected
07/01/2011 10:00:00	0	Projected
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07/01/2011 22:00:00	0	Projected
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08/01/2011 02:00:00	0	Projected
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08/01/2011 06:00:00	0	Projected
08/01/2011 07:00:00	0	Projected
08/01/2011 08:00:00	0	Projected

Duty Engineer
Flood Operations Centre

Phone



Fax:

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Santina Pennisi - Actual and Projected Wivenhoe

From: "Duty Engineer" [REDACTED]
To: [REDACTED]
Date: 31/12/2010 12:23:19 pm
Subject: Actual and Projected Wivenhoe

24/12/2010 09:00:00	255	Actual
24/12/2010 10:00:00	208	Actual
24/12/2010 11:00:00	160	Actual
24/12/2010 12:00:00	112	Actual
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25/12/2010 23:00:00	13	Actual
26/12/2010 00:00:00	13	Actual

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26/12/2010 04:00:00	13	Actual
26/12/2010 05:00:00	13	Actual
26/12/2010 06:00:00	13	Actual
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07/01/2011 00:00:00	40	Projected
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08/01/2011 06:00:00	40	Projected
08/01/2011 07:00:00	40	Projected
08/01/2011 08:00:00	40	Projected

Duty Engineer
Flood Operations Centre

Phone



Fax:

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This message has passed through an insecure network.
Please direct all enquiries to the message author.

From: "Duty Engineer" [REDACTED]

To: [REDACTED]

Date: Fri, Dec 31, 2010 12:23 pm

Subject: Actual and Projected Wivenhoe

24/12/2010 09:00:00

255

Actual

24/12/2010 10:00:00

208

Actual

24/12/2010 11:00:00

160

Actual

24/12/2010 12:00:00

112

Actual

24/12/2010 13:00:00

13

Actual

24/12/2010 14:00:00

13

Actual

24/12/2010 15:00:00

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Actual

24/12/2010 16:00:00

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Actual

24/12/2010 17:00:00

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24/12/2010 18:00:00

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24/12/2010 19:00:00

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24/12/2010 20:00:00

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24/12/2010 21:00:00

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24/12/2010 22:00:00

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24/12/2010 23:00:00

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25/12/2010 00:00:00

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25/12/2010 01:00:00

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25/12/2010 02:00:00

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25/12/2010 03:00:00

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25/12/2010 04:00:00

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25/12/2010 05:00:00

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25/12/2010 07:00:00

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25/12/2010 08:00:00

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26/12/2010 02:00:00

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26/12/2010 03:00:00

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Duty Engineer

Flood Operations Centre

Phone



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