Statement of James Michael Charalambous

I, **James Michael Charalambous,** Senior Engineer, of [redacted] Chermside, Brisbane, in the State of Queensland, state on oath as follows:

Introduction

1. Attachment "**JMC-1**" is a copy of a notice from the Commissioner of the Queensland Floods Commission of Inquiry (**Commission**) dated 28 March 2011 requiring me to provide a statement to the Commission by 1 April 2011 (**Notice**).

2. The Commission has advised that the Notice will be taken to have been complied with if, by Thursday 7 April 2011, I provide a written statement under oath or affirmation in relation to the following:

   (a) a summary of my communications with the Flood Operations Centre (**FOC**) between 1 October 2010 and 6 January 2011; and

   (b) an account of my communications with the FOC, verbatim where possible, and annexing copies of relevant documents, between 6 January 2011 and 19 January 2011.

3. The Commission has identified the following individuals (and their respective email addresses) and a generic email address as comprising the FOC between 1 October 2010 and 19 January 2011 - Rob Ayre, John Ruffini, John Tibaldi, Terry Malone, Mark Tan, Neville Ablitt, Lou van Blerk, Albert Navruk; Kim Hang; Bill Stephens John West, David Pokarier, Ken Price and [redacted]

4. For the purposes of preparing this statement, I have:

   (a) extracted and reviewed the emails from my Brisbane City Council (**Council**) email account to and from the FOC during the relevant period;

   (b) reviewed a copy of the "Brisbane Infrastructure Integrated Management System - Flood Information Centre - FIC Operations Log Sheet" (**FIC Log**). Attachment "**JMC-2**" is a copy of the FIC Log;

   (c) reviewed a copy of the FOC "Event Log" (a redacted version of which appears as Appendix M to the report dated 2 March 2011, prepared by the Queensland Bulk Water Supply Authority trading as Seqwater (**Seqwater**) and titled "*January 2011*

[redacted] [redacted]

James Michael Charalambous **Witness**

Flood Event - Report on the operation of Somerset Dam and Wivenhoe Dam").
This statement refers to the un-redacted version of the FOC "Event Log" which was provided by the Commission (**FOC Log**). Attachment "**JMC-3**" is a copy of the un-redacted FOC Log; and

(d) reviewed the draft "Protocol for the Communication of Flooding information for the Brisbane River Catchment- including floodwater releases from Wivenhoe and Somerset dams" (the **Protocol**). Attachment "**JMC-4**" is a copy of the Protocol.

5. The information set out below represents my best recollection of events, within the time period available to me and with the benefit of having reviewed the documents mentioned above.

Qualifications and Role within Council

6. I hold a Bachelor of Engineering (Honours) from The University of Queensland. I also hold a Master of Engineering from The University of Western Sydney and I have an Associate Diploma in Project Management from The University of New England. My technical area of expertise is flood modelling (hydrologic and hydraulic) and flood investigations.

7. My current role in Council is Senior Engineer, City Design in the Flood Management Section of Water & Environment. I have held this position since June 2009. I am responsible for flood investigations, flood studies and flood modelling. I first commenced employment with Council in August 1999 as a graduate engineer and in 2000 I was promoted to the role of project engineer.

8. Prior to my role at Council, I worked for four years for a private engineering consultancy, formerly Rust PPK/PPK, now referred to as Parsons Brinckerhoff.

Flood Information Centre and Flood Operations Centre

9. Where there is a possibility of a flood event, Council activates the Flood Information Centre (**FIC**) which is mostly made up of Council officers from the Flood Management section and the City Design section. I am one of the Controllers at FIC and have held this position for approximately five years.

10. I am aware that the FOC is made up of Flood Operations Engineers from Seqwater, Sunwater and the Department of Environment and Resource Management and is activated to manage flood events and the release of water from the Wivenhoe or Somerset Dams.

[redacted] [redacted]

James Michael Charalambous **Witness**

11. During the January 2011 flood event, I recall that there were about 6 or 7 FIC Controllers, including me, working in shifts. When I was on shift, as a matter of practice, I would read emails from FOC and the Bureau of Meteorology (**BoM**) when I received them and would action any matters of concern. During my FIC shifts I was responsible for taking telephone calls from FOC and BoM.

12. During some of my discussions with FOC and/or BoM, I would make notes which I would then provide to administrative staff in FIC to enter the record of conversation in the FIC Log. At other times, I would send emails to the relevant agency to confirm my conversations with them. During the January 2011 Flood Event, there may be some conversations which I had with FOC and/or BoM during this time that were not recorded in the FIC Log as I had limited time available in difficult circumstances.

13. One of my roles at FIC is to interpret the BoM forecast and use a computer program referred to as the "Bender" to work out the consequences for Brisbane. The Bender uses BoM water level predictions produced from the BoM hydrology model at 6 key gauges along the river (from upstream to downstream: Savages Crossing, Mt Crosby, Moggill, Jindalee, City Gauge and Brisbane Bar) to develop a forecast flood profile using an existing library of flood profiles from about 3,000 to 10,000 cumecs referenced at the City Gauge. The Bender flood forecast profile is then used to produce inundation maps, property counts, flood damages and a list of critical infrastructure for the city. This information usually forms part of situation reports prepared by the FIC.

Communications with FOC between 1 October 2010 and 23 December 2010

14. Attachment "**JMC-5**" is a copy of a chronological bundle of documents (separated by dated tabs) comprising records of my communications with members of FOC during the period 1 October 2010 and 31 December 2010 (the **2010 Bundle**). The documents in the 2010 Bundle relate to:

    (a) communications with the FOC that I was involved in relating to dam releases;

    (b) technical discussions and meetings between BoM, Seqwater and Council; and

    (c) the development of a protocol for communications between BoM, Seqwater and Council.

[redacted] [redacted]

James Michael Charalambous **Witness**

15. I recall that on or about 10 October 2010, there was a tidal flooding event in Brisbane and there was some issue with Council, Seqwater and BoM releasing inconsistent information in relation to the possibility of flooding in some areas.

16. On Thursday 14 October 2010, I recall that I attended an initial meeting with representatives of Seqwater and Sunwater to discuss the October 2010 flood event and the differences in information between Council and Seqwater. I cannot accurately recall who attended the meeting but to the best of my recollection:

(a) Council's representatives were Ken Morris, Evan Caswell, Greg Scroope (Disaster Management, Council), Don Carroll and me.

(b) Seqwater's representatives were Terry Malone, John Tibaldi and Rob Drury; and

(c) Sunwater's representative was Rob Ayre.

17. Further to this initial meeting, I sent a follow up email on 15 October 2010 (at BCC.022.0029 of the 2010 Bundle) to John Tibaldi for further information.

18. A series of technical meetings were then held on 22 and 29 October 2010 and 9 and 11 November 2010 which were attended by members of BoM, Seqwater and Council (including myself) (the **2010 Meetings**). The key documents in relation to the 2010 Meetings are as follows:

(a) Attachment "**JMC-6**" is a copy of my handwritten notes made during the 2010 Meetings;

(b) the Agenda for the 22 October 2010 meeting appears in my emails of 18, 19 and 20 October 2010 (at BCC.024.0024, BCC.024.0033 and BCC.024.0039 of the 2010 Bundle);

(c) the Agenda for the 29 October 2010 meeting (which also attached my notes from the 22 October meeting) appears in an email dated 28 October 2010 at BCC.024.0129 of the 2010 Bundle;

(d) Seqwater's proposal for discussion at the 29 October 2010 meeting appears in an email from Terry Malone dated 25 October 2010 at BCC.022. 0064 of the 2010 Bundle and an email from Peter Baddiley dated 28 October 2010 at BCC.024.0157 of the 2010 Bundle;

[redacted] [redacted]

James Michael Charalambous **Witness**

(e) Attachment "**JMC-7**" is a copy of Seqwater's agenda for the 29 October 2010 Meeting and the 11 November 2010 meeting appear.

19. Broadly, I recall that the following topics were discussed at the 2010 Meetings:

(a) "harmonisation" with regards to provision of flood information / flood advice from Council, BoM and Seqwater;

(b) technical capability presentations by each agency in relation to how each agency operates in a flood event;

(c) discussions on communication between the agencies;

(d) suggestions on improvements to current systems and processes; and

(e) triggers for provision of information between the agencies and to the public.

20. My recollection is that the meeting on 22 October 2010 was attended by Peter Baddiley and Paul Birch as representatives of BoM, John Tibaldi, Terry Malone and Rob Drury as representatives of Seqwater and Chris Lavin, Ken Morris, Don Carroll, Evan Caswell and me as representatives of Council. I cannot recall if Jeff Perkins or James Stuart attended the 22 October meeting.

21. A copy of BoM's presentation materials from the 22 October 2010 meeting is at attachment "**JMC-8**". The notes which I typed during the meeting of 22 October 2010 appear at BCC.022.0056 of the 2010 Bundle. I produced these notes as a summary of the key action points arising out of the meeting and as a starting point for further and continued discussions for the 29 October meeting. The 22 October meeting was an initial general meeting where each agency introduced itself and explained its role.

22. In particular, I recall discussing the trigger levels for flooding from each agency's perspective at the meeting on 22 October 2010. To the best of my recollection:

(a) Seqwater indicated that they considered 3,500 cumecs as a threshold trigger level for the commencement of minor flooding impacts in the lower Brisbane catchment;

(b) Council indicated that it was aware that property flooding (i.e. not habitable floor flooding) occurred at 1.5 metres AHD for properties located in Albion and Northey Street. This equates to a threshold trigger level of approximately 1,700 cumecs, depending on the tidal cycle (low/high);

[redacted] [redacted]

James Michael Charalambous Witness

(c) BoM indicated a minor flooding threshold of 1.7 metres AHD, which I understand is equivalent to 1,500 cumecs with the highest astronomical tide; and

(d) although there was some discussion about trigger levels at the 22 October 2010 meeting, a further review was to be held at the next meeting.

23. My notes of the meeting on 22 October 2010 and the email from Terry Malone dated 25 October 2010 are at BCC.022.0056 and BCC.022. 0064 respectively of the 2010 Bundle.

24. I also recall that someone from Seqwater stated (although I do not recall which representative of Seqwater made the statement) that they wanted one point of contact for flood related communications. As set out in my notes of the 22 October meeting, we discussed that in a flood event, FOC would initially contact the duty officer at Council's Disaster Management who would then contact FIC and BoM.

25. My recollection of the meeting on 29 October 2010 is that:

(a) the meeting was attended by Peter Baddiley, Paul Birch and Jimmy Stewart as representatives of BoM, John Tibaldi and Terry Malone as representatives of Seqwater and Evan Caswell and myself as representatives of Council; and

(b) after discussions with BoM, Council agreed to the BoM trigger level of 1.7 metres AHD (I understand this equates to 1,500 cumecs with the highest astronomical tide) as being indicative of minor flooding causing urban impact from the Brisbane River; and

(c) we agreed to hold the next meeting on 9 November 2010 at the BoM Flood Warning Centre.

26. It is my understanding that the 2010 Meetings were an initiative between Council, Seqwater and BoM and were not related to the development of the Protocol, which I recall was an initiative at a more senior or executive level. As a result of the 2010 Meetings, I have a recollection that the arrangements between the three agencies were broadly stated to be:

(a) "harmonisation" with regards to provision of flood information / flood advice from Council, BoM and Seqwater;

(b) the FOC is responsible for dam operations and informing BoM and Council of actual and projected releases from Wivenhoe and Somerset dams to assist Council to assess the likely impact within its local government area;

[redacted] [redacted]

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(c) Council undertakes an interpretation of the BoM flood warnings and river height forecasts, identifies flood inundation areas, assesses impacts for its communities and shares this information with BoM and Seqwater;

(d) the BoM are responsible for flood warnings and river height forecasts and weather forecasts.

27. Further to the 2010 Meetings, a large number of communications that I received from the FOC from 12 December 2010 to 23 December 2010 were emails of situation reports and reports on actual and projected releases from Wivenhoe dam. These communications were sent to me and a large number of others for information purposes and I do not have any specific comments on (or repeat the content of) these documents which are contained in the 2010 Bundle.

Communications with FOC from 25 December 2010 to 9 January 2011

28. I went on annual leave from 25 December 2010 to 9 January 2011 (both days inclusive) and I returned to work on the morning of 10 January 2011 at around 7am.

29. I did not check my Council email account during this period. Although it is my usual practice to review emails once I return from annual leave, when I returned to the office on the morning of 10 January 2011, due to the circumstances, I did not have time to go through any of the emails which FOC may have sent to me from 24 December 2010 to 9 January 2011. I also recall that I did not receive any communications from FIC during this period because other FIC Controllers were rostered on duty.

Communications with FOC from 10 January 2011 to 19 January 2011

30. A large number of communications that I received from the FOC during the January 2011 flood event were situation reports and reports on actual and projected releases from Wivenhoe dam. Attachment "**JCM-9**" is a copy of a chronological bundle of documents (separated by dated tabs) comprising:

(a) records of my communications with members of FOC; and

(b) other documents relevant to my communications with the FOC,

during the period 10 January 2011 and 19 January 2011 (the **2011 Bundle**). Unless specified below, I do not have specific comments on (or repeat the content of) the documents set out in the 2011 Bundle.

[redacted] [redacted]

James Michael Charalambous **Witness**

31. My recollection of my discussions with the FOC during the period 10 January 2011 to 19 January 2011 is set out in the following paragraphs, including where my recollection is different to the record of events contained in the FOC Log.

Monday 10 January 2011

32. I returned to work at around 7:00am on 10 January 2011 and I recall being in the office until around 3pm on 10 January 2011. My typical shifts at FIC during the January 2011 flood event were from 11pm to 8am, however due to the circumstances, I often arrived at the FIC office earlier then my scheduled shift and would stay longer to assist my team members.

33. It is my practice to seek to contact both the FOC and the BoM some time during my shift (usually at the start). The purpose of this call was to find out who the corresponding FOC duty officer and BoM representative was during my shift and to confirm the status of dam releases and BoM flood warnings, river height forecasts and weather forecasts.

34. I note the log entry in the FOC Log at 9.38am on 10 January 2011 records as follows:

" Conference call with Ken Morris (BCC) - informed them that release from Wivenhoe will be maintained at 2000m3/s for the next 24 hrs. This will be revised in 24 hrs. The strategy is to limit the flows to 3000 - 3500m3/s. At 3500m3/s about 322 (the whole property) will be submerged and about 7000 properties will be affected somehow damage bill $7mil). If the rainfall in the Bremmer and Lockyer increases substantially - it is likely the flows from these catchments can peak at 1000m3/s (on top of Wivenhoe release)"

35. I do recall participating in this call but I cannot recall the exact time that this call occurred. It must have been after 7am on 10 January 2011 because that is when I returned to the office from annual leave.

36. To the best of my recollection, I think that Ken Morris, Don Carroll and Santina Pennisi would have been on the call with me. However, I cannot recall which members of the FOC were on the call.

37. There were a lot of things happening at this time and I cannot recall the specific details of the discussions with FOC during this call. To the best of my recollection, the main outcome of the call was that we were informed by the FOC that they would being releasing water from Wivenhoe dam but I do not recall any specific figures being discussed. I do not specifically recall any discussion about "*At 3,500 cumecs 322 (the whole property) will be submerged and about 7,000 properties will be affected somehow damage bill $7 mil*" and cannot correlate

[redacted] [redacted]

James Michael Charalambous **Witness**

these figures to the information provided by Council and sent to FOC on 11 January 2011 (discussed in paragraph 40 below).

38. I refer to the FOC Log entries recorded on 10 January 2011 at 12:33pm and 2.30pm which state as follows:

"12:33PM Called BCC twice. No answer, so left messages...

2:30PM Called BCC 3 times before getting through to Flood Information Centre (FIC). Discussed latest strategy with them i.e. changing from "Flood Mitigation" to "Dam Safety". We will start opening Wivenhoe gates from 15:00."

39. I do not recall the 12:33pm and 2:30pm calls. I do recall that during my shifts, some FOC officers were using the Floodwise telephone number to contact the FIC. The Floodwise telephone is a phone that has a number that is not directly associated with an officer of Council or the FIC and relies on an officer physically walking over to the phone and picking it up. So it is possible that these calls from FOC were not detected or were missed due to the number of things happening on 10 January 2010. Council telephone numbers within the FIC and Flood Management do not have voicemail facilities. I would typically answer the Floodwise telephone when it rang during my shifts as I worked the "graveyard shift" and the office was a lot quieter so it was much easier to hear and answer this phone at that time.

Tuesday 11 January 2011

40. On 11 January 2011, I recall starting my shift at 11pm. I refer to the FOC Log entries recorded on 11 January 2011 at 12.15am, 2.15am and 3.15am which state as follows:

" 12.15AM Spoke to Ken Morris (BCC) to update on current release strategy.

2:15AM James Charalambous (BCC) called to confirm forecast peak height of 3.1m at Brisbane city gauge for Wednesday high tide. This is based on 4600 cumecs modelled by BoM. Provided James with update on current release strategy.

3:15AM James Charalambous (BCC) has provided inundation forecast for Brisbane city to assist with devising strategy to manage Wivenhoe releases"

41. I do not recall participating in the 12.15am call and note that such a call is not recorded in the FIC Log at this time.

42. I do recall participating in the 2.15am call (although it may have been later than this time).

[redacted] [redacted]

James Michael Charalambous Witness

43. I also recall a further telephone discussion at some time after the 2.15am call and before the email mentioned in paragraph 45 below. This call does not appear in the FOC Log or the FIC Log.

44. To the best of my recollection, this telephone discussion was with Rob Ayre and John Ruffini of the FOC and was to the following effect:

(a) The FOC stated that they had earlier requested flood damage information from the FIC and had not yet received it;

(b) they indicated that given the rainfall in the last 24 hours or so in the Lockyer and upper Brisbane catchments, they urgently required this information. I anticipated that they required this information to devise a release strategy.

45. In response to this call, I immediately prepared and sent an email to FOC attaching a spreadsheet with the range of damages that corresponded to various combined flow discharge rates at the City Gauge. A copy of my email of 11 January 2011 sent at 3:18am with the spreadsheet attachment appears at BCC.038.0385 of the 2011 Bundle.

46. In relation to the 3:15am entry on the FOC Log, I believe this is a reference to my email of 11 January 2011 sent to Robert and John at 3.18am. I also refer to the FIC Log entry recorded on 10 January 2011, Shift 2, Item 19 at 3.18am which records an email sent from "FIC" to "SEQ" regarding the Flood Damages Spreadsheet. This entry is repeated on 11 January 2011, Shift 3, Item 30 at 3.18am.

47. I recall that I had a further discussion with Rob and John of FOC at sometime shortly after I sent the email referred to above (at 3.18am). I do not recall the detail of this conversation, but to the best of my recollection:

(a) Rob and John sought clarification of the flood damage spreadsheet provided in my email and in particular, which spreadsheet was the most relevant.

(b) I explained that one of the spreadsheets relates to flood damages (property counts and dollar value) from the 1D hydraulic model of the Brisbane river. The second spreadsheet lists flood damages from the 2D hydraulic model of the Brisbane river as part of the Brisbane River Hydraulic Model to PMF (up to 38,000 cumecs at the City Gauge) Study. The third spreadsheet contained storm/tide flood damages from 1.6 metres to 3 metres AHD.

[redacted] [redacted]

James Michael Charalambous **Witness**

(c) I indicated that Rob and John should utilise:

(i) the 1D model spreadsheet for discharges up to 8,000 cumecs at the City Gauge as this would be consistent with the Bender outputs produced by the FIC;

(ii) the 2D model spreadsheet for discharges greater than 8,000 cumecs.

48. There is an entry in the FIC Log with serial number 031 which records a call at 3.30am from "SEQ water" to "FIC" which describes the call as "*Call discussing the potential impacts taking into account discharges from the lockyer*". This is likely to be the call I refer to in paragraph 47 above.

49. I note the FOC Log entry recorded on 11 January 2011 at 8.11am which states as follows:

" TM called BCC flood information centre (Duty Officer - James). Wivenhoe releases will reach 3700m3/s at a minimum and higher flows are possible."

50. I do not specifically recall participating in the 8.11am call, it is possible that I took the call but it is also possible that another officer may have taken this call because I was likely to be undertaking a shift changeover briefing for the next FIC Controller at that time.

Wednesday 12 January 2011

51. I note the FOC Log entry recorded on 12 January 2011 at 2.10am which states as follows:

" James Charalambous (BCC) rang enquiring about a release strategy. Advised one will be issued at about 3:00am. Talked about the activities of the last 24 hours."

52. Although I do not specifically recall this discussion, I concur with the contents of the log and believe that I would have had such a general discussion with FOC as part of my usual practice to speak to FOC and BoM when I start my shifts at FIC.

Thursday 13 January 2011

53. I note the FOC Log entries recorded on 13 January 2011 at 1.00am and 1.10am which state as follows:

"1.00AM *James (BCC) called FOC to enquire if Wivenhoe Dam has been compromised. JR assured him that that is not the case.*

[redacted] [redacted]

James Michael Charalambous **Witness**

1.10AM *BCC called the FOC regarding a viral text rumour that Wivenhoe Dam has failed. JR assured him that that is not true and will speak with Rob Drury about this matter."*

54. In relation to the call at 1.00am, I do recall making this call to FOC because I had been asked by the LDCC to confirm with the FOC that the Wivenhoe dam had not been compromised. I recall that this request was in response to a Queensland Police Service enquiry to the LDCC regarding a viral social media rumour about the dam.

55. However, I did not make the 1.10am call referred to in the FOC Log. I believe this call would have been made by LDCC in response to a request for written or direct confirmation from the FOC to Queensland Police Service. I consider a representative of the LDCC made this call as I recall being asked by the LDCC for a direct contact number for FOC.

Friday 14 January 2011

56. I note the FOC Log entries recorded on 14 January 2011 at 5.37am, 10.25am and 1.45pm which state as follows:

"5.37AM *James C from BCC called requesting information for Wivenhoe Dam and checking sit-rep data. Enquired about flows throughout the event, TM advised that not currently in a position to discuss these."*

57. To the best of my recollection, I had a conversation with Terry Malone at approximately 5.37am on 14 January 2011. The log entry is an accurate record of our discussion.

Tuesday 18 January 2011

58. I note the FOC Log entry recorded on 18 January 2011 at 2.00am which states as follows:

"BCC advise that the recession at Coronation Drive is not an issue with regards to bank stability"

59. To the best of my recollection, I had a conversation with Terry Malone (although I am not certain of this) at FOC at approximately 2.00am on 18 January 2011. The log entry is an accurate record of the communication. My email of 18 January 2011 at 1.52am (at BCC.002.8417 of the 2011 Bundle) reflects the matters discussed with Terry.

[redacted] [redacted]

James Michael Charalambous **Witness**

I make this statement conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act 1867 (Qld).

Dated 7th April 2011

Signed and declared by James Michael Charalambous at BRISBANE in the State of Queensland this 7th day of April 2011 Before me:

[redacted]

Signature of person before whom the declaration is made

[redacted]

Signature of declarant

Tanya Jamfada, Solicitor

Full name and qualification of person before whom the declaration is made

[redacted]

James Michael Charalambous

[redacted]

Witness

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 10 Jan 2011	**Shift: 1 Yellow Team**	**Page No: 1**

Serial	Time	From	To	Item / Event	Comments / Action
001	11.35 am	FIC	Water Resources	Stand Up – FIC request LDCC Liaison Officer	Action Water Resources/email
002	12.02 pm	Water Resources	FIC	Advice LDCC Liaison Officers	Action completed/email
003	12.19 pm	LDCC	FIC	Flood Property mapping – affected properties	Action GIS officer/email
004	12.36 pm	FIC	LDCC	FIC Sitrep Report 1.00pm	email
005	1.33 pm	FIC	LDCC	FIC Sitrep report 1.00 pm resent	email
006	2.01pm	FIC	LDCC	Flooded Roads list 4000m3/s	email
007	2.16 pm	Administrator	FIC Teams/Neil Wood	Information on shifts for 10-11 Jan 2011	Information also sent to LDCC Liaison Officers
008	2.40 pm	FIC	LDCC	FIC Sitrep 2.30pm	email
009	2.47 pm	FIC	LDCC	Wivenhoe Dam Releases – change to situation	email
010	3.10 pm	LDCC	FIC	Brisbane River to PMF Maps	eamil
011	3.41 pm	Adminstrator	FIC Teams	Parking information Green Square	email
012	3.41 pm	GIS Officer	LDCC	Zipped Flooded Road Maps	email

"JMC - 2"

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 10/1/2011	**Shift: 2 Pink Team**	**Page No:1**

Serial	Time	From	To	Item / Event	Comments / Action
001	4.22 pm	IPCC – C McCahon	FIC	Flood Modelling involving Ipswich	Action required
002	5.30 pm	LDCC – Brendan Brady	GIS Officer	Both required – 4000 & 5000 maps compressed for email and placed in I Drive	Action completed and signed off – Bruce Grice GIS Officer
003	6.05 pm	Administrator	FIC	Food order	Security advised
004	6.00 pm	FIC	LDCC	Sit rep report 6.00 pm	
005	6:53 pm	FIC	LDCC	Sit rep report 6.45 pm	
006	7:36 pm	Controller - Evan Caswell	FIC	Sit Rep report 6:00	
007	8:01 pm	Ellen Davidge	FIC	LDCC Querry – Additional properties from 4000 & BOM	Action Required passed onto Evan Caswell
008	8:05 pm	Evan Caswell	FIC	Next BOM forecast due at 9pm	
009	8:05 pm	FIC	FIC standby duty officers	Sit rep report 6.00 pm FINAL	
010	8:10 pm	Peter Jasper	Bruce Grice	Record of conversation	Require mapping of current flooded and partial flooded areas
011	8:16 pm	Ellen Davidge	FIC	Query – Definition of Partially Flooded	Action Required – Passed onto Evan
012	8:30 pm	Ellen Davidge	FIC	LDCC Query – Top Flooded Roads	Action Required – Passed onto Don Carrol and Evan
013	9:29 pm	Evan Caswell	FIC	Next BOM forecast is at 10pm not 9pm	
014	9:37 pm	LDCC	FIC	Confirmation for use of sitrep	Action required – sent to Evan
015	9:57 pm	Evan Caswell	Ellen Davidge, FIC	Reply to Serial 014	
016	11:53 pm	Kylie Jacobson	FIC	RE Affected Streets and Suburbs	Action- Sent to Evan
017	11:55 pm	Evan Caswell	FIC	Prod Search URL	
018	2.43 am	FIC	William Prentice (LDCC)	Energex Request	
019	3.18 am	FIC	SEQ	Flood Damages Spreadsheet	Not on file?

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	CD F 101 004 Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 11/01/11	Shift: 3	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	12.23	FIC	Kylie Jacobson	Reply re Affected Streets and Suburbs	
002	12:47	BOM	FIC	Update From BOM	
003	12.47	FIC	FIC Standby Duty Officers, FIC, LDCC, Will Prentice	Update from BOM	
004	12.50	FIC	James Charalambous, FIC	Outstanding work	
005	12:50	E.Caswell	FIC	Outstanding actions for the FIC team to complete with shift handover.	
006	1:21	Josh Luck	Sue Kelleher	Record of Conversation re: call centre access to flood information	
007	1.38	James Charalambous	FIC	Call Centre Links and Examples	
008	1.40	Josh Luck	Sue Kelleher	Receipt of email with link to BRFFRS	
009	1.42	FIC	Logan Timms, William Prentice	Flooded properties	
010	1.48	FIC	Sue Kelleher	Call Centre Links and Examples	
011	1.54	Sue Kelleher (Contact Centre)	FIC	[redacted] Franklin St Rocklea	
012	1.57	Sue Kelleher	FIC	[redacted] Smallman St Bulimba	
013	1.58	Sue Kelleher	FIC	[redacted] Forge Cl Sumner	
014	1.59	Sue Kelleher	FIC	[redacted] Northey St Windsor	

Serial	Time	From	To	Item / Event	Comments / Action
015	2.04	FIC	LDCC	FIC Sitrep 2.00am – Shift 3	
016	2.03	FIC	LDCC	FIC Sitrep 2.00am – Shift 3	
017	2.20	FIC	FIC	Summary of Actions from Teleconference with Logan Timms	
018	2.20	FIC	FIC	Summary of Actions from Teleconference with Logan Timms (LDCC)	
019	2.24	FIC	BOM, SEQ	FIC Sitrep 2.00am – Shift 3	
020	2.24	FIC	SEQ, BOM, FIC	FIC Sitrep 2.00am – shift 3	
021	2.27	Sue Kelleher	FIC, SHIFT LEADER	Fwd: Interim Scripting for Flooding Inquiry	
022	2.31	William Prentice (LDCC)	FIC	Energex Request	
023	2.33	FIC	William Prentice	Fwd: FIC Sitrep 2.00am	
024	2.34	FIC	FIC	Directory	
025	2.34	FIC	FIC	Directory	
026	2.43	FIC	William Prentice, LDCC, FIC	Re: Energex Request	
027	2:43	FIC	LDCC (Will Prentice)	Email regarding predicted heights to LDCC for energex in ARCGIS format	
028	3.03	FIC	LDCC	Call + record of convo re: issue of interpreting BCC tide levels	Logan wanted clarification and James to call him back.
029	3:18	FIC	SEQ water	Email from James to Rob and John with flood damages spreadsheet attached including assumptions.	
030	3.18	FIC	SEQ, FIC	Flood Damages Spreadsheet	

Serial	Time	From	To	Item / Event	Comments / Action
031	3:30	SEQ water	FIC	Call discussing the potential impacts taking into account discharges from the lockyer	
032	3:40	FIC	LDCC	Call + record of convo re: issue interpreting BCC tide levels	James rang back and explained BCC tide levels to Logan and was to send email with MSQ tide predictions for Bris Bar and Bris Gauge.
033	3:42	FIC	Contact Centre (Sue Kelleher)	Informed that BRFFRS is up to date and supplied instructions for call centre staff as to how to clear internet history cache.	
034	3.42	FIC	Sue Kelleher, Logan Timms, LDCC	BRFFRS Update	
035	3.54	FIC	Sue Kelleher, FIC	BFFFRS	
036	4:00	FIC	LDCC	Email sent to LDCC with predicted MSQ tide levels for bris bar and bris gauge.	Sent in support of previous phone call explanation.
037	4.00	FIC	LDCC, FIC	Hourly Tidal Predictions for Bar/City Gauge (Port Office)	
038	4.06	FIC	CC Shift Leader, FIC	BRFFRS update	
039	4.10	FIC	William Prentice	File for Energex	
040	4.35	FIC	LDCC	Rating Curves and Gauges	
041	4-5.00	James Charalambous	LDCC	Record of Conversation - Tides	

Serial	Time	From	To	Item / Event	Comments / Action
042	4.38	Belinda Chapman	BOM	Record of Conversation – 4.06 was latest BOM forecast	
043	4.53	FIC	Rachael Lindsay	Attachments in emails	
044	4.59	FIC	CC Shift Leader, FIC	BRFFRS	
045	5.46	William Prentice	FIC	Good Work on the Floodwise Report	
046	6.00	James Charalambous	BOM	Record of Conversation - Preliminary BOM Forecast	
047	5.58	FIC	Will Prentice	Record of Conversation -Brisbane Times Info	Will to follow up
048	4.00	FIC	LDCC	Record of conversation - BRFFRS ready to use	
049	4.00	FIC	LDCC	Record of conversation - BRFFRS best email address	
050	6.44	William Prentice	FIC, LDCC	Rating Curves at Gauges	
051	6.42	Gavin Blakey	Will Prentice, FIC	Gavin in at 7.15 am	
052	6.45	Will Prentice	FIC	Fwd:Re: BRFFRS	
053	6.48	Josh Luck	FIC	BCC Floodwise Situation Report for Tuesday, 11 Jan 6.47 am	
054	6.03	FIC	Will Prentice	Re: BRFFRS	
055	7.00	James Charalambous	FIC	Fwd: FOC Situation Report at 6.00 on Tuesday 11 January 2011	
056	7.00	James Charalambous	FIC	Fwd: Wivenhoe Dam Projected Releases at 6.00 on Tuesday 11 January 2011	
057	7.01	James Charalambous	FIC	Fwd: Re: Sitrep Report 0200 Tuesday 11 January 2011	

Serial	Time	From	To	Item / Event	Comments / Action
058	7.03	James Charalambous	FIC	Re: Wivenhoe Dam Projected Releases – Please CC address	
059	7.11	James Charalambous	Engineer, Duty	Email	
060					
061					
062					

Sign Off: FIC Controller .....

Date: 11 Jan 2011	Shift: 1 Yellow Team	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	8:20am	BOM	FIC Controller	BOM about to release updates	James Charalambous took call
002	8:22am	QR	FIC Administrator	Concerned about flood levels	Referred call onto LDCC
003	8:25am	Trinity from Aurecon	FIC Administrator	Concern regarding impact of flooding on Brisbane Airport Corporation	Referred call onto LDCC
004	8:45am	FIC Controller	FIC	Actual and Projected Wivenhoe Releases	James Charalambous sent file
005	9:00am	Health & Safety Manager – Oil Site	FIC Administrator	Concern regarding impact of flooding on an oil site on Milton Road	Referred call onto BCC Call Centre
006	9:05am	LDCC	FIC	Oxley policing district request for information	Referred email to FIC acting controller (Rob McGlinn) for action
007	9:16am	LDCC (Bridie Luva)	FIC	Map requests for potential flooding	Referred email to FIC support officer (David Simpson) for action
008	9:24am	LDCC (Bridie Luva)	FIC	Map requests for potential flooding	Referred email to FIC support officer (David Simpson) for action
009	9:31am	LDCC Liason (Gavin Blakely)	FIC	Brisbane City Gauge only registering to 4am	Referred email to FIC support officer (David Simpson) for action
010	9:45am	BCC Contact Centre	FIC	Enquiry about who to refer public enquiries regarding the interpretation of flood levels from the Brisbane Forecasting System and Flood Property Reports on to.	Response for contact centre is to send any enquiries to the Flood Property Report email address. Someone will respond to enquiry asap but no guarantee that they will receive a response within 24 hours.
011	10:00am	QUU (Craig Ma)	FIC	Flood Information Maps	Referred email to FIC acting controller (Rob McGlinn) for action
012	10:00am	FIC Support Officer (Hanieh Zolfaghari)	LDCC (Bridie Luva)	Response to map requests for potential flooding	Email
013	10:00am	FIC Controller (Santina Pennisi)	FIC Administrator	7000 Cumec Maps	Place 7000 Cumec maps in I drive – ring when available. Completed by FIC Administrator (Rachael Lindsay).
014	10:19am	FIC Administrator	FIC	FIC Shifts – 2011 January	Email plus Roster
015	10:23am	FIC Administrator	FIC	Link to BCC Logo	Email

Serial	Time	From	To	Item / Event	Comments / Action
016	10:25am	LDCC (Denis Verner)	FIC (Ken Morris)	Rates Codes	Referred email to FIC acting controller (Rob McGlinn)
017	10:30am	FIC	LDCC	FIC SITREP – 11/01/2011 @ 9:45am	
018	10:40am	ICT (David Taylor)	Rob McGlinn	Port Number for PST Line	
019	10:40am	FIC (Neil Wood)	FIC Administrator	McQuarie St, New Farm – will BCC Central Files Repository flood	Referred email to FIC acting controller (Rob McGlinn) for action
020	10:36am	FIC Duty	FIC	FIC SITREP – 11/01/2011 @ 9:45am – what flow?	
021	10:39am	FIC	FIC Duty (Santina Pennisi)	FIC SITREP - flow	
022	10:45am	Mark Henderling	FIC	Fire Levy Description	To be looked at by Ken
023	10:55am	Mark Henderling	FIC Administrator	Rates Codes	Rate Codes transferred to I drive
024	10:42am	FIC	LDCC	FIC SITREP resent	
025	10:54am	FIC (Ken Morris)	Mark Henderling	Rates Codes	Ken asking Mark for rate codes. Mark has provided land use.xls and fire levy.xls files.
026	11:05am	FIC Duty (Santina Pennisi)	FIC	FIC SITREP – 6000 maps	Referred email to FIC acting controller (Rob McGlinn) for action
027	11:02am	FIC Duty	FIC	FIC SITREP – bom indicated flow update yet?	Responded to by Rob and Ken
028	11:14am	FIC Duty	FIC	City Gauge in floodwise reporting strangely	Sent to FIC acting controller. FIC acting controller has responded to FIC Duty.
029	11:19am	FIC (Neil Wood)	FIC	Concern about flooding impact on Powerhouse – Lamington Ave, New Farm	Referred email to FIC acting controller (Rob McGlinn)
030	11:13am	FIC	LDCC	ATTN: Gavin Blakely	
031	11:38am	SEQ Water	FIC	Actual and projected Wivenhoe releases	
032	11:48am	FIC Duty	FIC	Mapping available for Brisbane above 7000	
033	11:48am	FIC (FIC Liason – Gavin Blakey)	FIC	Gavin to talk to Santina regarding the release of flood information to external asset managers.	
034	12:05pm	FIC	LDCC	Revised FIC SITREP 11/01/2011 at 11:15am	
035	12:14pm	FIC (FIC Liason – Gavin Blakey)	FIC	FIC SITREPS	
036	1.00 pm	LDM (Klynt Oberto)	FIC Duty	LDM would like to know when is the latest that they can start to evacuate people?	Referred to Rob McGlinn for action
037	1.45 pm	LDCC D Verner	FIC Director	Rates Codes/property report	LDCC need this information for a media release

Serial	Time	From	To	Item / Event	Comments / Action
038	1.45 pm	Peter Baddiley (BOM)	FIC Director	Would like to talk to FIC Director	Referred to Ken Morris for action
039	1.31 pm	SEQ Duty Eng	FIC	Actual and Project Wivenhoe Release Rates	Referred to Rob McGlinn for action
040	2.15 pm	FIC	LDCC	Mapping Information	
041	2.26 pm	SEQ Duty Eng	FIC	Wivenhoe ALERT information	Referred to Rob McGlinn for action
042	2.45 pm	FIC	LDCC	Flooding Update	
043	2.53 pm	LDCC	FIC	Request for information	Referred to Rob McGlinn for action
044	3.00 pm	FIC	LDCC	Flooding Update	
045	3.08 pm	LDCC	FIC	Update flood impact – information only	Copy
046	3.10 pm	CEO Office	FIC	Urgent request for information from sit rep	Referred to Robert McGlinn for action
047	3.23 pm	Ken Morris	FIC	Flood Evacuation Sites	FIC
048					
049					
050					

Sign Off: FIC Controller .....

Date: 11 Jan 2011	Shift: 2 Pink Team	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	3:53	Peter Jasper	FIC	Fwd: FW: Bruce Goulevitch	Action – sent to Evan
002	4:04	Evan Caswell	Aprel Dawes, FIC	Evan Replied to Evac Centre addresses	
003	4:15	FIC	LDCC	Sit Rep Sent	
004	4:27	David Sexton	John Cowely	Record of conversation	
005	4:35	Simone Gilespie	Ray	Record of conversation	Action – Sent to Evan
006	4:44	FIC	Jeff Sangster	Property Counts 7000	
007	4:51	Duty Engineer	Santina. Rob, Ken, James	Wivenhoe actual and projected releases	Action – sent to Evan
008	5:15	FIC	Ray – Bcc Call Centre	Response to Serial 005	Parshin has Let Ray know system is working
009	5:19	FIC	LDCC	Anticipate Inundation Wed	
010	5:25	Ellen Davidge	FIC	LAS Enquiry: South District	Evan for action
011	5:31	Ellen Davidge	FIC	FYI: Brian tan chasing same info as serial 010	Evan for action
012	5:40	Evan CAswel	Peter Barns	Evan response to Serial 011 and 012	
013	5:42	Ellen Davidge	FIC	Revised FIC liason Roster	Sent to Evan for his Info
014	5:59	Duty Engineer	FIC and others	Situation Report 18:00 12 January 2011	Sent to Evan
015	6:07	Duty Engineer	FIC	Actual and Projected Wivenhoe Releases	Evan notified
016	6:59	Gavin Blakey	FIC	Anthony Cronin	
017	7:12	Charlotte Beresford	FIC	12000 Event Information	Evan notified
018	8:00	Charlotte Beresford	FIC	Record Conversation - Discharge Brisbane 12/01/11	Evan notified
019	8:00	Peter Badley	FIC	Record of Conversation – Latest BOM Predictions 8pm	Evan Notified
020	8:25	FIC	FIC	Record of Conversation – Update John Cowie	
021	8:54	FIC	Peter Barns, Duty Officers	Latest Bom advice 8pm	
022	8:56	FIC	Peter Barns, Duty Officers	BRFFS LImit	
023	9:12	Peter Barnes	Parshin Vaghefi	Record of Conversation – Request for reduction of	Evan Notified

Serial	Time	From	To	Item / Event	Comments / Action
				size of inundation and evacuation maps.	
024	9:10	Duty Engineer	FIC	Actual and Predicted Releases	Info Passed onto Evan, with summary produced
025	9:46	FIC	Charlotte Beresford	10,000 inundation	
026	10:02	Duty Engineer	FIC	Actual and Predicted Releases	Info Passed onto Evan, with summary produced
027	10:13	Evan Caswell	Ellen Davidge	Response to additional resources email	
028	11:11	FIC	FIC	Property count breakdown	
029	11:25	FIC	FIC	File Size	Passed onto Nick
030					
031					
032					
033					
034					

Serial	Time	From	To	Item / Event	Comments / Action

Sign Off: FIC Controller .....

Date: 12/01/11	Shift: 3	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	12.05	Evan Caswell	Barnes, Peter; Beresford, Charlotte; FIC-Standby-Duty-Officers; FIC	Limit of BRFFS	
002	11.51	FIC	Lowry Boyd; SES	directory for flood maps & roads	
003	12.46	FIC	LDCC	Attn: Brendan - Map sizes reduced	
004	1.24	FIC	Brady, Brendan; FIC-Standby-Duty-Officers; FIC; LDCC	Updated forecast from BoM	
005	1.43	James Charalambous	FIC	Fwd: Re: Additional modelling resources available NOW	
006	1.24	Josh Luck	Brendan Brady (LDCC)	Record of Conversation: FIC access to traffic observation cams	
007	2.00	James Charalambous	BOM	Record of Conversation: No revision of SITREP	
008	1.51	FIC	Brady, Brendan; FIC-Standby-Duty-Officers; Flood_Information_Centre; LDCC	Fwd: Updated forecast from BoM	Confirming official gauge level

Serial	Time	From	To	Item / Event	Comments / Action
009	2.40	Josh Luck (FIC)	Lara Dark (FIC)	Josh on-site at Kangaroo Point to check height of river	
010	3.00	FIC	Brendan Brady (LDCC)	BRFFS – Outage?	
011	3.48	SEQ	SEQ, FIC – various memebers, flood qld	Actual and Projected Wivenhoe Releases (Updated)	
012	4.28	FIC	LDCC	Fwd: Actual and Projected Wivenhoe Releases (Updated) - Attention Tim Wright	
013	1.05	FIC	Jeff Sangster	Record of conversation: Flood flows	
014	5.49	SEQ	FIC and others	Situation Report	
015	5.53	SEQ	FIC and others	Actual and Projected Wivenhoe Releases	
016	6.20	BOM	FIC	Request for manual readings of the city gauge	
017	6.40	FIC	LDCC	Fwd: FIC SITREP 6:00PM - 10/01/2011	
018	5.40	FIC	Colin Jensen	Tidal influence on Flood Levels	
019	7.07	Colin Jensen	FIC	Tidal influence on Flood Levels - thanks	
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021					
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024					
025					

Serial	Time	From	To	Item / Event	Comments / Action
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Serial	Time	From	To	Item / Event	Comments / Action
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Sign Off: FIC Controller .....

BCC.018.0063

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 12/01/11	Shift: 1	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	7.37 am	FIC (James)	FIC	7 day rainfall totals & IFD	Information for FIC
002	7.57 am	SEQWater	FIC	0800 Situation Report	FIC to review
003	8.33 am	Kate Hddan	FIC (Gavin)	EWN Alert	Gavin to Action
004	8.43 am	Peter Jasper	FIC	Arranged for Surveyor to take obs	Issued to Rob McGlinn
005	8.46 am	FIC	FIC (Gavin)	Spatial info for LDCC	Issued to Gavin to Action
006	8.47 am	FIC	LDCC	FIC Sitrep for 8.45am	Issued to Gavin to Action
007	8.49 am	FIC	LDCC & CEO	FIC Sitrep for 8.45am	Issued to CEO to Action
008	9.02 am	FIC	SEQ (T. Malone)	12,000 m3/s flood inundation map	Issued to Terry for information
009	9.04 am	Tim Wright	FIC (Gavin)	Thanks	Filed
010	9.09 am	FIC	SEQ (T. Malone)	10,000 m3/s flood inundation map	Issued to Terry for information
011	9.26 am	Peter Jasper	FIC	Further survey information	Issued to Rob McGlinn
012	10.26 am	LDCC Liaison	QUU	Draft email - 12000 series	
013	10.40.48 am	Powerlink	Ken Morris	Flood Data Powerlink	Filed
014	10.40.58 am	BOM	Ken Morris	BOM Alert	Filed
015	10.41.18 am	BOM	Ken Morris	BOM Alert	Filed
016	10.41.38 am	BOM	Ken Morris	BOM Alert	Filed
017	10.52 am	Ass Control	FIC	Bender info	
018	10.43.12 am	DM	Ken Morris	Situation Report 0600	
019	10.43.28 am	SEQ Water	Ken Morris	Actual and Projected Wiv Dam Levels	
020	11.00 am	City Assets	LDCC	FIC – aerial imagery BCC	
021	10.40 am	DM	Don Carroll	Site inspections – evac centres	12.36 respond results of site visit
022	11.07 am	Toby Guillesser	FIC	Latest flood data – Gavin Blakey	Not able to open docs
023	11.11 am	LDCC	CC FIC	Sit rep – Kate & Melissa	Filed
024	11.12 am	LDCC	CC FIC	Energex – sit rep report	Filed
025	11.54 am	FIC	Ass Controll	Graph - bender	Filed

Serial	Time	From	To	Item / Event	Comments / Action
026	12.48 pm	CARS	FIC	Flood reading Kangaroo Point @12.30	Issued to Controller
027	12.50 pm	FIC	FIC	Projected rive height rating curve	
028	1.05 pm	LDCC Liaison	FIC	Information regarding the floating riverbank	Issued to Don
029	1.14 pm	LDCC Liaison	FIC	Information regarding the floating riverbank	Issued to Don
030	1.24 pm	LDCC Liaison	FIC	Information regarding the floating riverbank	Issued to Don
031	1.48 pm	FIC	DM	Good New Church site inspection	
032	2.03 pm	DM	FIC	[redacted]McFarlane St – impact of flooding	Issued to controller
033	2.32 pm	FIC	DM	Flood effect schools and comm centres	Filed
034	2.23 pm	FIC	LDCC	Helicopter Survey	Attn Rob Broughton
035	2.19 pm	FIC	FIC	Project rating curve	Filed
036	2.15 pm	LDCC	FIC	River Flood Level – river cell BN120 10000M3/s	David Simpson - ROC
037	1.25 pm	LDCC	FIC	Calibration of flood gauge – comp to City gauge	David Simpson – ROC
038	2.57 pm	LDCC Liaison	CC FIC	Flood Maps for Thursday	Filed
039	3.17 pm	SEQWater	FIC	Sit Rep Report – Rainfall	Controller
040	3.36 pm	LDCC Liaison	FIC	Foating River Walk status	Controller

Sign Off: FIC Controller .....

Date: 12/01/11	Shift: 2	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	4.00pm	FIC	LDCC	Referred COO Powerlink – sites at risk	Filed
002	4.10pm	LDCC Liaison	FIC	ROC – request for data on 12000	Filed
003	4.17pm	FIC	FIC	CRTICAL: PowerLink Rocklea Substation	Provided to FIC Controller and addressed
004	4.20	FIC	FIC	Website Change Request – Email Contact	Filed and Circulated
005	4.20	Nicholas O'Donnell	FIC	Website Change Request – Email Contact	Filed
006	4.25	Matthew Cage	FIC	Website Change Request	Filed
007	4.26	FIC	FIC	12,000 cumecs scenario	Provided to FIC Controller
008	4.31	FIC	FIC	Re:CRTICAL: PowerLink Rocklea Substation	Provided to FIC Controller
009	4.31	FIC-Gavin Blakey	Ray	Project River Height@ Brisbane City Gauge	Filed
010	4.39	FIC	FIC	LDCC Request: FIC Roster until 2am Tue morning	Provided to FIC Controller
011	4.54	LDCC	FIC	SITREP	Provided to FIC Controller
012	4.58	FIC	FIC, LDCC, Ellen Davidge	Re: CRITICAL: PowerLink Rocklea Substation	Updated Information from FIC Controller
013	5.01	FIC	LDCC; QLD Police	Updated figures on number of properties affected	Filed
014	5.01	postmaster	FIC	Delivery Status Notification Failure	Provided to FIC Controller and Filed
015	5.09	FIC	Powerlink	BCC Flood Information: PowerLink Rocklea Substation	Filed
016	5.11	Rebecca Harvey	FIC	Brisbane River Flood Forecast Reporting System	Provided to FIC Controller
017	5.13	FIC	Ellen Davidge	Re: LDCC Request: FIC Roster until 2am Tuesday morning - Attn: Ellen	
018	5.14	FIC	Ellen, FIC region 4	LDCC Request: FIC roster	Provided to FIC Controller
019	5:23	FIC	LDCC	FIC SITREP 5:00pm	Filed
020	5.23	Brad Wood	FIC	Website- Internet Connectivity- ISP failures	Filed

Serial	Time	From	To	Item / Event	Comments / Action
021	5.35	FIC	FIC	LDCC Request: Further Reduction in Peak Level	Provided to FIC Controller
022	5.37	FIC	LDCC	FWD: FIC SITREP	Filed
023	5.44	Brad Wood	FIC	LM Announcement- offers for help- Facebook	Provided to FIC Controller
024	5.48	Brad Wood	FIC	ISP Failures fixed	Filed
025	5.49	FIC	FIC	LDCC Request	Provided to FIC Controller
026	5.53	FIC	Brad Wood	Re: LM Announcement- Facebook	Filed
027	5.56	David Sexton	Rebecca Harvey	Re: Brisbane River Flood Forecast Reporting System	Filed
028	6.07	Duty Engineer	FIC	Wivenhoe Dam Projected Releases	Provided to FIC Controller
029	6.12	Trinity Graham	FIC	Brisbane Airport: Attention Gavin Blakey	Filed
030	6.13	FIC	LDCC; DM Duty Officer	BoM 1600 Forecast Flood Inundation Maps	Filed
031	6.14	Rachael Lindsay	FIC	Attendance Sheet Shift 3	Email Actioned and filed
032	6.20	FIC	LDCC	ATTN LDCC SPATIAL	Filed
033	6.20	David Sexton	Rebecca Harvey	Re: Brisbane River Flood Forecast Reporting System	Filed
034	6.29	Evan Caswell	Gavin Blakey	Attn Gavin - discharge for 5.2m	Filed
035	6.30	FIC	FIC	Critical LDCC Request: New Farm Boardwalk - peak level	Provided to FIC Controller
036	6.41	Ellen Davidge	FIC	Record of Conversation: I-transfer link to 1700 SITREP	Email Actioned and filed
037	6.43	Colin Jensen	FIC	SITREP List- Add Contacts	Provided to FIC Controller and actioned
038	6.43	Michael Peters	Parshin Vaghefi	Record of Conversation: Support with HP Printers and Software	Provided to FIC Controller and GIS staff
039	6.44	FIC	Allan McNeil	Latest Flood Level Information 1600 Bom forecast	Filed
040	6.54	FIC	Anthony Cronin	Flood Inundation Maps	Filed
041	7.12	FIC	Gavin Blakey, Ellen Davidge	Fwd: Critical LDCC Request: New Farm Boardwalk - peak level	Filed

Serial	Time	From	To	Item / Event	Comments / Action
042	7:12	Evan	Gavin Blakey, Ellen,	Critical Request LDCC. New Farm Broadwalk	Filed
043	7:16	FIC	Adrian Young	Helicopter Survey	Filed
044	7:22	FIC	FIC	CEO POwerlink Enquiry: Real time info for closest gauge	Provided to FIC Controller and actioned
045	7:30	Teena Blagden - Police	FIC	Attn LDCC re banking enquiry	Filed
046	7:30	Teena Blagden - Police	FIC	Attn LDCC, further re banking enquiry	Filed
047	7:31	Teena Blagden - Police	FIC	Attn LDCC re banking enquiry	Filed
048	7:32	FIC	Ellen, FIC	Advice for Powerlink	Filed
049	7:36	FIC	LDCC	Fwd: Attn LDCC: Banking Request	Filed
050	7:49	FIC	Simon bartlet	Real time information for Oxley creek	Filed
051	8.14	Duty Engineer	FIC and others	Wivenhoe Dam Releases	Provided to FIC Controller
052	8.16	Adrian Young	FIC	Re: Helicopter Survey	Provided to FIC Controller
053	8.19	Customer Contact Solutions	FIC	Customer Contact Solutions	Provided to FIC Controller
054	8.25	FIC	FIC	LDCC Query	Provided to FIC Controller
055	8:30	FIC	LDCC	FWD of Helicopter Survey email to LDCC	Filed
056	8.31	David Sexton	FIC	ROC: Wivenhoe Dam Releases Summary	Provided to FIC Controller
057	9:24	FIC	Ellen Davidge	Fwd: RE: - Helicopter Survey	Filed
058	9.43	FIC	FIC	LDCC Request: Flood Recede summary	Provided to FIC Controller
059	9:45	Anthony Conwell	David Sexton	Record of conversation – Recovery series maps	Filed
060	10:00	FIC	Shane MacLeod	FWD: RE: - Helicopter Survey	Filed
061	10:28	FIC	FIC	Attention FIC Liaison: Previous email	Filed
062	10.29	FIC	FIC	LDCC Query: Confirm aerial survey extents	Actioned
063	10.31	James Charalambous	Jason Beale, Anthony Colwell, FIC	Recovery areas series 1 14 Jan 2011 8am	Provided to FIC Controller

Serial	Time	From	To	Item / Event	Comments / Action
064	10.32	Gavin Blakey	LDCC	Fwd: Re: Floating River Walk	Filed
065	10.33	FIC	FIC, LDCC	FIC Recovery Report #1 12/01/2011 10:30PM	Filed
066	10.35	FIC	LDCC	Fwd: Recovery areas series 1 14 Jan 2011 8am	Filed
067	10.39	FIC	LDCC	Peak discharge associated with a 5.2mAHD flood level	Filed
068	11.02	FIC	FIC	Brisbane flood capture helicopter map	Filed
069	11.22	FIC	FIC	Aerial survey extents	Filed
070	11.26	FIC	FIC	Re: Aerial survey extents	Filed
071	11.30	FIC	FIC	LDCC Query: Roughly when will next recovery series be available?	Provided to FIC Controller, actioned and filed.
072	11.30	Ellen Davidge	Lara Dark	Aerial Survey Revised Version	Confirmed and Filed
073	11.35	Lara Dark	Will Prentice	Confirmation of FIC Recovery Report	Confirmed and Filed
074	11.35	FIC	FIC, LDCC	FIC Recovery Report #2 12/01/2011 11:30PM	Filed
075	11.37	FIC	Adrian Young	confirmation of extents for aerial survey	Filed
076	11.42	FIC	FIC, LDCC	Flood Recession Summary	Filed
077	11.47	FIC	FIC	Fwd: Flood Recession Summary	Filed
078	11.51	Shane MacLeod	FIC	Re: Fwd: Flood Recession Summary	Filed

Sign Off: FIC Controller .....

Date: 13/01/11	Shift: 3	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	12.11	FIC	Powerlink CC LDCC	Contact for further flood information – Ellen Davidge off duty	
002	12.13	FIC – Ellen Davidge	FIC	Thankyou - CEO very happy	Provided to FIC Controller
003	12.40	Charlotte Beresford	Miranda Forwood CC FIC	Website Change Request	Provided to FIC Controller
004	11.58	FIC	Charlotte Beresford	Fwd: Website Change Request - Email Contact	Attachment with reply email address
005	1.33	nearmap	FIC	Re: confirmation of extents for aerial survey	Provided to FIC Controller
006	1.40	FIC	DM Duty officers, LDCC CC:FIC, FIC-Standby-Duty-Officers	BOM Update	
007	1.45	Shane MacLeod (Support Incident Controller)	FIC CC LDCC, Tim Wright	Fwd: Re: confirmation of extents for aerial survey	Provided to FIC Controller
008	1.54	FIC - Will	James Charalambous	update to the SITrep	Provided to FIC Controller
009	2.04	FIC – Trent Laves	FIC CC Others inc Campbell Newman	FIC Recovery Report #3 13/01/2011 2:00AM	Provided to FIC Controller
010	2.04	FIC Liason Will Prentice	LDCC CC FIC, Joshua Ada	Re: BOM Update for SITREP 2am 13/1/11	

Serial	Time	From	To	Item / Event	Comments / Action
011	2.06	James Charalambous	FIC	Fwd: Re: update to the SITrep	
012	3.24	FIC – Trent Laves	FIC, LDCC CC others inc Campbell Newman	FIC Recovery Report #4 13/01/2011 3:15AM	Provided to FIC Controller
013	4.21	FIC	Neil Wood	Air Conditioning	
014	4.21	Neil Wood	FIC	Air Conditioning	
015	4.39	FIC (James Charalambous)	DM Duty Officers	FIC SITREP 13/01/2011 4:30AM	
016	5.00	News ABC	FIC, public	Approx 150m of Riverwalk floated away and intercepted downstream boat	
017	5.15	FIC	FIC	Words for LDCC 6am sitrep?!	Provided to FIC Controller
018	5.22	FIC	FIC	words for 6am sitrep v2	Provided to FIC Controller
019	5.30	FIC	William Prentice CC FIC	Re: words for 6am sitrep v2	
020	5.32	FIC	Will Prentice CC FIC	Emails with name of officer	
021	5.44	SEQ	FIC and others	FOC Situation Report 0600 13 January 2011	Provided to FIC Controller
022	5.47	FIC	Melissa Botha	Words for LDCC 6am sitrep	Provided to FIC Controller
023	6.08	FIC (Charlotte Beresford)	FIC	FIC Recovery Report #6	Provided to FIC Controller
024	7.12	John Cowie	FIC	Re: FIC Recovery Report #1 12/01/2011 10:30PM	Provided to FIC Controller
025	7.27	FIC	FIC	Wivenhoe dam release chart	
026	7.15	FIC	FIC	Meeting notes for Lord Mayor meeting	
027	7.24	FIC	FIC	Meeting notes – Debrief shift 3 to 1	
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Serial	Time	From	To	Item / Event	Comments / Action
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Sign Off: FIC Controller .....

Date: 13/01/11	Shift: 1	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	8.18 am	FIC	FIC	Ass Controller – debrief issues	Filed
002	8.18 am	Powerlink	FIC	Access to Dunn St	Referred to D Simpson
003	8.45 am	FIC	LDCC Liaison	Recovery Report – Thursday 13_1_2011	Filed
004	8.57 am	FIC	LDCC Liaison	Recovery Maps in I Drive	Filed
005	10.26 am	LDCC	FIC	Approval to provide recovery mapping to Powerlink	Result of telephone contact from Powerlink
006	10.39 am	FIC	LDCC Liaison	Recovered Roads peak to recovery level	Filed
007	10.40 am	NearMap	FIC	Capture extents revised - ATC	Acting Controller
008	10.41 am	FIC	Powerlink	Draft Peak Flood Innundation Files	Filed – response received Filed
009	11.13 M	SEQWater	FIC	Comms restored	Filed
010	11.19 am	Gavin Blakey	FIC	Information request to manage Council infrastructure asset	Acting Controller
011	11.32 am	NearMap	FIC	Resent with correct attachments	Acting Controller
012	7.27 am	FIC	FIC	Wivenhoe Dam Release	Filed
013	8.44 am	LDCC Liaison	QPS	Sand bag availability	Filed
014	10.06 am	FIC	Bridie Luva	Map for Mt Crosby	Filed
015	12.55 pm	FIC	LDCC	Powerlink – information on Dunn Rd Rocklea	Filed
016	1.17 pm	FIC	LM Media	Flooded Roads	Filed
017	1.23 pm	FIC	LDCC Liaison	Contact Ipswich City Council	Filed
018	1.25 pm	FIC	QUU	Flood Maps for peak Friday 8am	Filed
019	1.56 pm	FIC	FIC	Road Access –Moggill Rd/ Mt Crosby	Filed
020	2.08 pm	LDCC Liaison	FIC	QUU rating info & routine GIS for maps	Filed
021	2.16 pm	Rachael Lindsay	FIC	Staff for Shift 2 – 13 Jan 2011	Filed
022	2.25 pm	FIC	FIC	GIS layers for QUU Michael Barton	Filed
023	2.31 pm	SEQWater	FIC	Actual & Projected Wivenhoe Releases	Acting Controller
024	2.50 pm	FIC	A Colwell LDCC	Recovery Report Thursday 13/1/2011 2.30p m	Filed

Serial	Time	From	To	Item / Event	Comments / Action
025	2.56 pm	Pat Bourke	FIC	LM urgent request for information on properties purchased under the LMTF VHP Scheme	Controller
026	3.33pm	FIC	FIC - LDCC Bridie Luva	Top Flooded Roads	Filed
027	3.23 pm	FIC	QUU	Flood Maps Model File	Filed
028	3.33pm	FIC	LDCC	Information Request – Cr Abrahams	Filed

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 13/01/11	**Shift: 2**	**Page No: 1**

Serial	Time	From	To	Item / Event	Comments / Action
001	4.07	Adrian Young	LDCC; FIC	FW: capture extents	Provided to FIC Controller
002	4:54	Rachel Lindsay	FIC	FWD: Request for flood mapping	Provided to FIC Controller
003	5.03	LDCC	FIC_GSQ	Fwd: RE: Powerlink Queensland Emergency at Rocklea Attn Don Carrol	Provided to FIC Controller
004	5.09	LDCC	FIC	Fwd: RE: Powerlink Queensland Emergency at Rocklea attn- Don Carroll	Provided to FIC Controller
005	5.11	Rachel Lindsay	FIC	Fwd: RE: Powerlink Queensland Emergency at Rocklea Attn Don Carrol	Provided to FIC Controller
006	5.13	FIC	FIC, LDCC	Correct email	Provided to FIC Controller
007	5.14	David Sexton	FIC	Re: Fwd: RE: Powerlink Queensland Emergency at Rocklea Attn Don Carrol	Filed
008	5.46	FIC	LDCC, FIC	Fwd: RE: Powerlink Queensland Emergency at Rocklea attn- Don Carroll	Filed
009	6:35	FIC	FIC, Pat Bourke	Fwd: Voluntary home purchase data	Filed
010	7:09	FIC	Anthony Colwell. FIC	Peak Inundation Maps for Evac Centres	Filed
011	8:36	Kate Hadden	FIC	Urgent Media Enquiry	Provided to FIC Controller
012	9.06	FIC	LDCC, FIC	FIC Recovery Report Thursday - 13/01/2011 9:00 PM	Filed
013	7.05	FIC	Krysten Booth	Properties flooded by Suburb at peak, 4:00am 13/01/2011	Filed
014	10:09	FIC	FIC	URGENT – Media enquiry	Filed
015	10:54	FIC	Colin Jensen	Link to Recovery Maps	Filed
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Serial	Time	From	To	Item / Event	Comments / Action
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Sign Off: FIC Controller .....

Date: 14/01/11	Shift: 3	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	11.29	Evan Caswell	FIC Standby, FIC, LDCC	Latest BoM advice issued at 10pm	
002	12.17	Ellen Davidge	James Charalambous	Record of Conversation: Update on Issues	
003	12.33	FIC	FIC	LDCC Query: FloodWise Messages Recieved for Creeks?	
004	12.50	Ellen Davidge	FIC	Record of Conversation: Change in Recovery Report	
005	12.53	FIC	LDCC	Floodwise SMS messages 12:00am 14thJan	
006	1.05	Pat Bourke	FIC	Record of Conversation: City Gauge Level of 2.71	
007	1.12	Ellen Davidge	FIC	Record of Conversation: Preparation of SITREP	
008	1.31	FIC	LDCCSITREP	Recovery report for 2am SITREP 14/1/1	
009	1.39	FIC	LDCC	Recovery Report directory's	
010	1.44	Ellen Davidge	FIC	Record of Conversation: RFI: Worst affected suburbs	
011	1.48	FIC	FIC	LDCC Query: Top 12 worse affected suburbs at 6am this morning	Provided to FIC Controller
012	1.54	FIC	FIC	Top flooded suburbs at 8am on 14 /1/11	Provided to FIC Controller
013	2.21	FIC	Daemon Hughes	Link to Recovery Map Series 3	
014	2.34	FIC	FIC	LDCC Query: Please confirm when these roads are clear	Provided to FIC Controller
015	2.36	FIC	LDCC CC FIC Standby, FIC	Summary of Issued Recovery Reports	
016	2.43	FIC	McNeil, Allan	Fwd: Top flooded suburbs at 8am on 14 /1/11	Provided to FIC Controller

Serial	Time	From	To	Item / Event	Comments / Action
017	2.58	Ellen Davidge	FIC	Record of Conversation: VHP Properties	Provided to FIC Controller
018	3.12	Ellen Davidge	FIC	VHP Query: Add any available flooding info?	Provided to FIC Controller
019	3.12	FIC	Ellen Davidge	Re: LDCC Query: Please confirm when these roads are clear	Provided to FIC Controller
020	3.45	Ellen Davidge	FIC	Record of Conversation: VHP Properties	
021	3.58	FIC	FIC	0230 Friday 14 January – Patrol of all vehicular and pedestrian bridges	Provided to FIC Controller
022	4.10	FIC	McNeil, Allan	Bridge and road advice	
023	4.12	FIC	FIC, LDCC	Previous sit-rep	
024	4.13	FIC	FIC Region 4	Re: VHP Query: Add any available flooding info?	
025	4.18	LDCC	FIC Region4	Re: Previous sit-rep	Provided to FIC Controller
026	4.53	FIC	Kevin Young	Surburbs and properties affected 0800 14/01/2011	
027	4.54	Kevin Young	FIC Region4	Re: Surburbs and properties affected 0800 14/01/2011	
028	4.55	FIC	FIC	Confirmation - Previous BRFFS Report Sent	
029	4.57	FIC (Ellen Davidge)	Kevin Young	WRONG ATTACHMENT!! Surburbs and properties affected 0800 14/01/2011	
030	4.58	Kevin Young	FIC	WRONG ATTACHMENT!! Surburbs and properties affected 0800 14/01/2011	
031	5.00	James Charalambous	Ellen Davidge	Forecast	
032	5.04	FIC	Kevin Young	Surburbs and properties affected 0800 14/01/2011	
033	5.05	Kevin Young	FIC Region4	Re: Surburbs and properties affected 0800 14/01/2011	
034	5.14	FIC	Pat Bourke	Fwd: Re: VHP Query: Add any available flooding info?	
035	5.27	FIC	LDCC	Re: Surburbs and properties affected 0800 14/01/2011	

Serial	Time	From	To	Item / Event	Comments / Action
036	5.29	FIC	LDCC	Estimated flood affected properties 0800 14/1 and 15/1	Provided to FIC Controller
037	5.35	Duty Engineer (SEQ)	FUC and others	FOC Situation Report at 06:00 on Friday 14 Janaury 2011	Provided to FIC Controller
038	5.45	Duty Engineer (SEQ)	FUC and others	FOC Situation Report at 06:00 on Friday 14 Janaury 2011	Provided to FIC Controller
039	6.03	FIC	LDCC	Affected Properties Anticipated by 14/01/2011 8:00:00 AM	Provided to FIC Controller
040	6.23	FIC	LDCC	Re: Previous sit-rep	
041	6.27	LDCCSITREP	FIC	Fwd: RESEND: Situation report Friday 14th 0200 hrs	Provided to FIC Controller
042	7.58	Peter Barnes	FIC	Fwd: RE: Powerlink Queensland Emergency at Rocklea Attn Don Carrol	Provided to FIC Controller
043	8.02	FIC	Peter Barnes	Fwd: RE: Powerlink Queensland Emergency at Rocklea Attn Don Carrol	
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Serial	Time	From	To	Item / Event	Comments / Action
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Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	CD F 101 004 Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 14/01/11	Shift: 1	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	8:23am	BOM	FIC	BOM Alert	Response to LDCC & Anthony Colwell about recovery maps and report. Recovery map and report completed – 12:45pm.
002	8:59am	FIC	Travis Carr	Properties affected by Suburb, Inundation Maps	Completed.
003	9:17am	GO Science Australia	FIC (Ken Morris)	Flood Damage Survey	
004	9:31am	FIC	Paul Rishman Peter Waldon	Recovery Maps	
005	9:32am	FIC (LDCC Liaison)	Tony Southey	Recovery Map 0800 14/1/11	
006	12:46pm	FIC	LDCC (Paul Weston)	Envelope Profile – recorded peaks	
007	1:10pm	Peter Barnes	FIC	Error in Recovery Maps	
008	2:32pm	John Burton (CIP)	FIC; LDCC	Cr Hinchcliffe request	
009	2:50pm	FIC	LDCC	Mapping of Flood Peaks	Email
010	3:16pm	FIC	Don Carroll	RNA Showgrounds Evacuation Centre Maps	
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Sign Off: FIC Controller .....

Date: 14/01/11	Shift: 2	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	4.03 pm	QPS	FIC	Thanks for the sitrep	Filed
002	4.45 pm	FIC	LDCC	Attention Paul Weston – 15 Jan 2011 Flood Recovery	Filed
003	4.56 pm	FIC	Cr Abrahams	Wast Collection – response to enquiry	Filed
004	5.57 pm	FIC	FIC	Recovery Maps Series 3 – BCC website	Controller
005	6.09 pm	FIC	Lord Mayor	Equipment offer for recovery effort	Filed
006	6.05 pm	Ellen Davidge	FIC	LDCC Liaison roster	Filed
007	6.14 pm	FIC	LDCC Ludwick Bedeliah – Terry Walsh	FIC Roster as at 6.00 pm	Filed
008	8.09 pm	FIC	LDCC Ludwick Bedeliah – Terry Walsh	FIC Roster as at 8.00 pm	Filed
009	8.16 pm	FIC	FIC	Action to advise Powerlink Flood return period	Controller
010	8.16 pm	FIC	FIC Duty Officer & FIC	How many flooded properties – Liaison Officer	Filed
011	8.52 pm	FIC	FIC Duty Officer – FIC	Response to request for flood return period	Filed
012	10.11 pm	FIC Administrator	FIC Director	FIC Roster as at 8.00 pm – message from Barry Moreton	Filed
013	10.34 pm	FIC	FIC Duty Officer – FIC, LDCC	Update to contact centre flood report data loaded	Filed
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Serial	Time	From	To	Item / Event	Comments / Action

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	CD F 101 004 Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

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Serial	Time	From	To	Item / Event	Comments / Action
001	11.01 pm	Gavin Blakey	FIC	Thanks for graph Coronation Drive	Filed
002	11:17pm	Gavin Blakey	FIC	Return period for flood event	Controller – response given to Gavin
003	5:45am	LDCC (Brady)	FIC	Wants recovery maps that indicate which houses are currently still inundated as of 8am 16-01-11.	Controller – response sent to LDCC
004	5:47am	FIC	Ken Morris	FIC Shifts excel spreadsheet	Sent FIC shifts timesheet to Ken
005	6:09am	SEQ Water	FIC	Situation Report 0600 16/01/11	Controller – no action required
006	6:35am	Ken Morris	FIC	Errors in property database (not all have minimal and maximum ground level or house numbers)	Director – action by FIC directors
007	6:50am	Santina	FIC	Message regarding FIC Controller (James) to not to go to meeting at 10am. Santina will do this.	
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Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 15/01/11	**Shift: 3**	**Page No: 1**

Serial	Time	From	To	Item / Event	Comments / Action
001	11.34pm	LDCC – Brendan Brady	FIC – Evan Caswell	Potential change to releases	Follow up email with action to be provided by Ken and Rob
002	12.30am	LDCC – Brendan Brady	FIC – Rob McGlinn	BRFF turn off; GIS layers report	Brendan requested BRFF for the call centre to be turned off at 12.30am; also GIS layers sent to Brendan for the Sunday report - Actioned
003	3.30am	NearMap	FIC	Email – NearMap	Information re: Photomap of River - Filed
004	6.35am	SEQ	FIC & others	Situation Report	
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Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

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Serial	Time	From	To	Item / Event	Comments / Action
001	8.43am	Santina Pennisi	FIC	Duty Engineer: FOC Situation Report 0630 Saturday 15 January	Email forwarded from FIC Blackberry
002	8.44am	Santina Pennisi	FIC	BOM Alert – 15 January 8:19am	Email forwarded from FIC Blackberry
003	8.44am	Santina Pennisi	FIC	Update from FOC fwd by Chris Lavin 15 January 8.08am	Email forwarded from FIC Blackberry
004	8.45am	Santina Pennisi	FIC	SITREP Saturday 15 January at 0200hrs	Email forwarded from FIC Blackberry
005	9.15am	LDCC – Siva Sivaananthan	David Simpson	Phone call – requesting no. of affected properties by suburb at peak and current	
006	9.20am	LDCC – Siva Sivaananthan	David Simpson	Phone call – requesting map of flood affected properties at peak	
007	10.40am	Tom Williams, Energex	Don Carroll	Phone call – re shared file 16012011.0800	Don Carroll advised it was 2.4mAHD
008	10.41am	Santina Pennisi	FIC	Email – Urgent request from Lord Mayor re what is Brisbane gauge level for 12000 cumec flow map.	Actioned by Don Carroll – reply sent at 11.02am – 6.5m at Bris city gauge
009	10.43am	Travis Carr	Ben Pow, cc FIC	Email – flood affected properties	Being actioned by Nick Bromet
010	10.44am	LDCC – Siva Sivaananthan	FIC	Email – Dangerous Goods location – GIS Mapping	Actioned
011	11.00am	LDCC – Siva Sivaananthan	David Simpson	Phone call – Map & Spreadsheet flooded at peak, dangerous goods email & Address of properties flooded at peak by suburb	
012	11.15am	Brody Willys	David Simpson	Phone call – converting suburbs into SLA	Actioned
013	12.00pm	LDCC – Siva Sivaananthan	David Simpson	Phone call – Ian Maynard request re Insurance Council of Australia, Mapinfo overlay, addresses of flooded properties	Referred back to LDCC GIS through Siva.
014	12.11pm	Ben Pow	FIC	Email reply – Dangerous goods locations – GIS Mapping	Geo codes received
015	12.39pm	Gavin Blakey	LDCC – Siva, cc FIC	Email – Request for predictions of Bris City gauge at Coronation Drive – info required by 4pm	Actioned – reply sent by Santina Pennisi at 2.58pm
016	13.42pm	FIC	LDCC	Email reply – re Dangerous Goods Locations QFRS	
017	14.47pm	Logan Timms	FIC	Email – request for list of roads that flooded during high tide on Thursday	Being actioned by Nick
018	15.06pm	Gavin Blakey	Barry Broe, cc FIC	Email – update re Coronation drive	No action required

Serial	Time	From	To	Item / Event	Comments / Action
019	15.36pm	LDCC – Siva Sivaananthan	FIC – David Simpson	Email – requesting recovery map & table by 08.00am 16 January	Being actioned by David
020	14.48pm	Amber Kelly- SIS	Don Carroll	Phone call – re recovery report V3	Actioned

Sign Off: FIC Controller .....

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Date: 15/01/11	Shift: 2	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	3.36 pm	FIC	FIC	Recovery map & table for Monday 17 Jan 2011	Filed
002	4.10 pm	Ben Power	FIC Ian Maynard	Insurance Council – list of rateable properties inundated	List copied to FIC directory
003	5.26 pm	FIC	FIC, FIC Duty, LDCC	FIC Recovery Report #5 Monday Jan 2011	Filed
004	5.30 pm	FIC	FIC Duty	Update for LDCC Sit Rep Report	Controller
005	5.50 pm	FIC	FC Duty	Coronation Drive - update from Santina Pennisi	Filed
006	5.56 pm	Peter Barnes	FIC	Post Flood Data Collection & response	Controller – responded
007	6.03 pm	FIC	FIC Duty	Update LDCC Sit Rep	Controller actioned - filed
008	6.09 pm	GavinBlakey	FIC	SES Mapping – Contact Lowry Boyd	Action GIS Officer
009	6.36 pm	FIC	LDCC	Recovery Report distribution to include LDCCSITREP	Controller
010	6.35 pm	Jason Beal	FIC	Event Flood Level Envelope	Filed
011	7.00 pm	Peter Barnes	FIC	Trace City Flood Gauge	Filed
012	8.32 pm	FIC	LDCC	Bulk Waste Bins	Filed
013	9.16 pm	FIC	SES	Maps for gurney trucks	Filed
014	9.52 pm	FIC	FIC	High Tides coming – how hi	Controller
015	9.44 pm	FIC	FIC	Moggill Creek Gauge	Filed

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 16/01/11	**Shift: 3**	**Page No: 1**

Serial	Time	From	To	Item / Event	Comments / Action
001	12.35am	LDCC	FIC – Bruce Grice	Phone call – request for tide map	actioned by Rob McGlinn
002	6.02am	FIC, Josh Luck	FIC	Email – updated BOM tide predictions, Auchenflower	Filed
003	1.26 am	FIC	LDCCSITREP	SITREP Forecast 17 Jan 2011 0800	Filed

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 16/01/11	**Shift: 1**	**Page No: 1**

Serial	Time	From	To	Item / Event	Comments / Action
001	7.42am	Gavin Blakey	FIC	Return Period for Flood Event	Controller – response give to Gavin
002	10:13am	Catherine Papa	FIC	High tides and Flooding	Action – sent to James
003	11.22am	LDCC	FIC	East Brisbane Cooparoo Flood Site	Action – sent to David David responded 11.33am
004	12:17pm	LDCCSITREP	FIC & others	Reminder – Next Sitrep	Action – sent to James
005	1:31pm	Catherine Papa	FIC (David Simpson)	Flooded Property List	Action – sent to David
006	1.45pm	FIC James Charalambous	LDCC	Update for 2pm SITREP	Sent
007	3.05pm	Catherine Papa	FIC James Charalambous	Flood Data Collection	Email sent to controller – James responded with phone call & email at 3.37pm

Sign Off: FIC Controller .....

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Serial	Time	From	To	Item / Event	Comments / Action
001	4.05pm	Catherine Papa	FIC David Simpson	La Nina Effect on Tides	Action – Sent to David
002	4.25pm	Siva	FIC	Release of Tab file information to QLD Police Service	Phone message given to James – response sent by Jeffrey Secker at 4.48pm
003	4.29pm	FIC James Charalambous	FIC	BOM forecast for 17/1/11 at 8am	No action required – email filed
004	4.36pm	Gavin Blakely	FIC	Response for GIS layer of maximum inundation	Action – given to controller – response sent by Jeffrey Secker at 4.48pm
005	5.07pm	LDCC	FIC James Charalambous	Access to nearmap.com PhotoMaps	Action – given to controller
006	5.40pm	Greg Sewell	FIC James Charalambous	Re: Info to QPS	Action – given to controller
007	7.40pm	FIC Siva Sivaananthan	Peter Jasper	Groundtruthing of Flooded Properties 17-01-2011	Action – given to controller Don Carroll
008	7.58pm	LDCC	FIC Debbie Farmer	King Tide on Friday 21st	Action – given to controller Don Carroll and response made by Debbie Farmer at 8.19pm
009	8.56pm	FIC Siva Sivaananthan	FIC Don Carroll	Recovery Report for 17-01-2011	Action – given to controller Don Carroll
010	10.02pm	FIC Siva Sivaananthan	FIC Alexia Bates	Change of report	No action required – recovery report to be finialised and sent via email.
011					
012					

Sign Off: FIC Controller .....

Date: 17/01/11	Shift: 1	Page No: 1

Serial	Time	From	To	Item / Event	Comments / Action
001	8.25 am	Near Map	FIC	Photomaps added to Breakfast Creek/Mt Crosby	Filed
002	9.13 am	FIC	FIC LDCC	FIC Sitrep Monday 17 Jan 2011 9.00 am	Filed
003	9.22 am	K Oberto DM	FIC	Review email from DM	Controller
004	9.25 am	FIC	FIC LDCC	Predicted water levels at Chasely St	Filed
005	9.28 am	FIC	K Oberto DM	FIC Sitrep sent to DM	Filed
006	10:05 am	Call Centre	FIC	Chris Catalino from Water Technology called through call centre for Evan/Santina. Is after data.	No action. Filed.
007		Jimmy S	FIC		Controller
008	11.48 am	Actice Tansp	FIC	Flood maps – updating webpage	GIS Officer
009	11.59 am	FIC	Matthew A	GIS Officer	Filed
010	11.27 am	FIC	FIC	Estimate Peak Charges	Filed
011	12.04 pm	FIC	Lee Garnett	Peak Flood inundation outline	Filed
012	12:26pm	FIC (Peter Barnes)	Kate Haddan	Copy of details from Sitrep for peak of flooding	Filed
013	12:48 pm	Ellen	FIC	What the level would be if there was no Wivenhoe Dam	Controller. Filed
014	12:43 pm	FIC LDCC (Peter Barnes)	Michael Latter	Bcc ownership on bimap [redacted] Boobook St, Rocklea	Filed
015	12:57 pm	RRG (Peter Jasper)	FIC; LDCC	Groundtruthing of flooded properties on 17-01-2011	Controller
016	12:55 pm	FIC	LDCC	Flood Mapping Update of corporate website	Filed
017	12:31 pm	K Oberto DM	FIC	Conversion tide height to AHD	Controller.
018	01:10 pm	FIC LDCC (Peter Barnes)	FIC	What the level would be if there was no Wivenhoe Dam	Controller
019	1.43 pm	FIC	LDCC	FIC Sitrep Monday 17 Jan 2011 2pm	Filed
020	1.46 pm	FIC Director	Rob Drury	Bank slippage – slow down in gate closing at Dam	Filed
021	2.16 pm	FIC	LDCCSitrep	Report – include this address to send SIT REP	Filed

Serial	Time	From	To	Item / Event	Comments / Action
022	3.15 pm	Mark H – Rates	FIC Director	List of all flooded properties so LM can provide rates rebate	Filed
023	3.20 pm	ARUP	FIC	Offer to provide 2D model and photos of the current flood	Controller – please ring Phillipe Viernott

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	**CD F 101 004** Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

Date: 17/01/11	**Shift: 2**	**Page No: 1**

Serial	Time	From	To	Item / Event	Comments / Action
001	3.37 pm	FIC	Rates	Flood envelope – flood impacted properties	Filed
002	3.46 pm	Ellen Davidge	Rob Wright	Flood Mapping request -	Filed
003	4.18 pm	FIC	FIC Duty	Draft – FIC Liaison Officer	Filed
004	4.44 pm	FIC	FIC Duty GSQ Security	FIC operational until 23 January 2011	Filed
005	4.55 pm	SEQWater	FIC	SITREP 1700 Monday 16 Jan 2011	Filed
006	5.55 pm	FIC	Jason Beale	Recovery Maps	Filed
007	6.31 pm	FIC	Jason Beale	No change to recovery maps – 18/1 – 19/1	Filed
008	9.23 pm	FIC	K Oberto DM	King Tide Friday – advice on height – completed	Filed
009	10.05 pm	FIC	Cont Centre	Flood Affected Suburbs – requested for DERM	Filed
010	11.42 pm	FIC	Ken Morris – Santina Pennisi	Flood Bender Issues	Action required – K Morris & S Pennisi
011	11.54 pm	FIC	FIC	Difficulty contact BOM	Filed
012					

Sign Off: FIC Controller .....

	Brisbane Infrastructure Integrated Management System **Flood Information Centre** FIC Operations Log Sheet	CD F 101 004 Date: 31 October 2008 Rev no: 1 A Rev date: 31 October 2009 Page 1 of 1

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Serial	Time	From	To	Item / Event	Comments / Action
001	7.37 am	FIC	FIC	Update flooded property audit	Filed
002	7.42 am	FIC	FIC Duty	Arrange IDrive to be retained	Filed
003	7.49 am	LDCCSITREP	FIC	SITREP – information	Filed
004	7.50 am	FIC	Peter Barnes	Flood mapping request GIS	Filed
005	8.30 am	FIC	ISB	FIC Telephone – will ring Santina Pennisi	Filed
006	8.50 am	FIC Controller	FIC	Brisbane Tide information	Filed
007	8.58 am	FIC	FIC Duty	FIC Sitrep 18/1/2011	Filed
008	9.15 am	FIC	FIC Duty	King Tide confirmation	Filed
009	9.22 am	FIC	FIC Duty	Brisbane Flood Inundation Line	Filed
010	10.33 am	FIC	FIC	I Drive – FIC	Filed
011	10.07 am	FIC	FIC Duty	Brisbane Flood Inundation Line	Filed
012	10.02 am	FIC	R Smith ISB	IDrive – check with ISB	Filed
013	10.26 am	FIC	K Oberto	King Tide Friday – Queensland Tide Table confirmation	Filed
014	10.26 am	FIC	LDCC	1893 Flood Level Brisbane City Gauge	Filed
015	10.27 am	FIC	FIC	John Kakourakis City Assets – regards from City Assets	Filed
016	10.53 am	FIC	LDCC	Impact of this event – no Wivenhoe Dam	Filed
017	10.58 am	FIC	ISB CIO LDCC – D Carroll – Dean Morse	Sustainability of I Drive Transfer FIC	Filed
018	12:15 pm	Intelligence Transport Systems (Mark)	FIC	After historical flood data	Actioned by Controller. Filed.
019	11.53 am	Nick Brant	FIC	Transfer Drive Support	Filed
020	12.31 pm	FIC	FIC	Update affected properties	Filed
021	1.21pm	K Oberto	FIC	King Tide	Filed

Serial	Time	From	To	Item / Event	Comments / Action
022	1.33 pm	FIC	LDCC LDCCSitRep	Recovery Report #6	Filed
023	2.59 pm	Belinda Chapman	FIC Controller	Railway Terrace Query – completed	Filed
024	2.59 pm	FIC	K Oberto	Scripting Contact Centre King Tide	Filed
025	300 pm	FIC	Paul Birch	Brisbane URBS Model published to registered user web site	Filed

Sign Off: FIC Controller .....

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Serial	Time	From	To	Item / Event	Comments / Action
001	4.30 pm	Klynt Oberto	FIC	Call Centre Scripting for King Tide	Filed
002	4.43 pm	FIC	FIC	LDCC Request for ADF Aerial Survey Enquiry – defence	Filed
003	5.20 pm	FIC	LDCC	BOM Contacts	Filed
004	5.40 pm	SEQWater	FIC	FOC Situation Report 18:00 Tuesday 18/1/2011	Filed
005	6.06 pm	Ellen Davidge	FIC	WR Number of affected properties	Filed
006	7.04 pm	QPS	FIC	SES request – thanks BBQ hosted by K Rudd	Filed
007	8.24 pm	FIC	LDCCSITREP	Recovery Report #7 Wednesday 19/1/2011 08:00	Filed
008	9.17 pm	FIC	M Bell	Brisbane Rainfall data	Filed
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Serial	Time	From	To	Item / Event	Comments / Action
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Sign Off: FIC Controller .....

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Serial	Time	From	To	Item / Event	Comments / Action
001	8.50 am	FIC	LDCCSitrep	SitRep report Wednesday 19 Jan 2011	Filed
002	8.53 am	FIC	FIC	FIC Laison Officer BOM Weather Forecaster Ph Number	Filed
003	8.58 am	FIC	Peter Waldon	Cleaning Solution – QPS	Filed
004	9.02 am	FIC	LDCCSITREP	Resent Sitrep – new expected peak levels	Filed
005	10.06 am	FIC	K Morris	Brendan Soutal – Powerlink	Action completed - filed
006	10.49 am	LDCC	FIC GIS	url flood map	Filed
007	11.45 am	FIC	LDCC	City Planning – peak flood event mapping	Filed
008	1.40 pm	Ellen Davidge	FIC	Update on flooded property audit	Filed
009	1.45 pm	Peter Barnes	LDCC	FIC Liaison Role request to cease with LDCC	Information Controller Filed
010	1.46 pm	SEQWater	FIC	Situation Report 1345 Wedensday 19 Jan 2011	Filed
011	1.51 pm	SEQWater	FIC Withdraw	Situation Report 1345 Wednesday 19 Jan 2011	Filed
012	1.57 pm	SEQWater	FIC	Situation Report 1400 Wednesday 19 Jan 2011	Filed
013	2.00 pm	FIC	FIC	Flood Height Level for Fridays King Tide	Action Controller
014	3.17 pm	FIC	LDCC	Revised Recovery Report for 17/1/2011	Filed
015	3.12 pm	FIC	Gavin Blakey	King Tide Height Friday 21 Jan 2011	Filed
016	3.14 pm	Peter Barnes	FIC	FIC Liaison Roled Ceased	Information Controller - Filed
017	3.17 pm	FIC	LDCC	Revised Recovery Report 17/1/2011	Filed
018	3.35 pm	FIC	K Oberto	Change in King Tide Level Friday 21 Jan	Filed
019	3.50 pm	O Perera	FIC	GIS layer for peak inundation	Completed GIS officer
020	3.57 pm	SEQWater	FIC	Floodplain storage – Attent James C	Controller

Sign Off: FIC Controller .....

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Serial	Time	From	To	Item / Event	Comments / Action
001	4:35 pm	FIC	Peter Barnes	City Gauge Information Request	Filed
002	4:31 pm	Gavin Blakey	LDCC	Re: King Tide Impacts on Friday	Filed
003	4:38 pm	FIC	LDCC	FIC Sitrep – Tidal Forecast for the 21/1/2011 at 11:00am	Filed
004	4:43 pm	LDCC	FIC	Confirming 'King Tide Impacts of Friday' email from Gavin	Filed
005	5:10 pm	FIC	Isis Kowaliauskas (Corporate Strategy Office)	Urgent request for info for LMO	Actioned and Filed
006	5:13 pm	Isis Kowaliauskas (Corporate Strategy Office)	FIC	Urgent request for info for LMO – request to send to Media Matters (Renee Jones)	Filed
007	5:13 pm	FIC	GavinHackett [redacted]	Property Inundation Figures	Filed
008	5:32 pm	FIC Liaison (Ellen)	MediaMatters	December 21 tidal flooding affected areas	Filed
009	5:41 pm	FIC	MediaMatters (ReneeJones)	21 December 2010	Filed
010	6:15 pm	Ellen Davidge	FIC	King Tide Information from December	Filed
011	6:21 pm	FIC	LDCC	21 December 2010 – High Tide	Filed
012	6:32 pm	FIC	Ellen Davidge	Flooded Property Report	Filed

Serial	Time	From	To	Item / Event	Comments / Action
013	6:58 pm	David Simpson	FIC	Request for update on information. Attachment sent by Greg Wilson from Major Infrastructure Projects Office.	Filed
014	7:28 pm	FIC	Ken Morris	21 December 2010 – High Tide	Filed
015	7:55 pm	FIC	MediaMatters (ReneeJones)	FIC Sitrep – Tidal Forecast for the 21/1/2011 at 11:00am	Filed
016	8:10 pm	Media Matters (Renee Jones)	FIC	Areas that flooded on 21 December with tidal flooding	Filed
017	8:23 pm	FIC	MediaMatters (ReneeJones)	High Tide Advice for the 21/1/2011	Filed
018	9:03 pm	FIC	MediaMatters (ReneeJones)	Response for approval	Actioned and Filed
019	9:41 pm	FIC	FIC	FloodWise Report	Filed
020	11:51 pm	FIC	FIC	Communication Issues	Filed

Sign Off: FIC Controller .....

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Serial	Time	From	To	Item / Event	Comments / Action
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Sign Off: FIC Controller .....

DATE	TIME	ACTION	CATEGORY	INITIALS
Thursday 6/1/2011	7:00 AM	TM duty Engineer. Rainfall and water had been remote monitored to this point in time. TM advises Senior Duty Engineer that Flood Operations are required at both Somerset, Wivenhoe and North Pine Dams. TM arrived at FOC to assess strategies and mobilises FOC, Wivenhoe, Somerset and North Pine Dam. North Pine Dam At 07:00hrs Thursday, North Pine Dam was 39.60m, 0.05m below gate trigger level and having risen 0.18m since 2/1/2011 due to a combination of base flow and runoff from rain in the last 24 hours. Given the forecast rain, gate operations will commence tonight. MBRC will be advised this morning. Somerset Dam At 07:00hrs Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck. Further regulator operations will be required later Thursday. Wivenhoe Dam The regulator and hydro were discharging at 50 cumecs to manage baseflow recession from previous flow event. At 07:00hrs Thursday, Wivenhoe Dam was 67.31m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. Ther	Situation Report	MT
	8:00 AM	SDWD Model Updated - SDWD-201101060800.xls	Model Run	JW
	8:00 AM	NPD model updated - NPD-201101060800.xls	Model Run	JW
	8:14 AM	**Situation Report 0800 06/01/2011** Rainfall - Since 9am Wednesday, there have been widespread falls of 30mm with isolated heavy falls up to 50mm in the Somerset and Wivenhoe catchments. Totals in the North Pine catchment have generally been below 10mm. Falls up to 60mm were recorded in the Leslie Harrison catchment. - The forecast for the next 24 to 48 hours is for totals up to 150mm in SE Qld. - The catchments remain wet and are likely to generate additional runoff in the event of rain. North Pine Dam - At 0700 Thursday, North Pine Dam was 39.60m, 0.05m below gate trigger level and having risen 0.18m since 2/1/2011 due to a combination of baseflow and runoff from rain in the last 24 hours. - Given the forecast rain, gate operations will commence tonight. MBRC will be advised this morning Somerset Dam - At 0700 Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck. Further regulator operations will be required later Thursday.	Situation Report	TM

"JMC-3"

DATE	TIME	ACTION	CATEGORY	INITIALS
		Wivenhoe Dam - At 0700 Thursday, Wivenhoe Dam was 67.31m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. There have been rises recorded at rivers and stream upstream of Wivenhoe Dam. Gates will be opened in the next 24 hours to manage the inflows from the upper Brisbane River and the outflow from Somerset. Impacts of Wivenhoe Dam Releases - Somerset Regional, Ipswich City and Brisbane City Councils will be advised of the potential for gate operations after a full assessment of the situation this morning. At this stage it is anticipated that peak releases from Wivenhoe will be below 500m3/s but this will depend on the forecast rain and flows downstream of the dam. - The expected Wivenhoe release and local flows will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days. At this stage, there are not expected to be any adverse impacts upon Fernvale Bridge, Burtons Bridge or Mt Crosby Weir Bridge Leslie Harrison Dam Following the heavy rainfall Wednesday night, gate operations commenced at Leslie Harrison Dam late Wednesday night and are continuing. Given the forecast rainfall, gate operations are expected to continue for the next 24 to 48 hours. The next situation report will be issued at 1800 Thursday 6/1/2011.	Situation Report	
8:30 AM		MT spoke with Graham Keegan (Stand-in Central Coordinator) about readiness of staff for flood operations. Graham confirms that staff have been rostered and are ready.	Correspondence	MT
8:50 AM		Andy Bickerton (MBRC) called to query about flows are Fernvale bridge. TM provided an update for possible gate operations.	Correspondence	MT
9:05 AM		Glen Paterson called to inform that North Pine Dam staff have been rostered and are ready.	Correspondence	MT
9:40 AM		Rob Drury called to inform that Tony Trace has returned to the office and is contactable. He also requested for a situation update.	Correspondence	MT
11:00 AM		Tony Trace (Ipswich City Council (ICC)) called for a situation update. TM shared the release strategy for tonight.	Correspondence	MT
11:49 AM		TM advised MBRC Call Centre that North Pine Dam will commence gate operations tonight. He requested for MBRC to call him.	Correspondence	MT
12:00 PM		SDWD Model Updated - SDWD-201101061200.xls	Model Run	JW
12:04 PM		Kerry (MBRC) called. TM advised her that the latest North Pine Dam gates may be opened will be 7:00pm today. FOC will advise them accordingly.	Correspondence	MT
12:43 PM		Andy Bickerton (MBRC) called. TM advised that water will be over Savages Crossing until end of the week.	Correspondence	MT
12:46 PM		TM advised Ken Marsh (BCC) Wivenhoe Dam will commence gate operations later today.	Correspondence	MT
1:30 PM		**Revised Operating Strategy 1200 6/1/2011** North Pine - On track to open tonight Somerset/Wivenhoe - No change to current status – expected inflow volume about 45,000ML. Will reach about 99.7m AHD without releases. - Expected inflow volume about 130,000ML including Somerset. Will reach about 68.3m AHD without releases. - There has been further heavy falls in the Lockyer since 0900 Thursday and the flow from the Lockyer is going to be larger than initially assessed, possibly as high as 600m3/s peaking Saturday. This may close Burtons without any contribution from Wivenhoe. The opening of the Wivenhoe gates will therefore be delayed until the Lockyer peak passes.	Situation Report	TM
1:32 PM		TM left message for Tony Jacobs (SRC) to return his call.	Correspondence	MT
1:35 PM		TM advised Andy Bickerton (MBRC) Wivenhoe gate operations will be delayed to Saturday morning. This is due to higher than expected inflows from Lockyer.	Correspondence	MT

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:45 PM	TM advised Tony Trace (ICC) Wivenhoe's gate operations will be delayed till Saturday morning. This is due to higher than expected inflows from Lockyer.	Correspondence	MT
	1:46 PM	TM left message for Chris Levin (BCC) to return his call.	Correspondence	MT
	1:47 PM	TM left message for Ken Morris (BCC) to return his call.	Correspondence	MT
	2:41 PM	Andy Bickerton (MBRC) asked for TM's mobile. He wanted to share MBRC's text message informing people living downstream from North Pine Dam.	Correspondence	MT
	2:45 PM	Ken Morris (BCC) called for situation update. TM provided an update.	Correspondence	MT
	2:54 PM	**Situation Report 1500 06/02/2011** Rainfall - In the 6 hours since 9am Wednesday, there have been general totals around 30mm with isolated heavy falls up to 60mm in the Somerset and Wivenhoe catchments. Totals in the North Pine catchment have generally been between 20 and 30mm. Falls between 20 and 30mm were recorded in the Leslie Harrison catchment. -The forecast for the next 24 to 48 hours is for totals up to 100mm in SE Qld. -The catchments remain wet and are likely to generate additional runoff in the event of rain. North Pine Dam At 1400 Thursday, North Pine Dam was 39.66m, 0.01m above gate trigger level. Gate operations will commence at 1900 Thursday and will impact upon Youngs Crossing. MBRC have been advised and will confirm closure of Youngs Crossing prior to gate operations. Given the forecast rainfall during Friday, gate operations may continue into Saturday. Somerset Dam At 0700 Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck, adding to the Somerset inf	Situation Report	TM
		Wivenhoe Dam - At 0700 Thursday, Wivenhoe Dam was 67.31m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. There have been rises recorded at rivers and stream upstream of Wivenhoe Dam. The estimated event inflow volume into Wivenhoe Dam is 180,000ML including Somerset Dam outflow. - There has been significant rainfalls in the Lockyer Ck catchment since 0900 Thursday and a peak of about 600m3/s is expected from the Lockyer late Friday. Wivenhoe gates will be opened after flood levels in the lower Lockyer subside. At this stage Wivenhoe releases during Saturday may be as high as 1,500m3/s and continue for a couple of days. Impacts of Wivenhoe Dam Releases - Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the potential for gate operations during the next 24 hours. - The will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days. The relatively high Lockyer flows will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for	Situation Report	
	3:00 PM	SDWD Model Updated - SDWD-201101061500.xls	Model Run	JW
	3:11 PM	Jimmy Stewart (BoM) called to discuss with TM about readings from Upper Brisbane & Lockyer. Jimmy & TM are in agreement on readings.	Correspondence	MT
	3:19 PM	Kerry (MBRC) called. TM advised her North Pine Dam will commence gates operations from 19:00 hrs.	Correspondence	MT
	4:00 PM	SDWD Model Updated - SDWD-201101061600.xls	Model Run	JW
	4:00 PM	NPD model updated - NPD-201101061600.xls	Model Run	

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:30 PM	Issued North Pine Directive #1. • Gate C : Open 1 increment at 1900 • Gate E : Open 1 increment at 1915 • Gate A : Open 1 increment at 1930 • Gate D : Open 1 increment at 1945 • Gate B : Open 1 increment at 2000	Directive	NGA
	5:33 PM	**Situation Report 1800 06/01/2011** Rainfall - In the 8 hours since 9am Wednesday, there have been general totals around 30mm with isolated heavy falls up to 60mm in the Somerset and Wivenhoe catchments. There have been significant rainfalls in the Lockyer Ck catchment in the last 24 hours with widespread falls of 50mm and isolated falls up to 75mm. Totals in the North Pine catchment have generally been about 30mm. Falls between 20 and 30mm were recorded in the Leslie Harrison catchment. - The forecast for the next 24 to 48 hours is for totals up to 100mm in SE Qld. North Pine Dam At 1700 Thursday, North Pine Dam was 39.68m, 0.03m above gate trigger level. Gate operations will commence at 1900 Thursday and will impact upon Youngs Crossing. Moreton Bay Regional Council has been advised and will confirm closure of Youngs Crossing prior to gate operations. Given the forecast rainfall during Friday, gate operations may continue into Saturday. Somerset Dam At 1700 Thursday, Somerset Dam was 99.45m, 0.45m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck, adding to the Somerset inf	Situation Report	TM
		Wivenhoe Dam - At 1700 Thursday, Wivenhoe Dam was 67.39m and rising slowly. This is 0.39m above FSL and above the gate trigger level of 67.25m. Upstream of the dam river levels are still rising at the Linville and Gregors Ck gauges. The estimated event inflow volume into Wivenhoe Dam is 180,000ML including Somerset Dam outflow. - A peak of about 600m3/s is expected from the Lockyer late Friday. At this stage there is some uncertainty associated with this estimate and it may or may not impact Burtons Bridge. Wivenhoe gates will be opened after the impact of Lockyer flows on Burtons Bridge has been ascertained and flood levels in the lower Lockyer subside. At this stage Wivenhoe releases will commence late Friday/early Saturday and may be as high as 1,500m3/s, similar to recent events, and continue for a couple of days. Impacts of Downstream of Wivenhoe - Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the potential for gate operations during the next 24 hours. - The relatively high Lockyer flows will adversely impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days and may impact upon Burtons Bridge early Saturday. At this stage, there are not expected to be any adverse impac	Situation Report	
	6:57 PM	Brett Schultz (North Pine Dam) called to inform that MBRC workmen were waiting until 19:00 hrs to close Young's Crossing boom gates. This delayed dam gate opening by 15 minutes.	Correspondence	NGA
	7:45 PM	Graham Francis (Somerset Dam) called to enquire about the release strategy. RA advised the impacts of the Lockyer flow were being monitored. Communication by e-mail was O.K.'ed.	Correspondence	NGA
	8:15 PM	Issued North Pine Directive #2. • Gate C : Open to 2 increments at 20:30 • Gate E : Open to 2 increments at 20:45 • Gate A : Open to 2 increments at 21:00 • Gate D : Open to 2 increments at 21:15 • Gate B : Open to 2 increments at 21:30	Directive	NGA
	9:00 PM	NPD model updated - NPD-201101062100.xls	Model Run	
	9:00 PM	SDWD Model Updated - SDWD-201101062100.xls	Model Run	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
Friday, 7 January 2011	6:07 AM	**FOC Situation Report at 06:00 on Friday 7 January 2011** Rainfall - There have been general totals around 30 to 50 mm with isolated heavy falls up to 75mm in the Somerset and Wivenhoe catchments since the event commenced on Wednesday 5 January 2011. There have been significant rainfalls in the Lockyer Ck catchment in the last 72 hours with widespread falls of 50mm and isolated falls up to 100mm. - Totals in the North Pine catchment have generally been about 35mm. - Falls between 20 and 30mm were recorded in the Leslie Harrison catchment. - The forecast for the next five days is for totals between 100 and 200mm in SE Qld. Given the saturated condition of the catchments further runoff will most likely be generated from this rainfall. North Pine Dam At 0600 Friday, North Pine Dam was at 39.48m, 0.12m below FSL. Gate operations commenced at 1915 on Thursday 6 January and are expected to continue until at least mid-day Friday 7 January when North Pine Dam is expected to be at 39.40m. These releases have impacted upon Youngs Crossing. Moreton Bay Regional Council was advised and they closed Youngs Crossing prior	Situation Report	LVB
		Wivenhoe Dam - At 0600 Friday, Wivenhoe Dam was at 67.64m and rising slowly. This is 0.64m above FSL and above the gate trigger level of 67.25m. Upstream of the dam river levels have peaked at the Linville and Gregors Ck gauges. The estimated event inflow volume into Wivenhoe Dam is 230,000ML including Somerset Dam outflow. - A peak of about 470 cumecs is expected from Lockyer Creek by mid-afternoon on Friday 7 January. At this stage there is some uncertainty associated with this estimate but it may be of sufficient magnitude to inundate Burtons Bridge. - Wivenhoe gate releases will occur after the impact of Lockyer flows on Burtons Bridge has been ascertained and flood levels in the lower Lockyer subside. It is proposed that Wivenhoe releases will commence late Friday/early Saturday and may be as high as 1,200 cumecs, (similar but slightly smaller to recent events), and the releases are expected to continue over the weekend though to Monday or Tuesday. Impacts of Downstream of Wivenhoe - Somerset Regional Council, Ipswich City Council and Brisbane City Council have been advised of the potential for gate operations	Situation Report	
	7:00 AM	TM and LVB commenced day shift.	Other	LVB
	8:00 AM	Advice from BoM indicates that SEQ can expect some high rainfall totals over the next 5 days up to Tuesday 11/1/11 with the largest falls predicted for Sunday and Monday.	Correspondence	LVB
	8:00 AM	NPD model updated - NPD-201101070800.xls	Model Run	
	8:21 AM	Called Tony Jacobs @ Somerset Council to inform him that the Lockyer is running - all bridges in Somerset Region will be cut off this morning. Wivenhoe gates will be opened once the Lockyer peak is through.	Correspondence	LVB
	8:40 AM	FOC called Kerry (MBRC) to inform them that North Pine will be operate for the next few days - probably till Tuesday.	Correspondence	LVB
	8:44 AM	Called Chris Lavin (BCC) to inform that Wivenhoe gates will be opened again this afternoon and releases might peak at 1500m3/s. This might continue until the end of next week.	Correspondence	LVB
	8:47 AM	Called Tony Trace (ICC) to inform him that Wivenhoe gates will be opened again this afternoon and releases might peak at 1500m3/s. This might continue until the end of next week.	Correspondence	LVB
	10:12 AM	Called Robert Glen (BCC) to provide situation report.	Correspondence	LVB
	12:00 PM	NPD model updated - NPD-201101071200.xls	Correspondence	
	12:00 PM	SDWD Model Updated - SDWD-201101071200.xls	Model Run	JW
	12:15 PM	**SitRep** There has been falls between 15 and 30mm in the North Pine catchment in the last 3 hours. This will cause renew rises and increased inflows. There are no gate movements projected for the next 3 hours.	Situation Report	TM

DATE	TIME	ACTION	CATEGORY	INITIALS
	12:34 PM	Issued Wivenhoe Directive #1. • 15:00 Open Gate 3 from 0.0 metres to 0.5 metres • 16:00 Open Gate 3 from 0.5 metres to 1.0 metres • 17:00 Open Gate 3 from 1.0 metres to 1.5 metres • 18:00 Open Gate 3 from 1.5 metres to 2.0 metres • 19:00 Open Gate 3 from 2.0 metres to 2.5 metres • 20:00 Open Gate 3 from 2.5 metres to 3.0 metres • 21:00 Open Gate 3 from 2.5 metres to 3.5 metres	Directive	LVB
	3:02 PM	Don Carrol (BCC) called FOC with concerns that dam release will add another 200mm on top of abnormal high tide. TM spoke to Jimmy Stewart (BoM) who advised that the effect could be around 50mm - if that can be measured.	Correspondence	LVB
	5:00 PM	Issued Somerset Directive #1. • Please open a regulator 100%	Directive	LVB
	6:00 PM	SDWD Model Updated - SDWD-201101071800.xls	Model Run	JW
	6:00 PM	Issued Somerset Directive #2. • Please open Sluice M at 12:00.	Directive	LVB
	6:00 PM	Issued North Pine Directive #3. • Gate B : Close to 1 increment at 19:00 • Gate D : Close to 1 increment at 19:15 • Gate A : Close to 1 increment at 19:30 • Gate E : Close to 1 increment at 19:45 • Gate C : Close to 1 increment at 20:00	Directive	LVB
	6:00 PM	**Situation Report 1800 Friday 07/01/2011** Rainfall - Since 0900 Friday, there has been widespread 20 to 40mm throughout North Pine, Somerset and Wivenhoe catchments with isolated higher totals of 70mm in the upper reaches of the Brisbane R. - Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days. Saturday: Rain light at times 15-50mm with higher falls along the coast Sunday: Widespread rain with totals between 50-100mm Monday: Widespread rain again with totals between 50-100mm Tuesday: Rain easing with totals between 25-50mm Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday. North Pine (Full Supply Level 39.60 m AHD) - At 1700 Friday, North Pine currently has 5 gates open releasing runoff from rain on Wed/Thursday. Given the very high likelihood of significant runoff during the next 4 days, gates will be keep open to match inflows over the next few days, rather than opening and	Situation Report	TM

DATE	TIME	ACTION	CATEGORY	INITIALS
		Wivenhoe (Full Supply Level 67.00 m AHD) - At 1700 Friday, Wivenhoe Dam was 68.10 m AHD and rising steadily with one gate open to 1.5 metres and releasing about 168m3/s. River levels upstream of Wivenhoe Dam were rising again, generating further inflow to the dam It is intended to ramp up the release from Wivenhoe to about 1,200m3/s during the next 18 hours. However, given the high likelihood of significant inflows in the next week, this may be increased later on the weekend. - Since the commencement of the event on 02/01/2011, approximately 140,000ML has flowed into Wivenhoe Dam with a further 160,000ML expected (including Somerset release) based on the recorded rainfall to date. Approximately 24,000ML has been released from Wivenhoe via the hydro and regulator at about 50m3/s. Impacts downstream of Wivenhoe - The projected Wivenhoe release of 1,200m3/s combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely	Situation Report	
	9:53 PM	Issued Wivenhoe Directive #2. • 07/01/2011 22:00 Open Gate 2 from 0.0 metres to 0.5 metres • 07/01/2011 23:00 Open Gate 4 from 0.0 metres to 0.5 metres • 08/01/2011 00:00 Open Gate 2 from 0.5 metres to 1.0 metres • 08/01/2011 01:00 Open Gate 4 from 0.5 metres to 1.0 metres • 08/01/2011 02:00 Open Gate 1 from 0.0 metres to 0.5 metres • 08/01/2011 03:00 Open Gate 5 from 0.0 metres to 0.5 metres • 08/01/2011 04:00 Open Gate 2 from 1.0 metres to 1.5 metres	Directive	MT
Saturday, 8 January 2011	4:55 AM	Issued Wivenhoe Directive #3. • 08/01/2011 05:00 Open Gate 4 from 1.0 metres to 1.5 metres • 08/01/2011 06:00 Open Gate 1 from 0.5 metres to 1.0 metres • 08/01/2011 07:00 Open Gate 5 from 0.5 metres to 1.0 metres • 08/01/2011 08:00 Open Gate 3 from 3.5 metres to 4.0 metres	Directive	MT
	7:55 AM	Agg Dagan from Somerset Dam rang enquiring on Somerset's strategy. RA advised possibly opening a gate later today.	Correspondence	AN
	8:00 AM	Issued Wivenhoe Directive #4. • 08/01/2011 09:00 Open Gate 2 from 1.5 metres to 2.0 metres • 08/01/2011 10:00 Open Gate 4 from 1.5 metres to 2.0 metres • 08/01/2011 11:00 Open Gate 1 from 1.0 metres to 1.5 metres • 08/01/2011 12:00 Open Gate 5 from 1.0 metres to 1.5 metres • 08/01/2011 13:00 Open Gate 2 from 2.0 metres to 2.5 metres • 08/01/2011 14:00 Open Gate 4 from 2.0 metres to 2.5 metres	Directive	AN
	8:10 AM	RA advised Matthew O'Reilly (Wivenhoe Dam) on directive #4 and discussed strategy.	Correspondence	AN
	8:20 AM	RA rang Brett Schultz (North Pine Dam) and advised on strategy.	Correspondence	AN
	9:00 AM	SDWD Model Updated - SDWD-201101080900.xls	Model Run	JW
	9:00 AM	Agg Dagan (Somerset Dam) rang to advise he is going into Kilcoy to see the treatment plant and will be off-site for a couple of hours.	Correspondence	AN
	10:00 AM	NPD model updated - NPD-201101081000.xls	Model Run	JW
	10:50 AM	Rob Drury rang. RA advised current status and strategy.	Correspondence	AN
	11:30 AM	Issued Somerset Directive #3. • Please open Sluice M to 100% at 12:00.	Directive	AN
	11:30 AM	Ken Morris (BCC) rang asking about combined flows down the Brisbane River (Wivenhoe, Warrill Creek and Bremer River). AN advised that at this stage flows would not exceed 1500m3/sec.	Correspondence	AN
	3:00 PM	NPD model updated - NPD-201101081500.xls	Correspondence	
	3:00 PM	SDWD Model Updated - SDWD-201101081500.xls, SDWD-201101081500-Forecast72hr.xls	Model Run	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
Sunday, 9 January 2011	12:00 AM	Issued North Pine Directive #4. • Gate B : Close to 0 increments at 00:30 • Gate D : Close to 0 increment at 00:45	Directive	NGA
	1:00 AM	Issued Wivenhoe Directive #5. • Open Gate 3 from 4.0 metres to 4.5 metres	Directive	NGA
	4:30 AM	Issued Wivenhoe Directive #6. • Open Gate 1 from 1.5 metres to 2.0 metres	Directive	NGA
	6:15 AM	**FOC Situation Report at 06:00 on Sunday 9 January 2011** Rainfall Catchment average rainfall for the past 12 hours is; North Pine Dam (less than 10 mm); Somerset Dam (40 mm); Wivenhoe Dam (less than 10 mm). The bulk of the rain that has fallen in the Somerset Dam catchment has occurred in the last two hours, with recorded falls exceeding 60mm in some areas. The BOM forecast for the next seven days issued at 0450 this morning is:- Sunday: Rain periods. Monday: Rain periods. Tuesday: Rain periods. Wednesday A few showers. Thursday A shower or two. Friday A shower or two. Saturday Mostly fine. A severe whether warning remains current for heavy rainfall in the dam catchment areas. The dam catchments are relatively saturated and significant inflows will be generated if the forecast rainfall eventuates. North Pine Dam (Full Supply Level 39.60 m AHD) The dam level is currently 39.47 m AHD and steady. Two radial gates remain open to release runoff generated from recent rainfall. Based on rainfall forecasts, the radial gates have been kept open in anticipation of further inflows over the next few days. However u	Situation Report	JT
		Somerset Dam (Full Supply Level 99.00 m AHD) The dam level is currently falling slowly, with the current level being 100.27m AHD. However the rain that has fallen in the dam catchment over the last two hours (recorded falls exceed 60mm in some areas) will result in significant inflows later today. The current release rate into Wivenhoe Dam is 35,000ML/day. Since the commencement of the event on 02/01/2011approximately 56,000ML has been released from the dam, with a total of at least 150,000ML to be released based on the currently recorded rainfall. The total release for the event is likely to increase significantly over the next few days based on the current rainfall forecasts. At this stage, releases will continue until at least Tuesday. Wivenhoe Dam (Full Supply Level 67.00 m AHD) The dam level is currently falling slowly, with the current level being 68.58m AHD. River levels upstream of the dam are receding, however further inflows will result from any additional rainfall. The current gate operation strategy will maintain flows of around	Situation Report	
	6:50 AM	Rob Drury rang. JT advised Rob on current release strategy based on recent heavy overnight rainfall.	Correspondence	NGA
	7:00 AM	SDWD Model Updated - SDWD-201101090700.xls	Model Run	JW
	8:15 AM	Issued Somerset Directive #4. • Please open Sluice K to 100% at 09:00.	Directive	NGA
	8:40 AM	TM called BoM regarding advice received that widespread rain was expected to continue in the catchment areas over the next 24 - 48 hours.	Correspondence	NGA
	9:00 AM	SDWD Model Updated - SDWD-201101090900.xls	Model Run	JW
	9:00 AM	NPD model updated - NPD-201101090900.xls	Model Run	JW
	10:30 AM	Issued North Pine Directive #5. • Gate A : Close to 0 increment at 11:00	Directive	NGA
	10:30 AM	Issued Wivenhoe Directive #7. • Open Gate 5 from 1.5 metres to 2.0 metres	Directive	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	12:00 PM	SDWD Model Updated - SDWD-201101091200.xls	Model Run	JW
	12:00 PM	RA scheduled meeting of Duty Engineers this afternoon to discuss current situation and forward release strategies.	Correspondence	NGA
	12:30 PM	Issued Somerset Directive #5. • Please open Sluice N to100% at 13:00 • Please open Sluice J to 100% at 14:00	Directive	NGA
	2:00 PM	SDWD Model Updated - SDWD-201101091400.xls	Model Run	JW
	2:00 PM	NPD model updated - NPD-201101091400.xls	Model Run	JW
	2:30 PM	NA called Agg Dagan (Somerset Dam) and requested status readings be faxed to the FOC on an hourly basis until advised otherwise. Current Somerset lake level is EL 100.54 and rising fast.	Correspondence	NGA
	2:42 PM	FOC called Brett Schultz (North Pine Dam) advising of impending gate openings due to recent heavy rainfall and subsequent projected inflows.	Correspondence	NGA
	2:45 PM	Issued North Pine Directive #6. • Gate A: Open to 1 increment at 15:00 • Gate D: Open to 1 increment at 15:15 • Gate B: Open to 1 increment at 15:30	Directive	NGA
	3:00 PM	NPD model updated - NPD-201101091500.xls	Model Run	JW
	3:30 PM	Duty Engineer Conference held at the FOC: Attended by RA, JR, TM with JT on conf phone. At this stage operating at the top end of W1 and the bottom end of W2.Storing approx. 300,000 Ml at present (above Wivenhoe) with an additional 500,000 Ml expected to flow into the dams from rainfall on the ground. The rainfall system is currently in the N-E part of the catchment and expected to travel south over the next 24-36 hours according to the BoM forecasts. This has the potential to significantly increase flows in Lockyer Ck & the Bremer River which potentially could close Fernvale Bridge and Mt Crosby Bridge and increase the risk of flooding in the Lower Brisbane. Releases from Wivenhoe Dam will be maintained at the current level of ~ 1,400 cumecs. If required, releases from Wivenhoe Dam will be reduced to contain the flow in the Mid-Brisbane to 1,600 cumecs and 3,000 cumecs in the Lower Brisbane. At this stage it is anticipated that levels below 102.5 in Somerset and 72.5 in Wivenhoe can be attained.	Situation Report	NGA
	3:30 PM	Issued North Pine Directive #7. • Gate C: Open to 2 increment at 16:00 • Gate E: Open to 2 increment at 16:15 • Gate A: Open to 2 increment at 16:30	Directive	NGA
	4:00 PM	SDWD Model Updated - SDWD-201101091600.xls	Model Run	JW
	4:15 PM	TM called Tony Jacobs (Somerset RC) advising that the current strategy was to maintain a flow in the Brisbane River such that the Fernvale Bridge and the Mount Crosby Bridge could be kept open. However, future rainfall could well impact on those roads remaining open. Closure next Tuesday is a real possibility at this stage.	Correspondence	NGA
	4:20 PM	Terry Malone phoned Tony Trace (ICC) advising that the current strategy was to maintain flow in the Brisbane River such that the Fernvale Bridge and the Mount Crosby Bridge could be kept open. However, future rainfall could well impact on those roads remaining open. Closure next Tuesday is a real possibility at this stage.	Correspondence	NGA
	4:25 PM	TM called Chris Lavin (BCC). A message was left to phone FOC.	Correspondence	NGA
	4:26 PM	TM called Ken Morris (BCC). A message was left to phone FOC.	Correspondence	NGA
	4:27 PM	Ken Morris returned phone call. Ken was advised by TM that the current strategy was to maintain a flow in the Brisbane River such that the Fernvale Bridge and the Mount Crosby Bridge could be kept open. However, future rainfall could well impact on those road.s remaining open. Closure next Tuesday is a real possibility at this stage. Flow in the Lower Brisbane potentially might reach 3,000 cumecs by next Wednesday or Thursday.	Correspondence	NGA
	5:18 PM	NA left a message with Graham Keegan (A/Co-ord) regarding the potential for Fernvale Bridge and Mount Crosby Bridge to be closed, possibly from Tuesday. This may impact on staffing issues for both Wivenhoe and Somerset Dams during this flood event. Request for Graham to contact the FOC ASAP.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:25 PM	Don Carroll (BCC) returned call to TM. TM advised potential for releasing up to 2,500 cumecs by Tuesday. With further heavy rainfall, as forecast, the flow in the Lower Brisbane could increase to 3,000 cumecs with potential for closure of Fernvale Bridge and Mount Crosby Bridge by Thursday (possibly Wednesday). Releases from Wivenhoe are dependant on flows from Lockyer Ck and inflow into Wivenhoe. FOC will continue to update BCC.	Correspondence	NGA
	5:32 PM	Brett Schultz (NPD) phoned the FOC with a manual reading of EL 20.660 at Lake Kurwongbah. Brett noted that should NPD gates be closed in the near future, the Lake Kurwongbah tailwater would impact on Youngs Crossing.	Correspondence	NGA
	5:40 PM	Rob Drury phoned TM for an update on the current situation.	Correspondence	NGA
	5:45 PM	Graham Keegan returned call and NA advised that TM had requested Graham to factor into his staffing roster of Wivenhoe and Somerset Dams the potential for the Fernvale bridge and the Mount Crosby Bridge to be closed from mid-week sometime, depending on the likelihood of further heavy rainfall.	Correspondence	NGA
	5:51 PM	**Situation Report 1700 Sunday 9/1/2011** Rainfall Catchment average rainfall for the past 12 hours is; North Pine Dam (60 mm); Somerset Dam (150 mm); Wivenhoe Dam (80 mm). The bulk of the rain that has fallen in the upper reaches of the Stanley and Brisbane Rivers. The BOM rainfall forecast for the next few days is:- Monday: Very heavy rain periods with totals up to 300mm centred around North Pine. Tuesday: Rain periods with totals up to 150mm centred around North Pine. Wednesday A few showers less than 10mm Thursday A shower or two. Friday A shower or two. Saturday Mostly fine. A severe whether warning remains current for heavy rainfall in the dam catchment areas. The dam catchments are relatively saturated and significant inflows will be generated if the forecast rainfall eventuates. North Pine Dam (Full Supply Level 39.60 m AHD) The dam level is currently 39.65 m AHD and rising at 1600. Following the rain in the 9 hours, the number of open gates has been	Situation Report	TM
		Somerset Dam (Full Supply Level 99.00 m AHD) - The dam level is 100.75 m AHD and rising quickly. Estimated peak inflow to the dam is about 3,000m3/s. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam will reach at least 101.5 during early Tuesday morning. - Since the commencement of the event on 02/01/2011approximately 80,000ML has been released from the dam, with an event total of at least 320,000ML based on the recorded rainfall to date. The event total is expected to increase significantly due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Wednesday. Wivenhoe Dam (Full Supply Level 67.00 m AHD) - The dam level is currently rising again, with the current level being 68.70m AHD. Estimated peak inflow to the dam just from the Upper Brisbane R is about 5,000m3/s and, at this stage, the dam will reach at least 72.5 m AHD during Wednesday morning. River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. The current	Situation Report	
	5:58 PM	TM called Jeff Perkins (BoM) to discuss Wivenhoe Dam's release strategy.i.e. Major bridge open strategy Vs increased inflow into Wivenhoe resulting from current heavy rainfall. Situation will become clearer in 24 hours time.	Correspondence	NGA
	6:00 PM	SDWD Model Updated - SDWD-201101091800.xls	Model Run	JW
	6:00 PM	NPD model updated - NPD-201101091800.xls	Model Run	JW
	6:35 PM	The caretaker from the house at the Colleges Crossing Reserve rang FOC to enquire about predicted flood height at the Colleges Crossing Bridge. TM referred him to Tony Trace (ICC) for an update on flood information affecting the Ipswich area. Advised no change in Wivenhoe releases at this stage and the future options were presently unknown.	Correspondence	NGA
	7:00 PM	SDWD Model Updated - SDWD-201101091900.xls, SDWD-201101091900norain.xls, SDWD-201101091900withrain.xls	Model Run	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	7:10 PM	FOC called Tony Jacobs (SRC) advising him that high releases from Wivenhoe (3000 cumecs) are expected to be necessary in view of heavy rain over the last 3 hours.	Correspondence	BS
	7:15 PM	FOC called Peter Burrows (Seqwater) advising him that high rainfall is expected overnight and releases from Wivenhoe causing damaging flooding are likely to be necessary.	Correspondence	BS
	7:15 PM	FOC called Peter Allen advising him that FOC is now looking at much larger flows and will have to ramp up releases to around 3000 cumecs as by as early as midnight which is likely to have flooding impacts on low-lying areas of Brisbane.	Correspondence	BS
	7:20 PM	TM called Don Carroll (BCC) advising him of potential for high releases sooner than previously expected.	Correspondence	BS
	7:25 PM	Mal Lane (North Pine Dam) called to advise dam level is at 39.82mAHD, 3 gates are at increment 2 and two are at increment 1. The two at increment 1 are currently being raised to increment 2 (next few minutes).	Correspondence	BS
	7:30 PM	Issued North Pine Directive #8. • Open Gate B to 2 increments 19:45 • Open Gate D to 2 increments at 20:00	Directive	BS
	8:00 PM	SDWD Model Updated - SDWD-201101092000withnorain.xls	Model Run	JW
	8:05 PM	RA called Shane Watson (North Pine Dam) to confirm last directive is completed. All gates at increment 2.	Correspondence	BS
	8:30 PM	Darryl Hickey (ICC) returned call and spoke to JR. He was informed of current situation and the likelihood of high releases tomorrow causing flood damage.	Correspondence	BS
	8:50 PM	RA called Ken Morris (BCC) to request copy of flood damages curve from 2007 study. Ken will send a copy tomorrow.	Correspondence	RA
	8:55 PM	Ken Morris called back and spoke with JR. Confirmed BCC mobilisation triggers need to be in place. Status report is in preparation and will be emailed out shortly.	Correspondence	BS
	9:00 PM	Issued North Pine Directive #9.	Directive	BS
	9:04 PM	**Situation Report 2100 9/01/2011** Rainfall - Very heavy rainfall has been recorded in the upper reaches of the Brisbane and Stanley in the last 6 hours with totals up 100 to 140mm. Totals for the last 24 hours range from 100 to 300mm. - Rainfall of similar magnitudes is expected in the 12 to 24 hours, especially around the Bremer/Warrill catchments as the system tracks south. - A severe weather warning remains current for heavy rainfall in the dam catchment areas. Somerset Dam (Full Supply Level 99.00 m AHD) - The dam level is 101.68 m AHD (about 500,000ML currently in storage) and rising quickly. Peak inflow to the dam is estimated to be about 4,000 m3/s based on observed rainfall and could be as high as 5,000m3/s with additional forecast rainfall. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam will reach at least 103.5 early Tuesday morning which will adversely impact areas around Kilcoy. - Since the commencement of the event on 02/01/2011approximately 100,000ML has been released from the dam into Wivenhoe,	Situation Report	TM
		Wivenhoe Dam (Full Supply Level 67.00 m AHD) - River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have already reached 6,700m3/s and the river is still rising. - The dam level is rising again, with the current level being 69.10m AHD (1,410,000ML with about 300,00 of flood storage). Estimated peak inflow to the dam just from the Upper Brisbane R alone may reach as high as 7,500m3/s and, at this stage, the dam will reach at least 73.0 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it will be necessary to increase the release from Wivenhoe Monday morning. - The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m3/s and the combined flows is the lower Brisbane will be limited to 4,000m3/s. This is below the limit of urban damages in the City reaches. - The current release rate from Wivenhoe Dam is 1,400m3/s (120,000ML/day). Gate opening will start to be increased from noon	Situation Report	
	9:10 PM	Rob Drury called and spoke with RA. Rob confirmed that releases will need to be ramped up from current 1400 cumecs to 2500 cumecs which will cause flooding in low lying areas of Brisbane. Brisbane flood information centre has not yet been mobilised. Somerset RC has no DTMR A/H contacts and will be contacting them in the morning. Rob will locate DTMR contacts. Confirmed volumes getting close to 1974 levels. Confirmed situation report has gone out.	Correspondence	BS

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:15 PM	Geoff Perkins (BoM) called and spoke with TM. They discussed on rainfall expectations and flood warning requirements for Brisbane. Bremer/Warrill situation being monitored. Actual and projected flows sent to Geoff.	Correspondence	BS
	9:20 PM	Tony Trace (ICC) spoke with RA. Emailing DTMR A/H contact to floodroom. Kiosk caretaker at Colleges Crossing is being evacuated. **Contact Number for DTMR: Ron Hemley** [redacted]	Correspondence	BS
	10:00 PM	SDWD Model Updated - SDWD-201101092200withnorain.xls, SDWD-201101092200-Forecast24hr.xls	Model Run	JW
	10:00 PM	NPD model updated - NPD-201101092200.xls	Model Run	JW
	10:00 PM	JR called Wivenhoe operator (Doug Grigg) and confirmed current flooding expectations based on rainfall predictions and expected impacts.	Correspondence	BS
	10:15 PM	FOC called Tony Jacobs (SRC). A situation update was provided. Fernvale Bridge closure likely to be required in view of probable releases from Somerset to Wivenhoe.	Correspondence	BS
	10:20 PM	Rob Drury called and spoke with RA. A teleconference with Water Grid Manager and DERM was completed. Explained 9:00pm situation report. Water Grid Manager will be distributing media release in the morning regarding closure of bridges.	Correspondence	BS
	10:30 PM	Brett Myatt (Mt Crosby WTP) called and spoke with RA. He was concerned the guardrails need to be taken off bridge before bridge goes over. RA recommended getting the rails straight off in view of increasing flow expectations overnight. Flow expected to get to 2000ML by morning.	Correspondence	BS
	10:30 PM	JR called Wivenhoe Dam operator (Doug Grigg) requesting for a visual inspection of Fernvale Bridge.	Correspondence	BS
	10:40 PM	Doug Grigg (Wivenhoe Dam) called discussed Fernvale Bridge situation with JR. Water was lapping the bridge girders.	Correspondence	BS
	10:45 PM	Rob Drury called and spoke with RA. Rob Drury will be contacting Dan Spiller to confirm closure of Mt Crosby Weir Bridge. Police are on site.	Correspondence	BS
	11:20 PM	JR called Tony Trace (ICC) and left message regarding rates of rise at Mt Crosby. Bridge will be inundated within the next couple of hours.	Correspondence	BS
	11:25 PM	JR called Ross Drabble (ICC) regarding rates of rise at Mt Crosby (approx 200 mm from going over) - will be inundated within the next couple of hours. Confirmed more rain is on the way and releases will need to be increased.	Correspondence	BS
	11:25 PM	RA spoke with Doug Grigg (Wivenhoe Dam). Water is up to the centreline of the Chine Gully approach to Fernvale Bridge. Esk police are on site and are considering placing road closure signs in Fernvale. Rob Titmarsh and Darren Valley (operators living in Fernvale) will be mobilised to the dam by police prior to closure.	Correspondence	BS
	11:30 PM	JR called Tony Jacobs (SRC) and left message advising of situation.	Correspondence	BS
	11:35 PM	RA called Ron Hemley (DTMR) and left message regarding current road closure situation.	Correspondence	BS
	11:35 PM	JR called Andy Bickerton (SRC) and left message for call to be returned re Fernvale Bridge situation.	Correspondence	BS
	11:38 PM	JR called Robert Bain (CEO SRC) and left message regarding Fernvale Bridge situation and requested call be returned ASAP.	Correspondence	BS
	11:40 PM	Andy Bickerton (SRC) called back and spoke with JR. JR confirmed the high flow levels and anticipated further level rises will impacts road crossings. Fernvale Bridge was about to go out. Informed of the levels and inflows to Wivenhoe and Somerset and the expectation for more rain.	Correspondence	BS
Monday, 10 January 2011	12:00 AM	Andy Bickerton called again and spoke with JR. JR confirmed police were on site at Fernvale Bridge and were contemplating road closure signs at Fernvale. Confirmed message has been left with DTMR but call not yet returned.	Correspondence	BS
	12:15 AM	Brett Myatt (Mt Crosby WTP) called to confirm Mt Crosby Weir road is closed (call taken by Bill Stephens). Confirmed that ICC has been notified and message left with DTMR.	Correspondence	BS
	12:45 AM	Ken Morris (BCC) called and spoke with JR. Ken indicated that 3500 cumecs is the damaging flow level for Brisbane urban areas. The manual documents 4000 cumecs as the damaging level. JR undertook to take this into consideration when preparing the current situation report, and would not refer to damage levels.	Correspondence	BS
	12:55 AM	JR called Rob Drury to discuss Ken's view on damaging flow. JR confirrned that if flows were kept below 3500 the fuse plug would be triggered. Agreed that situation reports will not allude to damage levels - the councils can make decisions on what to report in this regard.	Correspondence	BS
	1:00 AM	SDWD Model Updated - SDWD-201101100100withnorain.xls	Model Run	JW
	1:00 AM	RA called Ray Ballinger (Somerset Dam) regarding purported dam stability issues (via Tony Trace - two reports received). Ray confirmed that inspection had revealed no issues.	Correspondence	BS

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:14 AM	**FOC Situation Report at 01:00 hrs on Monday 10 January 2011** Rainfall - Very heavy rainfall has been recorded in the Upper Brisbane and Stanley Rivers in the last 12 hours with totals up 100 to 240mm. Totals for the last 24 hours range from 100 to 300mm. - Rainfall of similar magnitudes is expected in the 12 to 24 hours around the downstream catchments as the system tracks south. - A severe weather warning remains current for heavy rainfall in the dam catchment areas. North Pine Dam (Full Supply Level 39.60 m AHD) - The dam level was 39.95 m and steady. Five gates are open releasing 445 m3/s. The inflow into the dam since the commencement of the event is 42,000 ML. Estimated event volume is 57,000 ML assuming no further rainfall. Gate operations will continue until at least Tuesday 11 January 2011. Somerset Dam (Full Supply Level 99.00 m AHD) - The dam level is 102.22 m AHD and rising quickly (storing 157,000 ML above FSL). Peak inflow to the dam is estimated to be about 4,200 m3/s based on observed rainfall and could be as high as 5,000m3/s with additional forecast rainfall. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam will reach at least 103.5 on Monday aft - Since the commencement of the event on 02/01/2011approximately 115,000ML has been released from the dam into Wivenhoe, w	Situation Report	JR
		Wivenhoe Dam (Full Supply Level 67.00 m AHD) - River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have already reached 7,350m3/s and the river has just peaked at 23:00 on Sunday 9 January. - The dam level is rising quickly, with the current level being 69.60m AHD (storing 301,000 ML). Estimated peak inflow to the dam just from the Upper Brisbane R alone may reach as high as 8,800m3/s and, at this stage, the dam will reach at least 73.3 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it will be necessary to increase the release from Wivenhoe during Monday morning. - The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m3/s and the combined flows in the lower Brisbane will be limited to 4,000m3/s if possible. - Fernvale Bridge approaches and Mt Crosby Weir Bridge have been inundated and both bridges are now closed or are in the process of being closed. - The current release rate from Wivenhoe Dam is 1,400m3/s (120,000ML/day). Gate opening will start to be increased during early M	Situation Report	
	2:00 AM	Issued Wivenhoe Directive #9. • Open Gate 1 from 2.0 metres To 2.5 metres At 02:00 • Open Gate 5 from 2.0 metres To 2.5 metres At 03:00 • Open Gate 2 from 2.5 metres To 3.0 metres At 04:00 • Open Gate 4 from 2.5 metres To 3.0 metres At 05:00 • Open Gate 2 from 3.0 metres To 3.5 metres At 06:00	Directive	BS
	3:00 AM	SDWD Model Updated - SDWD-201101100300withnorain.xls	Model Run	JW
	3:00 AM	NPD model updated - NPD-201101100300.xls	Model Run	JW
	4:10 AM	JR discussed Wivenhoe status and release strategy with Doug Grigg.	Correspondence	BS
	5:00 AM	SDWD Model Updated - SDWD-201101100500withnorain.xls	Model Run	JW
	5:00 AM	Graham Francis called and discussed Somerset situation with RA.	Correspondence	BS
	5:00 AM	NPD model updated - NPD-201101100500.xls	Model Run	JW
	5:05 AM	Rob Drury called and received situation update from JR.	Correspondence	BS
	5:20 AM	RA called BoM regarding next forecast update - due at 9:00 am.	Correspondence	BS
	6:00 AM	Send out situation report for this morning.	Correspondence	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:30 AM	**FOC Situation Report at 06:00 on Monday 10 January 2011** Rainfall - Moderate to heavy rainfall has been recorded in the Upper Brisbane and Stanley Rivers in the last 12 hours with totals up to 90 mm. Totals for the last 24 hours range from 100 to 325mm. - Mt Glorious recorded 100 mm in the last 12 hours. - Rainfall of similar magnitudes is expected in the 12 to 24 hours around the downstream catchments as the system tracks south. - A severe weather warning remains current for heavy rainfall in the dam catchment areas. North Pine Dam (Full Supply Level 39.60 m AHD) - The dam level was 39.97 m and steady. Five gates are open releasing 475 m3/s. The inflow into the dam since the commencement of the event is 52,000 ML. Estimated event volume is 72,000 ML assuming no further rainfall. Gate operations will continue until at least Tuesday 11 January 2011. Somerset Dam (Full Supply Level 99.00 m AHD) - The dam level at 05:00 was 102.84 m AHD and rising (storing 193,000 ML above FSL). Peak inflow to the dam is estimated to be about 4,200 m3/s based on observed rainfall and could be as high as 5,000m3/s with additional forecast rainfall. Five sluice gates ar - Since the commencement of the event on 02/01/2011approximately 142,000ML has been released from the dam into Wivenhoe, w	Situation Report	JR
		Wivenhoe Dam (Full Supply Level 67.00 m AHD) - River levels upstream of the dam have peaked and are falling slowly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have peaked at 7,350m3/s at 23:00 on Sunday 9 January. This peak is bigger than January 1974 and February 1999 at this location. - The dam level is rising quickly, with the current level being 70.77m AHD (storing 450,000 ML). Estimated peak inflow to the dam just from the Upper Brisbane R is around 8,800m3/s and, at this stage, the dam will reach at least 73.3 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it was necessary to start to increase the release from Wivenhoe during Monday morning. - The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m3/s and the combined flows in the lower Brisbane will be limited to 4,000m3/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000 m3/s.	Situation Report	
	6:30 AM	Issued Wivenhoe Directive #9. • Open Gate 4 from 3.0 metres To 3.5 metres At 07:00 • Open Gate 1 from 2.5 metres To 3.0 metres At 08:00 • Open Gate 5 from 2.5 metres To 3.0 metres At 09:00 • Open Gate 2 from 3.5 metres To 4.0 metres At 10:00 • Open Gate 4 from 3.5 metres To 4.0 metres At 11:00	Directive	LVB
	7:40 AM	Talked to BoM - we are in general agreement about current flows in the Brisbane River.	Correspondence	LVB
	8:30 AM	FOC left a message for Ken Morris (BCC) to call back.	Correspondence	LVB
	8:30 AM	Issued Wivenhoe Directive #10. • Open Gate 4 from 3.0 metres To 3.5 metres at 07:00 • Open Gate 1 from 2.5 metres To 3.0 metres at 08:00 • Open Gate 5 from 2.5 metres To 3.0 metres at 09:00	Directive	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:38 AM	Talked to Peter Baddley BOM) to discuss our planned strategy i.e to maintain gate openings for the next 24 hrs. This increases flood storage by 75 000ML which is equivalent to 0.2m rise and limits flows in the Brisbane to 3 000 m3/s this provides a buffer for potential runoff for the next 24 hrs.	Correspondence	LVB
	9:38 AM	Conference call with Ken Morris (BCC) - informed them that release from Wivenhoe will be maintained at 2000m3/s for the next 24 hrs. This will be revised in 24 hrs. The strategy is to limit the flows to 3000 - 3500m3/s. At 3500m3/s about 322 (the whole property) will be submerged and about 7000 properties will be affected somehow damage bill $7mil). If the rainfall in the Bremmer and Lockyer increases substantially - it is likely the flows from these catchments can peak at 1000m^3/s (on top of Wivenhoe release)	Correspondence	LVB
	10:08 AM	Received QPF - 100mm in Brisbane and 150mm North Pine catchment	Other	LVB
	10:15 AM	Received phone call from Mike Shetland (EMQ) and Supt Alistair Dawson - Disaster Coordinator for this District - gave them the same information as what we gave Ken Morris before.	Correspondence	LVB
	10:46 AM	Called Jimmy Stewart (BoM) to inform that TM can do the model and with 600m3/s in the Bremmer the flows in Brisbane will go up to 3600m3/s. BoM will discuss with BCC.	Correspondence	LVB
	11:14 AM	Tony Trace (ICC) called to clarify our strategy. Gave him the same info as above.	Correspondence	LVB
	12:00 PM	Send out second situation report for today	Situation Report	LVB
	1:00 PM	SDWD Model Updated - SDWD-201101101300withnorain.xls	Model Run	JW
	2:58 PM	**FOC Situation Report at 12:00 on Monday 10 January 2011** Rainfall Significant rainfall has fallen in the Wivenhoe Dam catchment over the last 3 hours, with falls exceeding 100mm. This rainfall will significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (75mm to 150mm); Wivenhoe/Somerset Dam Catchments (50mm – 100mm). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar. Somerset Dam (Full Supply Level 99.00 m AHD) The dam level is 103.41m AHD and rising. Peak inflow to the dam is estimated to be about 4,200 m3/s. Five sluice gates are open releasing about 1,100m3/s (95,000ML/day) into Wivenhoe Dam. At this stage the dam lake level will reach about 103.5m AHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected. Wivenhoe Dam (Full Supply Level 67.00 m AHD) - The dam level is 72.41m AHD and rising quickly. The rainfall experienced over the last 2 to 3 hours will result in significant further i - Five radial gates are currently open at the dam releasing about 2,000m3/s into the Brisbane River and this will need to be increased - The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep Impacts downstream of Wivenhoe Dam - The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstrean - Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and r Outlook Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The	Situation Report	TM
	12:02 PM	Spoke with Peter Borrows (Seqwater) to answer elaborate on Situation Report and inform him of large rainfalls currently occurring in the Wivenhoe catchment.	Correspondence	LVB
	12:33 PM	Called BCC twice. No answer, so left messages.	Correspondence	LVB
	12:36 PM	Talked to Tony Trace (ICC) informed him that we are moving strategy from urban damage control to dam safety priority	Correspondence	LVB
	12:41 PM	NPD operator called to inform FOC the level is dropping. Instructed them not to close gates - heavy rain fell in catchment.	Correspondence	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	2:00 PM	Send out third situation report for today.	Correspondence	LVB
	2:30 PM	Called BCC 3 times before getting through to Flood Information Centre (FIC). Discussed latest strategy with them i.e. changing from "Flood Mitigation" to "Dam Safety". We will start opening Wivenhoe gates from 15:00.	Correspondence	LVB
	3:00 PM	Called Disaster Coordinator, Ian Stewart @ [redacted] No answer.	Correspondence	LVB
	4:00 PM	NPD model updated - NPD-201101101600.xls	Model Run	JW
	4:00 PM	Issued Wivenhoe Directive #11. • Open Gate 2 to 4.0 m at 15:00 • Open Gate 4 to 4.0 m at 15:30 • Open Gate 3 to 5.0 m at 16:00 • Open Gate 1 to 3.5 m at 16:30 • Open Gate 5 to 3.5 m at 17:00 • Open Gate 2 to 4.5 m at 17:30 • Open Gate 4 to 4.5 m at 18:00 • Open Gate 1 to 4.0 m at 18:30 • Open Gate 5 to 4.0 m at 19:00 • Open Gate 1 to 4.5 m at 19:30	Directive	LVB
	3:15 PM	Had conference call with BoM. They agree with FCC on model discharge results. However, BoM included 6hrs of additional rain which takes the discharge to 4600m3/s	Correspondence	LVB
	4:09 PM	Issued North Pine Directive #10. • Gate E : Close to Increment 4. • Gate C : Close to Increment 4.	Directive	LVB
	4:09 PM	TM spoke to a police officer about Crestbrook Dam - advising that FOC does not manage Crestbrook but gave him a contact at Toowoomba RC	Correspondence	LVB
	5:00 PM	Issued North Pine Directive #11. • Gate B : Close to Increment 3. • Gate D : Close to Increment 3. • Gate A : Close to Increment 3. • Gate E : Close to Increment 3.	Directive	LVB
	5:00 PM	SDWD Model Updated - SDWD-201101101700withnorain.xls, SDWD-201101101700with50mmrain.xls	Model Run	JW
	5:09 PM	Agg (Somerset Dam) phoned and reported water from Wivenhoe in getting into the hydro	Correspondence	LVB
		FOC Situation Report at 18:00 on Monday 10 January 2011 Rainfall - Only minor rainfall has been experienced in the North Pine Dam and Somerset Dam catchments with a catchment averages of less than 20mm. - However, significant rain has fallen in the Wivenhoe Dam catchment over the last 6 hours, with isolated falls exceeding 100mm. This rainfall has significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar. North Pine Dam (Full Supply Level 39.60 m AHD) - The dam level is 39.84m AHD and falling slowly (storing 9,000ML above FSL). Five gates are open and releasing 362 m3/s. The inflow into the dam since the commencement of the event is 72,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.	Situation Report	TM
	6:06 PM	Get weather update from BoM - the forecast now is - still more of the same of what we had today.	Other	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:43 PM	FOC Situation Report at 18:00 on Monday 10 January 2011 Rainfall - Only minor rainfall has been experienced in the North Pine Dam and Somerset Dam catchments with a catchment averages of less than 20mm. - However, significant rain has fallen in the Wivenhoe Dam catchment over the last 6 hours, with isolated falls exceeding 100mm. This rainfall has significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar. North Pine Dam (Full Supply Level 39.60 m AHD) - The dam level is 39.84m AHD and falling slowly (storing 9,000ML above FSL). Five gates are open and releasing 362 m3/s. The inflow into the dam since the commencement of the event is 72,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.	Situation Report	M
		Wivenhoe Dam (Full Supply Level 67.00 m AHD) - The dam level is 72.92m AHD and rising quickly. Releases from the dam have been increased over the last 3 hours in accordance with Flood Mitigation procedures and to ensure that a fuse plug is not initiated. The initiation of a fuse plug will result in a rapid uncontrolled outflow from the dam of 2,000m3/s being added to the gate release outflow. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing. The flash flooding experienced in the upper areas of Lockyer Creek have been examined and are not expected to significantly increase Brisbane River flows above the current projection of 4000m3/s at Moggill. - Five radial gates are currently open at the dam releasing about 2,400m3/s into the Brisbane River and this will need to be increased steadily to an outflow of 2,800m3/s. At this stage, the dam will reach about 73.8m AHD during Tuesday morning. - The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m3/s if possible. This is significantly less than the current estimated combined pr Impacts downstream of Wivenhoe Dam The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream - Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and r Outlook Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The	Situation Report	
	6:45 PM	Brett Schultz (North Pine Dam) raised concerns with school groups using Lake Kurwongbah for rowing exercise while water is running over the spillway at 500mm. He was referred to Rangers.	Correspondence	LVB
	7:20 PM	Issued North Pine Directive #12. • Gate C : Close to increment 3 • Gate B : Close to Increment 2. • Gate D : Close to Increment 2. • Gate A : Close to Increment 2. • Gate E : Close to Increment 2 • Gate C : Close to increment 2.	Directive	JW
	7:30 PM	Agg Dagan (Somerset) called to inform that Somerset hydro is inundated with water. Agg believes he has located source of leak, has tightened seals to prevent further leakage. Agg also noted that there is oil in the water.	Correspondence	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:00 PM	SDWD Model Updated - SDWD-201101102000withnorain.xls, SDWD-201101102000-Lockyer.xls, SDWD-201101102000-TMinflows.xls	Model Run	JW
	20:00 PM	Peter Baddiley (BoM) called to advise of situation regarding flows in Lockyer. Estimated very heavy localised rainfall (eg. 600mm in few hours) on Toowoomba escarpment to cause observed flood flooding. Will monitor via Glenore Grove gauging station.	Correspondence	JW
	20:45 PM	Brett Myatt (Seqwater Mt Crosby WTP) called to get situation update. Advised that at 20m there will be issues at Mt Crosby WTP. FOC to advise Brett if likely to reach that level.	Correspondence	JW
	21:00 PM	Spoke to Peter Allan regarding strategies for reducing Wivenhoe release to mitigate latest event in Lockyer. Peter endorsed variation to manual to operate at minimum gate settings to create gap to allow peak of flash flood to pass. Also endorsed concept allowing Wivenhoe HW to rise above 74 mAHD briefly.	Correspondence	JW
	21:30 PM	Provided Boyd Wilson (ICC) with situation update.	Correspondence	JW
	21:30 PM	Issued North Pine Directive #13. • Gate B : Close to Increment 1. • Gate D : Close to Increment 1.	Directive	JW
	21:45 PM	Issued North Pine Directive #14. • Gate A : Close to Increment 1 when level reaches 39.775 m • Gate E : Close to Increment 1 when level reaches 39.760 m	Directive	JW
	20:20 PM	Spoke to Peter Baddiley (BoM) regarding reducing Wivenhoe release to accommodate peak of Lockyer flash flood.	Correspondence	JW
	11:20 PM	Spoke to Rob Drury to give situation update. Rob agreed that if possible to reduce flow from Wivenhoe to accommodate Lockyer flash flood peak.	Correspondence	JW
	11:56 PM	**FOC Situation Report at 00:00 Tuesday 11 Janaury 2011** Rainfall - Rainfall continues in the North Pine Dam, Somerset Dam and Wivenhoe Dam catchments with falls of generally less than 20mm since 18:00 today. However, some isolated falls in the Upper Brisbane River of up to 110 mm have been recorded at Monsildale in this time. This rainfall will increase inflows into the dam. - A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 16:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm). North Pine Dam (Full Supply Level 39.60 m AHD) The dam level is 39.80m AHD and falling slowly (storing 4,400ML above FSL). Five gates are open, releasing 153 m3/s. The inflow into the dam since the commencement of the event is 74,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011. Somerset Dam (Full Supply Level 99.00 m AHD) The dam level is 103.40m AHD and falling slowly. Peak inflow to the dam is estimated to be about 4,200 m3/s. Total discharge into	Situation Report	RA

DATE	TIME	ACTION	CATEGORY	INITIALS
		Wivenhoe Dam (Full Supply Level 67.00 m AHD) - The dam level is 73.22m AHD and rising at about 50 mm/hour. Releases from the dam have been held at a rate of 2,750 m3/s since 19:30 hours. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing. - The BoM has provided further advice about the flash flooding experienced in the upper areas of Lockyer Creek. The rainfall responsible for this event was not observed at any rainfall stations but it is considered to be very significant. Flood levels in the Lockyer Creek catchment will exceed maximum recorded levels in some stations in the upper catchment. This flow may result in increases in Brisbane River levels below the junction of Lockyer Creek. - Five radial gates are currently open at the dam releasing about 2,750m3/s into the Brisbane River. At this stage, the dam will reach about 73.8m AHD during Tuesday afternoon. - The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m3/s if possible. This is significantly less than the current estimated combined pr Impacts downstream of Wivenhoe Dam - The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstrear - Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and r - The BoM will provide further information regarding the magnitude of the flash flood event occurring in Lockyer Creek early Tuesday Outlook Heavy rainfall continues throughout South East Queensland and the situation could deteriorate over the next 24 hours. The flood op	Situation Report	
Tuesday, 11 January 2011	12:00 AM	SDWD Model Updated - SDWD-201101110000withnorain.xls	Model Run	JW
	12:00 AM	NPD model updated - NPD-201101110000.xls	Model Run	JW
	12:15 AM	Spoke to Ken Morris (BCC) to update on current release strategy.	Correspondence	JW
	1:30 AM	Spoke to Tony Trace (SRC). Somerset Regional Council offices were flooded and email addresses are no longer working. Tony can be emailed on [redacted]	Correspondence	JW
	2:15 AM	James Charalambous (BCC) called to confirm forecast peak height of 3.1m at Brisbane city gauge for Wednesday high tide. This is based on 4600 cumecs modelled by BoM. Provided James with update on current release strategy.	Correspondence	JW
	3:00 AM	SDWD Model Updated - SDWD-201101110300withnorain.xls	Model Run	JW
	3:15 AM	James Charalambous (BCC) has provided inundation forecast for Brisbane city to assist with devising strategy to manage Wivenhoe releases	Correspondence	JW
	4:30 AM	Issued Somerset Directive #6. • Please close Sluice J at 05:00 • Please close Sluice N at 06:00 • Please close Sluice K at 07:00	Directive	JW
	5:00 AM	Issued North Pine Directive #15. • Gate A : Open to Increment 2 at 6:00 am	Directive	JW
	5:15 AM	Spoke to Peter Baddiley (BoM) regarding reducing Wivenhoe release to accommodate peak of Lockyer flash flood. Update: Consensus was that reducing release from Wivenhoe would no longer be feasible due to attenuation of Lockyer peak and significant additional rainfall in upper Brisbane during the night.	Correspondence	JW
	5:45 AM	Issued North Pine Directive #15a. • Gate D: Open to Increment 2 at 6:00 am	Directive	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:00 AM	Issued North Pine Directive #16. • Gate B: Open to Increment 2 when level reaches 39.820 • Gate C: Open to increment 3 when level reaches 39.835 • Gate E: Open to increment 3 when level reaches 39.850 • Gate A: Open to increment 3 when level reaches 39.865 • Gate D: Open to increment 3 when level reaches 39.880	Directive	JW
	6:12 AM	**FOC Situation Report at 06:00 on Tuesday 11 January 2011** Rainfall - Rainfall continues in the North Pine Dam, Somerset Dam and Wivenhoe Dam catchments. Isolated falls in the Upper Brisbane River of up to 125 mm have been recorded with widespread falls of 40 to 70 mm in the Somerset Dam catchment. This rainfall will increase inflows into the dam. - There has also been 20 to 60 mm in the Lockyer Creek catchment in the last 12 hours with falls of up to 30 mm in the Bremer River. - A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 16:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm). North Pine Dam (Full Supply Level 39.60 m AHD) The dam level is 39.80m AHD and has commenced rising again (storing 4,400ML above FSL). Five gates are open releasing 177 m3/s. The inflow into the dam since the commencement of the event is 77,000 ML. Estimated event volume is 88,000 ML assuming	Situation Report	
		Wivenhoe Dam (Full Supply Level 67.00 m AHD) - The dam level is 73.51m AHD and rising at about 25 mm/hour. Releases from the dam have been held at a rate of 2,750 m3/s since 19:30 hours on Monday 10 January 2011. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing. - The BoM has provided further advice about the flash flooding experienced in the upper areas of Lockyer Creek. The rainfall responsible for this event was not observed at any rainfall stations but it is considered to be extreme. Flood levels in the Lockyer Creek catchment will exceed maximum recorded levels in some stations in the upper catchment. This flow will result in increases in Brisbane River levels below the junction of Lockyer Creek. - Five radial gates are currently open at the dam releasing about 2,750m3/s into the Brisbane River. At this stage, the dam will reach just over 74.0m AHD during Tuesday evening. - Above EL 74.0m AHD the objective for dam operations is to maintain the security of the dam and minimise downstream flood flows	Situation Report	
	7:00 AM	SDWD Model Updated - SDWD-201101110700withnorain.xls	Model Run	JW
	7:00 AM	NPD model updated - NPD-201101110700.xls	Model Run	JW
	7:15 AM	Issued North Pine Directive #17. • Gate B: Open to Increment 3 when level reaches 39.895 • Gate C: Open to increment 4 when level reaches 39.910 • Gate E: Open to increment 4 when level reaches 39.925 • Gate A: Open to increment 4 when level reaches 39.940 • Gate D: Open to increment 4 when level reaches 39.955 • Gate B: Open to increment 4 when level reaches 39.970	Directive	JW
	7:20 AM	TM called Peter Borrows to appraise of latest situation of Wivenhoe and lower Brisbane	Correspondence	DP
	7:22 AM	TM called BoM to appraise of situation. BoM unable to talk and will call back.	Correspondence	DP
	7:35 AM	Peter Baddiley of BoM called back. Full appraisal of SEQWater strategy. Both SEQWater and BoM models results were discussed in detail, and generally agreed with each other.	Correspondence	DP
	7:51 AM	Called Matthew O'Rielly (Wivenhoe Dam) advised that gates opening at Wivenhoe are imminent.	Correspondence	DP
	7:56 AM	TM called BoM. Advised Jimmy Stewart and Peter Baddiley that Wivenhoe will ramp up to a minimum release of 3700m3/s.	Correspondence	DP
	7:59 AM	JT called Peter Borrows (Seqwater) and advised that releases from Wivenhoe will reach 3700m3/s at a minimum, and BoM has been informed. Likely to affect Moggill 24 hours later. Phone call terminated due to bad connection.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:00 AM	Issued Wivenhoe Directive #12. • Open Gate 5 to 4.5 m at 08:00 • Open Gates 2 and 4 to 5.0 m at 08:30 • Open Gate 3 to 5.5 m at 09:00	Directive	DP
	8:01 AM	Peter Borrow returned call. JT advised that model to be run for BoM first and results to be past to BoM and BCC immediately. Rain likely to continue today	Correspondence	DP
	8:05 AM	Brett from NPD informed that levels are still rising and another directive is required. JT advised to proceed as per operations manual.	Correspondence	DP
	8:09 AM	Advised Matthew (Wivenhoe Dam) that Wivenhoe Directive was coming through in a matter of minutes.	Correspondence	DP
	8:10 AM	JT called Peter Allen to advise of current Wivenhoe situation - Will exceed EL74m. Ramping up gate opening to a minimum of 3700 and gate operations will progress.	Correspondence	DP
	8:11 AM	TM called BCC flood information centre (Duty Officer - James). Wivenhoe releases will reach 3700m3/s at a minimum and higher flows are possible.	Correspondence	DP
	8:15 AM	NPD Directive # 18 An interval of 15 minutes is to be used between gate movements. Gate C: Open to increment 5 when level reaches 39.985 Gate E: Open to increment 5 when level reaches 40.000 Gate A: Open to increment 5 when level reaches 40.015 Gate D: Open to increment 5 when level reaches 40.030 Gate B: Open to increment 5 when level reaches 40.045 Please also confirm by fax once these gate operations are complete.	Directive	DP
	8:15 AM	JT called Rob Drury to advise of the situation that Wivenhoe will increase to 3700m3/s as a minimum.	Correspondence	DP
	8:16 AM	TM called SRC and left a message.	Correspondence	DP
	8:20 AM	JT Called Matthew (Wivenhoe Dam) and advised more gate opening directives are coming.	Correspondence	DP
	8:21 AM	TM called Tony Trace (ICC) to advise of situation and that Wivenhoe releases to be at a minimum of 3700m3/s	Correspondence	DP
	8:25 AM	JT called Brett Schultz (North Pine Dam). Verbal directive to open gates, faxed directive to follow before 9am.	Correspondence	DP
	8:50 AM	Peter Borrows (SEQwater) called TM mobile requesting 'worst case' scenario	Correspondence	DP
	8:50 AM	Doug from Wivenhoe called informing that Wivenhoe has lost power, high voltage fuse blown. Hydro outlet is shut off.	Correspondence	DP
	9:00 AM	Issued Wivenhoe Directive #13. • Open Gates 2 and 4 to 5.5 m at 09:30 • Open Gates 1 and 5 to 5.5 m at 10:00 • Open Gate 3 to 6.0 m at 10:30 • Open Gates 2 and 4 to 6.0 m at 11:00 • Open Gates 1 and 5 to 6.0 m at 11:30	Directive	DP
	9:09 AM	JT called SEQWater maintenance (Jo Misner) advised that Wivenhoe has lost power, possibly blown high voltage fuses. JO to resolve issue.	Correspondence	DP
	9:12 AM	Brett called. NPD at 40.140 m HAD all gates at 6, currently heading to setting 7.	Correspondence	DP
	9:13 AM	Energex called. All incoming power has been lost at Wivenhoe.	Correspondence	DP
	9:16 AM	JT called Tony Martini and left message: very large inflows into North Pine Dam has resulted in steep gate openings. Flood downstream can be expected.	Correspondence	DP
	9:17 AM	JT called Ed Hamold and informed that very large inflows into North Pine Dam has resulted in steep gate openings. Flood downstream can be expected. Strathpine Rd (Old Gympie Rd) to be flooded within next hour.	Correspondence	DP
	9:21 AM	Agg from Somerset called TM. Water ingress through doors at the bottom of dam	Correspondence	DP
	9:22 AM	JT advised Brett (NPD) that Strathpine Rd is expected to be closed.	Correspondence	DP
	9:26 AM	JT advised Brett verbally that all gates can go to 9 increments based on water level as per manual.	Correspondence	DP
	9:40 AM	TM called MT and requested a technically knowledgeable person be dispatched to test HF radio links and satellite phone are in working condition	Correspondence	DP
	9:51 AM	Voicemail : Jo Misner left message. He's contacted Energex and Energex suspect a dirty feed. Currently all helicopters are grounded. Garry Ludlow is lead at Mt Crosby. Energex will get as close as they can and get helicopter lift when possible.	Correspondence	DP
	10:00 AM	NPD model updated - NPD-201101111000.xls	Model Run	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:25 AM	Brett (North Pine Dam) called to report Lake level at EL 40.490mAHD. All gates currently at setting No. 10.	Correspondence	DP
	10:29 AM	Stan from SEQWater called TM. In conference with Barton Marr. Internal questioning of release strategy. Internal discussion regarding current approved strategy.	Correspondence	DP
	10:45 AM	JT advised MBC (Ed Hamold) of current situation.	Correspondence	DP
	10:54 AM	Rob Drury called. Bad line and disconnected.	Correspondence	DP
	11:00 AM	SDWD Model Updated - SDWD-201101111100withnorain.xls	Model Run	JW
	11:01 AM	Message received by JT. Kilcoy police rang Somerset, JT advised general status information to be provided by dam operators, predictions to go through FOC.	Correspondence	DP
	11:02 AM	Peter Borrows (Seqwater) requested update on situation.	Correspondence	DP
	11:04 AM	JT called Doug (operator) . Discussed that if forecast rain falls, fuse plug likely to go.	Correspondence	DP
	11:06 AM	**FAX not working at Wivenhoe!**	Other	DP
	11:07 AM	Jimmy Stewart (BoM) called. Inflow into NPD of 1500cumecs. Advised Wivenhoe strategy to be revised.	Correspondence	DP
	11:17 AM	Barton called TM - on the way to talk to Grid Manager. TM advised current strategy is 3 hourly.	Correspondence	DP
	11:19 AM	JT called Ed Haold. Advised North Pine still rising. Current releases to exceed 2000cumces.	Correspondence	DP
	11:30 AM	Brett (North Pine Dam) called to report lake level EL 40.740 mAHD. Water level rising slowly. All gates now at setting 14.	Correspondence	DP
	11:38 AM	TM called BoM. Unable to contact Peter Baddiley. Will call back.	Correspondence	DP
	11:38 AM	JT called Peter Burrows and advised that releases at Wivenhoe will be ramped up to 4000cumecs and strategy will be revised on an hourly basis. In reality releasing slightly less than the Flood Ops manual.	Correspondence	DP
	11:51 AM	Incoming Phone call from Rob Ayre. Advised SS that Wivenhoe will ramp up to 4000cumecs. Also advised that staff likely to stay in offices overnight.	Correspondence	DP
	11:56 AM	JT called Ed Hammon and left message again. Outflow will exceed 2000cumecs	Correspondence	DP
	11:57 AM	JT called Elanor Davidson. Left message: North Pine Dam outflow likely to exceed 2000cumecs.	Correspondence	DP
	11:59 AM	JT called Tony Martini. Left message, outflow from North Pine Dam will exceed 2000cumces.	Correspondence	DP
	12:00 PM	Issued Wivenhoe Directive #14. • Open Gates 2, 3 and 4 to 6.5 m at 12:00 • Open Gates 1 and 5 to 6.5 m at 12:30 • Open Gate 3 to 7.0 m at 13:00	Directive	DP
	12:04 PM	Brett (North Pine Dam) called to report lake level at EL 40.883 mAHD. Gates are currently set at setting 16.	Correspondence	DP
	12:10 PM	Kim Hang called from FOC satellite phone. Made contact with Somerset and North Pine. Connection issues with Landline to Wivenhoe.	Correspondence	DP
	12:11 PM	**SitRep 1200 11/1/2011** Somerset/Wivenhoe - Our current strategy revolves around trying to prevent initiation of the first fuse plug at EL 75.6m. If this happens we will get a rapid increase of about 2,000m3/s in outflow from the dam in addition to the gate release which could be as high as 4,500 to 5,000m3/s at the time. However, it may be that fuse plug initiation might provide a lower outflow than increasing the gate outflow to protect it. In this case, we would adopt an alternate scenario. - Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy. - With no further rainfall, Wivenhoe will approach 75.0m AHD and there will be an attempt to limit the dam outflow to 4,500m3/s, however this strategy currently being reviewed on an hour by hour basis. The release will be 4,000m3/s by 1300. -With 50mm rainfall in the Stanley and Upper Brisbane in the next 12 to 24 hours, the release will need to be significantly increased to be in the order 6,000m3/s. - It should be noted that the flow in the lower Brisbane River in 1974 was about 9,500m3/s - Wivenhoe has lost incoming mains power and are on backup power. Energex are attempting to rectify.	Situation Report	
	12:17 PM	Tony Martini called. TM advised discharge in excess of 1989 flood (1500cumecs). Current releases in excess of 2000cumecs.	Correspondence	DP
	12:30 PM	Brett (North Pine Dam) called to report lake level is now at EL 40.950mAHD and rising. Gate settings at 17.	Correspondence	DP
	12:42 PM	Mike Morrison from Redlands shire requesting information for Lesley Harrison. Was told to call Craig Duncan	Correspondence	DP
	12:42 PM	Call from Glen Patternson. Asked what is required of the Northern dams. Was advised to monitor dams more closely when/if 1 in 50 year event occurs.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:00 PM	Issued Wivenhoe Directive #15. • Open Gates 1,2, 4 and 5 to 7.0 m at 13:15	Directive	DP
	1:00 PM	Issued Wivenhoe Directive #16. • Open Gates 1,2, 3, 4 and 5 to 7.5 m	Directive	DP
	1:02 PM	Brett Schultz (North Pine Dam) called to report Lake level EL 41.040 m AHD. Gate settings at setting 18.	Correspondence	DP
	1:26 PM	Peter Burrows (Seqwater) called and requested the FOC request the BoM to consider if Wivenhoe is releasing 9000cumecs.	Correspondence	DP
	1:44 PM	Jeff (North Pine Dam) called on Satellite phone to confirm it is operational.	Correspondence	DP
	1:50 PM	Brett Schultz (North Pine Dam) called to report lake level at EL 41.105mAHD. Gates currently at setting 19.	Correspondence	DP
	1:55 PM	SEQWater is continually revising release strategy, could be as high as 6500cumecs by tonight. If dam stabilise, then estimates may be reduce. TM also passed on information for BoM to consider the effects at Brisbane if Wivenhoe releases 9000cumecs.	Situation Report	DP
	1:56 PM	Rob Drury requesting status update.	Correspondence	DP
	2:00 PM	SDWD Model Updated - SDWD-201101111400withnorain.xls	Model Run	JW
	2:00 PM	Issued Wivenhoe Directive #17. • Open Gates 1,2, 3, 4 and 5 to 8.0 m	Directive	DP
	2:15 PM	Issued Wivenhoe Directive #18. • Open Gates 1,2, 3, 4 and 5 to 8.5 m	Directive	DP
	2:24 PM	Cherlyn Wivenhoe SEQWater called to pass on message. Phil Wilson (Qld fire rescue) called to enquire about Wivenhoe Releases [redacted] Unable to call at this stage.	Correspondence	DP
	2:37 PM	Peter Borrows (SEQWater) called to discuss current situation.	Correspondence	DP
	2:46 PM	Brett Schultz (North Pine Dam) called to report lake level steady at 41.110 for last 30 minutes.	Correspondence	DP
	2:53 PM	North Pine Dam is isolated as per conversation with Brett.	Correspondence	DP
	3:00 PM	NPD model updated - NPD-20110111500.xls	Model Run	JW
	3:06 PM	Stan Stevenson (SEQWater) called to enquire about the current release rate from Wivenhoe Dam.	Correspondence	DP
	3:14 PM	Peter Burrows (Seqwater) called to discuss the proposed release of 10,000cumecs. JT and TM explained release strategy is constantly being revised.	Correspondence	DP
	3:15 PM	Issued Wivenhoe Directive #19. • Open Gates 1,2, 3, 4 and 5 to 9.0 m	Directive	DP
	3:30 PM	Issued Wivenhoe Directive #20. • Open Gates 1,2, 3, 4 and 5 to 9.5 m	Directive	DP
	3:49 PM	Peter Baddiley & Jimmy Stewart had a conference with JT, JR, TM and RA about current release strategy and possible maximum release scenario of 10000m3/s. This would be of a similar magnitude to the 1893 event (~8.36m in Brisbane Port Office)	Correspondence	DP
	3:54 PM	Stan Stevenson (Seqwater) called and talked to JT regarding current inflow strategy.	Correspondence	DP
	3:58 PM	Called Brett Schultz (Wivenhoe Dam) to check if all is ok, levels are slowly reducing.	Correspondence	DP
	4:15 PM	Issued Wivenhoe Directive #21. • Open Gates 1,2, 3, 4 and 5 to 10.0 m	Directive	DP
	4:29 PM	Lowood police rang to request water level of Wivenhoe and discuss the current release strategy with respect to the fuse plug (conversed with John West).	Correspondence	DP
	4:33 PM	Phone call with TM and Peter Burrows. Discussed that even though the magnitude flood in Brisbane is similar to 1974 flood event, the no-dam flood would be significantly larger without Wivenhoe.	Correspondence	DP
	4:41 PM	Peter Allen phone call. PA requested more technical information in the status reports released by Duty Engineers. PA will send through an example of the technical data requested in the report.	Correspondence	DP
	4:45 PM	Issued Wivenhoe Directive #22. • Open Gates 1,2, 3, 4 and 5 to 10.5 m	Directive	DP
	4:46 PM	Dave Roberts called to request update in inflow/outflow of Wivenhoe Dam.	Correspondence	DP
	5:00 PM	SDWD Model Updated - SDWD-201101111700withnorain.xls	Model Run	JW
	5:12 PM	JT called Brett Schultz (North Pine Dam) regarding gate operating strategy. JT advised to keep gates at current setting until water is clear of the controls. Gate closing strategy then to follow Flood Manual.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:15 PM	Issued Wivenhoe Directive #23. • Open Gates 1,2, 3, 4 and 5 to 11.0 m	Directive	DP
	5:22 PM	Jimmy Stewart (BoM), TM and JR discussed current Wivenhoe inflows and anticipated outflows. TM confirmed that 7500cumecs is still likely early tonight.	Correspondence	DP
	5:27 PM	Brett Schultz (North Pine Dam) called to report of NPD level EL 40.7 m AHD. JT verbally advised 10 minute gate closure intervals is ok until 39.9 m AHD - then back to 15 min intervals.	Correspondence	DP
	5:48 PM	Rob Drury asking Tarong Energy to hold off releasing water from Spiltyard Creek.	Correspondence	DP
	6:00 PM	NPD model updated - NPD-20110111800.xls, NPD-20110111800 Final.xls	Model Run	JW
	6:00 PM	SDWD Model Updated - SDWD-201101111800withnorain.xls	Model Run	JW
	6:00 PM	Issued Wivenhoe Directive #24. • Open Gates 1,2, 3, 4 and 5 to 12.0 m	Directive	DP
	6:00 PM	**Situation Report 1800 11 January 2011** -In the last twelve hours totals of up to 370mm have fallen in the area around Wivenhoe Dam. In the last hour, rainfalls between 15 and 30mm have been recorded in the same area. At 1600, the BoM advised that falls between 50 to 100mm are still forecast for the 24hrs to 1600 Wednesday 12 January 2011 for the North Pine and Somerset/Wivenhoe catchments. - At 1730 Wivenhoe Dam was 74.92m AHD and rising slowly and releasing about 6,700m3/s. - The current expectation is that the dam will reach a steady state (outflow equals inflow) within the next 3 hours without further significant rainfall. At this time, release from the dam will be about 8,000 m3/s. - If there is no further rainfall, it may be possible to then slowly reduce this release overnight. - The dam is expected to peak below 75.5m AHD which is 100mmm below the first fuse plug initiation level. - Note that the automatic recorder as indicated on the BoM website is affected by drawdown and is not reflecting the actual lake	Situation Report	TM
	6:04 PM	Glen Patterson called to advise he is unable to reach Lake MacDonald to take readings.	Correspondence	DP
	6:07 PM	Recap of current release strategy amongst Duty Engineers. Current Wivenhoe scenario: 74.9 m - all gates at 12m. Won't go to 13m settings until level reaches 75.0 m AHD.	Correspondence	DP
	6:35 PM	Agg (Somerset Dam) called to confirm all is good.	Correspondence	DP
	6:36 PM	Bill Stevens called to inform team he is cut off due to flood waters and unable to come in.	Correspondence	DP
	6:41 PM	Tarong Energy confirmed releases from Splityard creek have stopped.	Correspondence	DP
	6:56 PM	Daryl Hicky informed that tailwater gauge appears to be OOA. Confirmed by TM.	Correspondence	DP
	7:00 PM	Spoke to Brett Schultz who confirmed that North Pine gate settings were at 17, with level of 40.5. Closing sequence was still to close in 10 minute increments down to level 39.9, at which time increments would increase to 15 minutes.	Correspondence	JW
	7:10 PM	Brett Schultz at NPD rang is concerned that the level is dropping too fast.	Correspondence	AN
	7:30 PM	Issued North Pine Directive #19. • Gate B: Close to increment 11 at 19:45. • Gate D: Close to increment 11 at 20:00. • Gate A: Close to increment 11 at 20:15. • Gate E: Close to increment 11 at 20:30. • Gate C: Close to increment 11 at 20:45.	Directive	AN
	7:30 PM	Doug Grigg (Wivenhoe Dam) called to report that Wivenhoe Level 74.97mAHD is holding.	Correspondence	AN
	7:30 PM	Brett Schultz (North Pine Dam) rang to say he is behind in gate settings.	Correspondence	AN
	7:25 PM	JR called Brett Schultz (North Pine Dam) to advise that a directive will be sent to move all gates down to 11m.	Correspondence	AN
	7:45 PM	Brett Schultz (North Pine Dam) called FOC. JT clarified directive 19 to drop gates from 16 to 11 in one go, at 15 minutes intervals.	Correspondence	AN
	8:00 PM	Peter Baddiley rang. Unofficially TM advised that things have stabilised. Also advised predicted peaks at various sites.	Correspondence	AN
	8:25 PM	Joe Meisner rang to advise that the high voltage feeder to Wivenhoe will not be restored for the duration of this event. JT advised that Wivenhoe is operating successfully on the generator, and they have a fair bit of diesel. There are still 2 other backups to operate the gates.	Correspondence	AN
	8:25 PM	Chris Hughes at Colliers Building Services rang back. Rob Ayre asked about power supply to 179 Turbot Street. Chris said to email our power requirements.	Correspondence	AN
	8:30 PM	Doug Grigg (Wivenhoe Dam) called to advise that Wivenhoe's level is 5mm down.	Correspondence	AN
	8:30 PM	RA called Colliers Building Services and left a message to call back (regarding loss of power to the 179 Turbot Street)	Correspondence	AN

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:30 PM	RA rang John Thornton (SunWater) to advise that power will be shutting down in the CBD tomorrow morning.	Correspondence	AN
	8:30 PM	Issued Somerset Directive #7. • Fully Open Sluice L at 10:30.	Directive	AN
	8:35 PM	RA rang John Thornton to advise the power situation.	Correspondence	AN
	8:35 PM	Peter Burrows (Seqwater) called FOC to speak with all duty engineers on the operating strategies for Wivenhoe releases.	Correspondence	AN
	8:40 PM	MT called FOC to ensure we received the Energex message regarding power shutdown to the CBD.	Correspondence	AN
	8:45 PM	Warren Shallcross rang. Rob Ayre advised that Energex will be cutting power to the CDD in the morning. Warren will call Mike Minter and the security guys for Mineral House.	Correspondence	AN
	8:50 PM	Brett Schultz (North Pine Dam) called to report NPD Level at EL 40.07mAHD. Gates are all at 11 increments.	Correspondence	AN
	8:55 PM	Peter Burrows (Seqwater) rang asking about possibly reducing releases. TM advised that we are seriously considering it, but this would have little effect on the levels in Brisbane River. Peter would like technical reports every hour throughout the night.	Correspondence	AN
	9:00 PM	RA emailed Chris Hughes with our building power requirements.	Correspondence	AN
	9:00 PM	Issued North Pine Directive #20. • Gate B: Close to increment 6 at 21:00. • Gate D: Close to increment 6 at 21:15. • Gate A: Close to increment 6 at 21:30. • Gate E: Close to increment 6 at 21:45. • Gate C: Close to increment 6 at 22:00.	Directive	AN
	9:00 PM	Issued Wivenhoe Directive #25. • Close Gates 1,2, 3, 4 and 5 to 11.0 m	Directive	AN
	9:05 PM	TM rang Chris Lahey (BoM) to advise that power to the CBD may be cut and send him actual and releases report.	Correspondence	AN
	9:10 PM	John Thornton called RA. John advised he spoke to Chris Hughes and is getting an Energex contact.	Correspondence	AN
	9:20 PM	Warren Shallcross rang. Mike Minter told him we may not be able to have air conditioning.	Correspondence	AN
	9:25 PM	RA called John Thornton. Chris Hughes got back to him and has Haywoods Electrical lined up for tomorrow morning.	Correspondence	AN
	9:25 PM	The last directive to lower the Wivenhoe gates to 11m should have been 11.5m. A new directive to raise to 11.5m was issued.	Directive	AN
	9:30 PM	Mal Lane (North Pine Dam) called. They are still behind in gate closures.	Correspondence	AN
	9:30 PM	Issued Wivenhoe Directive #26. • Close Gates 1,2, 3, 4 and 5 to 11.5 m	Directive	AN
	9:35 PM	JT rang to discuss the latest directive to raise Wivenhoe Dam. JT suggested not raising.	Correspondence	AN
	9:40 PM	JW called Doug Grigg (Wivenhoe Dam) to obtain a current level. EL 74.9? Gates have been raised to 11.5m.	Correspondence	AN
	10:00 PM	SDWD Model Updated - SDWD-201101112200withnorain.xls	Model Run	JW
	10:00 PM	John Thornton rang to advise the phone number for Steve from Energex 0418 186 814	Correspondence	AN
	10:00 PM	John Thornton rang requesting RA mobile number to pass on onto Energex.	Correspondence	AN
	10:15 AM	Issued North Pine Directive #21a. • Gate B: Close to increment 4 at 22:30 • Gate D: Close to increment 4 at 22:45 • Gate A: Close to increment 4 at 23:00 • Gate E: Close to increment 4 at 23:15 • Gate C: Close to increment 4 at 23:30 • Gate B: Close to increment 3 at 23:45	Directive	AN
	10:30 PM	John Thornton rang to say Geoff White has pleaded our case with the CEO of Energex and it is likely 179 Turbot Street will not lose power.	Correspondence	AN
	10:35 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.94mAHD @ 10:30hrs.	Correspondence	AN
	11:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.92mAHD @ 11:00hrs.	Correspondence	AN
	11:00 AM	Issued Wivenhoe Directive #27 - note directive #28 was a duplicate and not sent • Close Gates 5,1,4,2 and 3 to 10.0 m	Directive	AN
	11:10 PM	Rob Drury rang to request discharge from Wivenhoe when the gates are lowered to 10m. Advised 6100m3/sec.	Correspondence	AN

DATE	TIME	ACTION	CATEGORY	INITIALS
Wednesday, 12 January 2011	11:30 PM	JW called Doug Grigg (Wivenhoe Dam) to obtain a current level. EL 74.9? Gates have been raised to 11.5m.	Correspondence	AN
	12:00 AM	Issued North Pine Directive #22. • Gate D: Close to increment 3 at 00:15 • Gate A: Close to increment 3 at 00:30 • Gate E: Close to increment 3 at 00:45 • Gate C: Close to increment 3 at 01:00 • Gate B: Close to increment 2 at 01:15	Directive	AN
	12:30 AM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.88mAHD @ 12:30hrs.	Correspondence	AN
	1:00 AM	John Thornton (SunWater) called to provide Energex contact details; Steve, phone number 0418 186 814. Steve indicated that he didn't believe 179 Turbot St would be disconnected from power grid in the morning.	Correspondence	JW
	1:15 AM	RA rang Doug Grigg (Wivenhoe Dam) advising next directive. We want to get releases down as quick as possible while still lowering lake levels. Advised that we may possibly have a communications problem in the morning if power to 179 Turbot Street is cut.	Correspondence	AN
	1:15 AM	Issued Wivenhoe Directive #29. • Close Gates 5,1,4,2 and 3 to 9.0 m	Directive	AN
	2:00 AM	Issued North Pine Directive #23. • Gate D: Close to increment 2 at 02:15 • Gate A: Close to increment 2 at 02:30 • Gate E: Close to increment 2 at 02:45 • Gate C: Close to increment 2 at 03:00	Directive	AN
	2:10 AM	James Charalambous (BCC) rang enquiring about a release strategy. Advised one will be issued at about 3:00am. Talked about the activities of the last 24 hours.	Correspondence	AN
	3:10 AM	JR rang Mal Lane (NPD) and advised no changes to gate settings planned for the next hour or so.	Correspondence	AN
	3:15 AM	Issued Wivenhoe Directive #30. • Close Gates 5,1,4,2 and 3 to 8.0 m	Directive	AN
	3:30 AM	Brett Myatt (SEQWater Mt Crosby WTP) called enquiring about levels at Mt Crosby.	Correspondence	AN
	3:50 AM	RA called Chris Lahey (BoM) advising him that because inflows are not as much as earlier anticipated, the releases from Wivenhoe are less than previously suggested.	Correspondence	AN
	4:05 AM	Ian Douglas, OIC of Lowood Police, rang enquiring about the Wivenhoe fuse plug. JW advised that there is no danger of the fuse plug failing, and that current releases from Wivenhoe Dam are about 4,900 cumecs.	Correspondence	AN
	4:15 AM	Issued North Pine Directive #24. • Gate B Close to increment 1 at 04:30 • Gate D: Close to increment 1 at 04:45 • Gate A: Close to increment 1 at 05:00 • Gate E: Close to increment 1 at 05:15	Directive	AN
	4:30 AM	Issued Wivenhoe Directive #31. • Close Gates 5,1,4,2 and 3 to 7.0 m	Directive	AN
	4:40 AM	Brett Myatt (Seqwater Mt Crosby WTP) rang to check that his emails with the Mt Crosby levels were being received. They are.	Correspondence	AN
	5:15 AM	Rob Drury rang enquiring current storage levels and releases. JR advised.	Correspondence	AN
	5:30 AM	Rob Drury rang enquiring estimated time for closing North Pine Dam. RA advised possible today, but it has not yet been decided. Also advised the inflows into North Pine Dam were equivalent to a 1:10,000 event.	Correspondence	AN
	5:30 AM	Issued Wivenhoe Directive #32. • Close Gates 5,1,4,2 and 3 to 6.0 m	Directive	AN
	5:30 AM	Issued Wivenhoe Directive #33. • Close Gates 5,1,4,2 and 3 to 5.0 m	Directive	AN
	5:30 AM	JR called Wivenhoe Dam for the current level. Dropped 2 cm in 30 minutes.	Correspondence	AN

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:49 AM	**Situation Report 0600 Wed 12/01/2011** - No significant rain has fallen over the catchments in the past twelve hours. Less than 10 to 15 millimeters of rainfall is expected over the next 24-48 hours. - Wivenhoe Dam peaked on the 11th January, Tuesday night at 19:00 at 74.97 mAHD with a corresponding discharge of 7,450 m3/s. The release have now been scaled back to 4,300m3/s at 05:00 am. Wivenhoe Dam is currently 74.77 m AHD and falling slowly. - The releases from Wivenhoe Dam will be temporarily reduced to 2,500 m3/s to allow the peak of Lockyer Creek to enter the Brisbane River, after which they will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days. - Somerset Dam is at 105.10 mAHD and slowly rising. The dam is discharging 1,230 m3/s over the spillway. The dam is expected to peak this morning near its current level. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing on Thursday.	Situation Report	RA
	5:50 AM	TM called Jim Stewart (BoM) advising him that we have significantly scaled back releases from Wivenhoe Dam, and will probably continue to scale back more. Agreed that Savages Crossing has peaked.	Correspondence	AN
	6:00 AM	SDWD Model Updated - SDWD-201101120600withnorain.xls	Model Run	JW
	6:00 AM	North Pine Dam rang enquiring about closing down. JT advised that we have not yet decided.	Correspondence	AN
	6:10 AM	Rob Drury rang and suggested that the fish recovery may be a fairly big job. JT suggested that our staff can check this morning and then decide.	Correspondence	AN
	6:15 AM	Brendan Bradley (BCC) rang enquiring the level of the pump station at Mt Crosby. JT said we can't help, but that he should contact the treatment plant, Brett Myatt.	Correspondence	AN
	6:30 AM	JT rang Doug Grigg (Wivenhoe Dam) advising that a directive will soon follow to lower gates to 5m.	Correspondence	AN
	6:35 AM	Paul Martin rang. JT discussed current strategy.	Correspondence	AN
	7:00 AM	Liaised with Bureau regarding expected peak in lower Brisbane.	Correspondence	JW
	7:15 AM	Issued Wivenhoe Directive #34. • Close Gates 1 and 5 to 3.5 m • Close Gates 2 and 4 to 4.0 m	Directive	KH
	7:50 AM	John Thornton (SunWater) called to confirm that 179 Turbot St had power.	Correspondence	JW
	7:57 AM	**Situation Report 0800 Wed 12/01/2011** Rainfall - No significant rain has fallen over the catchments in the past twelve hours. Less than 10 to 15 millimeters of rainfall is expected over the next 24-48 hours. Somerset/Wivenhoe - Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011 and the dam is discharging 1,230 m3/s over the spillway. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing later Wednesday. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.75 m AHD at 07:30 and generally falling slowly. - The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days. - The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres. North Pine	Situation Report	TM
	8:20 AM	Rob Drury rang enquiring current storage levels and releases. JT advised.	Correspondence	KH
	8:30 AM	Issued North Pine Directive #25. • Gate E: Open to increment 2 at 08:45	Directive	KH
	9:20 AM	Brett Schultz (North Pine Dam) rang wanting to speak to JT.	Correspondence	KH
	9:50 AM	Ken from Lowood Police rang enquiring current storage releases from Wivenhoe Dam. JT advised.	Correspondence	KH
	10:15 AM	Issued Somerset Directive #8. • Fully Open Sluice L at 10:30.	Directive	KH

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:20 AM	Agg (Somerset Dam) called querying whether FOC have received fax and email regarding storage level. He was checking the walls before and will be at his desk for the next 30 minutes. Adam is there with him.	Correspondence	KH
	10:50 PM	Sam (SEQWater) rang wanting to thank Neville for his and John's heroic effort in clearing SEQWater basement.	Correspondence	KH
	11:20 AM	MT called to inform that he and Caroline Ellis Mallard (Seqwater) are not able to access Enviromon. He asked if TM can check the system.	Correspondence	KH
	11:50 AM	Peter Borrows (Seqwater) called to ask that all communications be forwarded to him.	Correspondence	JW
	12:20 PM	NA called Mathew O'Reilly (Wivenhoe Dam) to advise that Seqwater comms are to be switched off due to flooding of the Margaret Street offices. Please send all future hourly bulletins to the FOC via fax, or alternatively, phone or TPG link.	Correspondence	NGA
	12:25 PM	NA called Jeff Francis (North Pine Dam) advising him & Brett that Seqwater comms are to be switched off due to flooding of the Margaret Street offices. Please send all future hourly bulletins to the FOC via fax, or alternatively, phone or TPG link.	Correspondence	NGA
	12:32 PM	Mick O'Haloran (Leslie Harrison Dam) called JT. Due to the failure of Seqwater comms, he was seeking direction on how to submit a final report on operations at approx. 1600 today. JT said to phone in to the FOC.	Correspondence	NGA
	12:55 PM	Peter Baddiley, Rob Tesse, Jim Stevenson from BoM visited FOC to liaise with the Duty Engineers.	Correspondence	NGA
	1:10 PM	Barton Maher called to request electronic copy of Wiv - Som Flood Ops manual to be forwarded to him.	Correspondence	NGA
	1:15 PM	Mathew (Wivenhoe Dam) called to report lake level: 74.79mAHD @13:00hrs. Note: Reading taken in surging water. Wivenhoe fax appears to have failed.	Correspondence	NGA
	2:05 PM	Brett Schultz (North Pine Dam) called to inform that North Pine level was 39.74mAHD and based on this level he is recommending at least one gate closure.	Correspondence	NGA
	2:10 PM	Graham Keegan phoned from Wivenhoe Dam. The SES (and irrigators) at Fernvale have concerns that a flood peak might be coming down the Lockyer within the next couple of hours. Rob Ayre assured Graham that the flood heights have reduced by up to 3 metres and any increase would be less than 1 metre.	Correspondence	NGA
	2:15 PM	Issued North Pine Directive #26. • Gate E: Close to increment 1 at 14:15	Directive	NGA
	2:25 PM	Mathew (Wivenhoe Dam) called to report lake level: 74.81mAHD @14:00hrs. Note: Reading taken in surging water. Wivenhoe fax confirmed as failed.	Correspondence	NGA
	2:30 PM	Brett Schultz (North Pine Dam) called to advise that the automatic height gauge is drifting further from the manual gauge board readings. He will continue to provide both versions at hourly intervals but will rely on the manual gauge readings for gate operations.	Correspondence	NGA
	2:45 PM	Issued North Pine Directive #27. • Gate C: Close to increment 1 at 14:45	Directive	NGA
	3:00 PM	**Situation Report 1500 Wed 12/01/2011** Rainfall Rainfall in the last 12 hours is generally below 5mm with a couple of 10mm falls in the Stanley and North Pine catchments. There is no significant rain expected fin the next 4 days. Somerset/Wivenhoe - Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011. One sluice was opened at 1030 12 January 2011 and the dam is discharging 1,440 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.81 m AHD at 15:00 and steady. - The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days. - The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.	Situation Report	TM
	3:05 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.81mAHD @ 15:00hrs.	Correspondence	NGA
	3:30 PM	Peter Baddiley (BoM) called TM to discuss re-appraisal of the expected flood peak in Brisbane. Peak now may be 5.2 metres early on Thursday 13/12011.	Correspondence	NGA
	4:00 PM	SDWD Model Updated - SDWD-201101121600.xls	Model Run	JW
	4:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.80mAHD @16:00hrs.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	4:00 PM	Brett Schultz (North Pine Dam) called to report that Sideling Creek Dam is spilling at 20.560mAHD. Spillway level is 20.37mAHD.	Correspondence	NGA
	4:20 PM	Ken Morris (BCC) called FOC and had phone conference with Duty Engs. He was seeking update for briefing with Lord Mayor.	Correspondence	NGA
	4:52 PM	Paul Martin (DERM) called FOC and left message for TM. They (DERM) will be gauging at Jindalee all night to catch the peak. Carolyn Ellis Mallard has been contacted and will be joining the crew.	Correspondence	NGA
	5:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.82mAHD @17:00hrs.	Correspondence	NGA
	6:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.80mAHD @18:00hrs.	Correspondence	NGA
	6:00 PM	**Situation Report 1800 Wed 12/01/2011** Rainfall Rainfall in the last 12 hours is generally below 5mm with a couple of 10mm falls in the Stanley and North Pine catchments. There is no significant rain expected fin the next 4 days. Somerset/Wivenhoe - Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011. One sluice was opened at 1030 12 January 2011. Somerset Dam was 104.87 mAHD at 1700 12 January 2011 and discharging 1,410 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.82 m AHD at 17:00 and steady. - The release from Wivenhoe Dam was reduced to 2,500 m3/s at 07:30 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River and this release has been maintained since. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m3/s. The release is expected to commence Thursday and then be	Situation Report	TM
	7:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level of 74.82 @19:00hrs.	Correspondence	MT
	7:45 PM	RA & JR advised Chris Laney (BoM) that FOC will be sending updated projected releases from Wivenhoe Dam. This has been prepared with the aim of limiting flows at Moggill to 3,500 cumecs.	Correspondence	MT
	8:00 PM	RA & JR advised David (BCC Flood Information Centre) that FOC will be sending updated projected releases from Wivenhoe Dam. This has been prepared with the aim of limiting flows at Moggill to 3,500 cumecs.	Correspondence	MT
	8:55 PM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.82mAHD @ 21:00hrs. They will now report levels every 2 hours.	Correspondence	RA
	9:15 PM	Doug Grigg (Wivenhoe Dam) called to inform that Energex restored power at Wivenhoe Dam at 21:15 hours.	Correspondence	MT
	9:50 PM	Brett Myatt (Mt Crosby WTP) provided an update on Kholo & Mt Crosby: Kholo 19:15hrs 20.0m Mt Crosby 21:00 23.5m He asked for a situation update. RA shared Wivenhoe Dam's release strategy.	Correspondence	MT
Thursday, 13 January 2011	10:00 PM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.81mAHD @22:00hrs. Will now report levels every 2 hours.	Correspondence	MT
	12:00 AM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.79mAHD @ 00:00.	Correspondence	MT
	1:00 AM	James (BCC) called FOC to enquire if Wivenhoe Dam has been compromised. JR assured him that that is not the case.	Correspondence	MT
	1:05 AM	RA called BoM hotline number to check communications.	Correspondence	MT
	1:10 AM	BCC called the FOC regarding a viral text rumour that Wivenhoe Dam has failed. JR assured him that that is not true and will speak with Rob Drury about this matter.	Correspondence	MT
	1:20 AM	Gareth Bossley (Queensland Police) called to inform of rumours that Wivenhoe Dam has been compromised.	Correspondence	MT
	1:25 AM	JR called Doug Grigg (Wivenhoe Dam) to confirm Wivenhoe Dam has not been compromised.	Correspondence	MT
	1:30 AM	JR called Rob Drury advising him about the rumours that Wivenhoe Dam has been compromised. JR will send him the BCC contact details.	Correspondence	MT
	2:00 AM	Doug Grigg (Wivenhoe Dam) called to report level 74.765mAHD @ 2:00hrs.	Correspondence	MT
	4:00 AM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.74mAHD @4:00hrs. Will now report levels every 2 hours.	Correspondence	MT

DATE	TIME	ACTION	CATEGORY	INITIALS
	5:43 AM	**Situation Report 0600 13 January 2011** Rainfall Rainfall in the last 12 hours is generally below 5mm with isolated falls of up to 15mm in the Stanley, Lockyer and Pine River catchments. There is no significant rain expected fin the next 4 days. Somerset/Wivenhoe - Somerset Dam peaked at 105.11 mAHD at 06:00 on Wednesday 12 January 2011. The current level is 104.34 mAHD. One sluice was opened at 10:30 on 12 January 2011 and the dam is currently discharging 1,130 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days. - Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.72 m AHD at 06:00 and commence to fall slowly. - The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 on Wednesday 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River. The Brisbane River has peaked at the Port Office Gauge early Thursday morning. Releases from Wivenhoe Dam will be managed to achieve a target flow of around 3,500 m3/s at Moggill. This release will	Situation Report	RA
		North Pine At 06:00 North Pine Dam was 39.70 mAHD falling with all gates open 1 increment, releasing about 80 m3/s. North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML. It is expected that all gates will be closed on Friday. Strategy - The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and reviewing operating strategy. The FOC will continue to maintain close contact with warning agencies and local councils. - The next report will be issued at 18:00 on Thursday 13 January 2011.	Situation Report	
	6:00 AM	Doug Grigg (Wivenhoe Dam) called to report lake level 74.71mAHD @6:00hrs. Will now report levels every 2 hours.	Correspondence	MT
	6:43 AM	Peter Baddiley (BoM) called to inform that BoM has lost their telephone system. He provided 2 contact numbers. [redacted] Thornton St 4.45m.Telemeter 4.20m	Correspondence	MT
	7:30 AM	Agg Dagan has been advising Kilcoy Police of the FOC strategy for lower Somerset during the next 24 hours of opening sluice later today	Correspondence	RA
	7:50 AM	Peter Baddiley (BOM) called to ask heights 3,500m3/s would be at Savages and Mt Crosby. TM advised 34.5m AHD and 16.5m AHD respectively.	Correspondence	TM
	8:05 AM	Kerry (MBRC) wanted to know when NPD gates will be closed. Advised to be closed by 0500 Friday	Correspondence	TM
	8:15 AM	Somerset directive #9 issued	Correspondence	JW
	9:00 AM	Rob Drury wants to know when gates setting are changed on Wivenhoe and Somerset. Advised that NPD will be closed at 05 Friday.	Correspondence	RA
	9:00 AM	Agg Dagan advised of projected level for Somerset, 103.5 by 2000 Thursday and 102.8 early Friday morning. Will open another sluice this afternoon.	Correspondence	TM
	10:10 AM	Rob Drury called to inform that power and IT services have been restored at Seqwater.	Correspondence	JW
	10:30 AM	Rob Drury called to request if he could be notified of any changes to releases from Wivenhoe	Correspondence	JW
	11:00 AM	SDWD Model Updated - SDWD-201101131100.xls	Model Run	JW
	12:30 PM	Wivenhoe directive #35 issued • Open Gate 2 from 4.0 metres to 4.5 metres at 1300. • Open Gate 4 from 4.0 metres to 4.5 metres at 1400.	Directive	JW
	12:30 PM	Somerset directive #10 issued • Fully Open Sluice K at 13:00.	Directive	JW
	1:00 PM	Tony Jacobs rang to enquire about Kilcoy Creek and Mary Smokes Bridge. Duty Engineers advised that it may be out of water tonight, certainly by tomorrow morning.	Correspondence	JW
	1:15 PM	Rob Drury called to advise that Police had called to ask when Kilcoy would be accessible. John Tibaldi advised Rob that it would be by 6am tomorrow morning (14/1).	Correspondence	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:40 PM	Brett Myatt called for update on Mt Crosby. Terry Malone informed him that level would be maintained at 17.5 metres for next 7 days.	Correspondence	JW
	2:15 PM	Phone call from Steve Roso, MBRC. Advice as follows: * damage to Gympie Rd abutments * No evacuations * No suburban flooding * Not aware of any over floor flooding. Pine Shire had 0.75m freeboard.	Correspondence	JW
	2:30 PM	Wivenhoe directive #36 issued • Open Gate 1 from 3.5 metres to 4.0 metres at 1500. • Open Gate 5 from 3.5 metres to 4.0 metres at 1600. • Open Gate 1 from 4.0 metres to 4.5 metres at 1700. • Open Gate 5 from 4.0 metres to 4.5 metres at 1800.	Correspondence	JW
	3:45 PM	Provided situation report to Rob Drury.	Situation Report	JW
	3:50 PM	Brett Schultz called to confirm if FOC received Dam Observation report for North Pine Dam. Approx 6 of 40 uplift pressure gauges have abnormal readings.	Correspondence	JW
	4:45 PM	Judy (MBRC) was advised that NPD gates will be closed at 0500 Friday	Correspondence	TM
	6:00 PM	Wivenhoe directive #37 issued • Open Gate 2 from 4.5 metres to 5.0 metres at 1830. • Open Gate 4 from 4.5 metres to 5.0 metres at 1900. • Open Gate 1 from 4.5 metres to 5.0 metres at 1930. • Open Gate 5 from 4.5 metres to 5.0 metres at 2000. • Open Gate 3 from 5.0 metres to 5.5 metres at 2030.	Directive	JW
	7:37 PM	John Thornton of SunWater called to confirm building services were working and all in order.	Correspondence	DP
	7:51 PM	Rob called Mal Lane (North Pine Dam) to discuss the current drainage strategy to close all gates by 5am tomorrow. Water level in North Pine Dam will be frequently monitored against the predictive model results, and gate opening will be adjusted accordingly if required.	Correspondence	DP
	8:15 PM	Wivenhoe directive #38 issued • Open Gate 2 from 5.0 metres to 5.5 metres at 2100. • Open Gate 4 from 5.0 metres to 5.5 metres at 2200. • Open Gate 1 from 5.0 metres to 5.5 metres at 2300. • Open Gate 5 from 5.0 metres to 5.5 metres at 2000. • Open Gate 3 from 5.5 metres to 6.0 metres at 0100 on 14/1/11 • Open Gate 3 from 5.5 metres to 6.0 metres at 0200 • Open Gate 3 from 5.5 metres to 6.0 metres at 0300	Directive	DP
	8:28 PM	Somerset directive #11 issued • Fully Open Sluice N at 21:00.	Directive	DP
	8:30 PM	Rob Ayre called Graham Francis to advise of directive #11.	Correspondence	DP
	8:41 PM	Rob Ayre called Rob Drury top advise of current release rates from Wivenhoe, Somerset and North Pine Dams.	Correspondence	DP
Friday, 14 January 2011	12:46 AM	David Preston of Ipswich District (Fernvale) Police rang to enquire into the integrity of Somerset Dam, based on information received by the police. Rob Ayre indicated that surveillance procedures are in place to monitor the integrity of the Dam, and that RA will confirm with the operators.	Correspondence	DP
	12:47 AM	Rob Ayre called Ray Ballinger at Somerset to enquire to the integrity of Somerset Dam. Operator indicated all was good and no anomalies have been detected.	Correspondence	DP
	12:49 AM	RA called David Preston back on 3817 1436 to confirm that Somerset was recently inspected and all was ok.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	2:10 AM	Rob Ayre called Shane Watson to advise commencement of shut down of gates in accordance with Directive #30: Please undertake the following gate operations commencing at 03:15 on Friday 14 January 2011. The interval between gate operations is to be 15 minutes. • Gate A: Close to 1 increment at 03:15 • Gate E: Close to 1 increment at 03:30 • Gate C: Close to 1 increment at 03:45 • Fully Close Gate B at 04:00 • Fully Close Gate D at 04:15 • Fully Close Gate A at 04:30 • Fully Close Gate E at 04:45 • Fully Close Gate C at 05:00	Directive	DP
	5:13 AM	Fax received from North Pine Dam confirming closure of all gates.	Correspondence	DP
	5:15 AM	Rob Ayre called MBRC to advise that North Pine Dam has closed the final gate at 5am.	Correspondence	DP
	5:16 AM	Malcom from North Pine Dam called to confirm that all gates are closed, and Young's Crossing should be passable within 2 hours. Lake Kurwongbah level is 20.43 m.	Correspondence	DP
	5:28 AM	Rob Drury called to obtain a situation report. Rob Ayre provided the key information.	Correspondence	DP
	5:37 AM	James C from BCC called requesting information for Wivenhoe Dam and checking sit-rep data. Enquired about flows throughout the event, TM advised that not currently in a position to discuss these.	Correspondence	DP
	7:40 AM	Rob Drury rang FOC to enquire about river levels at Lowood. Pumps required to be installed to supply Lowood WTP. TM advised RD that no significant rises were expected in the Brisbane River levels in the foreseeable future.	Correspondence	NGA
	7:45 AM	Andrew Tesse from ICC phoned the FOC. Enquiring about renewed rises in the Brisbane / Bremer River systems. He cannot contact BOM for an update. TM advised that no significant rises were expected at Moggill. A constant flow in the river was the plan as a consequence of Wivenhoe releases.	Correspondence	NGA
	8:20 AM	Barton Maher phoned TM. Enquiry regarding the Wivenhoe Dam fuse plugs (design calcs/parameters).	Correspondence	NGA
	8:21 AM	Peter Borrows phoned the FOC. TM discussed with Peter Borrows the release strategy from Wivenhoe Dam with a view to opening the Fernvale Bridge and Mt Crosby Bridge at the earliest possible time. TM also updated PB on the projected City Gauge height over the next few days. This being ~2.5 metres due to continuous releases from Wivenhoe Dam.	Correspondence	NGA
	8:30 AM	TM returned call back to Barton Maher. TM extended an invitation to Barton and others to pay a visit to the FOC to inspect operations.	Correspondence	NGA
	10:10 AM	Agg Dagan rang from Somerset Dam. Checking that all comms avenues (faxes & e-mails) are functioning. All good.	Correspondence	NGA
	10:25 AM	Ken Morris from BCC rang TM. Enquiring if any chance of cutting back Wivenhoe releases to lower flows than the current figure of 3,500 cumecs. TM's response was NO !	Correspondence	NGA
	10:40 AM	Rob Keogh (SunWater) transmitted a message via Daryl Brigden (SunWater) to Barton Maher that the right bank abutment to Mt Crosby Bridge has suffered some erosion due to the flooding and there are concerns that the abutmernt may be further affected by piping once the water level falls.	Correspondence	NGA
	10:50 AM	Murray Dunstan rang from North Pine. The dam ceased flood operations at 5:00am this morning and fish recovery and clean-up has been completed. Approx. 31 lung fish were rescued. Quite a number of dead lung fish and other species. Erosion damage downstream of the dam is severe with loss of vegetation, stripped and fallen trees, bank erosion, and many dead fish caught within the root ball of fallen trees. Murray is organising back hoes and front end loader machinery to clear the debris between the NP dam wall and Grant Street.	Correspondence	NGA
	12:33 PM	Mark Tan phoned TM. Request from Seqwater Corp Comms about hourly updates. Particular concern about NPD which ceased flood operations at 5:00am this morning !! TM advised that updates from the dams would continue to be channeled solely through the FOC.	Correspondence	NGA
	12:35 PM	Ali Cameron from DERM phoned TM. Re: Gauging exercise at Jindalee:- Soundtek M9 from boat (6 passes) Jindalee gauging result:- 4,300m^3/sec at 6:45 metres AHD at 12:00 hrs	Correspondence	NGA
	12:37 PM	Peter Borrows rang TM. Discussion about mis-informed reporting.	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	1:45 PM	TM rang Ken Morris at BCC seeking clarification on BCC's flood mapping. Ken Morris advised that at 3,500 cumecs, BCC records indicate that 220 properties will have water on the property. TM confirmed that 'water on the property' did not mean water above floor level. i.e. Likely to be land inundation only.	Correspondence	NGA
	1:53 PM	Rob Drury rang TM. Routine call. Update on current status.	Correspondence	NGA
	2:45 PM	Rob Drury rang TM. Routine call. Update on current status.	Correspondence	NGA
	3:30 PM	Matthew O'Reilly rang from Wivenhoe Dam with concerns about some 'swirling' apparent in the downstream tailwater opposite 'The Common'. Matthew thought there could be some erosion occurring under the flow. Matthew forwarded a marked photo of the phenomenon to TM. The consensus reached was that the phenomenon was the result of an 'hydraulic jump'. The matter would be referred to John Tibaldi for further investigation.	Correspondence	NGA
	3:55 PM	TM rang John Tibaldi to discuss the 'swirling' phenomenon identified by Matthew O'Reilly. Effect is at D/S end of plunge pool and is almost certainly a 'hydraulic jump'. JT advised the issue was not of concern unless the phenomenon moves toward the flip bucket.	Correspondence	NGA
	4:05 PM	TM phoned Matthew O'Reilly at Wivenhoe Dam to pass on advice that John Tibaldi had no concerns about the 'hydraulic jump' phenomenon identified by him earlier today.	Correspondence	NGA
	4:50 PM	Brett Myatt phoned the FOC. TM advised Brett that the current release strategy from Wivenhoe Dam (and therefore flows past the Mount Crosby WTPs) would be maintained until at least Monday (17/1).	Correspondence	NGA
	5:50 PM	Rob Drury rang John Tibaldi enquiring when the bridges to the east of Lake Wivenhoe would be clear of floodwater. JT advised all but the Sandy Ck - A&PM Conroy Bridge on the Wivenhoe Somerset Rd would be clear by tomorrow (Sat) morning.	Correspondence	NGA
	7:00 PM	FOC change over.	Other	KH
Saturday, 15 January 2011	2:15 AM	Somerset directive #40 issued • Open Gate 5 from 5.5 metres to 6.0 metres at 02:30.	Directive	KH
	8:40 AM	Rob Drury rang. Terry advised strategy to possibly go below FSL at Wivenhoe by Thursday.	Correspondence	AN
	8:42 AM	Peter Burrows rang to advise that the media come into the FOC today to take photos.	Correspondence	AN
	10:20 AM	Wivenhoe directive #41 issued. Open Gate 3 from 6.0m to 6.5m at 10:30.	Directive	AN
	11:30 AM	Rob Drury rang to request a summary of the Operations Manual for Wivenhoe. Terry to provide after checking with all duty engineers.	Correspondence	AN
	12:12 PM	Rob Drury rang to advise of a phone hook-up with the Minister and Peter Burrows at 2:00pm, and requested that RA be in at the FCO at that time.	Correspondence	AN
	12:20 PM	Peter Burrows rang to confirm a phone hook-up with the Minister and Peter Burrows at 2:00pm.	Correspondence	AN
	12:55 PM	Terry Malone advised Rob Ayre to come into the FOC for the phone hook-up at 2:00pm.	Correspondence	AN
	13:10 AM	Peter Allen phoned about the Wivenhoe Flood manual summary. Terry Malone told Peter that the summary is with the other duty engineers for checking before issuing.	Correspondence	AN
	1:15 PM	Rob Drury rang with some questions on the Wivenhoe Flood manual summary.	Correspondence	AN
	1:45 PM	Rob Ayre and John Tibaldi arrived at the FOC for the 2:00pm phone hook-up.	Correspondence	AN
	2:00 PM	Phone hook-up with TM, RA, JT with Rob Drury, Peter Allen, Peter Boroughs, Joh Bradley and Bob Reilly to discuss a report for the minister by COB Sunday.	Correspondence	AN
	4:30 PM	Wivenhoe directive #42 issued. Open Gate 2 from 6.0m to 6.5m at 10:30.	Directive	AN
	5:00 PM	Rob Drury arrived to help write report for minister briefing.	Correspondence	AN
	7:30 PM	Doug from Wivenhoe called to discuss strategy for the next 12 hours.	Correspondence	DP
	10:22 PM	Directive #43 sent to Doug at Wivenhoe: Please undertake the following gate operations commencing at 22:00 on 15/01/2011 • Open Gate 4 from 6.0 metres to 6.5 metres at 22:00. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	DP
Sunday, 16 January 2011	2:45 AM	Directive #44 sent to Doug at Wivenhoe: Please undertake the following gate operations commencing at 04:00 on 16/01/2011 • Open Gate 1 from 6.0 metres to 6.5 metres at 04:00. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	DP
	4:12 AM	Called Doug at Wivenhoe to confirm directive received via email. Directive being actioned ASAP.	Correspondence	DP

DATE	TIME	ACTION	CATEGORY	INITIALS
	7:10 AM	Anthony Dagan (Somerset Dam) emailed floodcentre indicating he believed floodcentre phones were out. Tried to contact Ag by office and mobile phones with no success (Telstra message bank on office phone and Ag's message on mobile). Floodcentre phones were checked - working OK. Problem is with Somerset phones. Believe fax also not receiving. Ag emailed to confirm they have local calls but no STD. Continued checking mobile - no response.	Correspondence	BS
	8:15 AM	Directive #45 sent to Matt at Wivenhoe: Please undertake the following gate operations commencing at 09:00 on 16/01/2011 • Open Gate 5 from 6.0 metres to 6.5 metres at 09:00 on 16/01/2011.. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	DP
	8:20 AM	Called Matt at Wivenhoe to confirm directive 45 received. Confirmed not received - busy status on fax confirmation. Confirmed directive received via email.	Correspondence	BS
	9:05 AM	Directive #12 sent to Ag at Somerset:: Please undertake the following operations: • Fully close Sluice N at 10:00. Please confirm this gate operation by fax once you have completed the requested operations.	Directive	BS
	9:40 AM	Retried all phones at Somerset - no response. Ag emailed to confirm that all phones are down at Wivenhoe. Email is still working and he will be checking emails every hour on the hour.	Correspondence	BS
	10:20 AM	Email confirmation received that Somerset Directive #12 implementation has been completed.	Correspondence	BS
	11:30 AM	FOC contacted by police (Robbie Goodger - ph[redacted] notifying that the Wivenhoe viewing area has been damaged. Rob Ayre unable to contact Wivenhoe staff (Matt) - message left. Then contacted Doug Grigg, who confirmed that the area is damaged and has been locked off and 2 security guards are on site. It won't be opened until the water level falls and a full inspection of the structure has been completed. Rob Ayre confirmed this with police, who reported that there was damage to safety rails and water supply to toilets. Matt also responded to Rob's call and confirmed the details.	Correspondence	BS
	12:15 PM	Directive #46 sent (fax and email) to Matt at Wivenhoe (confirmed by phone): Please undertake the following gate operations commencing at 13:00 on 16/01/2011 • Open Gate 3 from 6.5 metres to 7.0 metres at 13:00 on 16/01/2011.. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	BS
	12:30 PM	Phone call from Matt (Wivenhoe) - neither fax nor email received. Verbal instruction given to implement gate operation as per Directive #46 and email resent.	Correspondence	BS
	12:40 PM	Ian Holland (contract programmer) called to advise that the back-up Linux box "Namah" at Mineral House is showing file system corruption errors, so the FCC is effectively without backup. The hydraulic model in the RTFN is missing because two Fortran programs "Modcom 2" and "Modef" have not been ported to the Linux box.	Correspondence	BS
	12:55 PM	Rob Ayre advised Warren Shallcross about the situation at Mineral House, and he will visit the backup operations centre ASAP.	Correspondence	BS
	1:10 PM	Ag (Somerset) called to report that the phones are now working.	Correspondence	BS
	2:40 PM	Terry Malone spoke to Rob Ayre. Grid manager wants a summary of flood volumes and peak discharges.	Correspondence	BS
	3:00 PM	Warren Shallcross called - confirmed with Rob Ayre that the computer system at Mineral House has been rebooted and is functional.	Correspondence	BS
	3:10 PM	Rob Drury rang to confirm current discharges. Confirmed 600 cumecs for Somerset and 3500 cumecs for Wivenhoe (approx).	Correspondence	BS
	3:15 PM	Directive #47 sent (fax and email) to Matt at Wivenhoe (confirmed by phone): Please undertake the following gate operations commencing at 16:00 on 16/01/2011 • Open Gate 2 from 6.5 metres to 7.0 metres at 16:00 on 16/01/2011. Please advise the Flood Operations Centre by fax once you have completed these operations.	Directive	BS
	4:00 PM	Directive #47 implemented - Gate 2 opened to 7.0 m.	Correspondence	BS
	6:45 PM	Wivenhoe Directive #48 sent (fax and email) to Wivenhoe Dam. Open gate 4 from 6.5 metres to 7 metres at 20:00 on 16/1/2011.	Directive	MT
	6:52 PM	Rob Ayre spoke with Doug Grigg (Wivenhoe Dam) about Directive #48 Wivenhoe strategy. Doug confirmed receipt of Directive.	Correspondence	MT
	7:00 PM	FOC change over.	Other	MT

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:30 PM	Somerset Directive #13 sent (fax and email) to Somerset Dam. Fully close Sluice K at 22:00 on 16/1/2011. Fully close Sluice M at 03:00 on 17/1/2011. Fully close Sluice L at 07:00 on 17/1/2011. Fully open Regulator 12 at 07:15 on 17/1/2011.	Directive	MT
	10:00 PM	Doug Grigg (Wivenhoe Dam) called to inform 3 floor panels missing from bulks.	Correspondence	MT
Monday, 17 January 2011	7:15 AM	Rob Drury called to get Sit Rep. Advised that Somerset should remain mobilised until further notice	Correspondence	LVB
	7:35 AM	Agg Duggan called - discussed strategy i.e. operate cone valves only from now on	Correspondence	LVB
	9:15 AM	Brett Myatt from Mt Crosby called to find out about strategy for Wivenhoe shut down. Informed him that we will start closing down mid afternoon and aiming to have it closed by Wednesday	Correspondence	LVB
	9:35 AM	Rob Drury called to enquire when closing down will start and reminded us to inform Councils	Correspondence	LVB
	10:00 AM	Advise Peter Allen about inconsistency between readings form BoM and actual HW gauges	Correspondence	LVB
	10:15 AM	Tony Jacobs SRC was contacted and advised gate close will commence this afternoon and Fernvale Bridge will be out of the water sometime Tuesday morning	Correspondence	LVB
	10:20 PM	Chris Lavin BCC was contacted (left message) advising gate close will commence this afternoon.	Correspondence	LVB
	10:20 PM	Tony Trace ICC was contacted (left message) advising gate close will commence this afternoon.	Correspondence	LVB
	11:15 PM	Called Bret Myatt to inform him that flow in Lockyer is 75m3/s and falling.	Correspondence	LVB
	11:15 PM	Talked to Ken Morris BCC. Advised him about gate closure. He mentioned that BCC will not provide any info on flood recurrence until they discussed with FoC.	Correspondence	LVB
	11:20 AM	Rob Dury called - Council wants to know draw down rates, so they can determine the effects on Coronation Dr. JR informed RD that Ken did not raise this when they spoke 10 mins before.	Correspondence	LVB
	11:20 AM	Peter Burrows called saying he will email a revised copy of Michael O'Brain's document	Correspondence	LVB
	12:20 PM	JR contacted BCC to get an update on Coro Dr situation. JR spoke to Ken Morris. Ken advised he had spoken to BCC Geotec Officers and they had advised that @ this stage as Coro Dr was back within the banks that they could not see an immediate problem. Some bank slumping have been identified further up the river. Council would like the recession of flow to be as flat as practicable but also that releases be as small as possible @ the Port Office gauge by the time of the high tide on Friday. This is consistent with our current strategy of closing releases by Wednesday 20 Jan 2010.	Correspondence	LVB
	12:30 PM	Rob Drury called, requesting an update on discussions with BCC. He requested that BCC confirm the discussion of 12:20 in writing.	Correspondence	LVB
	1:01 PM	Rob Drury called, saying Morton Bay wanted to know if there will be any more releases from NPD. JR said nil planned unless we get more rain.	Correspondence	LVB
	2:00 PM	Send directive No 49 to Wivenhoe for gate closures for the next 80 minutes • Close Gate 4 from 7.0 metres to 6.5 metres at 14:00 on 17/01/2011. • Close Gate 2 from 7.0 metres to 6.5 metres at 14:20 on 17/01/2011 • Close Gate 3 from 7.0 metres to 6.5 metres at 14:40 on 17/01/2011 • Close Gate 5 from 6.5 metres to 6.0 metres at 15:00 on 17/01/2011	Directive	LVB
	2:15 PM	Rob Drury called, asking for dates and times for Wivenhoe operations at the peak of the flood.	Correspondence	LVB
	3:15 PM	Peter Badley form BoM called to confirm that he received the info on the discrepancy in the auto level recorder	Correspondence	LVB
	3:15 PM	Send directive No 50 to Wivenhoe for gate closures • Close Gate 4 from 6.5 metres to 6.0 metres at 15:20 on 17/01/2011. • Close Gate 2 from 6.5 metres to 6.0 metres at 15:40 on 17/01/2011	Directive	LVB
	4:15 PM	Jim from BoM - they have not received manual observations for days	Correspondence	LVB
	6:00 PM	Send directive No 51 to Wivenhoe for gate closures on the half hour • Close Gate 1 from 6.5 metres to 6.0 metres at 16:00 on 17/01/2011 • Close Gate 3 from 6.5 metres to 6.0 metres at 16:20 on 17/01/2011. • Close Gate 5 from 6.0 metres to 5.5 metres at 16:40 on 17/01/2011 • Close Gate 1 from 6.0 metres to 5.5 metres at 17:00 on 17/01/2011 • Close Gate 4 from 6.0 metres to 5.5 metres at 17:20 on 17/01/2011 • Close Gate 2 from 6.0 metres to 5.5 metres at 17:40 on 17/01/2011 • Close Gate 3 from 6.0 metres to 5.5 metres at 18:00 on 17/01/2011	Directive	LVB

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:30 PM	Send directive No 52 to Wivenhoe for gate closures • Close Gate 5 from 5.5 metres to 5.0 metres at 18:30 on 17/01/2011 • Close Gate 1 from 5.5 metres to 5.0 metres at 19:00 on 17/01/2011. • Close Gate 4 from 5.5 metres to 5.0 metres at 19:30 on 17/01/2011 • Close Gate 2 from 5.5 metres to 5.0 metres at 20:00 on 17/01/2011 • Close Gate 3 from 5.5 metres to 5.0 metres at 20:30 on 17/01/2011 • Close Gate 5 from 5.0 metres to 4.5 metres at 21:00 on 17/01/2011 • Close Gate 1 from 5.0 metres to 4.5 metres at 21:30 on 17/01/2011 • Close Gate 2 from 5.0 metres to 4.5 metres at 22:00 on 17/01/2011 • Close Gate 4 from 5.0 metres to 4.5 metres at 22:30 on 17/01/2011 • Close Gate 5 from 4.5 metres to 4.0 metres at 22:00 on 17/01/2011	Directive	LVB
	9:30 PM	Wivenhoe directive no.53 emailed to dam operators (fax machine at Wivenhoe inoperative). • Close Gate 5 from 4.5 metres to 4.0 metres at 23:00 on 17/01/2011 • Close Gate 1 from 4.5 metres to 4.0 metres at 23:30 on 17/01/2011 • Close Gate 5 from 4.0 metres to 3.5 metres at 00:00 on 18/01/2011 • Close Gate 1 from 4.0 metres to 3.5 metres at 00:30 on 18/01/2011 • Close Gate 4 from 4.5 metres to 4.0 metres at 01:00 on 18/01/2011 • Close Gate 2 from 4.5 metres to 4.0 metres at 01:30 on 18/01/2011 • Close Gate 5 from 3.5 metres to 3.0 metres at 02:00 on 18/01/2011 • Close Gate 1 from 3.5 metres to 3.0 metres at 03:00 on 18/01/2011 • Close Gate 3 from 5.0 metres to 4.5 metres at 04:00 on 18/01/2011 • Close Gate 4 from 4.0 metres to 3.5 metres at 05:00 on 18/01/2011 • Close Gate 2 from 4.0 metres to 3.5 metres at 06:00 on 18/01/2011 • Close Gate 5 from 3.0 metres to 2.5 metres at 07:00 on 18/01/2011 • Close Gate 1 from 3.0 metres to 2.5 metres at 08:00 on 18/01/2011	Directive	JW
Tuesday, 18 January 2011	12:30 AM	Peter Borrows called to inform that rapidly dropping water level at Lowood was causing issues with pumping for WTP. Asked if FOC could call John Granzien and then notify him via txt of the outcome.	Correspondence	JW
	12:35 AM	FOC contacted John Granzien in regards to pumping issues at Lowood. Terry decided to halt all gate operations until further notice in order to ensure security of water supply to Lowood.	Correspondence	JW
	12:45 AM	Wivenhoe directive #54 issued; halting all gate operations at Wivenhoe until further notice.	Directive	JW
	1:00 AM	Txt message sent to Peter Borrows to advise of ceasation of Wivenhoe gate operations until further notice.	Correspondence	JW
	2:00 AM	BCC advise that the recession at Coronation Drive is not an issue with regards to bank stability	Correspondence	JW
	5:00 AM	Doug Grigg called to advise that Fernvale Bridge was emerging from river. Current release 2054 cumecs.	Correspondence	JW
	5:40 AM	Doug Grigg called to advise that the aproach to the Fernvale Bridge from the Fernvale side was still underwater due to water backed up in the quarry.	Correspondence	JW
	5:45 AM	Called John Granzien to advise that Wivenhoe gate operations would recommence close down sequence from 9am as per original strategy. John to advise FOC if pumping operation at Lowood would benefit from additional 3 - 6 hours delay in gate operations.	Correspondence	JW

DATE	TIME	ACTION	CATEGORY	INITIALS
	6:15 AM	**Situation Report 06:15 18 January 2011** Rainfall There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week. Somerset/Wivenhoe At 16:00 Monday Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011. At 06:00 Tuesday Wivenhoe Dam was 67.82 mAHD and continuing to fall slowly. Releases were held constant overnight at about 2,050 m3/s to assist water supply pumping at Lowood. Following discussions with water supply operators, it has been decided to resume closing gates at 09:00 Tuesday before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow. Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.	Situation Report	KP
	7:25 AM	Doug Grigg (Wivenhoe) called to advise that Surveyor Bill Hewitt is taking a routine deformation survey	Correspondence	KP
	7:35 AM	Ken Morris (BCC) enquired about preliminary assessment of magnitude of flood. Ken suggested that SEQWater, BOM and BCC should arrive at a consensus regarding any assessment on the magnitude of the event. Rob Ayre agreed. Ken also enquired if we had done an asessment of the effects of the dam on peak flow. Rob indicated that our prelim figure was 13000 cumec peak at City Gauge without the Dams.	Correspondence	KP
	8:19 AM	Wivenhoe directive no.55 faxed and emailed to dam operators • Close Gate 4 from 4.5 metres to 4.0 metres at 09:00 on 18/01/2011 • Close Gate 2 from 4.5 metres to 4.0 metres at 09:30 on 18/01/2011 • Close Gate 5 from 3.5 metres to 3.0 metres at 10:00 on 18/01/2011 • Close Gate 1 from 3.5 metres to 3.0 metres at 10:30 on 18/01/2011 • Close Gate 3 from 5.0 metres to 4.5 metres at 11:00 on 18/01/2011 • Close Gate 4 from 4.0 metres to 3.5 metres at 11:30 on 18/01/2011 • Close Gate 2 from 4.0 metres to 3.5 metres at 12:00 on 18/01/2011	Directive	KP
	8:25 AM	Matthew O'Reilly (Wivenhoe) called to acknowledge Directive 55	Correspondence	KP
	10:10 AM	Rob Townsley (SEQWater at Mt Crosby Phone 0419667634) has requested some forward projections for flows at Mt Crosby Weir for the next 48 hours. They are looking at sludge dilution.	Correspondence	KP
	10:15 AM	Rob Ayre called Rob Townsley back to provide the following info re projected flows at Mt Crosby Weir: 18/1/2011 10:00 - 2300 cumecs 19/1/2011 10:00 - 1130 cumecs 20/1/2011 10:00 - 360 cumecs	Correspondence	KP
	10:19 AM	Mark Gibson from BCC Flood Information Centre called to advise that Campbell Newman wants an indication of what the flood would have been without dams and asked if the figure of 13000 cumecs provided to Ken Morris earlier could be released to the public.	Correspondence	KP
	10:24 AM	Rob Ayre spoke to Rob Drury to ask SEQWater's policy re release of information above. Rob Drury to confirm with his comms people.	Correspondence	KP
	10:30 AM	Paul Bird (SEQWater comms officer) called to advise that the minister's office has recommended that no info regarding releases from WD be released to anybody. Paul Bird will now communicate this response to the BCC Flood Info Centre and specifically Mark Gibson.	Correspondence	KP

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:38 AM	Tony Jacobs (Somerset RC) requested info re when Burtons Bridge is expected to be free from inundation. Under our current shutdown sequence, Rob Ayre advised that we expect Burtons to be free around midnight on Wed evening. Tony also advised that the bridge on New England Creek will become flood free at around the same time. Tony indicated that at at 8am today the approaches to Fernvale were clear of water. However, powerlines and silt need to be removed. He expects the bridge to be open this aftrnoon.	Correspondence	KP
	10:55 AM	Barton Maher (SEQWater) called to confirm that we received the hydraulic model from WRM. (affirmative)	Correspondence	KP
	12:05 PM	Peter Borrows (SEQWater) called to advise tat he and Bob Reilly (DERM) will come come and visit the FOC at 2:30 this afternoon.	Correspondence	KP
	12:06 PM	Wivenhoe directive no.56 faxed and emailed to dam operators • Close Gate 5 from 3.0 metres to 2.5 metres at 12:30 on 18/01/2011 • Close Gate 1 from 3.0 metres to 2.5 metres at 13:00 on 18/01/2011 • Close Gate 4 from 3.5 metres to 3.0 metres at 14:00 on 18/01/2011 • Close Gate 2 from 3.5 metres to 3.0 metres at 14:30 on 18/01/2011 • Close Gate 4 from 3.0 metres to 2.5 metres at 15:00 on 18/01/2011 • Close Gate 2 from 3.0 metres to 2.5 metres at 15:30 on 18/01/2011	Directive	KP
	12:26 PM	Rob Drury called to confirm programmed final shutdown. Rob Ayre advised scheduled for 9am Thursday 20/1 2011. Rob Drury to confirm with Rohan Thorogood re fish recovery.	Correspondence	KP
	1:22 PM	Confirmed with Mat O'Reilly that gate closure sequence was in accordance with directive as email received from WD re 13:00 closure was incorrect.	Correspondence	KP
	2:00 PM	John Tibaldi called for an update of the closedown sequence	Correspondence	KP
	2:15 AM	Rob Ayre called Greg Roads of WRM re hydraulic model of Brisbane River...login and password not working...Greg not available at present	Correspondence	KP
	2:30 PM	Peter Borrows (SEQWater) and Bob Reilly (DERM) visited FOC to check current situation and to pass on thanks for job performed so far. Also requested that we hold further gate operations until problems at Lowood Pump Station are resolved.	Other	KP
	2:55 PM	Rob Ayre called Mat O'Reilly to direct a hold in gate operations...to be confirmed by email	Directive	KP
	3:00 PM	Wivenhoe directive no.57 emailed to dam operators Please cease gate operations as at 15:00 on 18/01/2011 so as to accommodate the repairs at Lowood pump station. Current gate settings of :- Gate 1 – Open 2.5 metres Gate 2 – Open 3.0 metres Gate 3 – Open 4.5 metres Gate 4 – Open 3.0 metres Gate 5 – Open 2.5 metres to be maintained for up to 12 hours	Directive	KP
	4:05 PM	Rob Ayre called Mal Lane to alert him to the possibility of operating North Pine Dam with incoming storms.	Correspondence	KP
	4:30 PM	Rob Drury rang noting the current storms and requested that Rob Ayre call Tony Martini (Moreton RC) to advise of the possibility of operating North Pine Dam.	Correspondence	KP
	4:34 PM	Email from Peter Borrows containing Bob Reilly's approval to vary the flood release regime to enable a constant flow for the Lowood WTP offtake.	Correspondence	KP

DATE	TIME	ACTION	CATEGORY	INITIALS
	4:45 PM	Rob Ayre rang Tony Martini (Moreton RC) to advise of the possibility of operating North Pine Dam in the next day or so if predicted falls of up to 50mm occurred.	Correspondence	KP
	5:45 PM	**Situation Report 18:00 18 January 2011** Rainfall There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week. Somerset/Wivenhoe At 16:00 Monday Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011. At 06:00 Tuesday Wivenhoe Dam was 67.82 mAHD and continuing to fall slowly. Releases were held constant overnight at about 2,050 m3/s to assist water supply pumping at Lowood. Following discussions with water supply operators, it has been decided to resume closing gates at 09:00 Tuesday before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow. Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.	Situation Report	KP
	6:25 PM	Rob Drury called to discuss situation report for North Pine.	Correspondence	KP
	6:57 PM	JT phoned Tony Martini at MBRC. Message left regarding plans to open NPD gates this evening as the lake level is approaching trigger level with more rain / showers forecast.	Correspondence	NGA
	7:02 PM	JT phoned Malcolm Lane regarding mobilising for NPD gate opening this evening. Tentative plan is for commencement of gate opening at 20:30.	Correspondence	NGA
	7:05 PM	JT phoned the Duty Officer (Charlie) at MBRC regarding the planned imminent opening of the NPD gates. Target time is 20:30 if Council has the barriers in place closing Youngs Crossing Road and the dam is fully manned.	Correspondence	NGA
	7:05 PM	Neville Ablitt phoned Rob Drury to provide an update on the NPD mobilisation and proposed gate openings.	Correspondence	NGA
	7:07 PM	JT phoned Murray Dunstan to advise of planned gate opening of NPD this evening. Cessation of operations (i.e. gate closure) is expected to be arranged for tomorrow morning (19/1) in order for Youngs Crossing Road to be opened to peak hour traffic. JT advised MD to plan for an early morning fish recovery exercise at NPD.	Correspondence	NGA
	7:10 PM	Tony Martini from MBRC returned phone call to JT. JT repeated information already conveyed to MBRC Duty Officer - Charlie regarding requirement for Youngs Crossing Road to be closed to traffic to allow NPD gates to be operated by 20:30 if possible.	Correspondence	NGA
	7:15 PM	JT phoned Cynthia Crane (Seqwater) regarding JT's inability to access Citrix. Outage (?). Message left.	Correspondence	NGA
	7:15 PM	JT phoned Rob Drury regarding Citrix comms outage. Message left requesting RD to intervene to have the problem fixed.	Correspondence	NGA
	7:20 PM	Lief from IT (Seqwater) rang and 'reset' Citrix for JT.	Correspondence	NGA
	7:30 PM	JT phoned Malcolm Lane at NPD to confirm gate opening arrangements for 20:30 if Youngs Crossing Road has been closed to traffic by Council at that time.	Correspondence	NGA
	7:35 PM	North Pine Dam directive no.31 faxed to dam operators • Gate C: Open to 1 increment at 2030 - Tuesday 18/1/2011 • Gate E: Open to 1 increment at 2045 • Gate A: Open to 1 increment at 2100 • Gate D: Open to 1 increment at 2115 • Gate B: Open to 1 increment at 2130	Directive	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	7:40 PM	Rob Drury rang the FOC to enquire if the Citrix issue was sorted. Citrix connection now functioning. JT expressed concern about the current release strategy for Wivenhoe Dam. If the current release rate is maintained (set to accommodate Lowood temporary raw water pumps), the model indicates that the lake level could fall well below FSL (~ EL 65.00 ??).	Correspondence	NGA
	7:42 PM	JT phoned Jim Pruss (Seqwater) to seek advice on who could supply the most up-to-date status report on the current situation at Lowood regarding river levels and pumping activities to supply the WTP. JP suggested John Smith (?).	Correspondence	NGA
	7:45 PM	JT phoned Mick Drews (Seqwater) seeking info Re: Lowood. Mick referred JT to Daniel Roche.	Correspondence	NGA
	7:50 PM	JT phoned Daniel Roche. - reportedly on site at Lowood PS. No answer. Message left.	Correspondence	NGA
	7:52 PM	JT phoned John Smith - Lowood WTP operator to enquire as to current status regarding temporary pumping arrangements of raw water from the Brisbane River.	Correspondence	NGA
	7:55 PM	Agg Dagan (Somerset Dam operator) phoned the FOC from home seeking the Duty Engineer's intentions for operations at Somerset Dam overnight. JT requested a Gauge Board reading of the lake level and advised that an operations strategy for Somerset Dam would be addressed within 30 minutes - following satisfactory mobilisation of NPD.	Correspondence	NGA
	8:00 PM	Mark Millman (Seqwater - IT) phoned JT to check status of Citrix connection. Citrix connection is functioning.	Correspondence	NGA
	8:05 PM	Agg Dagan phoned from Somerset Dam. Current lake level is EL 98.95 Unchanged from lake level at 15:35 today.	Correspondence	NGA
	8:05 PM	JT phoned Graham Keegan at home. Jt requested GK to visit Lowood pumping intake site and report on status as unable to contact Daniel Roche.	Correspondence	NGA
	8:11 PM	JT phoned Agg Dagan (Somerset Dam operator). Agg to send fax in with lake level . Likely strategy will be to close off the regulator overnight and re-assess the situation in the morning.	Correspondence	NGA
	8:12 PM	JT conversed with Peter Pennell (Seqwater). PP advised that arrangements are in hand to move the temporary pumps at the Brisbane River site at Lowood. The pumps are being re-located downhill to maintain extraction of raw water from the river to supply the Lowood WTP.	Correspondence	NGA
	8:15 PM	Daniel Roche contacted JT. The temporary raw water pumps at Lowood are being moved closer to the river - chasing the anticipated lower level in the river due to reduced releases from Wivenhoe.	Correspondence	NGA
	8:18 PM	Rob Drury rang the FOC to seek an update on operations at all 3 storages.	Correspondence	NGA
	8:25 PM	JT confirmed on-site manning arrangements at Lowood with Graham Keegan.	Correspondence	NGA
	8:30 PM	Somerset Dam operator advised FOC by fax that Regulator #12 had been closed as per verbal advice from JT.	Information	NGA
	8:40 PM	Wivenhoe directive no.58 emailed to dam operators • Close Gate 4 from 3.0 metres to 2.5 metres at 20:45 on 18/01/2011 • Close Gate 2 from 3.0 metres to 2.5 metres at 21:15 on 18/01/2011	Directive	NGA
	8:35 PM	JT contacted Doug G. at Wivenhoe. Gate closing directive pending.	Correspondence	NGA
	8:55 PM	Malcolm Lane phoned the FOC. MBRC have only just closed off Youngs Crossing Road. By the time the siren is sounded, the gate openings in Directive 31 scheduled to commence at 20:30 will be delayed by 45 minutes.	Correspondence	NGA
	9:00 PM	Charlie, the Duty Officer at MBRC, rang JT to advise that Youngs Crossing Road was now closed. JT advised Charlie that it was intended to maintain releases from NPD through until 5:00am Wednesday 19/1. With this operating strategy, Young's Crossing Road should be able to be re-opened to traffic by 7:00am tomorrow.	Correspondence	NGA
	9:05 PM	Note: Wivenhoe Dam fax machine is still inoperative	Correspondence	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	9:08 PM	JT phoned Murray Dunstan to advise of planned gate opening of NPD this evening. Closure is	Correspondence	NGA
	9:15 PM	Rob Drury phoned JT to discuss the Wivenhoe release strategy and its potential to effect bank slumping at Coronation Drive. The changed situation at Lowood means that the reduction in Brisbane River levels will now be far more even. RD advised that Coronation Drive is no longer a concern.	Correspondence	NGA
	9:30 PM	Neville Ablitt phoned BCC and made contacted with Leanne from BCC's Flood Operations (Disaster Management) Centre. JT requested confirmation that Coronation Drive would not be adversely affected by way of bank slumping if releases from Wivenhoe were terminated on Wednesday afternoon. JT requested Leanne to investigate and call back the FOC.	Correspondence	NGA
	9:35 PM	Wivenhoe directive no.59 emailed to dam operators • Close Gate 5 from 2.5 metres to 2.0 metres at 22:00 on 18/01/2011 • Close Gate 1 from 2.5 metres to 2.0 metres at 22:30 on 18/01/2011	Directive	NGA
	9:38 PM	Neville Ablitt contacted Doug G. at Wivenhoe Dam by 2-way radio to confirm his receipt of e-mail containing Directive #59. Doug also confirmed that the Wivenhoe fax machine is still inoperative. All written comms to be by e-mail.	Correspondence	NGA
	9:50 PM	JT phoned Rob Drury. Wivenhoe release strategy discussed regarding Lowood WTP temporary offtake level, concerns about Coronation Drive bank slumping and lake level at cessation of releases if targetted for tomorrow afternoon.	Correspondence	NGA
	9:53 PM	Chris Thorley from BCC's Flood Operations (Disaster Management) Centre phoned JT. Wivenhoe release strategy and effect on Coronation Drive discussed. BCC have no concerns about imminent ceassation of Wivenhoe releases. JT explained that it was more likely that the tidal variation at Toowong would have a greater impact on the river banks than the Wivenhoe releases.	Correspondence	NGA
	10:00 PM	JT phoned Malcolm Lane at NPD to discuss release strategy. i.e. planned gate openings to setting #2 followed by closure sequence to be completed by early tomorrow morning (19/1).	Correspondence	NGA
	10:02 PM	RD phoned JT. Release strategy and final lake level at gate closure at Wivenhoe discussed.	Correspondence	NGA
	10:14 PM	Graham Keegan phoned JT. Situation at Lowood is under control. JT advised Graham that the releases at Wivenhoe are planned to cease by early afternoon tomorrow (19/1).	Correspondence	NGA
	10:15 PM	North Pine Dam directive no.32 faxed to dam operators • Gate C: Open to 2 increments at 2230 - Tuesday 18/1/2011 • Gate E: Open to 2 increments at 2245 • Gate A: Open to 2 increments at 2300 • Gate D: Open to 2 increments at 2315 • Gate B: Open to 2 increments at 2330	Directive	NGA
	10:40 PM	Wivenhoe directive no.60 emailed to dam operators • Close Gate 5 from 2.0 metres to 1.5 metres at 23:00 on 18/01/2011 • Close Gate 1 from 2.0 metres to 1.5 metres at 23:30 on 18/01/2011 • Close Gate 3 from 4.5 metres to 4.0 metres at 00:00 on 19/01/2011 • Close Gate 4 from 2.5 metres to 2.0 metres at 00:30 on 19/01/2011 • Close Gate 2 from 2.5 metres to 2.0 metres at 01:00 on 19/01/2011 • Close Gate 5 from 1.5 metres to 1.0 metres at 01:30 on 19/01/2011 • Close Gate 1 from 1.5 metres to 1.0 metres at 02:00 on 19/01/2011 • Close Gate 4 from 2.0 metres to 1.5 metres at 02:30 on 19/01/2011 • Close Gate 2 from 2.0 metres to 1.5 metres at 03:00 on 19/01/2011 • Close Gate 5 from 1.0 metres to 0.5 metres at 03:30 on 19/01/2011 • Close Gate 1 from 1.0 metres to 0.5 metres at 04:00 on 19/01/2011 • Close Gate 4 from 1.5 metres to 1.0 metres at 04:30 on 19/01/2011 • Close Gate 2 from 1.5 metres to 1.0 metres at 05:00 on 19/01/2011	Directive	NGA

DATE	TIME	ACTION	CATEGORY	INITIALS
	11:45 PM	North Pine Dam directive no.33 faxed to dam operators • Gate B: Close to 1 increment at 0245 - Wednesday 19/1/2011 • Gate D: Close to 1 increment at 0300 • Gate A: Close to 1 increment at 0315 • Gate E: Close to 1 increment at 0330 • Gate C: Close to 1 increment at 0345 • Gate B: Fully Close at 0400 • Gate D: Fully Close at 0415 • Gate A: Fully Close at 0430 • Gate E: Fully Close at 0445 • Gate C: Fully Close at 0500	Directive	NGA
Wednesday 19/01/2011	3:30 AM	JT phoned the Mount Crosby WTP to obtain an update on the status of the Mount Crosby Weir Bridge. It is currently clear of water and came out of inundation approx 14:00 yesterday (18/1). The bridge has reportedly suffered some damage. Details unknown.	Correspondence	NGA
	4:38 AM	JT advised Doug G. at Wivenhoe Dam that the strategy for further gate closures after 0500 was dependant on the outcome of a discussion with Peter Borrows anticipated within the hour. Doug advised that the Fernvale Bridge was clear of floodwater but that it had powerlines down on /around it.	Correspondence	NGA
	5:05 AM	Doug G. from Wivenhoe Dam phoned the FOC to report that some erosion has occurred in the vicinity of the plunge pool downstream of the flip bucket. This has become evident now that the gate releases have been reduced. Some large boulders (~ 10t) are evident piled up against the bench D/S of the flip bucket. JT will need to inspect the damage ASAP.	Correspondence	NGA
	5:10 AM	JT phoned Peter Borrows to obtain a Govt. view on how long to maintain releases and to where the lake level should be held following closure of all gates. Timing of the gate closure might be dependant on the erosion issue.	Correspondence	NGA
	5:15 AM	JT phoned TM to arrange for TM to relieve JT ASAP in the FOC as he is required to inspect the reported damage at Wivenhoe Dam.	Correspondence	NGA
	5:20 AM	JT phoned Barton Maher (Seqwater) to arrange a joint inspection of the erosion damage at Wivenhoe Dam as reported by Doug G. the dam operator.	Correspondence	NGA
	5:25 AM	Rob Drury phoned JT to obtain an update. JT advised RD that damage has been reported to the area D/S of the flip bucket at Wivenhoe. An inspection ASAP is warranted.	Correspondence	NGA
	5:25 AM	Wivenhoe directive no.61 emailed to dam operators • Close Gate 5 from 0.5 metres to fully closed at 5:30 on 19/01/2011 • Close Gate 1 from 0.5 metres to fully closed at 6:00 on 19/01/2011 • Close Gate 4 from 1.0 metres to 0.5 metres at 6:30 on 19/01/2011 • Close Gate 2 from 1.0 metres to 0.5 metres at 7:00 on 19/01/2011	Directive	NGA
	5:30 AM	JT phoned Peter Allan (Dam Regulator) to advise that damage had been reported at Wivenhoe Dam by the operator. Initial information indicates that large boulders are piled up in the plunge pool D/S of the flip bucket. The source of these boulders is unknown as releases are still continuing from the gates. JT has arranged to inspect the site with Barton Maher in a few hours and an invitation was extended to PA as an interested party to attend the inspection. JT will provide updates as they come to hand.	Correspondence	NGA
	5:35 AM	Doug G. phoned JT on his mobile phone with an update report.	Correspondence	NGA
	8:08 AM	JT phoned TM. Things seem to be O.K. but we will continue to close all gates by this afternoon.	Correspondence	KH
	8:20 AM	TM phoned Flood Warning Centre advising that flood operation for current event will be shut down around lunch time.	Correspondence	KH
	9:23 AM	JT phoned TM asking whether we should run a regulator.	Correspondence	KH
	9:51 AM	TM phoned JT regarding modelling results.	Correspondence	KH

DATE	TIME	ACTION	CATEGORY	INITIALS
	10:00 AM	TM phoned JT regarding modelling results. TM want to advise Doug G to stop at Gate 3 at 1 metre, but they agree to close as planned and maintain operational release instead of flood release.	Correspondence	KH
	10:15 AM	JT has discussed the event closure with Peter Allen. It was agreed that the flood will be considered closed with the closure of the gates at 1200. At that time, control of the dam will revert to Seqwater. As the low flow channel to the regulator is blocked, the centre gate will be opened to 1 metre to manage on going inflows with the aim of getting to 95% (EL 66.5).	Correspondence	TM
	10:43 AM	Received QPF - 15mm-25mm generally, heavier falls to about 50mm in Brisbane and North Pine catchments.	Other	KH
	11:14 AM	JR phoned TM - Still operational until tonight.	Correspondence	KH
	11:28 AM	Rob Townsley (SEQWater at Mt Crosby 34374112) phoned FOC requesting for peak flow at Mt Crosby Weir during the latest event.	Correspondence	KH
	11:36 AM	TM phoned JT confirming that JR and LvB will be on tonight.	Correspondence	KH
	11:45 AM	TM phoned Rob Townsley advising that peak flow over Mt Crosby Weir was about 9150 cumecs.	Correspondence	KH
	11:51 AM	TM phoned (left message with) MBRC regarding potential for closing operation tonight.	Correspondence	KH
	11:52 AM	TM phoned (left message with) Murray Dunstan to call him back.	Correspondence	KH
	11:59 AM	JT phoned TM stating that divers will investigate erosion d/s Wivenhoe Dam today.	Correspondence	KH
	1:25 PM	Rob Townsley phoned TM discussing about the information which TM sent.	Correspondence	KH
	1:39 PM	Matthew O'Reilly phoned TM advising Wivenhoe Dam EL is 66.89 m AHD.	Correspondence	KH
	3:21 PM	Kerry (MBRC) phoned wanting AJ Wyllie Bridge to be closed at 9:00 PM rather than 7:00 PM, and stating that she will update 24 hour call centre number. She will send email to confirm all this.	Correspondence	KH
	4:00 PM	Received QPF - 15mm-25mm generally, heavier falls to about 50mm in Brisbane and North Pine catchments.	Other	KH
	7:30 PM	Toni Martini from MBRC called to say that the alternate route @ Petri is open (sooner than the 9 PM forecast)	Correspondence	LVB
	9:10 PM	Called Murray Dunstan to inform him that NPD will be mobilised.	Correspondence	LVB
	9:10 PM	Called Brett Schultz NPD to mobilise. The WL is approaching trigger level for gate opening.	Correspondence	LVB
	9:20 PM	Called MBRC call centre to inform them that NPD will be operated. They called back and advised that they can close Young's crossing by 11 PM. They will confirm once road is closed.	Correspondence	LVB
	9:38 PM	Brett Schultz called to confirm they are ready The gauge reading was 39.54 @ 9:30PM	Correspondence	LVB
Thursday 20/01/2011	12:15 AM	Send Directive 34 to NPD to start opening gates	Directive	LVB
	2:00 AM	Send Directive 35 to NPD to start opening gates	Directive	LVB
	2:15 AM	Tony Martini from MBRC called regarding release at NPD. He was advised that the gates will be open open for a while yet	Correspondence	LVB
	6:50 AM	Maria from MBRC called to find out when the gates on NPD will be shut. They were advised that the gates will only be closed in time for the afternoon peak.	Correspondence	LVB
	7:20 AM	Rob Ayre called Tony Jacaobs at SRC to advise of flow in Lockyer Creek. Tony concerned about Burtons Bridge but RA indicated that we will endeavour to keep flows below 400 m3/s.	Correspondence	RA
	7:25 AM	RA called Tony Trace at Ipswich CC and advised of renewed flows in Lockyer Creek and Middle Brisbane R.	Correspondence	RA
	7:40 AM	RA called Chris Lavin at BCC and advised of increased flows in Lockyer Creek and Middel Brisbane. Advised that Savages Crossing and/will be Colleges Crossing are inundated. Estimated travel time 30 to 36 hours.	Correspondence	RA
	7:55 AM	RA called NOD and spoke to Doug. Discussed proposed strategy to drain until around 2:00 PM with current gate settings. Requested hourly readings so as to monitor model performance.	Correspondence	RA
	8:00 AM	Mal Lane from NPD called to discuss proposed operations. RA indicated that we will continue as is until 10:00am QPF comes in and then decide from there as to strategy.	Correspondence	RA
	8:40 AM	Rob Drury called enquiring about the timeliness of the notice we gave to MBRC. Rob advised him accordingly.	Correspondence	KH

DATE	TIME	ACTION	CATEGORY	INITIALS
	8:45 AM	John West called (re Lowood pump station) enquiring time to peak (height and discharge). FOC response was about 9 hours with height of about 3.7 m corresponding to 300 cumecs.	Correspondence	KH
	8:50 AM	John West called (re Lowood pump station) enquiring current height and discharge. Together we estimated that it was about 150 cumecs (50 from Lockyer Creek and 100 from Wivenhoe Dam) corresponding to about 2.4 m.	Correspondence	KH
	9:45 AM	Rob Drury advised Wivenhoe will not be drained to 66.5 m AHD, but will be maintained at or just below FSL.	Correspondence	KH
	10:21 AM	Received QPF - 15mm-25mm generally, heavier falls to about 50mm in Brisbane and North Pine catchments.	Other	KH
	10:30 AM	Rob Drury called enquiring whether closing all releases in Wivenhoe Dam will cause level to exceed gate trigger in the next three day. RA advised that with rain on the ground he expects it not to, however forecast as per QPF is 15-25 mm, so we may need to review that decision tomorrow.	Correspondence	KH
	11:12 AM	Tony Martini (MBRC) called. RA advised all gates will be closed at 2:00 PM.	Correspondence	KH
	11:14 AM	RA phoned Murray Dunstan. They decided to close NPD by 2pm to allow MBRC to open Young's Crossing for afternoon peak.	Correspondence	KH
	11:15 AM	John West called enquiring peak height and discharge at Lowood with Wiv Dam gates closed. We decided to just minus 100 cumecs from previous estimation. He also wants FOC to email him the Lowood rating curve.	Correspondence	KH
	11:33 AM	RA called Mal (re Directive 36)	Correspondence	KH
	11:36 AM	RA called TM. TM will monitor situation overnight and RA will become Duty Eng again tomorrow.	Correspondence	KH
	11:44 AM	Paul Bird (SEQWater) called to confirm whether we have closed all gates at Wivenhoe Dam. KH said yes.	Correspondence	KH
	1:07 PM	Rob Drury called confirming NPD closure.	Correspondence	KH
	1:35 PM	Peter Parnell (SEQWater) callled about Lowood pump motor sitting on the platform and wanting to know what flow will come down from Lockyer. Rob said about 300 cumecs.	Correspondence	KH
	1:37 PM	TM called. Lou will be on tonight (KH should ring him this afternoon). Mt Crosby Weir gauge is broken so Water Treatment boys will give manual readings via BoM website. City gauge is currently reading 0.3 m high.	Correspondence	KH
	2:10 PM	RA advised MBRC that North Pine Dam gate operations had ceased at 14:00 and that Youngs Crossing should be clear of water within the next hour to an hour and half.	Correspondence	RA
	2:15 PM	RA called Mal Lane and indicated that Terry Malone will be on call tonight monitoring the situation. Mal Lane advised that the tree branch snagged on Gate C had swung around and was now resting on pier - therefore okay. Hwoever a 75mm branch was caught in the ropes of Gate B and may need to be removed before another operation. Murray Dunsatn has organised for the Rangers to examine tomorrow.	Correspondence	RA
	2:40 PM	Agg Dagan called from Somerset dam and enquired as to proposed operational release strategy. RA advised that no releases planned for now until Wivenhoe spillway issues are resolved.	Correspondence	RA
	3:20 PM	RA called MBRC Call Centre to provide heads up on possible gate operations tonight. Indicated that with 25mm over catchment we will commence gate operations at 21:00.	Correspondence	RA

DATE	TIME	ACTION	CATEGORY	INITIALS

"JMC-4"

Protocol for the Communication of Flooding Information for the Brisbane River Catchment - including Floodwater Releases from Wivenhoe and Somerset Dams

OBJECTIVE

The purpose of this protocol is to outline the arrangements 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 impacts for the Brisbane River catchment, including 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 resilient communities.

BACKGROUND

Queensland's 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.

Existing 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.

Factors such as storm surges, tides, creek flooding, flooding from the lower Brisbane River, including Lockyer Creek and the Bremer River, will influence inundation levels in Brisbane.

Wivenhoe Dam controls approximately half of the Brisbane River catchment above Brisbane City. 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.

This protocol also covers the possibility that, during an above-average wet season, the water supply level of the dams may be marginally reduced, on a temporary basis, by small water releases. The water supply level would be returned to normal prior to the conclusion of the wet season, to avoid affecting water supply security. These changes, if they proceed, will ultimately be incorporated into the Flood Mitigation Manual.

GENERAL DECISION MAKING - GUIDING PRINCIPLES

- Protection of public safety is paramount throughout both this Protocol and the Flood Mitigation Manual;

- Impact on the community upstream or downstream is a legitimate consideration of any risk assessment;
- Regular and consistent communications within government and to the public, in relation to flooding impacts, are essential;
- Decision-making chains regarding the communications strategy and disaster management should remain flexible;
- The Flood Mitigation Manual is used to determine how Wivenhoe and Somerset Dams will be operated during flood events.
- This Protocol does not infringe the right of any party to issue information in line with their responsibilities.

PROCESS OF COMMUNICATION

There are three stages in the process of communication:

- Monitoring and Assessment
- Briefing and Activation
- Public Communications

Monitoring and Assessment

Communications with the public on flooding information, including floodwater releases, are based on a continuous process of monitoring and 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.

- Councils monitor creek levels, local runoff and flash flooding, consult with BoM and Seqwater on other potential events upstream that may contribute to and aggravate the situation.

- Seqwater discusses and models implications of the inflows on the necessary floodwater release from Wivenhoe Dam and/or Somerset Dam. 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.

- Seqwater calculates the releases according to dam levels and predicted weather events in accordance with the Flood Mitigation Manual. 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.

- Seqwater shares predicted floodwater releases with BoM and with the Councils.

- Councils share information on the status of the Brisbane River catchment and its

river systems with BoM and Seqwater.

- 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 technical agreement on the flood situation, on which public communications should be based.

- Councils undertake modelling, form predictions, identify flood inundation areas and assess impacts for their communities, and regularly share this information with all relevant parties.

During this continuous process, it may become apparent to either BoM, local governments or Seqwater that the situation is likely to result in public safety issues.

These public safety issues may arise from a decision to release floodwater, a significant change in the severity and scope of the event, or a pre-agreed trigger-point being reached.

Any of the agencies may initiate the public communications process and engage with the disaster management arrangements as appropriate.

The initiating agency will instigate a technical staff teleconference. Decisions from the teleconference will be distributed to senior management and media representatives of each agency.

In these circumstances all agencies agree that technical advice will form the basis of public communications messages.

- In the case of floodwater release it considers significant, Seqwater coordinates the completion of the Technical Situation Report - TSR (Appendix C) and provides the Report to the SEQ Water Grid Manager (according to their Emergency Response Plan), and to relevant local governments.

- In other circumstances where a formal technical statement would enhance clarity, the initiating local or state agency may coordinate the completion of a TSR. If initiated, the TSR should be circulated to all parties.

Briefing and Activation

Consideration will be given to the activation of the disaster management arrangements, if not already activated.

1. Councils will consider activating their Local Disaster Management Groups (LDMGs);

2. LDMGs will inform the relevant District Disaster Coordinators (DDCs);

3. The Queensland Police Service (QPS) will consider initiating disaster management actions as provided for under the *Disaster Management Act 2003*;

4. In the case of floodwater release, the SEQ Water Grid Manager will alert the Director-General (DG) of the Department of Community Safety (DCS), DG

Department of Environment and Resource Management (DERM), and the local governments;

5. 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;

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 DPC, may be activated at the direction of the SDMG Chair to coordinate public messaging from 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 existing arrangements, supported where appropriate by this protocol.

Public Communications Issues

Each agency has its own responsibilities to issue information commensurate with their role without prior approvals. The obligation under this protocol is to share that information with other agencies and operate in a fully consultative process to ensure consistent public information.

The BoM, Local Governments and relevant State Government agencies are to maintain continual discussions, to ensure that conflicting information is not released to the public at any time. Genuine efforts should be made to ensure consistency by basing public communications on technical reports. Inter-agency consultation should not cause delays in the issuance of public warnings. All agencies must exchange public communications at time of release. No power of veto is implied under this protocol.

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;

- **Local Governments /Local Disaster Management Groups** - concentrating on the effects of weather related events and safety for their local communities and residents. Local governments have primacy of public communications within their community. Pre-agreed community service announcements from local governments will be shared with the relevant agencies prior to public release;

- **SEQ Water Grid Manager** - if significant floodwater releases from Wivenhoe and Somerset dams are involved, the SEQ Water Grid Manager concentrates on the communication aspects of release timings and duration of effects as the State's lead communication 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), the SEQ Water Grid Communications Unit and relevant local governments.

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, guided by the frequency of technical reports and may range from once a day to once an hour.

In the case of floodwater release considered significant, SEQ Water Grid Communications Unit will centrally track all communications and ensure they are shared. The unit will liaise with the following or their representatives over pubic safety messages:

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

Questions from the Public

All questions from the public should be directed to the relevant local government in the first instance. Questions expressly relating to the event should be directed to the hazard-specific primary agency. Any questions relating to the release of water should be directed to the SEQ Water Grid Communications Unit. Any queries about disaster management should be addressed by the relevant local and district disaster management groups.

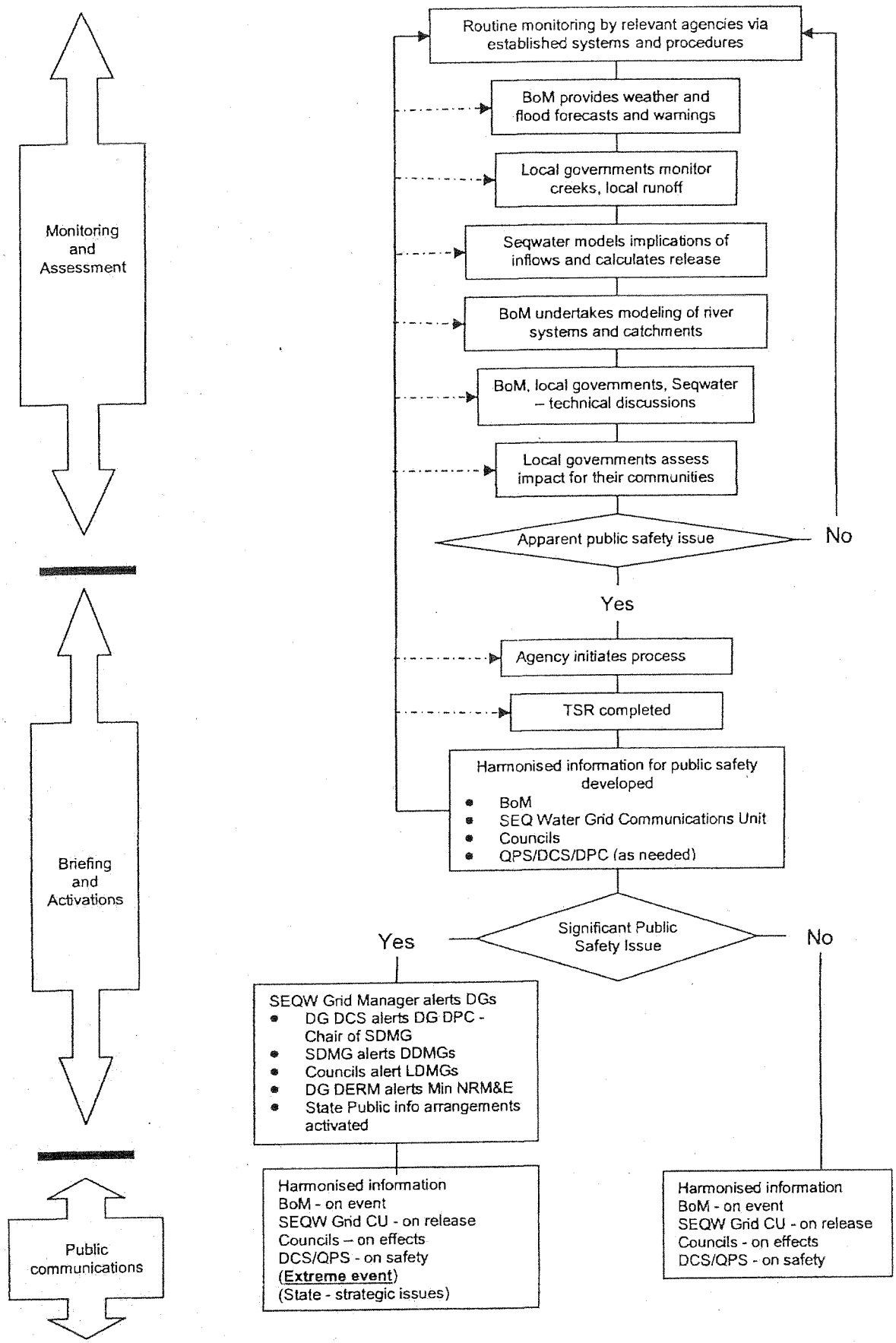
Protocol Maintenance

This protocol will be reviewed annually by agencies involved and exercised, during non-operational season, 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.

Appendix A

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



Appendix B

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

  Seqwater initiates proposed reviews or updates to the Flood Mitigation Manual, undertaking consultation with Councils and other stakeholders. Seqwater coordinates the production of the TSRs relating to floodwater releases from the Wivenhoe and Somerset dams.

- 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.

- Department of Environment and Resource Management (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 tracks the general harmonisation, but not specific detail of public messaging relating to floodwater releases, with BoM, SEQ Water Grid, Councils 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.

Appendix C

TECHNICAL SITUATION REPORT

TSR Number		Date of TSR release		Time of TSR release	

This report is as at the time of assessment, and may quickly become out of date, depending on the 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.

In floodwater releases Seqwater will 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 within the specified timeframe, it is assumed it is not being provided.

TRIGGERS	
These illustrative triggers provide guidance to initiation of this report	
BoM	
Seqwater	
Local Government	

BCC.009.6768

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 Seqwater's 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 (e.g. 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 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)

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

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

ICC Technical Officer name	
ICC Technical Officer position title	
ICC Technical Officer contact details	

Somerset Regional Council (SRC) assessment (if required)

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

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

SRC Technical Officer name	
SRC Technical Officer position title	
SRC Technical Officer contact details	

Collated and distributed by (Agency)

Contact Officer signature	
Contact Officer name	
Contact Officer position title	

Next TSR due	**Date**		**Time**		**or Event**	

RE: Wivenhoe Release

From: "Ayre, Rob" [redacted]
To: James Charalambous [redacted]
Date: Fri, 08 Oct 2010 15:35:28 +1000

James

No plans to operate Wivenhoe yet. Level is just above FSL(67.00) so need to get to gate trigger level of 67.25 mAHD.

Some releases are being made out of the mini-hydro at the moment (1200 ML/day).

Will let you know when we plan to oparete but will require some more rain at this stage.

Regards

Rob Ayre

From: James Charalambous [mailto:[redacted]
Sent: Friday, 8 October 2010 8:43 AM
To: Ayre, Rob
Subject: Wivenhoe Release

Hi Rob,

My flood management team are keen to go out and witness the spillway in action at Wivenhoe, when do you think the dam will start releasing?

Regards
JamesC.

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Re: Wivenhoe Release

From: "Ayre, Rob" [redacted]
To: [redacted]
Date: Sat, 09 Oct 2010 12:12:22 +1000

James
With overnight rain looks like wivenhoe may commence operating this evening
Regards
Rob ayre

From: James Charalambous
To: Ayre, Rob
Sent: Fri Oct 08 08:42:36 2010
Subject: Wivenhoe Release
Hi Rob,

My flood management team are keen to go out and witness the spillway in action at Wivenhoe, when do you think the dam will start releasing?

Regards
JamesC.

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Wivenhoe WL

From: James Charalambous [redacted]
To: [redacted]
Date: Mon, 11 Oct 2010 09:32:13 +1000

Hi Rob,

Just checking our telemetry, we have the current Wivenhoe Dam Level at 79.33m, and spillway level at 67.00m. Just wondering if there is a gauge zero correction for the Wivenhoe Dam Level?

Regards
JamesC.

Re: Wivenhoe WL

From: "Ayre, Rob" [redacted]
To: [redacted]
Date: Mon, 11 Oct 2010 09:42:07 +1000

Current lake level at wivenhoe dam at 9:30 is 67.55 mahd
Rob

From: James Charalambous
To: Ayre, Rob
Sent: Mon Oct 11 09:32:13 2010
Subject: Wivenhoe WL
Hi Rob,

Just checking our telemetry, we have the current Wivenhoe Dam Level at 79.33m, and spillway level at 67.00m. Just wondering if there is a gauge zero correction for the Wivenhoe Dam Level?

Regards
JamesC.

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Wivenhoe Release

From: James Charalambous [redacted]
To: [redacted]
Date: Mon, 11 Oct 2010 15:08:11 +1000

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.

Re: Wivenhoe Release

From: "Ayre, Rob" [redacted]
To: [redacted]
Date: Mon, 11 Oct 2010 21:36:04 +1000

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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RE: Wivenhoe Release

From: "Ayre, Rob" [redacted]
To: James Charalambous [redacted]
Date: Tue, 12 Oct 2010 11:13:15 +1000

James

We have arrived at our strategy for release from Wivenhoe Dam. We will commence increasing the flows from Wivenhoe Dam at 12:00 today (currently releasing 280 cumecs). By 02:00 Wednesday we will have a release of 1,000 cumecs. This release combined with local and tributary flows will maintain a flow of about 1,500 cumecs in the middle and lower Brisbane River. Releases will be increased gradually as the local and tributary contributions fall to maintain this flow untill Saturaday.

The BoM are forecasting rainfall on Friday/Saturday so the strategy will be reviewed prior to this rainfall. The BoM will issue flood warnings for the Brisbane River as the levels will be above minor.

Regards

Rob Ayre

From: James Charalambous [redacted]
Sent: Monday, 11 October 2010 3:08 PM
To: Ayre, Rob
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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Wivenhoe Releases

From: James Charalambous [redacted]
To: [redacted]
Date: Wed, 13 Oct 2010 14:26:51 +1000

Hi Rob,

Just need know the latest on the releases (ie status).

Regards
JamesC.

Re: Wivenhoe Releases

From: "Ayre, Rob" [redacted]
To: [redacted]
Date: Wed, 13 Oct 2010 14:39:12 +1000

James
Wivenhoe dam has just peaked at EL69.61 m. We are ramping up the release and at 3.00 pm it will be approximately 1250 cumecs. John Ruffini is the current duty engineer.
Regards
Rob Ayre

From: James Charalambous
To: Ayre, Rob
Sent: Wed Oct 13 14:26:51 2010
Subject: Wivenhoe Releases
Hi Rob,

Just need know the latest on the releases (ie status).

Regards
JamesC.

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Discharge/City Gauge Relationship Data

From: James Charalambous [redacted]
To: [redacted]
Cc: "Morris, Ken" [redacted] "Scroope, Greg" [redacted]
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.

RE: Discharge/City Gauge Relationship Data

From: Terry Malone [redacted]
To: [redacted]
Date: Fri, 15 Oct 2010 08:33:12 +1000

James

Please ring to discuss

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]

From: John Tibaldi
Sent: Friday, 15 October 2010 8:22 AM
To: Terry Malone
Subject: Fw: Discharge/City Gauge Relationship Data

From: James Charalambous < >
To: John Tibaldi
Cc: Morris, Ken [redacted]; Scroope, Greg [redacted]
Sent: Fri Oct 15 08:05:15 2010
Subject: Discharge/City Gauge Relationship Data

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.

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Friday Morning 22/10 - Technical Capability Meeting

From: [redacted]
To:
Cc:
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: [redacted]
To:
Cc:
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:

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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.

RE: Friday Morning 22/10 - Technical Capability Meeting

From: Terry Malone [redacted]
To: James Charalambous [redacted]
Date: Tue, 19 Oct 2010 11:11:20 +1000

James

Just to confirm that Rob Drury, John Tibaldi and myself will be attending Friday's meeting.

I shall put together a presentation outlining our roles, responsibilities, technical capabilities and future directions.

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]

From: James Charalambous [redacted]
Sent: Tuesday, 19 October 2010 9:52 AM
To: Baddiley, Peter; [redacted] John Tibaldi; Terry Malone
Cc: Carroll, Don; Caswell, Evan; Morris, Ken
Subject: Friday Morning 22/10 - Technical Capability Meeting

Hi

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

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Thank-you.

Regards
JamesC.

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Re: Friday Morning 22/10 - Technical Capability Meeting

From: Terry Malone [redacted]
To: [redacted]
Date: Tue, 19 Oct 2010 17:25:57 +1000

James
Do you have the Emergency Action Plans for all the dams and the Flood Operations Manual for Somerset/Wivenhoe that we issued to BCC.
Terry

From: James Charalambous [redacted]
To: Baddiley, Peter [redacted] ; John Tibaldi; Terry Malone
Cc: Carroll, Don [redacted] Caswell, Evan [redacted] ; Morris, Ken [redacted]
Sent: Tue Oct 19 09:51:41 2010
Subject: Friday Morning 22/10 - Technical Capability Meeting

Hi

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

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Thank-you.

Regards
JamesC.

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Friday Morning 22/10 - Technical Capability Meeting

From: [redacted]
To:
Cc:
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.

RE: Friday Morning 22/10 - Technical Capability Meeting

From: James Charalambous [redacted]
To: "Tibaldi, John" [redacted]
Cc: "Drury, Rob" [redacted]
Date: Wed, 20 Oct 2010 15:45:26 +1000

Hi John,

Yes thats fine. I believe Terry also indicated he was attending.

Regards
JamesC.

>>> "John Tibaldi" <jtibaldi@seqwater.com.au> 20/10/2010 3:40:35 pm >>>

James

Thanks. Rob Drury from Seqwater would also like to attend if that is OK. He has been attending the State Government "Protocol Development" meetings all week so may be able to provide an update.

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

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

From: James Charalambous [redacted]
Sent: Wednesday, 20 October 2010 3:36 PM
To: Baddiley, Peter; J.Perkins@bom.gov.au; John Tibaldi; Terry Malone
Cc: Carroll, Don; Caswell, Evan; Morris, Ken; Scroope, Greg
Subject: Friday Morning 22/10 - Technical Capability Meeting

Hi

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

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Proposed detailed meeting agenda as follows:

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9:30 to 10:00am: Technical capability presentation by BOM
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10:30am to 10:45am: Morning Tea

Session 2
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12:00am to 12:30pm: Lunch

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Thank-you.

Regards
JamesC.

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Friday Morning 29/10 - Technical Capability Meeting

From: [redacted]
To:
Cc:
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 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?

SEQ Water - Gold Folder Request

From: [redacted]
To:
Cc:

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: [redacted]
To:
Cc:
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 [mailto[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

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.

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RE: Friday Morning 29/10 - Technical Capability Meeting

From: [redacted]
To:
Cc:
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

		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
[redacted]

From: James Charalambous [mailto[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: Brisbane River Model - Calibration Spreadsheet - 1974 Event

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

James

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

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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

From: James Charalambous [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 comparsion
*Discharge rating comparison (only available at Jindalee)

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SEQ Water Link:

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

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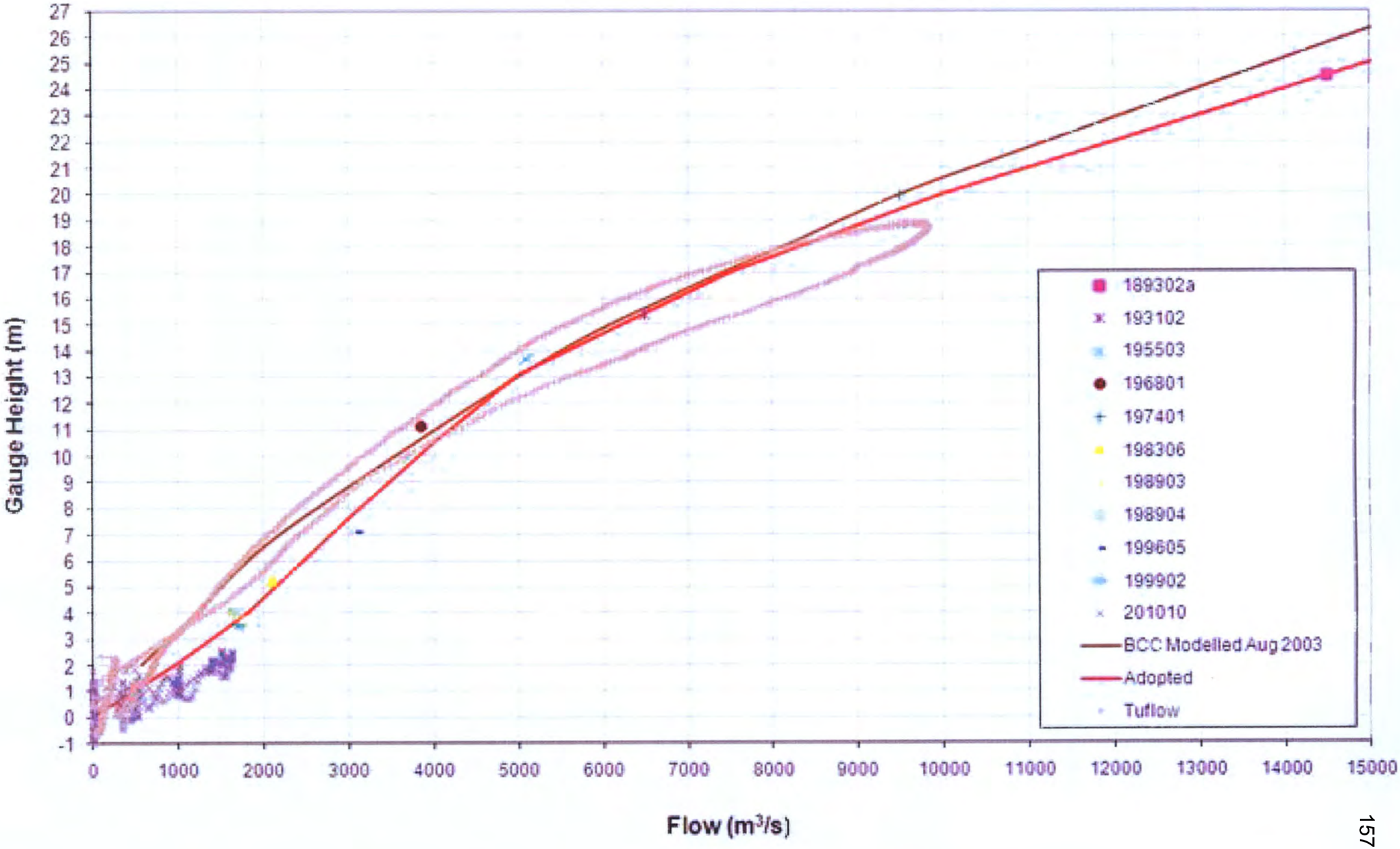
Moggill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Flow (m³/s)
189302a
193102
195503
196801
197401
198306
198903
198904
199605
199902
201010
BCC Modelled Aug 2003
Adopted
Tuflow

Brisbane River Model - Calibration Spreadsheet - 1974 Event

From: [redacted]
To:
Cc:

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 comparsion
*Discharge rating comparison (only available at Jindalee)

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Thank-you.

Kind Regards
JamesC.

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

From: [redacted]
To:
Cc:
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
Phone: [redacted]
EMAIL: [redacted]
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

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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]

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

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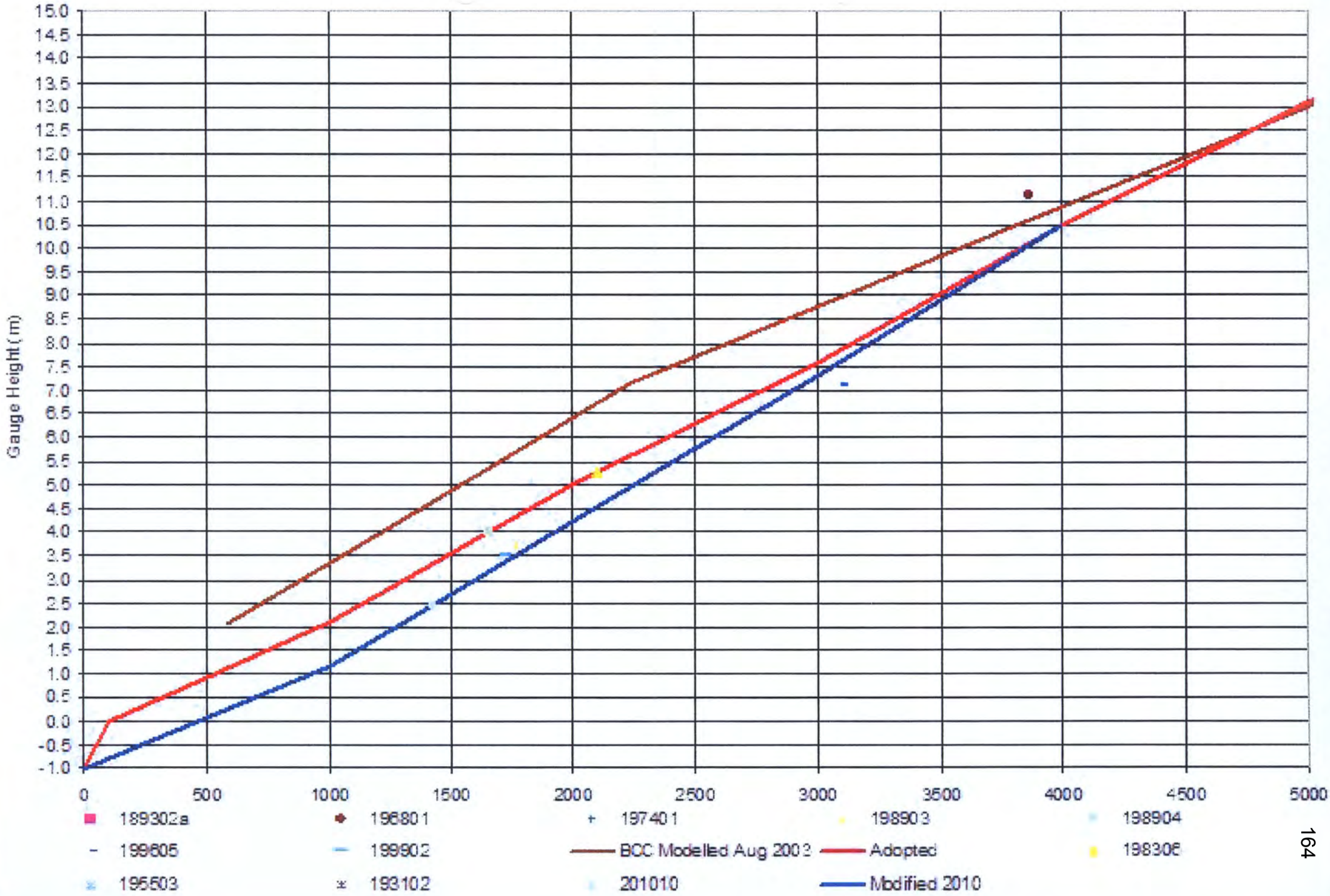
Moggill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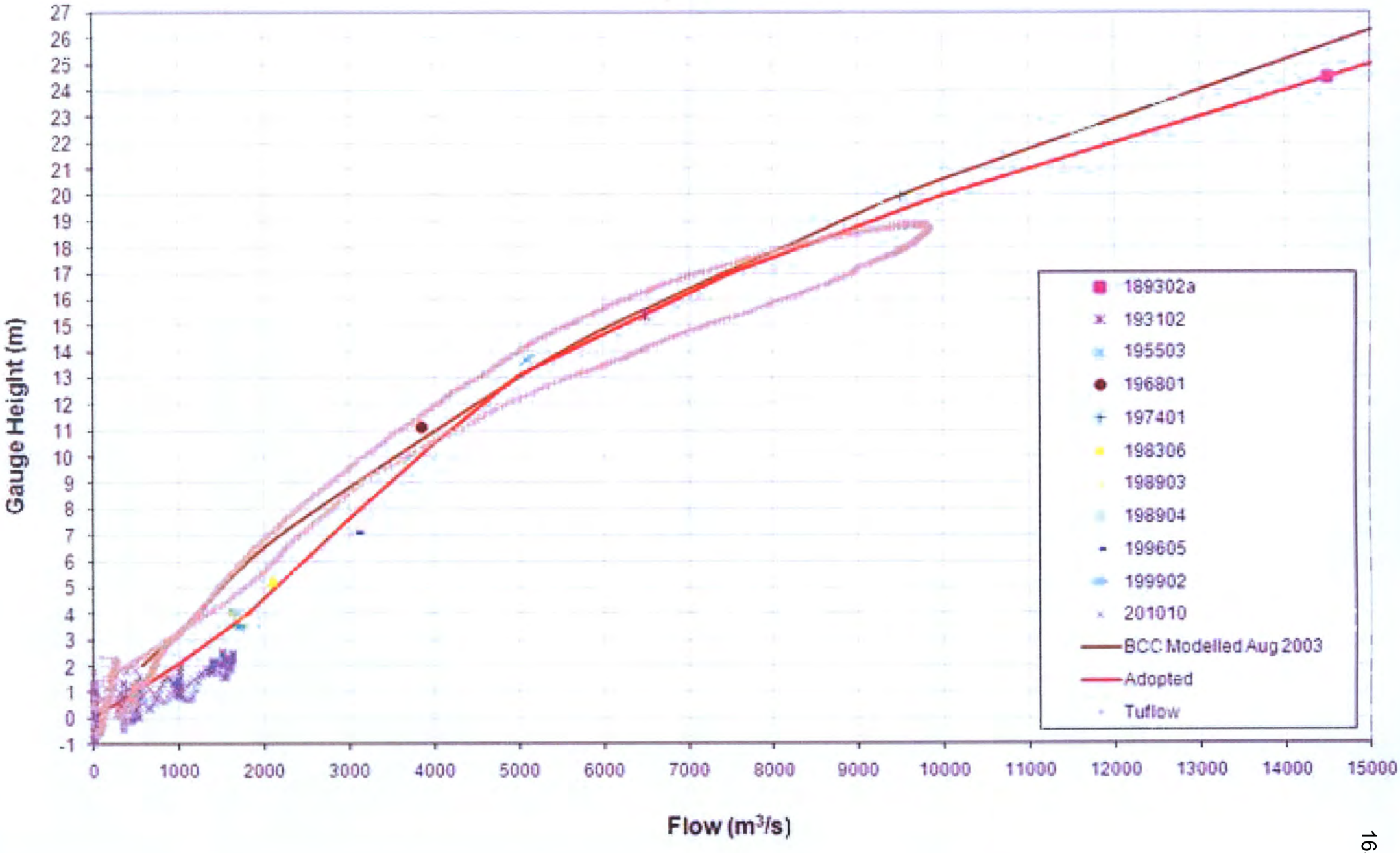
Moggill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Adopted
Tuflow

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

From: [redacted]
To:
Cc:

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
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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:
WWW :

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

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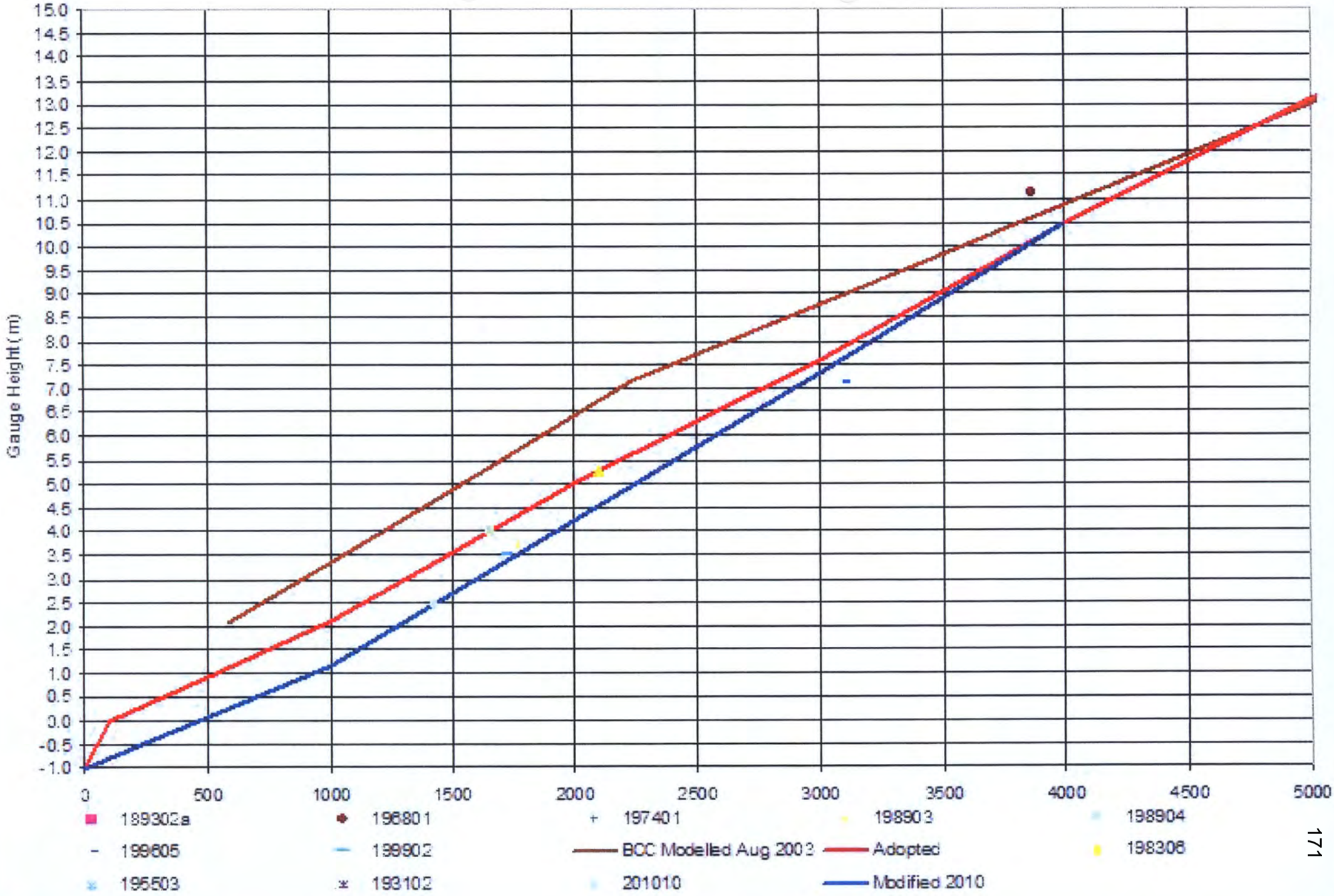
Moggill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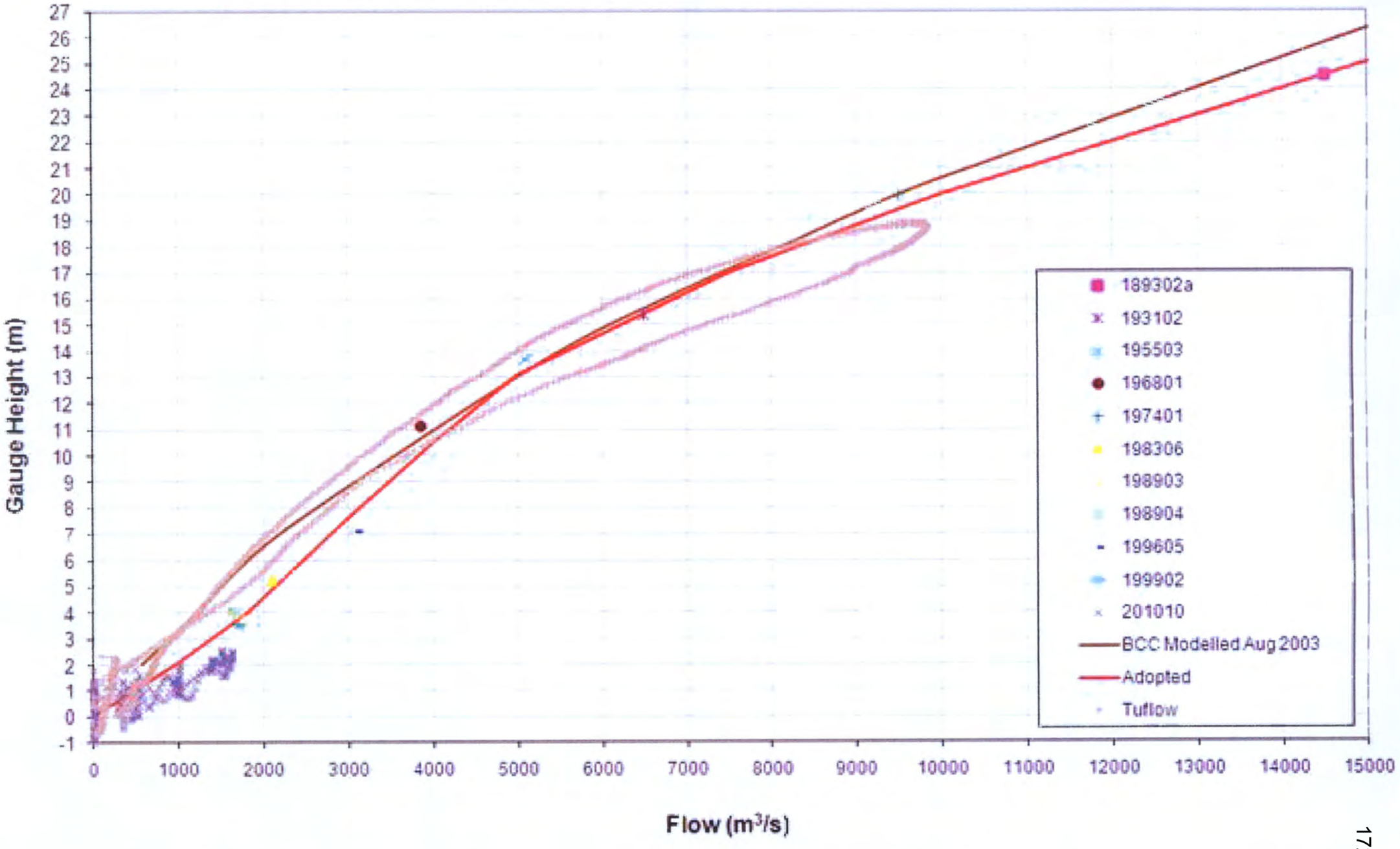
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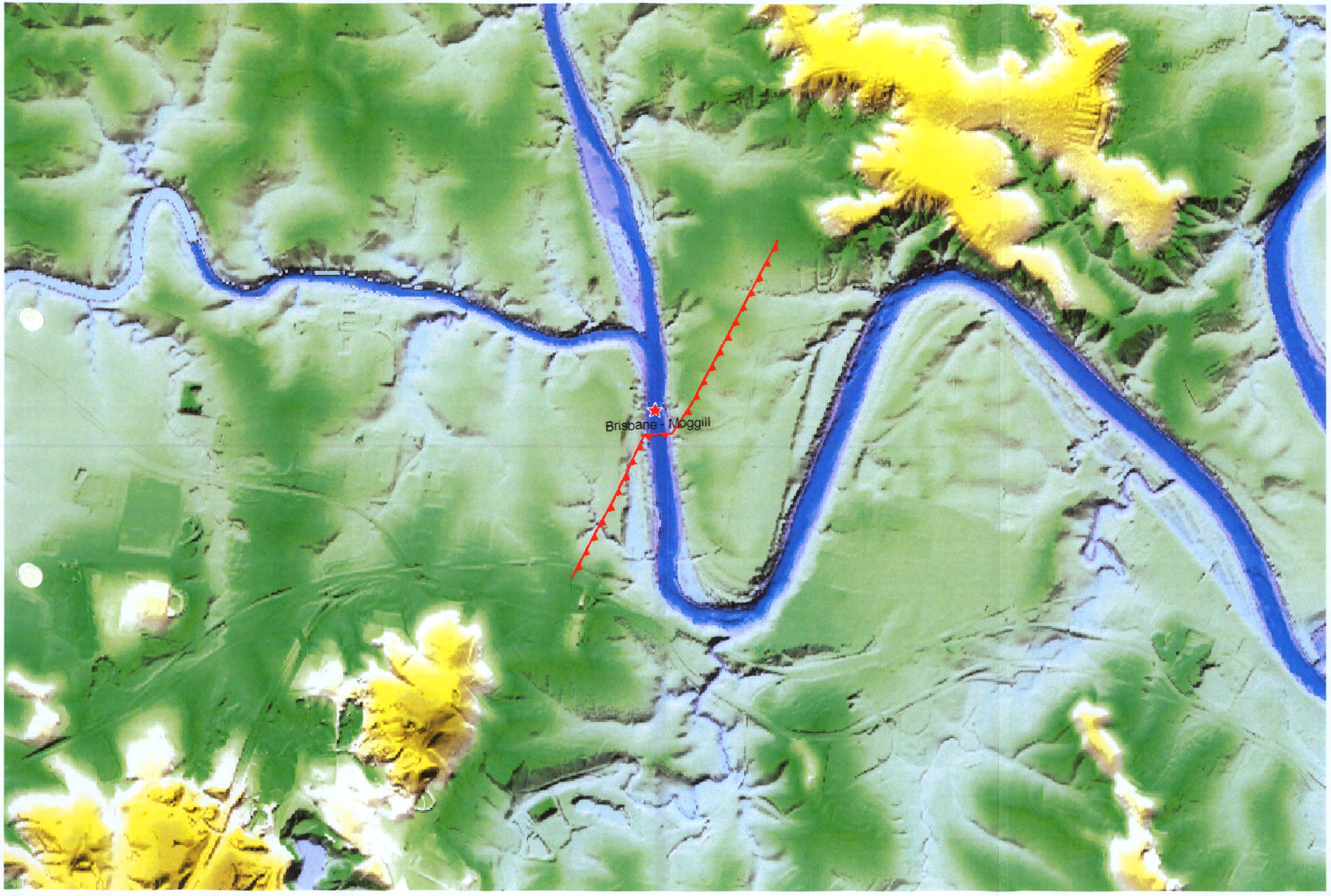
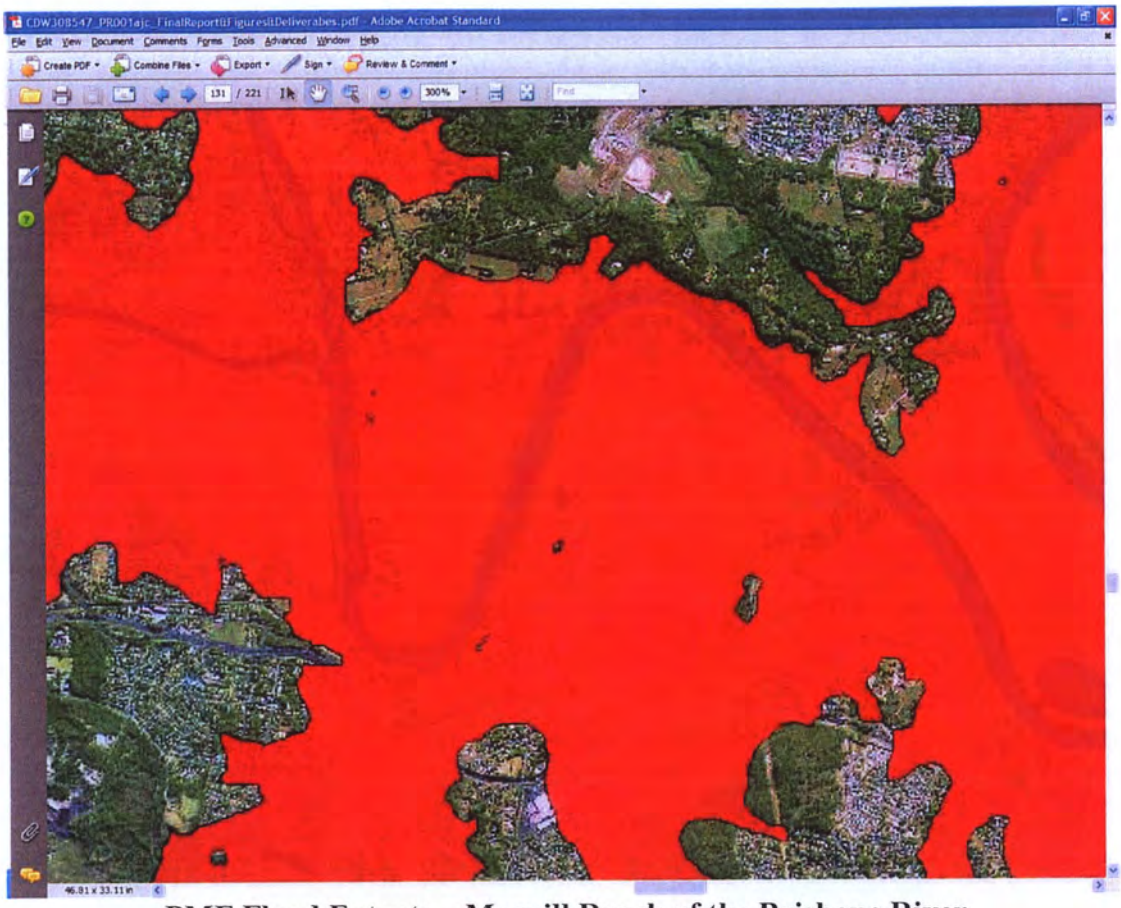

Brisbane - Moggill



PMF Flood Extents – Moggill Reach of the Brisbane River

Sample#	Line Distar	Brisbane_[	Brisbane_[	Brisbane_[	Brisbane_DEM_10m_010409.grd-Value
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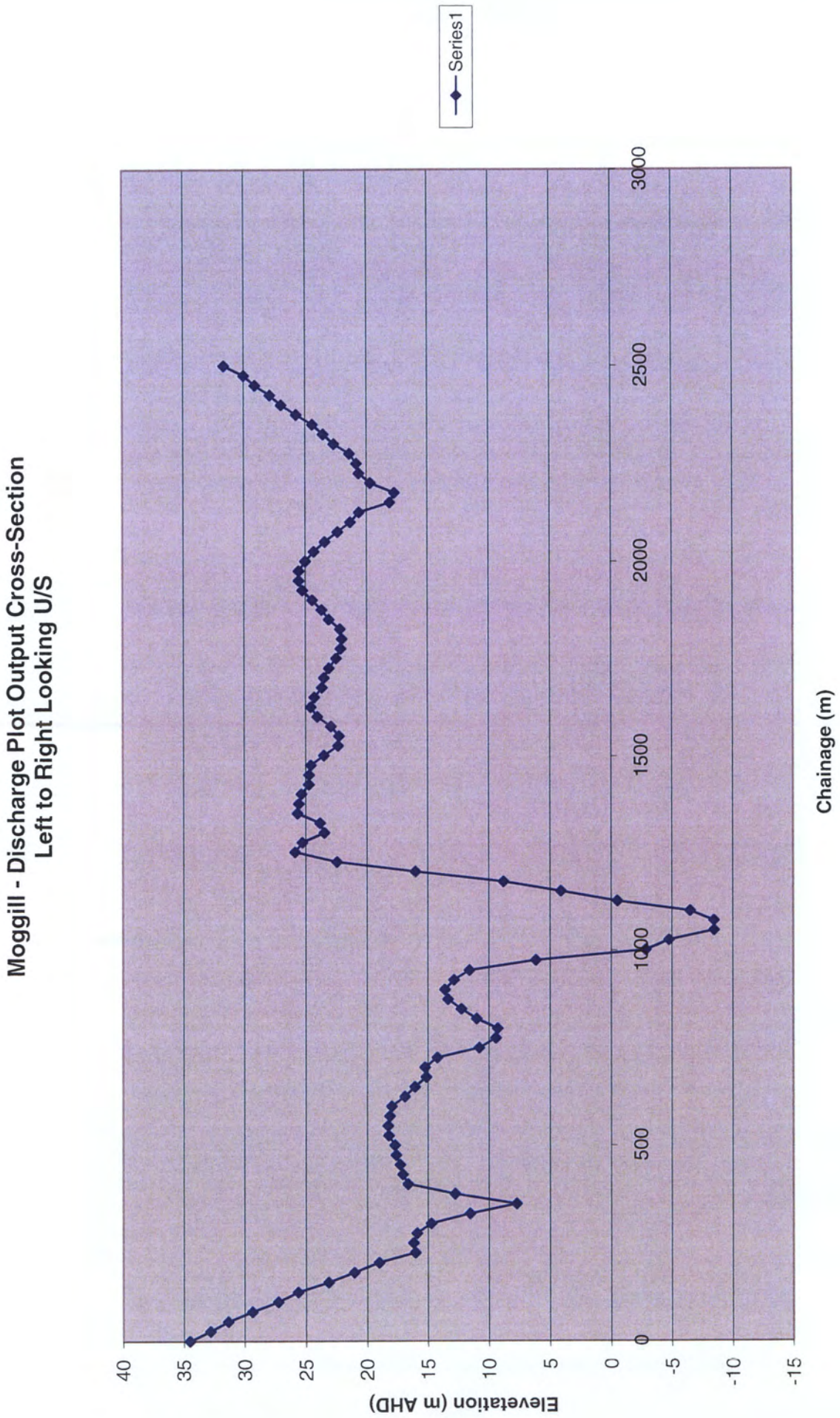
1	24.7212	485256.6	6947611	24.9081	24.9668	32.7877
2	49.4423	485268.3	6947633	49.8163	49.9165	31.3477
3	74.1635	485280	6947655	74.7244	74.9034	29.3662
4	98.8846	485291.6	6947677	99.6326	99.9003	27.2617
5	123.6058	485303.3	6947699	124.5407	124.8614	25.6371
6	148.3269	485315	6947721	149.4489	149.8932	23.151
7	173.0481	485326.7	6947743	174.357	174.8901	21.0465
8	197.7692	485338.4	6947765	199.2651	199.8819	19.0034
9	222.4904	485350	6947787	224.1733	224.9675	16.025
10	247.2115	485361.7	6947809	249.0814	249.8761	16.1727
11	271.9327	485373.4	6947831	273.9896	274.7859	15.8897
12	296.6538	485385.1	6947853	298.8977	299.7209	14.7328
13	321.375	485396.8	6947875	323.8058	324.8337	11.5329
14	346.0961	485408.4	6947897	348.714	350.0323	7.7176
15	370.8173	485420.1	6947919	373.6221	375.4465	12.7636
16	395.5384	485431.8	6947941	398.5303	400.6507	16.6158
17	420.2596	485443.5	6947963	423.4384	425.5628	17.0589
18	444.9807	485455.2	6947985	448.3466	450.4718	17.2681
19	469.7019	485466.8	6948007	473.2547	475.3822	17.6004
20	494.4231	485478.5	6948029	498.1629	500.2906	17.6989
21	519.1442	485490	6948051	523.071	525.204	18.2158
22	543.8654	485500.6	6948074	547.9791	550.1122	18.265
23	568.5865	485511.2	6948096	572.8873	575.0208	18.1296
24	593.3077	485521.8	6948119	597.7954	599.9294	17.9696
25	618.0288	485532.3	6948141	622.7036	624.8616	16.8743
26	642.75	485542.9	6948164	647.6117	649.783	16.062
27	667.4711	485553.5	6948186	672.5198	674.7087	15.1266
28	692.1923	485564.1	6948209	697.428	699.617	15.2251
29	716.9134	485574.7	6948231	722.3361	724.5456	14.2159
30	741.6346	485585.3	6948254	747.2443	749.6893	10.7821
31	766.3557	485595.8	6948277	772.1524	774.6349	9.416
32	791.0769	485606.4	6948299	797.0605	799.5435	9.2683
33	815.798	485617	6948322	821.9687	824.5111	10.9913
34	840.5192	485627.6	6948344	846.8768	849.4509	12.2467
35	865.2403	485638.2	6948367	871.785	874.3831	13.342
36	889.9615	485648.8	6948389	896.6931	899.2925	13.6005
37	914.6826	485659.3	6948412	921.6013	924.212	12.8497
38	939.4038	485669.9	6948434	946.5095	949.1524	11.5821
39	964.1249	485680.5	6948457	971.4176	974.645	6.1545
40	988.8461	485705.1	6948459	996.3257	1001.132	-2.8545
41	1013.567	485730	6948460	1021.234	1026.113	-4.7621
42	1038.288	485754.9	6948461	1046.142	1051.295	-8.4666
43	1063.01	485779.8	6948462	1071.05	1076.204	-8.4543
44	1087.731	485804.6	6948463	1095.958	1101.189	-6.4975
45	1112.452	485829.5	6948464	1120.867	1126.805	-0.5161
46	1137.173	485854.4	6948466	1145.775	1152.137	4.0992
47	1161.894	485868.7	6948485	1170.683	1177.48	8.776
48	1186.615	485881.8	6948506	1195.591	1203.415	16.0004
49	1211.337	485895	6948527	1220.499	1229.138	22.4249
50	1236.058	485908.1	6948548	1245.407	1254.282	25.8586
51	1260.779	485921.3	6948569	1270.315	1279.198	25.2556
52	1285.5	485934.4	6948591	1295.223	1304.17	23.4587
53	1310.221	485947.6	6948612	1320.132	1329.081	23.8156
54	1334.942	485960.8	6948633	1345.04	1354.057	25.6494

55	1359.663	485972.6	6948655	1369.948	1378.965	25.5387
56	1384.385	485984.1	6948677	1394.856	1403.874	25.3294
57	1409.106	485995.6	6948699	1419.764	1428.789	24.7264
58	1433.827	486007.2	6948721	1444.672	1453.698	24.7018
59	1458.548	486018.7	6948743	1469.58	1478.606	24.5664
60	1483.269	486030.2	6948765	1494.489	1503.537	23.4956
61	1507.99	486041.7	6948787	1519.397	1528.473	22.3264
62	1532.712	486053.3	6948809	1544.305	1553.381	22.2526
63	1557.433	486064.8	6948831	1569.213	1578.298	22.9172
64	1582.154	486076.3	6948854	1594.121	1603.231	24.0248
65	1606.875	486087.8	6948876	1619.029	1628.145	24.5541
66	1631.596	486099.3	6948898	1643.937	1653.054	24.2587
67	1656.317	486110.8	6948920	1668.846	1677.97	23.6433
68	1681.038	486122.4	6948942	1693.754	1702.879	23.4833
69	1705.76	486133.9	6948964	1718.662	1727.79	23.0772
70	1730.481	486145.4	6948986	1743.57	1752.705	22.4864
71	1755.202	486156.9	6949008	1768.478	1777.616	22.1172
72	1779.923	486168.5	6949030	1793.386	1802.525	22.0187
73	1804.644	486180	6949052	1818.294	1827.433	22.1664
74	1829.365	486191.5	6949074	1843.203	1852.358	23.0772
75	1854.086	486203	6949096	1868.111	1877.273	23.6556
76	1878.808	486214.6	6949119	1893.019	1902.193	24.431
77	1903.529	486226.1	6949141	1917.927	1927.114	25.231
78	1928.25	486237.6	6949163	1942.835	1952.024	25.514
79	1952.971	486249.1	6949185	1967.743	1976.932	25.514
80	1977.692	486260.6	6949207	1992.652	2001.846	24.9848
81	2002.413	486272.2	6949229	2017.56	2026.763	24.2956
82	2027.135	486283.7	6949251	2042.468	2051.687	23.4095
83	2051.856	486295.2	6949273	2067.376	2076.618	22.351
84	2076.577	486306.7	6949295	2092.284	2101.547	21.3172
85	2101.298	486318.3	6949317	2117.192	2126.466	20.5911
86	2126.019	486329.8	6949339	2142.1	2151.501	18.0804
87	2150.74	486341.3	6949361	2167.009	2176.412	17.6989
88	2175.461	486352.8	6949384	2191.917	2201.398	19.6803
89	2200.183	486364.3	6949406	2216.825	2226.324	20.6157
90	2224.904	486375.9	6949428	2241.733	2251.233	20.8126
91	2249.625	486387.4	6949450	2266.641	2276.148	21.3788
92	2274.346	486398.9	6949472	2291.549	2301.088	22.6587
93	2299.067	486410.4	6949494	2316.457	2326.012	23.5202
94	2323.788	486422	6949516	2341.366	2350.936	24.4064
95	2348.51	486433.5	6949538	2366.274	2375.878	25.7233
96	2373.231	486445	6949560	2391.182	2400.817	26.954
97	2397.952	486456.5	6949582	2416.09	2425.742	27.8647
98	2422.673	486468	6949604	2440.998	2450.679	29.0832
99	2447.394	486479.6	6949626	2465.906	2475.604	29.9939
100	2472.115	486491.1	6949649	2490.814	2500.565	31.6185


Moggill - Discharge Plot Output Cross-Section
Left to Right Looking U/S
Series1
Elevetation (m AHD)
40
35
30
25
20
15
10
5
0
-5
-10
-15
0
500
1000
1500
2000
2500
3000
Chainage (m)

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

From: Peter Baddiley [redacted]
To: James Charalambous [redacted]
Date: Wed, 27 Oct 2010 13:01:26 +1000

James/Terry
Attached are plots of the ratings in the BOM URBS model for key Brisbane River locations.

Clearly the ratings depend on assumptions taken in the modelling.

Is this what you wanted?

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

From: James Charalambous [mailto[redacted]
Sent: Monday, 25 October 2010 10:12 AM
To: Peter Baddiley;[redacted]
Cc: Caswell, Evan; James Stuart; Morris, Ken; Tibaldi, John
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 comparsion
*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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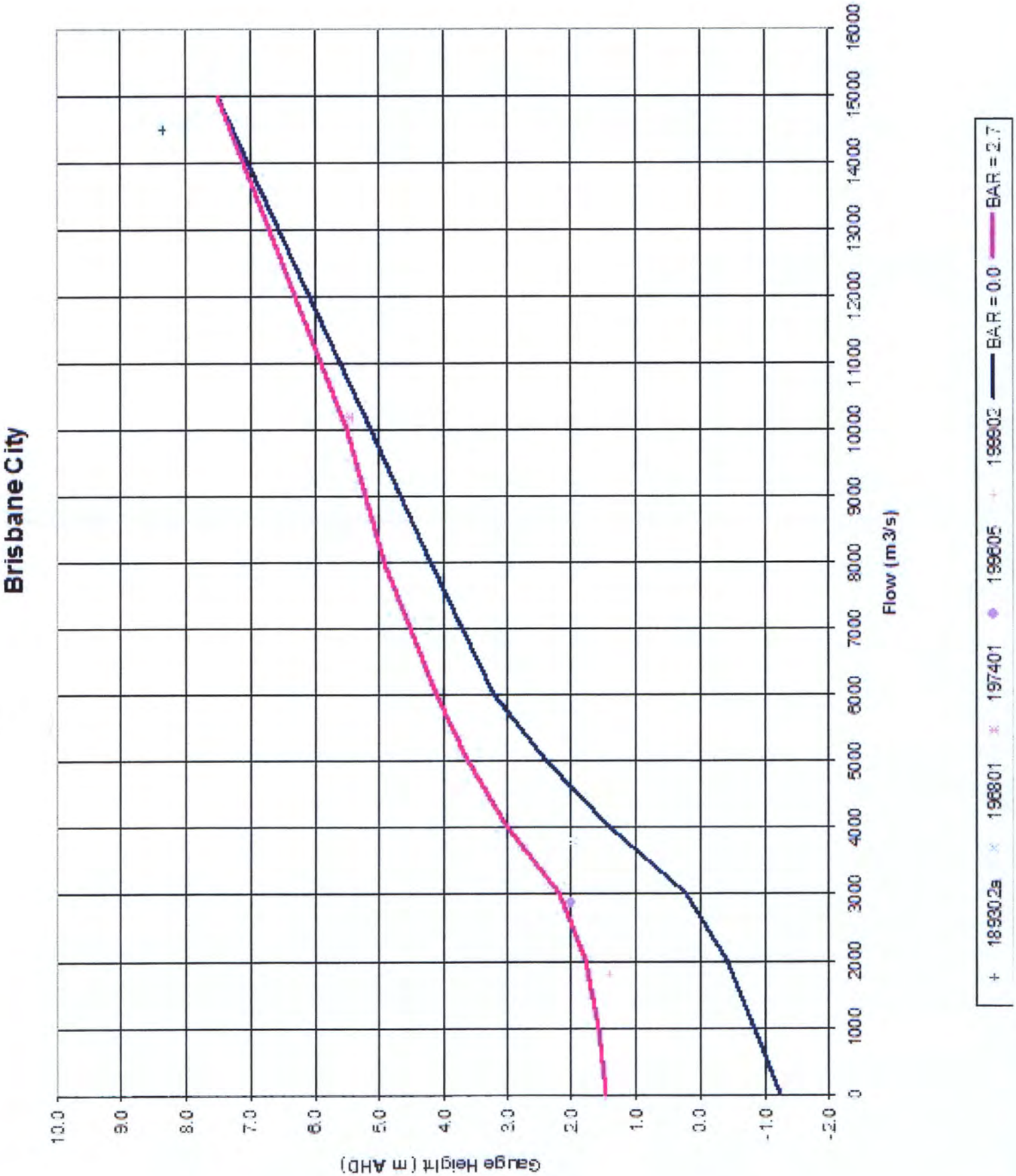
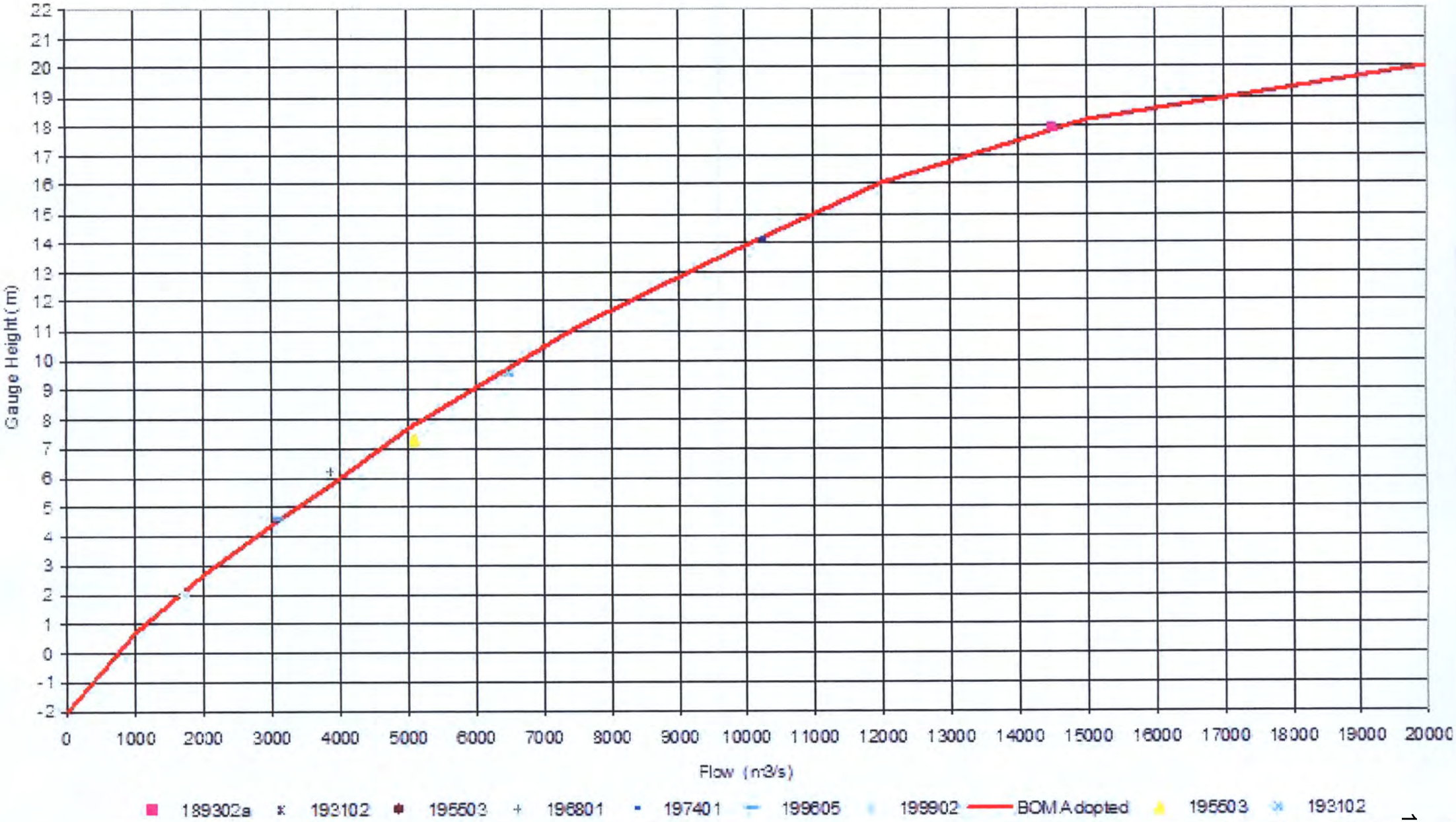
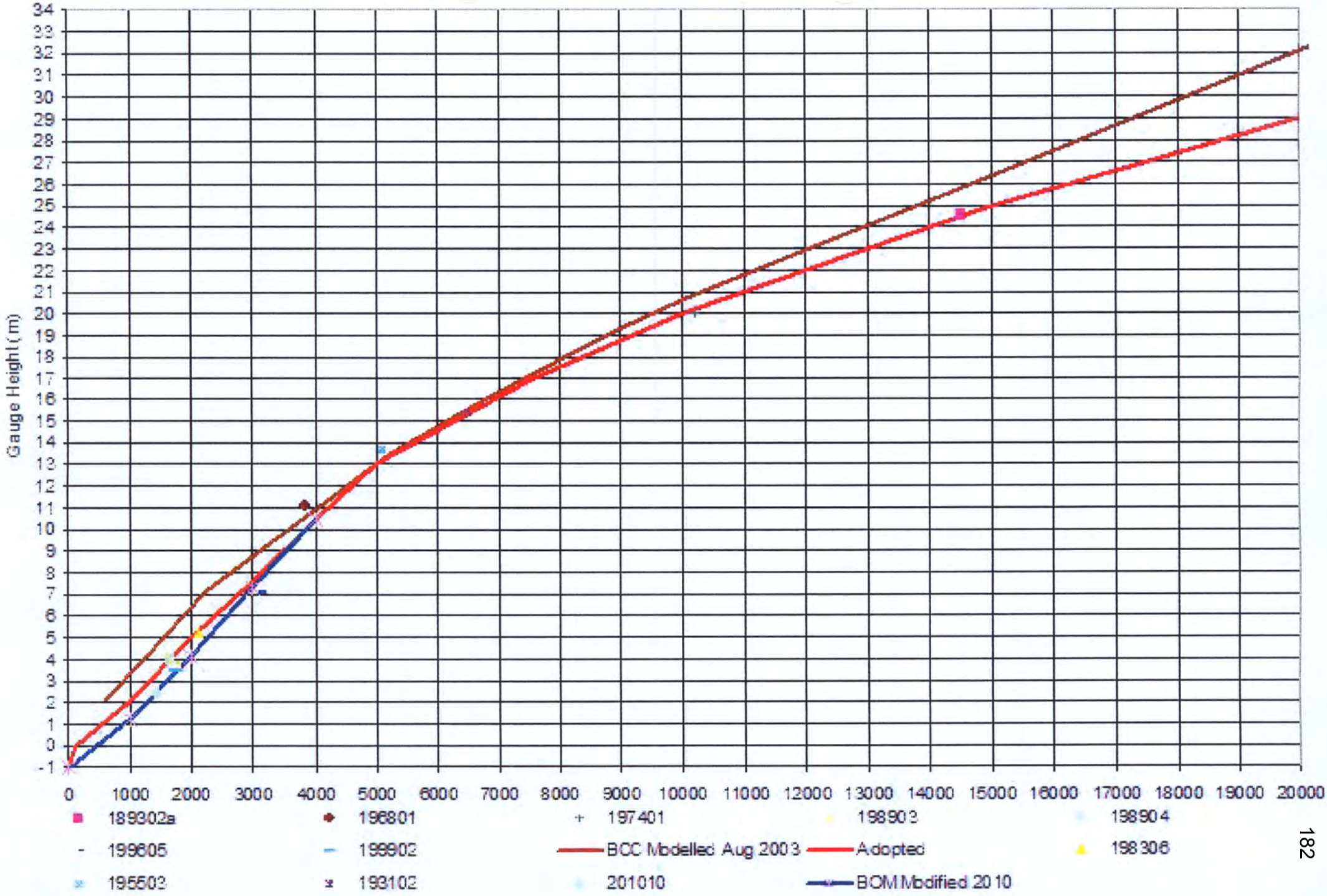
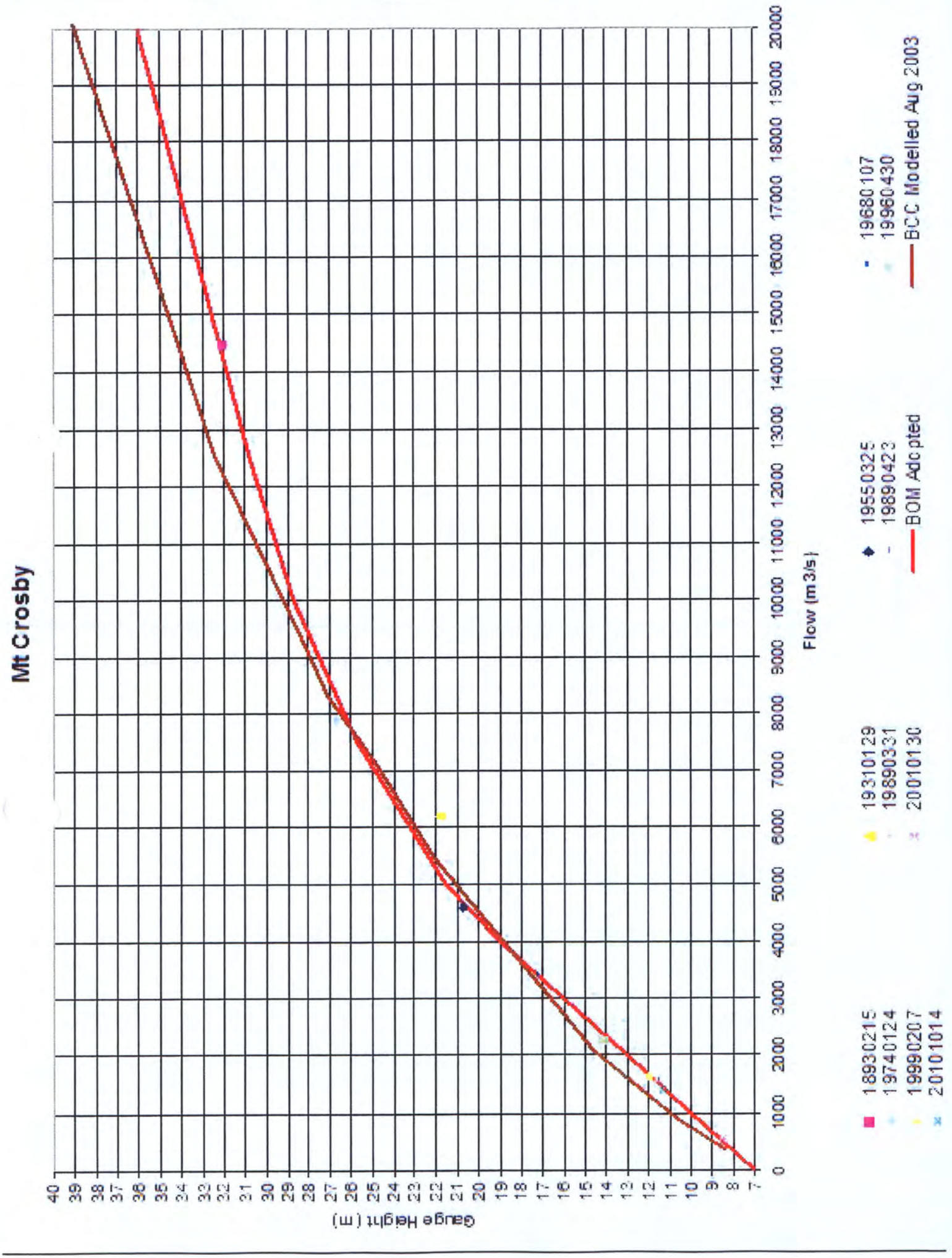

Brisbane City
Gauge Height (m AHD)
Flow (m3/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
16000
189302a
196801
197401
199605
199902
BAR = 0.0
BAR = 2.7

Jindalee Br


Gauge Height (m)
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
16000
17000
18000
19000
20000
Flow (m3/s)
189302a
192102
195503
196801
197401
199605
199902
BOM Adopted
195503
192102

Moggill


Gauge Height (m)
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
16000
17000
18000
19000
20000
189302a
196801
197401
198903
198904
199605
199902
BCC Modelled Aug 2003
Adopted
198306
195503
193102
201010
BOM Modified 2010


Mt Crosby
Gauge Height (m)
Flow (m3/s)
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
16000
17000
18000
19000
20000
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
18930215
19740124
19990207
20101014
19310129
19890331
20010130
19550325
19890423
BOM Adopted
19680107
19960430
BCC Modelled Aug 2003

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

From: Terry Malone [redacted]
To: James Charalambous [redacted] "Baddiley, Peter" [redacted]
Date: Wed, 27 Oct 2010 14:15:21 +1000

James

I think you're reading too much into the way our ratings are derived.

For a particular location for a whole range of historical floods from small to large, modelled peak flow from our calibrated hydrologic model is plotted again recorded peak height and an appropriate line is drawn through the points.

The same process is carried out for adjacent stations, thereby ensuring continuing from one station to the next and consistency between events.

Terry

From: James Charalambous [mailto:[redacted]
Sent: Wednesday, 27 October 2010 10:57 AM
To: Baddiley, Peter; Terry Malone
Cc: Caswell, Evan; John Tibaldi; Morris, Ken; Murray, Peter; Stuart, James
Subject: RE: Brisbane River Model - Calibration Spreadsheet - 1974 Event[SEC=UNCLASSIFIED]

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)

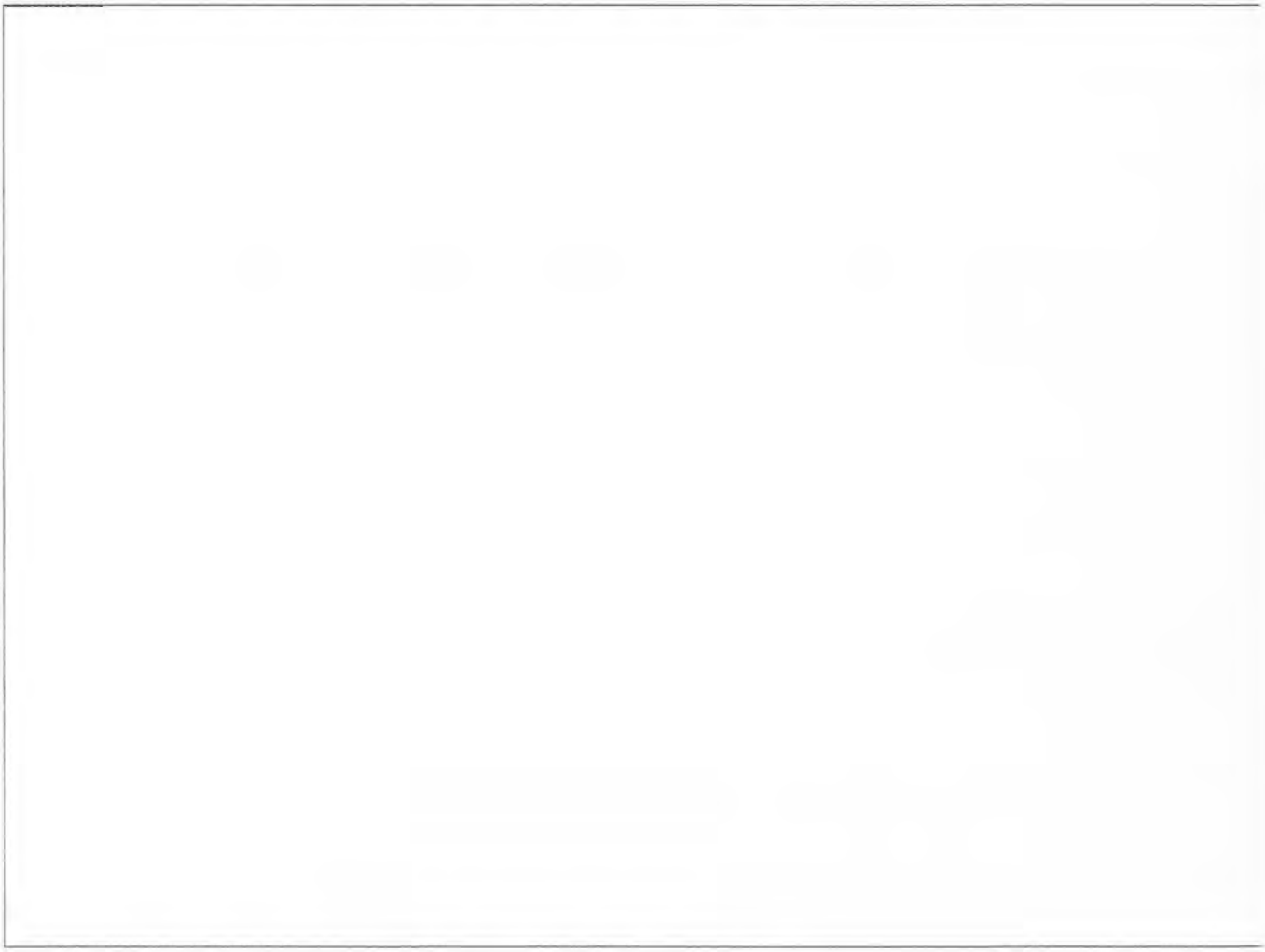
In order capture discharge for all profiles up to the PMF (see Moggill.doc), the plot output line for discharge is slightly skewed to the river to the nearest high points on

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
Phone: [redacted]
EMAIL: [redacted]
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 m3s 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
[redacted]

From: James Charalambous [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 comparsion
*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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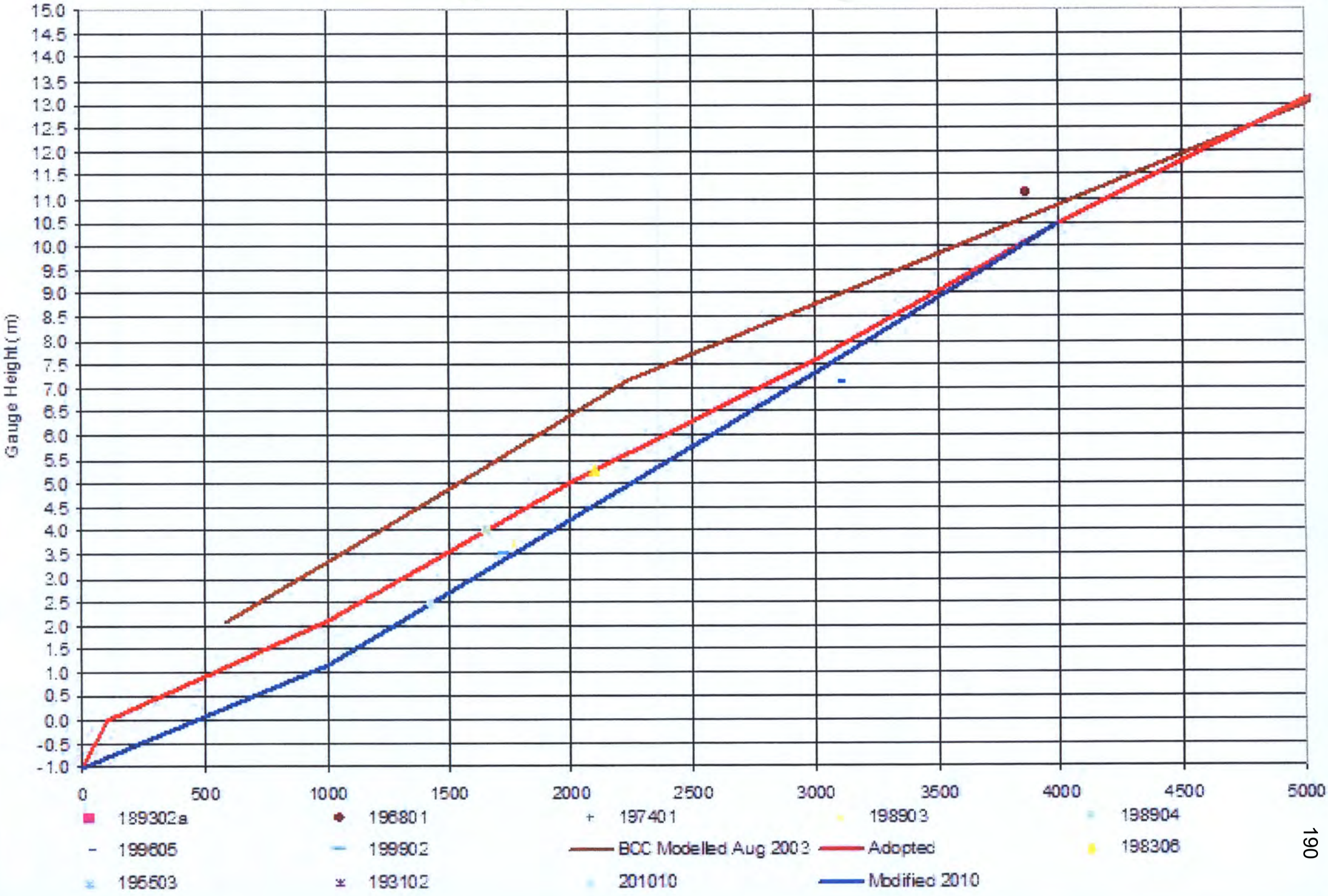
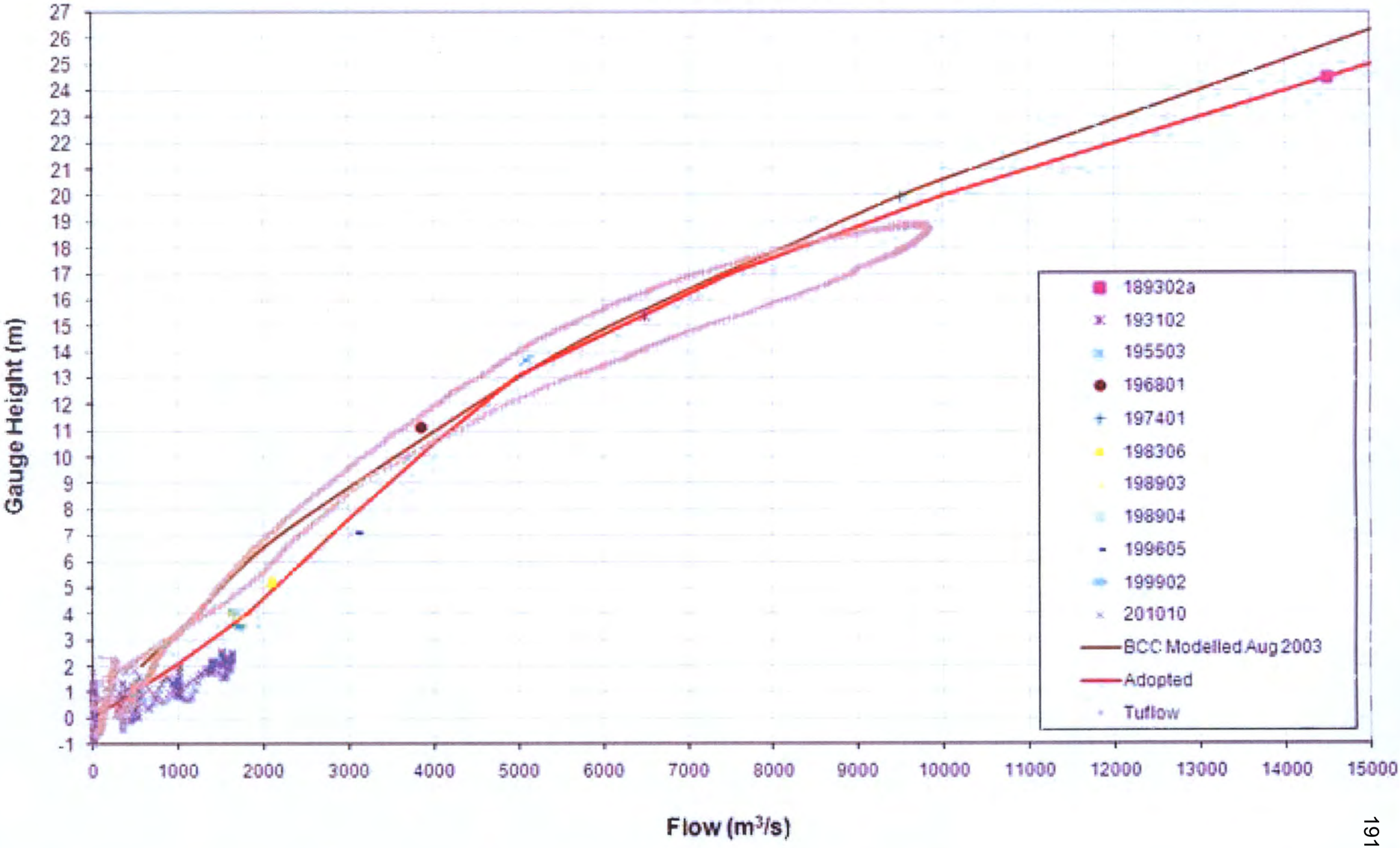
Moggill


Gauge Height (m)
15.0
14.5
14.0
13.5
13.0
12.5
12.0
11.5
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
189302a
196801
197401
198903
198904
199605
199902
BCC Modelled Aug 2003
Adopted
198306
195503
193102
201010
Modified 2010

Moggill


Gauge Height (m)
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
Flow (m3/s)
189302a
193102
195503
196801
197401
198306
198903
198904
199605
199902
201010
BCC Modelled Aug 2003
Adopted
Tuflow

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

From: Peter Baddiley [redacted]
To: Terry Malone [redacted] James Charalambous
Cc: Peter Baddiley [redacted]
Date: Wed, 27 Oct 2010 14:36:27 +1000

James
Further to discussions .... attached are the rating tables currently in the BoM URBS model.

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

From: Terry Malone [redacted]
Sent: Wednesday, 27 October 2010 2:15 PM
To: James Charalambous; Peter Baddiley
Subject: RE: Brisbane River Model - Calibration Spreadsheet - 1974 Event[SEC=UNCLASSIFIED]

James

I think you're reading too much into the way our ratings are derived.

For a particular location for a whole range of historical floods from small to large, modelled peak flow from our calibrated hydrologic model is plotted again recorded peak height and an appropriate line is drawn through the points.

The same process is carried out for adjacent stations, thereby ensuring continuing from one station to the next and consistency between events.

Terry

From: James Charalambous [redacted]
Sent: Wednesday, 27 October 2010 10:57 AM
To: Baddiley, Peter; Terry Malone

Cc: Caswell, Evan; John Tibaldi; Morris, Ken; Murray, Peter; Stuart, James
Subject: RE: Brisbane River Model - Calibration Spreadsheet - 1974 Event[SEC=UNCLASSIFIED]

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.

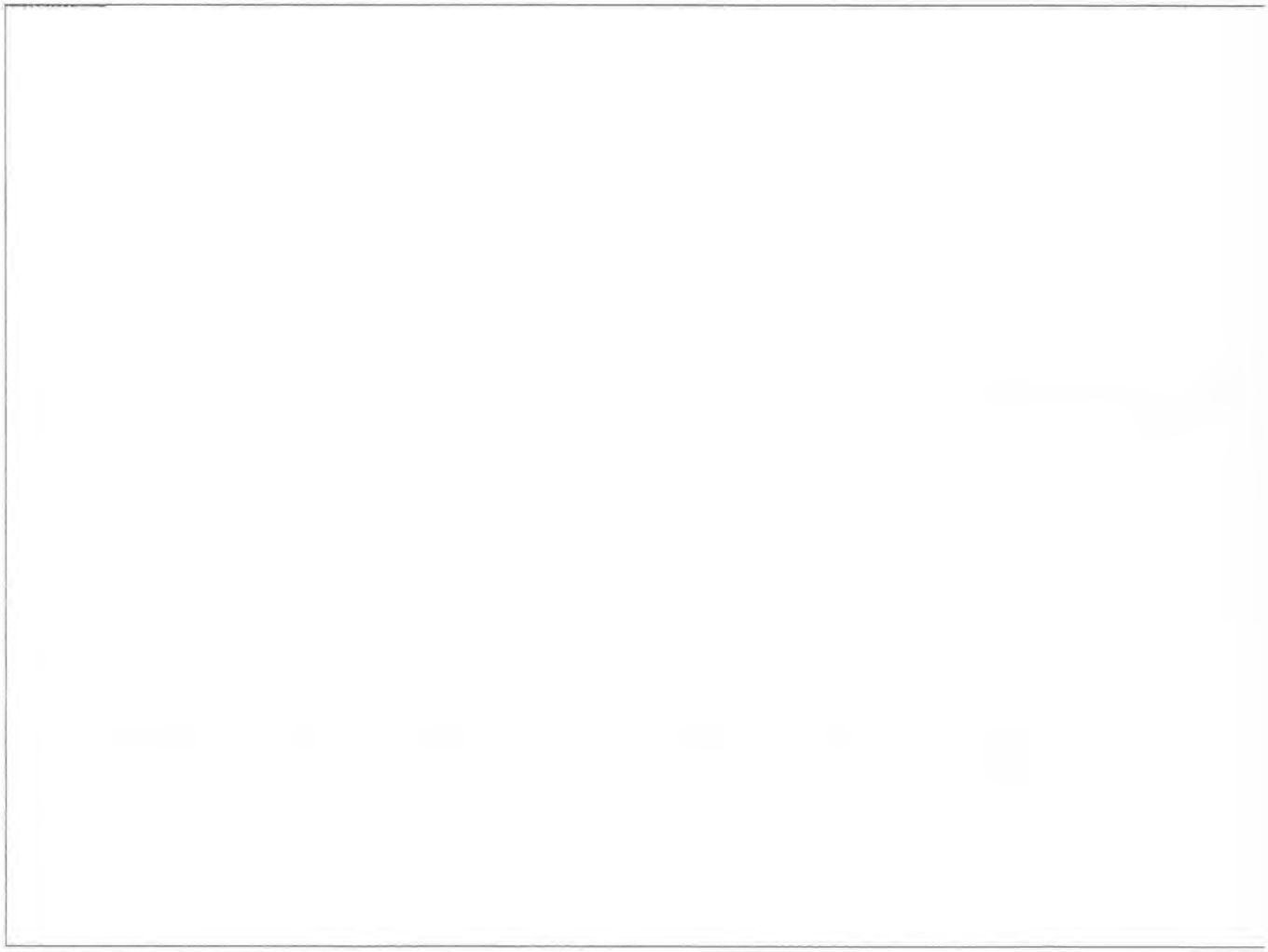
I have extracted the plot output discharge location (red polygon line - measures output discharge) from the model and the level plot output location (measures height) indicated by the red star. These outputs were the basis for the HQ relationship at Moggill. (See att. Moggill.jpg)

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
Phone: [redacted]
EMAIL: [redacted]
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 m3s 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 [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 comparsion
*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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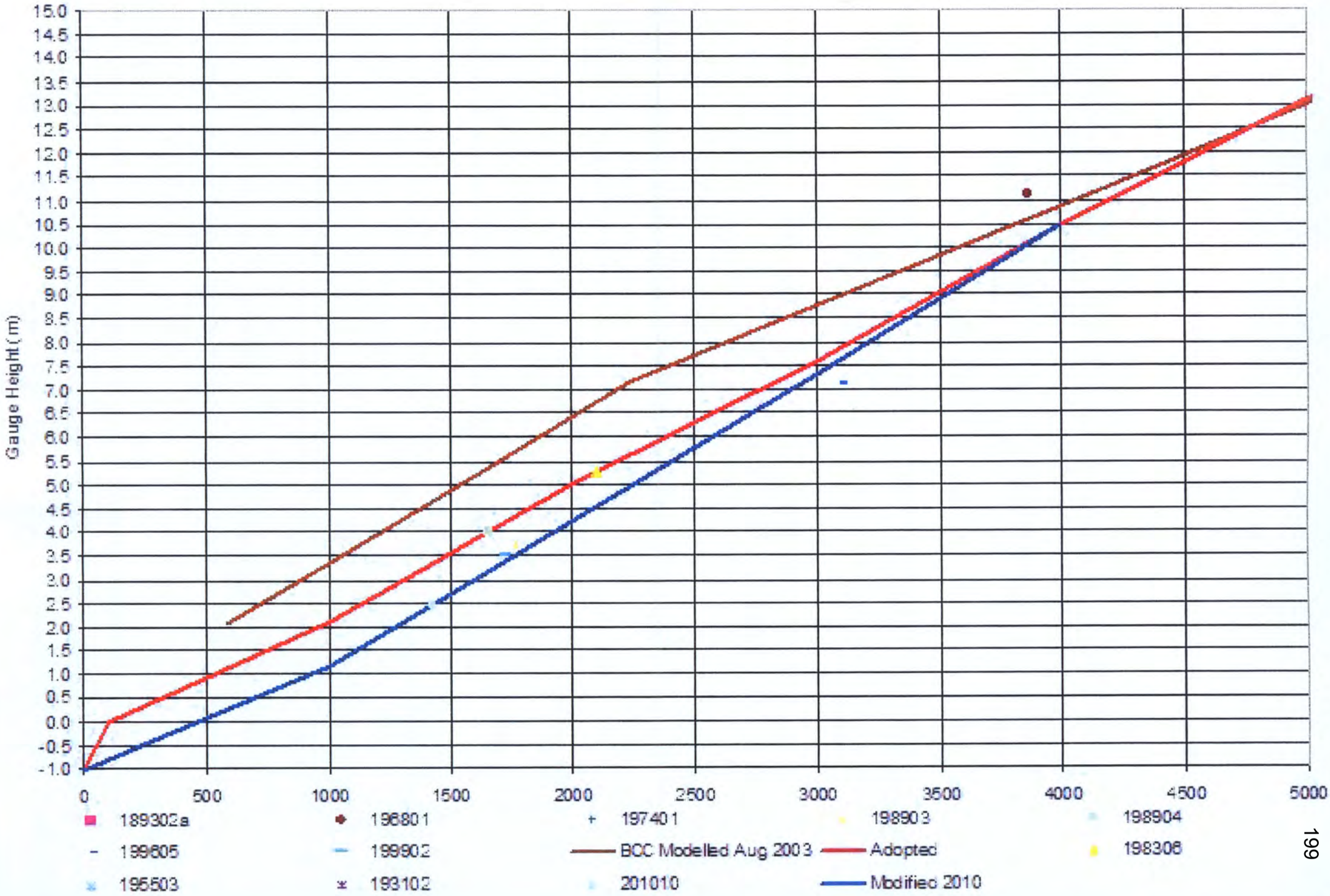
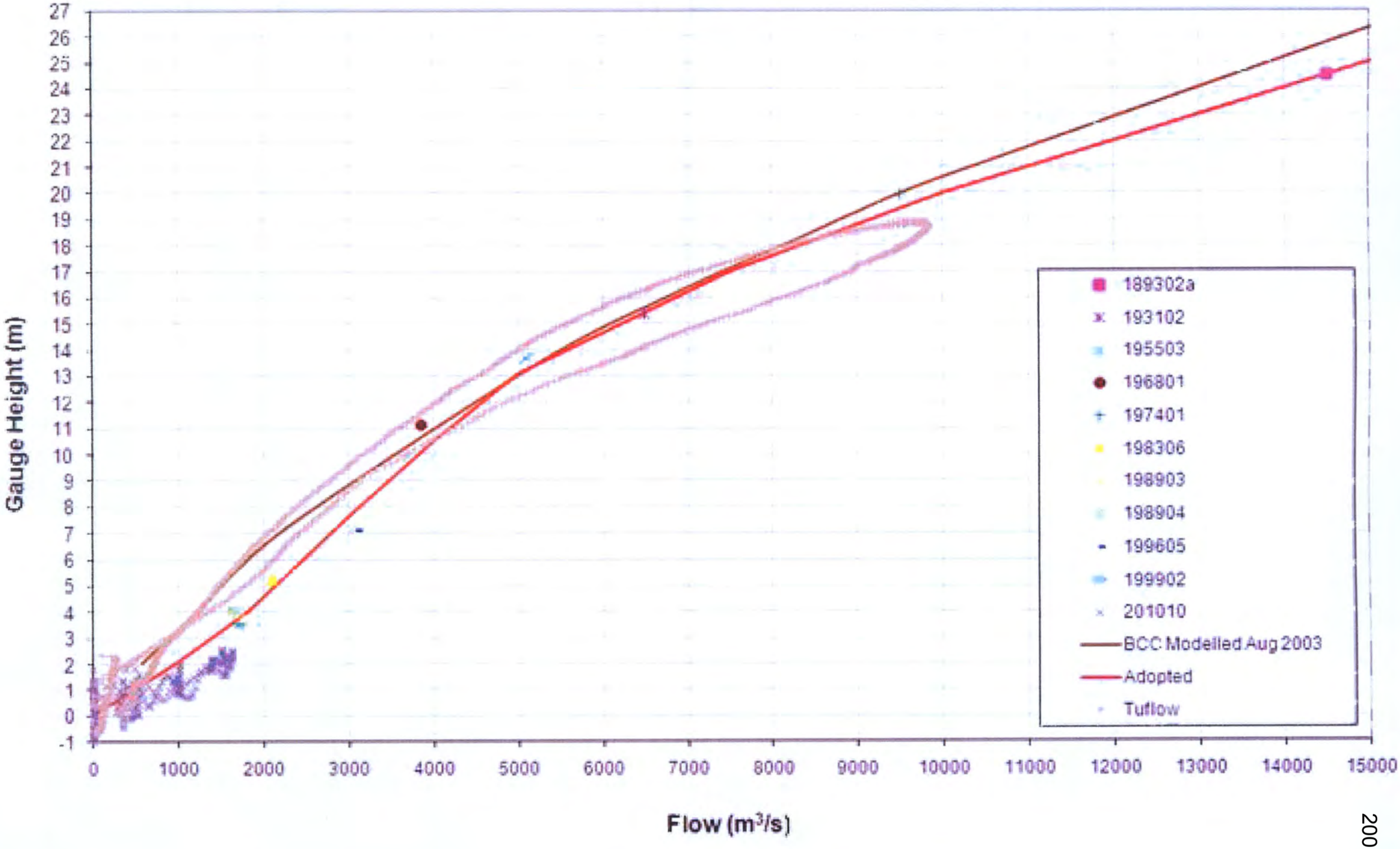
Moggill


Gauge Height (m)
15.0
14.5
14.0
13.5
13.0
12.5
12.0
11.5
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
189302a
196801
197401
198903
198904
199805
199902
BCC Modelled Aug 2003
Adopted
198306
195503
193102
201010
Modified 2010

Moggill


Gauge Height (m)
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
Flow (m3/s)
189302a
193102
195503
196801
197401
198306
198903
198904
199605
199902
201010
BCC Modelled Aug 2003
Adopted
Tuflow

Brisbane R at Moggill

* AWRC: 143915

* Roughly modified during Oct2010 fld baddiley

* Source: BOM

10 pairs:

-1.0 0

1.2 1000

4.2 2000

7.3 3000

10.5 4000

13.1 5000

17.0 7500

20.0 10000

25.0 15000

29.0 20000

BREMER RIVER AT IPSWICH
* AWRC: 143911
* Source: BCC
* Modified BOM
/MOGGILL = -0.5
11 pairs:
-1.0 0
2.5 250
5.3 500
7.5 750
9.3 1000
12.3 1500
14.8 2000
17.0 2500
18.3 3000
20.0 4000
21.5 5000
/MOGGILL = 7.0
8 pairs:
7.0 0
9.0 500
11.5 1000
15.5 2000
17.0 2500
18.3 3000
20.0 4000
21.5 5000
/MOGGILL = 13.0
8 pairs:
13.1 0
14.0 500
15.0 1000
16.7 2000
17.5 2500
18.3 3000
20.0 4000
21.5 5000
/MOGGILL = 20.0
2 pairs:

20.2 0

21.5 5000

BRISBANE R AT JINDALEE

* AWRC: 143982

*

* Source: BOM

11 pairs:

-2.0 0

0.7 1000

2.7 2000

4.4 3000

6.0 4000

7.7 5000

11.1 7500

13.2 9400

16.0 12000

18.2 15000

20.0 20000

MT CROSBY WEIR

* 143003

* Post Weir

* Source: BOM

12 pairs:

7.0 0

8.5 500

10.1 1000

13.1 2000

16.1 3000

19.0 4000

21.5 5000

25.7 7500

28.7 10000

30.8 12500

32.5 15000

36.0 20000

Brisbane PO
* AWRC: 143919
* Datum: Brisbane PO 0m AHD Bar 0m LAT
* Source: BCC Modified by BOM
/Bar=0.0
10 pairs:
-1.24 0
-0.85 1000
-0.40 2000
0.25 3000
1.40 4000
2.40 5000
3.20 6000
4.20 8000
5.10 10000
7.50 15000
/Bar=2.7
10 pairs:
1.46 0
1.60 1000
1.80 2000
2.20 3000
3.00 4000
3.60 5000
4.10 6000
4.90 8000
5.50 10000
7.50 15000

Dam emergency procedures

From: [redacted]
To:
Cc:

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 Sincerly

Madeleine Grant

City Design Librarian and Infomation Officer

City Design

Brisbane Infrastructure

Brisbane City Council

GPO Box 1434

Brisbane Q 4000

Tel [redacted]

email: [redacted]

Friday Morning 29/10 - Technical Capability Meeting Reminder

From: [redacted]
To: [redacted]
Cc: [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 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 Reminder

From: [redacted]
To:
Cc:

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] John Tibaldi; Morris, Ken; [redacted] Terry Malone
Cc: Lavin, Chris; Rob Drury; Scroope, Greg
Subject: Friday Morning 29/10 - Technical Capability Meeting Reminder

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

From: [redacted]
To:
Cc:

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

Hi John,

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>>> "John Tibaldi" [redacted] 28/10/2010 3:37 pm >>>
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Regards.

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

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

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

From: [redacted]
To:
Cc:
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
Phone: [redacted]
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 [mailto[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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Regards
JamesC.

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

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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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RE: BOM Urbs Cal Files [SEC=UNCLASSIFIED]

From: Peter Baddiley [redacted]
To: James Charalambous [redacted], James Stuart [redacted]
Cc: Terry Malone [redacted]
Date: Thu, 11 Nov 2010 08:17:10 +1000

James & Jimmy
Yes - we can supply what we have, but I have also cc'ed to Terry to keep him in the loop.

No doubt he will respond if he has some later info to use now - otherwise I appreciated that some quick comparisons now would be useful, interim to the further work & collaboration between BoM, BCC, Seqwater over a longer time period.

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

From: James Charalambous [mailto[redacted]
Sent: Wednesday, 10 November 2010 1:45 PM
To: Peter Baddiley; James Stuart
Subject: Re: BOM Urbs Cal Files [SEC=UNCLASSIFIED]

Hi Peter/Jimmy,

In the interim is it possible to obtain the BOM data as requested, even if it just the URBS output files for the most significant event which is 1974.
At the same time I can provide the BOM the hydrology inputs (WT42 outputs) for the 1974 event used in recent Brisbane River Hydraulic Model to PMF study.

A comparison in results intially would be a good starting point for future discussions with the State.

Your thoughts?

Regards
JamesC.

>>> Peter Baddiley [redacted] 9/11/2010 5:58 pm >>>

From: Peter Baddiley
Sent: Tuesday, 9 November 2010 5:56 PM
To: 'James Charalambous'; Stuart, James
Subject: RE: BOM Urbs Cal Files [SEC=UNCLASSIFIED]

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Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001
Phone: ([redacted]
EMAIL:
WWW : www.bom.gov.au

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Subject: BOM Urbs Cal Files

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RE: BOM Urbs Cal Files [SEC=UNCLASSIFIED]

From: Terry Malone [redacted]
To: Peter Baddiley [redacted] James Charalambous [redacted] James Stuart [redacted]
Date: Thu, 11 Nov 2010 08:29:43 +1000

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Event	Adopted Lower Brisbane Q	Rec H		
		143915	143982	143919
		Mogill	Jindalee	Brisbane
AMTD	km	*73.0*	*52.8*	*26.3*
GZ	m AHD	0.000 AHD	0.000 AHD	0.000 AHD
18900306				5.33
18930129	14500	24.50	17.90	8.35
18930215		23.60	16.60	8.09
18930606				3.63
18960208				
18980107			11.70	5.02
18980303				3.27
19080312		14.00	9.30	3.35
19280416				2.15
19310129	6500	15.40	9.60	3.32
19470122				
19550325	5100	13.70	7.30	2.36
19590210				
19650718				
19670317				
19670607				
19680107	3860	11.13	6.20	1.97
19710216				
19711226				
19720201				
19730705				
19740124	9500	19.95	14.10	5.45
19760119				
19760209				
19811031				
19820301				
19830620	2100	5.26		
19880401				
19880701				
19890331	1680	3.73		
19890423	2100	4.00		
19910205				
19911210				
19920314				
19960430	3100	7.10	4.55	2.00
19990207	1720	3.50	2.00	1.40
19991107				
20010130	540			
20040201				
20040304				
20080201				
20081116				
20090401				
20090410				
20090518				
20100226				
20101006	1467			

Event		143035a	Adopted Mid Brisbane Q	Rec H					
				143828	143907	143001c	143856	143864	143916
	Wivenhoe Release	Wivenhoe TW		Lowood PS	Lowood	Savages Crossing	Burtons Br	Kholo Br	Mt Crosby Weir
AMTD (km)	150.0	149.5	km	140.5	140.4	130.8			90.2
GZ		0.00 AHD		23.074 AHD	23.683 AHD	18.430 AHD	15.06 AHD		0.00 AHD
CTF (m)		26.65							
18900306					22.05				26.53
18930129			14500		26.39				32.00
18930215									
18930606									
18960208									
18980107					20.80				
18980303					17.93				
19080312					16.30				
19280416					16.08				
19310129			6100		18.44				21.78
19470122									
19550325			4600		18.14				20.72
19590210									
19650718									
19670317									
19670607									
19680107			3370		14.53	16.12			17.26
19710216									
19711226									
19720201									
19730705									
19740124			8000		22.02	23.79			26.74
19760119									
19760209									
19811031									
19820301									
19830620									
19880401									
19880701									
19890331	1621	35.80	1500	10.34	9.70	10.75			11.70
19890423	1490	35.00	1510	10.28	9.60	10.60			11.48
19910205									
19911210									
19920314		32.97							
19960430			2010		12.38	12.68			14.10
19990207	1804	36.54	1790	10.87	10.45	11.21			12.06
19991107									
20010130	291	29.00	540			5.50			8.55
20040201									
20040304									
20080201									
20081116									
20090401									
20090410									
20090518									
20100226									
20101006	1494	36.06	1660	9.99		10.59			11.38

RE: BOM Urbs Cal Files [SEC=UNCLASSIFIED]

From: [redacted]
To:
Cc:
Date: Thu, 11 Nov 2010 13:14:18 +1000

Terry,

I am available between 10am and 2pm next Monday.

Regards
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From: James Stuart [redacted]
To: James Charalambous [redacted], "Malone, Terry" [redacted]
Cc: Peter Baddiley [redacted]
Date: Thu, 11 Nov 2010 17:39:04 +1000

Hi all, Monday is good for me.

Cheers,
Jimmy

From: James Charalambous [mailto[redacted]
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Brisbane City Gauge (water level) [SEC=UNCLASSIFIED]

From: Peter Baddiley [redacted]
To: "Caswell, Evan" [redacted] "Carroll, Don" [redacted]
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 resticted 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
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Phone: [redacted]
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Memory Stick

From: Terry Malone [redacted]
To: James Charalambous [redacted], James Stuart [redacted]
Date: Mon, 15 Nov 2010 09:29:16 +1000

Gents

Suggest you bring a memory stick for our 11 meeting

Cheers

Terry Malone

Principal Hydrologist

Queensland Bulk Water Supply Authority *trading as* Seqwater

[redacted]

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

[redacted]

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FEWS Documents

From: Terry Malone [redacted]
To: James Charalambous [redacted]
Date: Tue, 16 Nov 2010 07:24:04 +1000

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
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[redacted]

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RE: Thornton St gauge boards [SEC=UNCLASSIFIED]

From: Peter Baddiley [redacted]
To: Evan Caswell [redacted]
Cc: James Charalambous [redacted] Ken Morris [redacted] 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 discusion 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 [mailto:[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 form 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 [redacted]

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 aproval 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: [redacted]

EMAIL: [redacted]

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 whover 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: [redacted]

EMAIL: [redacted]

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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RE: FOC Situation Report [SEC=UNCLASSIFIED]

From: James Stuart [redacted]
To: Duty Engineer [redacted]
Cc: [redacted] James Charalambous [redacted]
Date: Sun, 12 Dec 2010 19:55:49 +1000

Thanks for the info. Without any other flooding in the Brisbane catchment, there will be no warning issued by the BOM for this other than the river height bulletins.

Cheers,
Jimmy

From: Duty Engineer [mailto [redacted]
Sent: Sunday, 12 December 2010 10:08 AM
[redacted]
Subject: FOC Situation Report

North Pine Dam

The water level in the dam rose from 39.52 to 39.58m AHD and is only rising slowly. At this stage it is not expected to reach trigger level of 39.65m without further rainfall.

Lake Kurwongbah peaked about 140mm over the spillway about 1900 Saturday and Youngs Crossing remained open.

Somerset/Wivenhoe Dams

Rainfall in the last 24 hours will result in significant inflows to Somerset and Wivenhoe Dams which will require gate operations in the next few days.

At Somerset, two regulators will be opened at midday Sunday and remain open until at least Thursday. This will release approximately 45,000ML into Wivenhoe Dam. Water level in Somerset Dam is expected to peak around 99.7m AHD during Monday.

There is a peak flow of about 150m3/s expected in the mid Brisbane during Monday, mostly resulting from Lockyer Ck. This will be similar to, if not slightly higher than, the peak of 130 m3/s which occurred on Monday 6/12/2010.

Some 30,000 ML is expected to flow into Wivenhoe Dam from the upper Brisbane R during the next week. Coupled with the Somerset release, this will result in a rise at Wivenhoe during the next 24 to 48 hours with a peak water level around 67.6 m AHD. Releases from Wivenhoe will not be made until the runoff from the Lockyer and local areas has passed Savages Crossing so as not to exacerbate local flooding.

Releases from Wivenhoe are expected to commence on Monday afternoon, ramping up from the current release of 50m3/s to 300m3/s. The regulator will be closed and Gate 3 will be progressively opened to 3.0m. It is expected to remain at this level until Thursday when it will be reduced back to 50m3/s, at which stage the water level in the dam is expected to be below 67.25m AHD. Low level release of 50m3/s through the hydro and regulator will then continue

It should be noted that a release of 300m3/s will impact upon Twin Bridges, Savages Crossing and Colleges Crossing.

SRC (Tony Jacobs), ICC(Message left for Tony Trace) and BCC (Chris Lavin) have been advised of the above.

Regards

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax: [redacted]

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From: Chris Lavin
To: Engineer, Duty
Date: Mon, Dec 13, 2010 1:33 pm
Subject: Re: contact details

Terry,

BCC Flood Information Centre Contacts are (see CC):

Evan Caswell
James Charalambous
Ken Morris
Robert McGlinn
Santina Pennisi

Please also include myself and Craig Logan (see CC).

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

T [redacted]
M
E
W www.brisbane.qld.gov.au

>>> "Duty Engineer" [redacted] 13/12/2010 1:19:56 pm >>>

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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CC: Caswell, Evan; Charalambous, James; Logan, Craig; McGlinn, Robert; Morris, Ken; Pennisi, Santina

Wivenhoe Releases

From: [redacted]
To:

Date: Mon, 13 Dec 2010 13:43:55 +1000

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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: [redacted]
To:

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.

From: "Duty Engineer" [redacted]
To: [redacted]
Date: Mon, Dec 13, 2010 1:44 pm
Subject: Wivenhoe Releases

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****

Fwd: SITUATION REPORT #1 SATUDAY 11 DEC 1920HRS

From: [redacted]
To:

[redacted]

Date: Sat, 11 Dec 2010 19:25:54 +1000

SITREP #1

BRISBANE WEATHER FORECAST
Issued at 4:15 pm EST on Saturday 11 December 2010

Warning Summary at issue time
Nil.

Forecast for the rest of Saturday
A few showers, increasing to rain at times with the chance of thunderstorms. Light to moderate NW to NE winds.

Forecast for Sunday
Rain easing to showers. Chance storm. Light to moderate N to NE winds.

The Flolod Information Centre has spoken with the BoM. BoM indicated Brisbane is unlikely to experience similar rainfall totals and intensity that was experienced this afternoon. Essentially the worst of the storms have passed through and the rainfall should ease tonight, with 30-40mm predicted overnight. There is a chance of a storm tomorrow morning and tomorrow afternoon.

TIDES
Saturday 11 Dec Low1948hrs 0.64
Sunday 12 Dec High 0126hrs 1.63
Sunday 12 December High 1341hrs 2.05

CaRS (RRG)
Monitoring and reporting as required.

LAS/BCW (ERG)
Report of 6 homes inundated (habitable floor level) in McFadden Street, Wynnum due to Storm Water system unable to cope with water volume. Ocuupants managing their own clean up. BCC assisting where requested. Storm water pipes in McFadden Street, Wynnum will be educted (cleaned) tonight.

ERG has 100+ jobs logged for the southside. Blocked drains, popped manhole covers, water over road. Attempts are being made via existing on call arrangements to raise additional crews to assist with the job volume.

Wynnum Response - Two Street Sweepers, 4 persons doing inspections on requests from call centre.

Four BCW personnel attending SES Newmarket to refill sandbags.

ERG North - 30 jobs. Two personell on the ground and managing jobs ok.

Storm Water Pipe burst at Parker Av, Northgate - ERG responded.

BMTMC
No significant issues to report.

CONTACT CENTRE
Grade of Service at 42%. No calls waiting at present. Extra staff called in to assist.

SES
SES recorded 61 jobs to date - 15 Tarps (leaking roof) rest sandbags requests. Worst hit area has been Wynnum/Lota/Lytton. Wynnum had 104 mm. Eastern and Northern Groups have activated and responding - 20 personnel in the field.

Flood Information Centre (FIC)
The duty officer continues to monitor conditions.

ASSESSMENT:
Less intensity of rain is anticipated tomorrow with rain easing to showers although a chance of a storm remains. Rainfall should ease tonight, with 30-40mm predicted overnight. The Disaster Management Group will continue to monitor conditions and report as required.

ERG and SES will continue with clean up activities.

No further SITREPS will be issued at this time. Standard arrangements apply.

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

T [redacted]
M
E
W www.brisbane.qld.gov.au

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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Re: SITUATION REPORT #2 SUNDAY 12 DEC 1230HRS

From: [redacted]
To:

Date: Sun, 12 Dec 2010 12:49:29 +1000

SITREP #2

BRISBANE WEATHER FORECAST

Issued at 10:15 am EST on Sunday 12 December 2010

Warning Summary at issue time

Nil.

Forecast for Sunday

Shower or two and a possible afternoon or evening thunderstorm. Chance storm. Light to moderate N to NE winds.

The Flood Information Centre has spoken with the SEQ Water. SEQ Water plan to release 300m3/s from Wivenhoe starting from Monday afternoon onwards coinciding with flows from Lockyer Creek receding. The release is anticipated to have little to no impact for Brisbane.

With regards to the crossings/bridges on the Brisbane River impacted (all outside of BCC) these will be

*Twin Bridges

*Savages Crossing and

*Colleges Crossing (could have minor impact on BCC as this is the boarder with ICC. As Mt Crosby Rd is a State owned road all closures will be dealt with by State.)

Depending on the travel time from the Wivenhoe these crossing/bridges will be impacted from Tuesday onwards for a period of about of 3 days.

With regards to today there is a rainfall system impacting Maryborough from the NW to SE, the fringe of the rainfall system will pass through Brisbane (from NW to SW) bringing the light to moderate rainfall (25-50mm) in next few hours.

As the catchment is very wet all around Brisbane It is anticipated that further localised flooding could occur.

TIDES

Sunday 12 December High 1341hrs 2.05

CaRS (RRG)

Monitoring and reporting as required.

LAS/BCW (ERG)

Responding to normal calls from the Contact Centre

Sandbags located at the 4 specified depots have been well received by the public to the point of BCW having to make more up over the weekend to cope with the volume.

BMTMC

No significant issues to report.

CONTACT CENTRE

No significant issues to report.

SES

Jobs completed from last and have teams on standby for this afternoons storm.

Flood Information Centre (FIC)

The duty officer continues to monitor conditions.

ASSESSMENT:

Less intensity storm is anticipated tonight but with the catchment already saturated there is a possibility of further localised flooding. Disaster Management Group will continue to monitor conditions and report as required.

No further SITREPS will be issued at this time. Standard arrangements apply.

Craig Logan

Disaster Management Co-ordinator

Disaster Management Group

Families and Community Services

Ph [redacted]

M:

E:

RE: FOC Situation Report [SEC=UNCLASSIFIED]

From: James Stuart [redacted]
To: Duty Engineer [redacted]
Cc: [redacted] James Charalambous [redacted]
Date: Sun, 12 Dec 2010 19:55:49 +1000

Thanks for the info. Without any other flooding in the Brisbane catchment, there will be no warning issued by the BOM for this other than the river height bulletins.

Cheers,
Jimmy

From: Duty Engineer [redacted]
Sent: Sunday, 12 December 2010 10:08 AM
[redacted]
Subject: FOC Situation Report

North Pine Dam

The water level in the dam rose from 39.52 to 39.58m AHD and is only rising slowly. At this stage it is not expected to reach trigger level of 39.65m without further rainfall.

Lake Kurwongbah peaked about 140mm over the spillway about 1900 Saturday and Youngs Crossing remained open.

Somerset/Wivenhoe Dams

Rainfall in the last 24 hours will result in significant inflows to Somerset and Wivenhoe Dams which will require gate operations in the next few days.

At Somerset, two regulators will be opened at midday Sunday and remain open until at least Thursday. This will release approximately 45,000ML into Wivenhoe Dam. Water level in Somerset Dam is expected to peak around 99.7m AHD during Monday.

There is a peak flow of about 150m3/s expected in the mid Brisbane during Monday, mostly resulting from Lockyer Ck. This will be similar to, if not slightly higher than, the peak of 130 m3/s which occurred on Monday 6/12/2010.

Some 30,000 ML is expected to flow into Wivenhoe Dam from the upper Brisbane R during the next week. Coupled with the Somerset release, this will result in a rise at Wivenhoe during the next 24 to 48 hours with a peak water level around 67.6 m AHD. Releases from Wivenhoe will not be made until the runoff from the Lockyer and local areas has passed Savages Crossing so as not to exacerbate local flooding.

Releases from Wivenhoe are expected to commence on Monday afternoon, ramping up from the current release of 50m3/s to 300m3/s. The regulator will be closed and Gate 3 will be progressively opened to 3.0m. It is expected to remain at this level until Thursday when it will be reduced back to 50m3/s, at which stage the water level in the dam is expected to be below 67.25m AHD. Low level release of 50m3/s through the hydro and regulator will then continue

It should be noted that a release of 300m3/s will impact upon Twin Bridges, Savages Crossing and Colleges Crossing.

SRC (Tony Jacobs), ICC(Message left for Tony Trace) and BCC (Chris Lavin) have been advised of the above.

Regards

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax: [redacted]

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Wivenhoe Releases

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To:

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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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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 [redacted]

Fax:

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RE: FEWS

From: Terry Malone [redacted]
To: James Charalambous [redacted]
Date: Thu, 16 Dec 2010 16:11:11 +1000

James

Did you get the email I sent last night re flash flood warning?

Terry

From: James Charalambous [mailto[redacted]
Sent: Thursday, 16 December 2010 4:08 PM
To: Ebel, Martin
Cc: Caswell, Evan; Morris, Ken; Terry Malone
Subject: Re: FEWS

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

fon [redacted]
fon
fax
skype: [redacted]

-------- Original Message --------
Subject: FEWS
From: James Charalambous [redacted]
To: [redacted]
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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Calibration Spreadsheet

From: James Charalambous [redacted]
To: [redacted]
Date: Fri, 17 Dec 2010 09:39:57 +1000

Hi Terry,

This is the calibration spreadsheet which you may have already (1974 event). It contains 1974 recorded data and the results of the TUFLOW model.

https://sendit.ourbrisbane.com/files/dbc0e783d3fb28a3c38094a83c78c03c/CalibrationData_br_1974_30m_cal_023d_Report.xls

The spreadsheet is broadly broken up into

*1974 data from Sunwater/DERM
*TUFLOW output - br_1974_30m_cal_023d_PO (final calibration run).
*water level comparisons
*rating curve comparisons
*jindalee discharge rating comparison

With regards to discharge at particular locations you can go to the last sheet which compares the output of the model at Jindalee. Or if you want additional locations you have the option to within the 'br_1974_30m_cal_023d_PO' sheet and look at flow for the various locations along the Brisbane River which generally correspond to gauge locations.

Regards
JamesC.

Wivenhoe Releases

From: [redacted]
To:

Date: Sat, 18 Dec 2010 23:21:41 +1000

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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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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

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21/12/2010 16:00:00	343	Projected
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21/12/2010 23:00:00	342	Projected
22/12/2010 00:00:00	342	Projected
22/12/2010 01:00:00	342	Projected

22/12/2010 02:00:00	341	Projected
22/12/2010 03:00:00	341	Projected
22/12/2010 04:00:00	341	Projected
22/12/2010 05:00:00	341	Projected
22/12/2010 06:00:00	341	Projected
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23/12/2010 02:00:00	323	Projected
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23/12/2010 04:00:00	323	Projected

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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

From: [redacted]
To:

Date: Mon, 20 Dec 2010 13:07:20 +1000

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
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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
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26/12/2010 08:00:00	50	Projected
26/12/2010 09:00:00	50	Projected
26/12/2010 10:00:00	50	Projected
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26/12/2010 12:00:00	50	Projected
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26/12/2010 17:00:00	50	Projected
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26/12/2010 19:00:00	50	Projected
26/12/2010 20:00:00	50	Projected
26/12/2010 21:00:00	50	Projected
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28/12/2010 03:00:00	50	Projected
28/12/2010 04:00:00	50	Projected
28/12/2010 05:00:00	50	Projected
28/12/2010 06:00:00	50	Projected
28/12/2010 07:00:00	50	Projected
28/12/2010 08:00:00	50	Projected
28/12/2010 09:00:00	50	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

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: [redacted]
To:
Cc:

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 [redacted]

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: [redacted]
To:

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: flood.qld@bom.gov.au
WWW : www.bom.gov.au

From: Duty Engineer [mailto[redacted]
Sent: Monday, 20 December 2010 1:27 PM
[redacted]
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:

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Please direct all enquiries to the message author.

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

From: Duty Engineer [redacted]
To: [redacted]
Date: Tue, 21 Dec 2010 06:14:35 +1000

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
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17/12/2010 19:00:00	63	Actual
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Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

Wivenhoe Releases

From: Duty Engineer [redacted]
To: [redacted]
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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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: 21/12/2010 4:21:21 pm
Subject: Wivenhoe Releases

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Duty Engineer
Flood Operations Centre

Phone [redacted]

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 Releases

From: [redacted]
To:

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
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17/12/2010 18:00:00	63	Actual
17/12/2010 19:00:00	63	Actual
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18/12/2010 01:00:00	63	Actual
18/12/2010 02:00:00	63	Actual
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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
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31/12/2010 07:00:00	35	Projected
31/12/2010 08:00:00	35	Projected

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Actual and Projected Releases

From: [redacted]
To:

Date: Wed, 22 Dec 2010 15:28:05 +1000

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
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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
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20/12/2010 00:00:00	305	Actual
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20/12/2010 03:00:00	306	Actual
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20/12/2010 09:00:00	213	Actual
20/12/2010 10:00:00	164	Actual
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20/12/2010 14:00:00	166	Actual
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
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21/12/2010 16:00:00	1267	Actual
21/12/2010 17:00:00	1366	Actual
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21/12/2010 20:00:00	1459	Actual
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21/12/2010 23:00:00	1453	Actual
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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
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31/12/2010 07:00:00	35	Projected
31/12/2010 08:00:00	35	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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High Tide Update - Wed 22 Dec 3pm

From: James Charalambous [redacted]
To: "Baddiley, Peter" [redacted]
Date: Wed, 22 Dec 2010 15:37:37 +1000

FYI.

Regards
JamesC

High Tide Update - Wed 22 Dec 3pm

From: [redacted]
To:
Cc:

Date: Wed, 22 Dec 2010 15:10:58 +1000

Chris,

The peak reading at the City Gauge today was 1.86m AHD which is about 0.6m higher than the predicted high tide, due to atmospheric conditions (0.4m) and river flows (0.2m), including Bremer, Brisbane and local creeks. Neither the Bremer, Brisbane or local creek inflows are making any contribution to the higher levels at the foreshore or Brisbane Bar (1.63m AHD peak today). The impact is purely the result of the atmospheric anomaly at these locations. Our conversation with the BoM indicates that the atmospheric anomaly (causing higher than predicted tide levels) is likely to remain for the next few days.

BoM have just completed the modelling for the river to determine flood levels for Thursday and Friday. The modelling suggests that slightly higher tide levels will occur tomorrow (23/12) and similar levels that occurred today will also occur on Friday 24/12. By the weekend the peak of the high tidal cycle will be over and most of the releases from Wivenhoe will be finishing, so we should see a gradual reduction in these high tide levels over the weekend.

From our discussions with the BoM, for Thursday 23/12 the BoM are predicting high tides up to 1.95m AHD at the City Gauge, which is about 0.7m higher than the predicted high tide, due to atmospheric conditions (0.4m) and river flows (0.3m) including Bremer, Brisbane and local creek inflows.

Therefore the following localities are likely to be affected by minor flooding:

In the vicinity of Albion Park raceway at Albion; Park Street, Amy Street, Agnes Street, Yulestar Street, Narial Street, Higgs Street, Hutchieson Street, Pedder Street, Bogan Street, Fox Street and intersection of Wallace Street and Sandgate Road, Abbotsford Road (adjacent Wallace Street)

In the vicinity of the intersection of Edmonstone Road, Ross Street, Argyle Street, Durong Street Albion/Newstead
In the vicinity of the intersection of Longland Street & Ann Street & Commercial Road and Waterloo Streets, Newstead

In the vicinity of Northey Street at Windsor; Intersection of Northey Street and Bowen Bridge Road, Victoria Street, Edgar Street, Downey Street, Cullen Street, Nicholas Street.

In the vicinity of Bryden Street & O'Doherty Lane intersection and Somerset Street, Windsor

Low lying land in the vicinity Youngs Road, Hemmant

Low lying land in the vicinity of the Esplanade and Bellevue Parade, Lota

Low lying parts of the Coronation Drive bikeway/pedestrian pathways and Southbank bikeway/pedestrian pathways, Brisbane CBD

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.

As a safety measure some ferry terminals and the Northey Street carpark may need to be tempoarirly closed during the high tide.

We will be in touch with the BoM again at midday tomorrow and will provide another update for Friday 24/12.

Regards
JamesC.

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

From: Duty Engineer [redacted]
To: [redacted]
Cc:
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:

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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
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

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

From: "Duty Engineer" [redacted]
To: [redacted]
Date: 23/12/2010 4:15:21 am
Subject: Wivenhoe Actual and Projected Releases (Updated 0400 23/12/2010)
CC: [redacted]

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:

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.

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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Actual

16/12/2010 10:00:00

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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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****
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****

Projected Release from Wivenhoe Dam - Revised Release Strategy

From: [redacted]
To:

Date: Thu, 23 Dec 2010 12:52:32 +1000

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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

RE: High Tide Update - 23 Dec 1pm

From: Duty Engineer [redacted]
To: James Charalambous [redacted]
Date: Thu, 23 Dec 2010 13:14:00 +1000

James

Please be aware that we have prolonged the drain out of Wivenhoe Dam until around 15:00 tomorrow (Friday 24 December). We will keep around 300 to 350 cumecs going during this time in an effort to draw Wivenhoe Dam closer to FSL.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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From: James Charalambous [mailto[redacted]
Sent: Thursday, 23 December 2010 1:05 PM
To: Baddiley, Peter; [redacted]
Cc: Lavin, Chris
Subject: High Tide Update - 23 Dec 1pm

FYI.

Regards
JamesC.

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High Tide Update - 23 Dec 1pm

From: James Charalambous [redacted]
To: "Baddiley, Peter" [redacted]
Date: Thu, 23 Dec 2010 13:24:26 +1000

FYI.

Updated advisory including comments from FOC (SEQ Water).

Regards
JamesC.

High Tide Update - 23 Dec 1pm

From: [redacted]
To:
Cc:

Date: Thu, 23 Dec 2010 13:21:43 +1000

Chris,

The peak reading at the City Gauge was 1.86m AHD which is about 0.5m higher than the tide book predictions; due to atmospheric conditions (0.3m) and river flows (0.2m). Our conversation with the BoM indicates that the atmospheric anomaly (causing higher than predicted tide levels of about 0.3m) is still likely to remain over the next few days. The river flows are not making any contribution to the higher levels at the foreshore or Brisbane Bar which reached 1.65m AHD peak today (0.3m above predicted).

SEQ Water are now scaling down their releases to 300m/s tonight and plan to have these finished by 3pm tomorrow afternoon. The residual releases of 300m3/s will have little to no impact on downstream water levels in Brisbane. Following discussions with the BoM the peak tidal cycle occurred today, therefore we should see a gradual reduction in these high tide levels by about 0.1m each day, commencing tomorrow and over the weekend. However further gate operations may be necessary in the coming days if forecast rainfall results in subsequent river rises.

BoM have just completed the modelling for the river to determine flood levels over the next few days.

For Friday the BoM predicts high tides to range up to 1.72m AHD at the City Gauge which is about 0.4m higher than expected, again due to atmospheric conditions (0.3m) and residual river flows (0.1m).

Therefore the following localities are again likely to be affected by minor flooding tomorrow:

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/Lytton.

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

For Saturday the BoM predicts high tides to range up to 1.6m AHD at the City Gauge, and for Sunday the BoM predicts 1.5m AHD at the City Gauge. This is below the minor flood level of 1.7m AHD at the City Gauge. These predictions include the persistance of the 0.3m atmospheric anomaly only. The Highest Astronomical Tide (HAT) at the Brisbane City Gauge is 1.57m AHD, so these levels are slightly above and below HAT for Saturday and Sunday respectively.

For the next 24-72 hrs there is still the chance for some debris to be remain within the river tidal zone. Monitoring of the river should continue over the next few days to ensure no significant debris are present for the safe operation of ferries and ferry terminals.

Unless the situation changes and based on our discussions with the BoM today, we are not planning to issue another update tomorrow.

Regards
JamesC.

Santina Pennisi - Fwd: RE: Status and technical report

From: Chris Lavin
To: Charalambous, James; CustomerContactSolutions; McGlinn, Robert; Morris, Ken; Pennisi, Santina; Pethybridge, Vicki
Date: 23/12/2010 3:37:34 pm
Subject: Fwd: RE: Status and technical report

FYI

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

T [redacted]
M
E
W www.brisbane.qld.gov.au

>>> "Rob Drury" [redacted] 23/12/2010 2:50:15 pm >>>
The current situation is as below however the impact of rainfall in the Lockyer will be monitored as it may affect the current strategy.

I will send off another technical report based on the below this afternoon. If you have any assessments or concerns please send to me to include.

Somerset Dam

Sluice gate operations ceased at 09:00 today with the lake level at 99.10 m AHD. Base flows will result in the lake level rising over the next few days.

Further gate operations may be necessary in coming days if forecast rainfall results in subsequent river rises.

Wivenhoe Dam

Wivenhoe Dam is currently discharging around 350 m3/s with Gate 3 open 3.5 m. The scheduled cessation of gate operations at Wivenhoe Dam has been extended until tomorrow afternoon (Friday 24 December 2010) with a target of 1.00pm as base flows and the overnight rain has meant the lake level has not dropped as quickly as anticipated. The current lake level is 67.23 m AHD.

Continued gate operations may be necessary if forecast rainfall results in subsequent river rises. The gate closure sequence will be reviewed throughout today and discussions with impacted Local Authorities will be ongoing.

Impact of Wivenhoe Dam Releases

The releases from Wivenhoe Dam have resulted in elevated levels in the Brisbane River downstream to Colleges Crossing. Twin Bridges, Savages Crossing, Colleges Crossing, Burtons Bridge and Kholo Bridge are currently all closed due to inundation resulting from these releases. In accordance with the current operational strategy Kholo

Bridge and Burtons Bridge should be trafficable by this evening.

Projected "early side" times for bridges becoming clear of water based on the current gate closure sequence and concurrent Lockyer Creek flows are as follows:-

Burtons Bridge – 18:00 Thursday 23 December 2010.
Kholo Bridge – 21:00 Thursday 23 December 2010.

The remaining bridges will most likely remain closed until Christmas Day.

Rainfall

There have been falls of between 10 and 30 mm in the catchments over the last 24 hours. This has led to small rises in the Stanley, Pine, Lockyer and Bremer Rivers. The Lockyer Creek flow is likely to impact the middle-Brisbane River tomorrow and this may prevent the opening of Savages Crossing and Colleges Crossing.

Rainfall across the region is expected to increase up to 06:00 on 25 December 2010 before easing and further heavy rainfall may commence late on 29 December 2010.

Tide levels continue to be monitored closely with peak tide estimates being adjusted by BOM to account for Wivenhoe Dam outflows.

Rob

Robert Drury
Dam Operations Manager
Water Delivery
Queensland Bulk Water Supply Authority *trading as* Seqwater



seqwater
WATER FOR LIFE
Ph [redacted]
Wivenhoe Dam, Brisbane Valley Highway, via Fernvale Q4306 Australia
PO Box 37, Fernvale QLD 4306
Website | www.seqwater.com.au

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RE: High Tide Update - 23 Dec 1pm

From: Duty Engineer [redacted]
To: James Charalambous [redacted], "Baddiley, Peter"
Cc: [redacted]
Date: Thu, 23 Dec 2010 17:29:00 +1000

James/Peter/Jimmy

We wish to undertake fish recovery at Wivenhoe Dam tomorrow when we close down – so to provide sufficient time for this to occur, we will schedule closure for 13:00 on Friday 24 December. After the fish recovery is complete we will ramp up the regulator release and the hydro to achieve a total release of 50 m^3/s.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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To: Baddiley, Peter; [redacted]
Subject: High Tide Update - 23 Dec 1pm

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JamesC.

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

From: [redacted]
To:

Date: Fri, 24 Dec 2010 14:44:57 +1000

16/12/2010 09:00:00	50	Actual
16/12/2010 10:00:00	50	Actual
16/12/2010 11:00:00	50	Actual
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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	50	Actual

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06:00:00	50	Actual
17/12/2010		
07:00:00	50	Actual
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08:00:00	210	Actual

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28/12/2010 17:00:00	50	Projected
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31/12/2010 07:00:00	50	Projected
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Duty Engineer

Flood Operations Centre

Phone [redacted]

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

16/12/2010 09:00:00	50	Actual
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17/12/2010 10:00:00	50	Actual
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00:00:00	63	Actual
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07:00:00	210	Actual
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26/12/2010 23:00:00	343	Projected
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27/12/2010 02:00:00	343	Projected
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30/12/2010 23:00:00	50	Projected
31/12/2010		

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01:00:00 31/12/2010	50	Projected
02:00:00 31/12/2010	50	Projected
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05:00:00 31/12/2010	50	Projected
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07:00:00 31/12/2010	50	Projected
08:00:00	50	Projected

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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

Wivenhoe Dam Projectd Releases - Sunday 26 Decemmber 2010

From: [redacted]
To:

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

16/12/2010 09:00:00	50	Actual
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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
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16/12/2010 16:00:00	50	Actual
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31/12/2010 08:00:00	50	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report 1200 Monday 27 December 2010

From: [redacted]
To:
Cc:
Date: Mon, 27 Dec 2010 12:57:31 +1000

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 997m 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 [redacted]

Fax:

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Please direct all enquiries to the message author.

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]

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Terry Malone
Duty Engineer
Flood Operations Centre

Phone [redacted]

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.

23/12/2010 09:00:00	539 Actual
23/12/2010 10:00:00	489 Actual
23/12/2010 11:00:00	396 Actual
23/12/2010 12:00:00	346 Actual
23/12/2010 13:00:00	346 Actual
23/12/2010 14:00:00	346 Actual
23/12/2010 15:00:00	346 Actual
23/12/2010 16:00:00	346 Actual
23/12/2010 17:00:00	346 Actual
23/12/2010 18:00:00	346 Actual
23/12/2010 19:00:00	346 Actual
23/12/2010 20:00:00	345 Actual
23/12/2010 21:00:00	345 Actual
23/12/2010 22:00:00	345 Actual
23/12/2010 23:00:00	345 Actual
24/12/2010 00:00:00	345 Actual
24/12/2010 01:00:00	345 Actual
24/12/2010 02:00:00	345 Actual
24/12/2010 03:00:00	300 Actual
24/12/2010 04:00:00	300 Actual
24/12/2010 05:00:00	300 Actual
24/12/2010 06:00:00	300 Actual
24/12/2010 07:00:00	300 Actual
24/12/2010 08:00:00	300 Actual
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
25/12/2010 11:00:00	13 Actual
25/12/2010 12:00:00	13 Actual
25/12/2010 13:00:00	13 Actual
25/12/2010 14:00:00	13 Actual
25/12/2010 15:00:00	13 Actual
25/12/2010 16:00:00	13 Actual
25/12/2010 17:00:00	13 Actual
25/12/2010 18:00:00	13 Actual
25/12/2010 19:00:00	13 Actual
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
26/12/2010 05:00:00	13 Actual
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
26/12/2010 13:00:00	349 Actual
26/12/2010 14:00:00	349 Actual
26/12/2010 15:00:00	349 Actual
26/12/2010 16:00:00	349 Actual
26/12/2010 17:00:00	350 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
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27/12/2010 01:00:00	212	Actual
27/12/2010 02:00:00	212	Actual
27/12/2010 03:00:00	163	Actual
27/12/2010 04:00:00	163	Actual
27/12/2010 05:00:00	114	Actual
27/12/2010 06:00:00	114	Actual
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27/12/2010 18:00:00	64	Projected
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27/12/2010 23:00:00	360	Projected
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28/12/2010 23:00:00	1345	Projected

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29/12/2010 02:00:00 1339 Projected
29/12/2010 03:00:00 1337 Projected
29/12/2010 04:00:00 1335 Projected
29/12/2010 05:00:00 1333 Projected
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29/12/2010 07:00:00 1329 Projected
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01/01/2011 23:00:00 1100 Projected
02/01/2011 00:00:00 1097 Projected
02/01/2011 01:00:00 1094 Projected

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02/01/2011 03:00:00	1088	Projected
02/01/2011 04:00:00	1085	Projected
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03/01/2011 02:00:00	1017	Projected
03/01/2011 03:00:00	1014	Projected
03/01/2011 04:00:00	1011	Projected
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03/01/2011 07:00:00	1001	Projected
03/01/2011 08:00:00	998	Projected
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03/01/2011 14:00:00	978	Projected
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05/01/2011 23:00:00	694 Projected
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07/01/2011 23:00:00	521	Projected
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08/01/2011 02:00:00	512	Projected
08/01/2011 03:00:00	509	Projected

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08/01/2011	05:00:00	503 Projected
08/01/2011	06:00:00	500 Projected
08/01/2011	07:00:00	497 Projected
08/01/2011	08:00:00	494 Projected
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09/01/2011	22:00:00	402 Projected
09/01/2011	23:00:00	400 Projected
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10/01/2011	01:00:00	396 Projected
10/01/2011	02:00:00	394 Projected
10/01/2011	03:00:00	392 Projected
10/01/2011	04:00:00	390 Projected

10/01/2011	05:00:00	388 Projected
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10/01/2011	07:00:00	384 Projected
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10/01/2011	09:00:00	380 Projected
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11/01/2011	06:00:00	343 Projected
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11/01/2011	10:00:00	337 Projected
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11/01/2011	13:00:00	333 Projected
11/01/2011	14:00:00	331 Projected
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11/01/2011	19:00:00	324 Projected
11/01/2011	20:00:00	322 Projected
11/01/2011	21:00:00	321 Projected
11/01/2011	22:00:00	320 Projected
11/01/2011	23:00:00	318 Projected
12/01/2011	00:00:00	317 Projected
12/01/2011	01:00:00	315 Projected
12/01/2011	02:00:00	314 Projected
12/01/2011	03:00:00	313 Projected
12/01/2011	04:00:00	311 Projected
12/01/2011	05:00:00	310 Projected

12/01/2011 06:00:00	309 Projected
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12/01/2011 12:00:00	301 Projected
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12/01/2011 22:00:00	289 Projected
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13/01/2011 03:00:00	284 Projected
13/01/2011 04:00:00	283 Projected

Duty Engineer
Flood Operations Centre

Phone
Fax: [redacted]

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

Wivenhoe Outflows

From: [redacted]
To:

Date: Mon, 27 Dec 2010 13:16:58 +1000

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

23/12/2010 09:00:00	539	Actual
23/12/2010 10:00:00	489	Actual
23/12/2010 11:00:00	396	Actual
23/12/2010 12:00:00	346	Actual
23/12/2010 13:00:00	346	Actual
23/12/2010 14:00:00	346	Actual
23/12/2010 15:00:00	346	Actual
23/12/2010 16:00:00	346	Actual
23/12/2010 17:00:00	346	Actual
23/12/2010 18:00:00	346	Actual
23/12/2010 19:00:00	346	Actual
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23/12/2010 21:00:00	345	Actual
23/12/2010 22:00:00	345	Actual
23/12/2010 23:00:00	345	Actual
24/12/2010 00:00:00	345	Actual
24/12/2010 01:00:00	345	Actual
24/12/2010	345	Actual

02:00:00		
24/12/2010	300	Actual
03:00:00		
24/12/2010	300	Actual
04:00:00		
24/12/2010	300	Actual
05:00:00		
24/12/2010	300	Actual
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24/12/2010	300	Actual
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24/12/2010	300	Actual
08:00:00		
24/12/2010	255	Actual
09:00:00		
24/12/2010	208	Actual
10:00:00		
24/12/2010	160	Actual
11:00:00		
24/12/2010	112	Actual
12:00:00		
24/12/2010	13	Actual
13:00:00		
24/12/2010	13	Actual
14:00:00		
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15:00:00		
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25/12/2010	13	Actual
00:00:00		
25/12/2010	13	Actual
01:00:00		
25/12/2010	13	Actual
02:00:00		
25/12/2010	13	Actual
03:00:00		
25/12/2010	13	Actual
04:00:00		
25/12/2010	13	Actual
05:00:00		

25/12/2010 06:00:00	13 Actual
25/12/2010 07:00:00	13 Actual
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26/12/2010 08:00:00	13 Actual
26/12/2010 09:00:00	63 Actual

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11/01/2011 02:00:00	350	Projected
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11/01/2011 04:00:00	347	Projected
11/01/2011 05:00:00	345	Projected
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11/01/2011 07:00:00	342	Projected
11/01/2011 08:00:00	340	Projected
11/01/2011 09:00:00	339	Projected
11/01/2011 10:00:00	337	Projected
11/01/2011 11:00:00	336	Projected
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11/01/2011 13:00:00	333	Projected
11/01/2011 14:00:00	331	Projected
11/01/2011 15:00:00	330	Projected
11/01/2011 16:00:00	328	Projected
11/01/2011 17:00:00	327	Projected

11/01/2011 18:00:00	325	Projected
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11/01/2011 21:00:00	321	Projected
11/01/2011 22:00:00	320	Projected
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12/01/2011 22:00:00	289	Projected
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13/01/2011 01:00:00	286	Projected
13/01/2011 02:00:00	285	Projected
13/01/2011 03:00:00	284	Projected
13/01/2011 04:00:00	283	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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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

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
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24/12/2010 16:00:00	13	Actual
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25/12/2010 22:00:00	13	Actual
25/12/2010 23:00:00	13	Actual
26/12/2010 00:00:00	13	Actual

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26/12/2010 03:00:00	13	Actual
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07/01/2011 03:00:00	0	Projected
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08/01/2011 07:00:00	0	Projected
08/01/2011 08:00:00	0	Projected

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Tue, 28 Dec 2010 15:07:49 +1000

24/12/2010 09:00:00	255	Actual
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24/12/2010 11:00:00	160	Actual
24/12/2010 12:00:00	112	Actual
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24/12/2010 14:00:00	13	Actual
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25/12/2010 18:00:00	13	Actual
25/12/2010 19:00:00	13	Actual
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08/01/2011 08:00:00	0	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

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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Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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

Actual and Projected Wivenhoe Releases

From: Duty Engineer [redacted]
To: [redacted]
Santina Pennisi [redacted]
Date: Wed, 29 Dec 2010 07:24:02 +1000

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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

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
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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
07/01/2011 04:00:00	0	Projected

07/01/2011 05:00:00	0	Projected
07/01/2011 06:00:00	0	Projected
07/01/2011 07:00:00	0	Projected
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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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 [redacted]

Fax:

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Actual and Projected Releases from Wivenhoe Dam - 20:30 on Wednesday 29 December 2010

From: [redacted]
To:

Date: Wed, 29 Dec 2010 20:25:00 +1000

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
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24/12/2010 18:00:00	13	Actual
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25/12/2010 12:00:00	13	Actual
25/12/2010 13:00:00	13	Actual
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
25/12/2010 18:00:00	13	Actual
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26/12/2010 08:00:00	13	Actual
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05/01/2011 06:00:00	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
07/01/2011 04:00:00	0	Projected

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07/01/2011 06:00:00	0	Projected
07/01/2011 07:00:00	0	Projected
07/01/2011 08:00:00	0	Projected
07/01/2011 09:00:00	0	Projected
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08/01/2011 04:00:00	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 [redacted]

Fax:

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Please direct all enquiries to the message author.

Santina Pennisi - Wivenhoe Actual and Projected Release

From: [redacted]
To:

Date: 30/12/2010 9:25:58 am
Subject: Wivenhoe Actual and Projected Release

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
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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
26/12/2010 05:00:00	13	Actual
26/12/2010 06:00:00	13	Actual
26/12/2010 07:00:00	13	Actual
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26/12/2010 14:00:00	349	Actual
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26/12/2010 17:00:00	349	Actual
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Duty Engineer
Flood Operations Centre

Phone [redacted]

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 Release

From: Duty Engineer [redacted]
To: [redacted]

Date: Thu, 30 Dec 2010 09:25:37 +1000

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31/12/2010 01:00:00	1473	Projected
31/12/2010 02:00:00	1471	Projected

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31/12/2010 21:00:00	1133	Projected
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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 [redacted]

Fax:

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

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
24/12/2010 13:00:00	13	Actual
24/12/2010 14:00:00	13	Actual
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25/12/2010 23:00:00	13	Actual
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26/12/2010 03:00:00	13	Actual
26/12/2010 04:00:00	13	Actual
26/12/2010 05:00:00	13	Actual
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01/01/2011 19:00:00	722	Projected
01/01/2011 20:00:00	721	Projected
01/01/2011 21:00:00	672	Projected
01/01/2011 22:00:00	623	Projected
01/01/2011 23:00:00	574	Projected
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02/01/2011 23:00:00	40	Projected
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03/01/2011 06:00:00	40	Projected
03/01/2011 07:00:00	40	Projected
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Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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

Actual and Projected Wivenhoe

From: [redacted]
To:

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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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.

"JMC-6"

21/10/2010

- Filing
- CV_Update
- Belinda A/GM
- Brandy ⇒ leaving 12 Nov

[Nadia returns

[Development Plan] - SSP.

[No WLCC]

⇒ 5-29 Nov

⇒ 5-

⇒ Technology

⇒ B.C - Technology Group - Camera - Tuflow

- Training plan

Skilion

CV Update.

Climate Change.

22/10/10

* BOM has historical storms

* BOM has about 600 rainfall/stream heights in SEQ.

- Manual of Op. Procedures
- Emergy Action Plan.
- Winch - mt (5 crossings / minimise time of closure).
- Mid Brisbane.

FOC

↳ staff 24 hours x 7

FEWS -> Consistent Set of Ratings (Triggers)

→ Planning Levels

→ Flood Warning System)

- John Tibaldi, Terry Malone, Peter Baddiley, Jimmy Stuart, Paul Birch, Ellen Caswell, James Chamberlain.]

29/10/2010

(Harmonisation / public confidence / Preparing community service announcements. (Protocol Document))

[Other Dams of Leslie Harrison Dam)
- Lake Manchester
- Gold Creek
- Enoggera Dams]

(Photos) => th bridge - 1000 m³/s.

1500 - 2000 m³/s - with high tide 1.7 m AHD.

[EAP => DM / (FIC Login)] ([RL74])

=> 17.5 m => Gates > 4.5 m 3 weeks ago

EOPs => [ ] [Red Manual (FIC)]

Transfer of Technical Data [Actual / Predicted] (Upper Brisbane / Lockyer / Stanley)

(=> Catchment Response 24 hr
=> Dam routing 24 hr
=> Flow down the river 24 hr ↓)

(FOC, FWC, FIC)

BCC.024.0652

1. Forecast & warnings 24/7
2. Duty Forecaster available 24/7
3. Email to SEQ Water & BCC when flood model posted to the web.

(flood.qld.bom.au)
Moggill (10m)
Jindalle (6m)
Brisbane (1.7m)

BCC flood advice copied to
⇒ (flood_qld@bom.gov.au)

3pm
→ Moggill Reach 7m by Friday Friday
→ Jindalee Lucs 4.5m around high tide at 9pm
→ Brisbane Reach 2metres around high tide at 9am Sat.day
Higher levels will be reached on Brisbane River during the weekend.

(12-24hrs lead time)

(Station) ⇒

→ BCC Contact Centre.
→ (Manual Gauge ⇒ removed)
→ (Thorton St Gauge)

RDG (TM)
Brisbane City (ALERT)

BCC.024.0653

⇒ Ring John Arrowsmith 9/11/10

[⇒ Meteorological Summary
⇒ Hydrological Summary]

⇒ Wet pressure gauges (Thorton St Gauge)
⇒ Brisbane Telephone Telemetry (Edward St)
(MSQ gas bubbler)
⇒ Talk about bender ⇒ F.I.C.] Ken, Evan,
Maps] James C.

1893 (calibration events)
1893
1974 1991
1991
1999 (Several)
1999
2004

[108 K$] – check with Peter Hillcoat) 9/11/10
about the budget

2/10 (Requested to Jeff to be included in communication regarding conversations to DM and sitreps) 10/11/10

Chris ~~DM~~ FERT
FIC 108 K$ FIDO
FERT 41 K$
[Property Counts / River] ALL staff.

[Jeff indicated 17 K$ available to Paul W.]

⇒ Full River & Creeks
⇒ storm tide mapping
⇒ Brisbane River
] ALL 2009 Cadastre → W.R.

⇒ (Paul Wenton – Bender update)
⇒ [Parcel Addresses (FIC / I / transfer]
FRR → Flood Cells → 1 Bimap ⇒ Coreland
(Flood Property Reports)

h

cs May 09 cal_2m_003_Vg001MAX.tab
003_VMax Arrows.tab

CS_May09_Deb_2m_002

→ Import 2pt file talk to Nic
→ put in walls ~~to~~
→ Business case
↳ (Calc next 5 year)

Flood Study Maintenance 11/10/10

[QA & higher transparency)]

11/11/2010

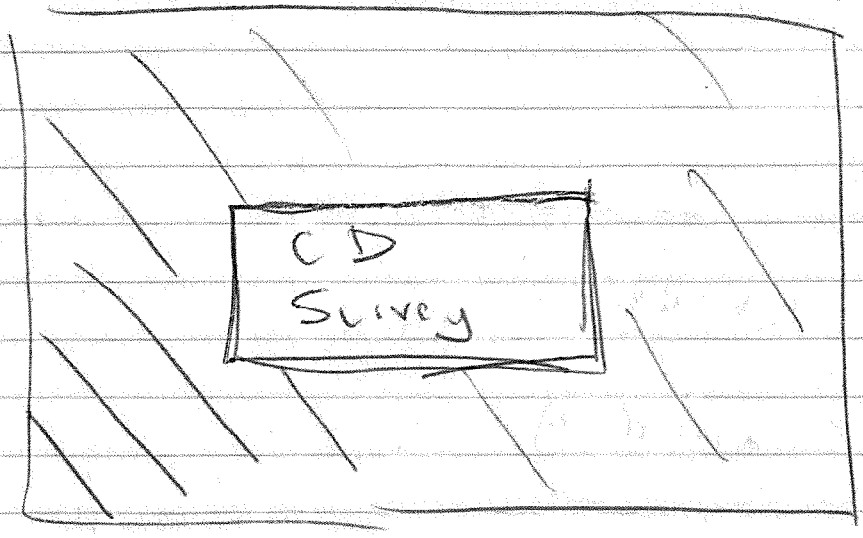
FENS Implementation
Deltares – DELFT, GEOSCIENCES.

mt Environmon 15 min equidistant ⇒ file ⇒ FENS.

300 rainfall
250 waterlevel] 1/3 owned by SEQW.

Hydrstra → Time Studio
Forecast Rainfall
Access BN – 36h
A – 48h
T – 72h
G – 10 days
] Subscribe to BOM.

Corporate
2009



→ GIS Modelled Section - 1D
→ [Site Specific Survey]

FEWS cont'd.

Data Filtering
[⇒ Environment
⇒ FEWS validation review
→ Lots of opportunities]

(cookie cutter approach)

1 CULLEN SET ⇒
HISTORICAL

1.5km²

⇒ Inverse squared distance 4 stations per pixel.
Ensemble forecasts
→ Radar rainfall fields

(Time Series Data 365 days)
(Mento Pi archival)

Peak Levels
Historical floods - neighbourhood.
[100K$] →
http://public.deltares.nl/display/FEWSDOL/Home
(Registered User Service)

"JMC-7"

seqwater
WATER FOR LIFE

FLOOD EVENT – TECHNICAL PROTOCOL SEQWATER, BCC AND BOM

Agenda

Date:	**Friday, 29 October 2010**
Time:	**9.00am – 10:30am**
Place:	**BCC Offices**
Invitees:	**John Tibaldi (Chair), Rob Drury, Terry Malone, Ken Morris, Peter Baddiley, Jimmy Stuart, Evan Caswell, James Charalambous, Jeff Perkins, Lavin, Chris, Greg Scroope.**
Apologies:	**Rob Drury, Don Carroll.**
Meeting No.	**1**

	Agenda Item	Discussion Format	Presenter
1	**Introduction**	Discussion	John Tibaldi
2	**Proposed Flood Event Communication Protocol**	Paper and Discussion	Terry Malone
3	**Process for determining consensus for ratings and agreement on historical floods between agencies**	Paper and Discussion	Terry Malone
4	**Other Business**	General discussion	All
	MEETING CLOSURE		

PROPOSED FLOOD EVENT COMMUNICATION PROTOCOL

Mobilisation:

1. Seqwater will contact Bureau of Meteorology (BOM), Somerset Regional Council (SRC), Ipswich City Council (ICC), Moreton Bay Regional Council (MBRC) and Brisbane City Council (BCC), Disaster Management Duty Officer, by phone when the Flood Operations Centre (FOC) is mobilised. The contact information used for these communications will be as contained in the Dam Emergency Action Plans (EAPs). (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. Similar arrangements are in place at all Councils.) ↑ Internal procedures.

2. Seqwater will not contact ICC or BCC Councils further during the event unless releases are expected from Wivenhoe, **however any Council can contact the FOC at any time during the event to request information as the FOC will be staffed on a 24 hour basis for the duration of the event.**

3. Seqwater will contact SRC if the expected flood impact is limited to areas upstream of Wivenhoe. - Back-up water from Somerset.

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 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. The contact details used will be as contained in the dam EAPs. In the event of email failure, contact will be by phone.

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. – daily

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. – twice daily

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.

seqwater
WATER FOR LIFE

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
4	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				

BOM
22/10/2010?

"JMC - 8"

Australian Government
Bureau of Meteorology

Issues for discussion (1)

Location	Min	Mod	Maj
Mt Crosby	11	13	21
Ipswich	7	9	11.7
Moggill	10	13	15.5
Jindalee	6	8	10
Brisbane City	1.7	2.6	3.5

- Warning procedures (see handout)
  - Prediction thresholds & lead times
  - Flood classifications (min/mod/maj)
- Discussions (technical arena)
  - Seqwater-BoM
    - Predicted flows (u/s & d/s of WD)
    - Forecast rain
  - BCC-BoM
    - Predicted heights for public
    - Messages in Warnings
- Discussions (disaster management arena)
- Boundaries in discussions
  - internal technical (eg scenarios & long-term)
  - external disaster mgt (planning scenarios?)
  - public (specific information)
- Content & updating of warnings
  - public predictions & leadtimes/timing
  - Seqwater & Council statements
  - advising 'nothing' expected
  - updates by BoM at any time

Water Information

Australian Government
Bureau of Meteorology

Issues for discussion (2)

- Restricted use of BOM registered user model results (a critical issue)
- Consistent stage-flow ratings
  - language of gauge heights
- Predictions at variance from models
  - handling uncertainty & "safety" margins
  - ultimate responsibility/ownership & use of predictions
- Brisbane City gauge (& others)
  - ALERT vs TM vs manual
  - manual check readings

Water Information

Australian Government
Bureau of Meteorology

BRISBANE & BREMER RIVER BASIN

WARNING PROCEDURES

These procedures provide a general guide for the issue of warnings for the Brisbane and Bremer River Basin, which includes the Stanley River, Upper Brisbane River, Lockyer Creek, Bremer River, Warrill Creek and lower Brisbane River.

WARNING RESPONSIBILITIES

Bureau of Meteorology: Issue of Flood Warnings including predicted river heights for Ipswich, Moggill, Jindalee and Brisbane City in consultation with the South East Queensland Water (Seqwater), Brisbane City Council and Ipswich City Council, and with other Local Governments as required.

Seqwater: Information to the Bureau and other agencies on the status of dams and actual and projected releases from Wivenhoe Dam and Somerset Dam. Consultation with the Bureau regarding expected flood heights along the Brisbane River downstream of Wivenhoe Dam.

Local Government (in particular Brisbane & Ipswich City Councils): Detailed flood level information to their respective communities, including the interpretation of river height forecasts into expected areas and depths of inundation.

INITIAL WARNING CRITERIA

* Isolated occurrences of minor flooding in headwaters or tributaries may be covered by a note in Flood Warning Summary.

* Flood Warnings are to be issued whenever any key river height station is expected to exceed, or exceeds, the moderate flood level in the upper catchment and tributaries, or minor flood level in lower areas around Brisbane and Ipswich Cities.

* River Height Bulletins are issued automatically upon receipt of river height reports exceeding a first report or threshold level. These Bulletins are faxed/emailed every 3 hours (eg following reports at 3am, 6am, 9am) whicl water levels remain above thresholds. The threshold height is generally below minor flood level.

FLOOD WARNING CONTENT

* Warning heading should reference the Stanley River, Upper Brisbane River, Lockyer Creek, Bremer River, Warrill Creek and Lower Brisbane River as appropriate.

* Warning text should reference, as appropriate:

. Information supplied by Seqwater regarding actual and projected discharges from Wivenhoe Dam. Detailed information regarding Somerset Dam is not normally required.

. Flood Information Centre contact numbers for Brisbane and Ipswich City Councils, and other Local Governments as appropriate. Consultation with the Local Government is required prior to inclusion of this information in Flood Warnings.

. Refer to sample warnings which follow.

ACTIONS TO BE IMPLEMENTED UPON ISSUE OF WARNINGS

Initial Warning:

* Advise Duty Meteorologist to include in the Weather District Forecast and Warnings Summary.

* If outside normal business hours, advise the SDCC Duty Officer.

* Advise the Seqwater, Brisbane City Council, Ipswich City Council and other Local Governments as necessary, according to the location and circumstances of the expected flooding.

Renewal of Warnings:

* Consult with the above agencies on a regular basis, including whenever river height predictions are being revised, and when circumstances change unexpectedly.

RE-ISSUE OF WARNINGS

*At the onset of floods when tributaries and main rivers are rising quickly, Warnings should generally be issued every 3 hours based on the standard reporting times of 0600, 0900, 1200, 1500, 1800, and 2100.

* If possible, Warnings should be issued within one hour of the reporting time, but this may depend on the timing of consultations and other briefings (eg

disaster tele-conferences)..

* When the situation has stabilised, Warnings may be issued less frequently, generally based on the following:

Minor flooding	approx daily or 12 hourly, or 1 to 2 issues per day
Moderate flooding	approx 6 hourly, or 3 to 4 issues per day
Major flooding	approx 3 to 6 hourly, or 4 to 6 issues per day

* Warnings may be issued less frequently than these intervals after flood peaks have occurred at forecast locations.

* A Final Warning should be issued when all river heights are falling, approaching minor flood level and no further heavy rainfall or flooding is expected.

RIVER HEIGHT PREDICTIONS & LOCATIONS IN WARNINGS

* Only qualitative warnings (described in terms of minor, moderate and major flooding) are generally issued for the Stanley and Upper Brisbane Rivers, Lockyer Creek and for the upper reaches of the Bremer River and Warrill Creek.

* Quantitative river height predictions, which may be either rising limb, peak height or falling limb forecasts, should be included in Warnings for at least the following locations:

Location	Prediction Type	Threshold (m)	Target Lead Time	
			Minimum (hrs)	Maximum (hrs)
Ipswich	Quantitative	7.0	6	24
Moggill	Quantitative	6.0	6	24
Jindalee	Quantitative	see below	12	24
Brisbane	Quantitative	2.0	12	24

***Bremer River at Ipswich:** The objective is to provide 24 hours warning of rising and peak heights above 7.0 metres AHD, in conjunction with Ipswich City Council. This is generally only possible for Brisbane River backwater flooding. For a Bremer River flood, predictions for Ipswich will generally be limited to a lead-time of 6 to 12 hours. It is necessary to also consult Seqwater regarding observed and predicted releases from Wivenhoe Dam and their river height predictions.

***Lower Brisbane River**: The objective is to provide 24 hour advance warning of the whole hydrograph above 2.0m AHD at the Brisbane City Gauge, in

consultation with Brisbane City Council. For Moggill and Jindalee, forecasts of the whole hydrograph are given in conjunction with the Brisbane City Gauge forecasts. It is necessary to also consult Seqwater regarding observed and predicted releases from Wivenhoe Dam and their river height predictions.

For large upper Brisbane floods, the Bureau will also derive best estimates of the hydrograph to 48 hours ahead based on projected Wivenhoe Dam releases, but these are for discussion and planning purposes only between the Bureau, City Councils and Seqwater, and are not issued to the public.

NOTES

* The Duty Engineer should consult whenever possible with the appropriate Councils prior to the issuing or updating of river height predictions for the above locations.

* **The Bureau, Seqwater and Local Governments are to ensure that conflicting predictions and information are 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.

* Both the Bureau and Seqwater will be operating real-time flood catchment models during events. It will be important to ensure that the ALERT river height stations are correctly calibrated, and to compare (in discussions etc) the respective model outputs.

* River height predictions may be given in the Warnings for other locations according to the circumstances. However, predictions are not to be given for other locations (other than Jindalee) between Moggill and the Brisbane River mouth as this is the responsibility of Brisbane City Council. Similarly, predictions for locations in the Ipswich City reaches of the Bremer River are not given publicly by the Bureau. The Bureau may, however, provide telephone advice to Council officials regarding expected heights at additional sites where possible.

* The Bureau's RFC issues quantitative rainfall forecasts (QPFs) for the catchments of the Somerset, Wivenhoe & North Pine Dams to the SEQWater headworks operator. These are issued twice daily at 1000 and 1500. Check these for consistency with weather forecasts and forecast rainfall statements in the Flood Warnings.

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Australian Government
Bureau of Meteorology

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* Flood Warnings are available on the Bureau's recorded telephone services.

*Notes from meeting with BCC/Seqwater/BoM on 29 Oct 2010. See next page.

- Notes from meeting with BCC/Seqwater/BoM on 29 Oct 2010.

BoM Communication Triggers

1. Forecasts & warnings (including flood warnings for Brisbane River basin) sent to all agencies to their specified contact points (email, fax etc). 24x7 service.
2. BoM available 24x7 for telephone enquiries from Seqwater, BCC, ICC etc. Initial contact may be with Duty (weather) Forecaster if Flood Warning Centre (FWC) not activated/staffed.
3. Email to Seqwater and BCC when Brisbane flood model results are posted to the registered website. (new)
4. Contact with Seqwater FOC (phone/email) for actual/projected WD releases, for use in Brisbane R flood model. Use of latest available emailed release advice in modelling.
5. If possible, direct telephone contact with BCC FIC Hydrologists if minor flood levels reached, or are expected to be reached, at Moggill (10m), Jindalee (6m) or Brisbane City (1.7m). (Current thresholds in brackets.)
6. Continued technical discussions prior to including predicted heights for Brisbane City (and Jindalee/Moggill) in warning. Threshold for publishing predicted height in warning is currently 2m at Brisbane City (which is equivalent to about 2000-2500 m3/s on a spring high tide).
7. Continued technical discussions prior to disaster management teleconferences aimed at agreed technical advice on flood predictions, and especially, longer-term projections/scenarios.
8. Request that all agency (including BCC) flood-related advices to public to be simultaneously copied to flood.qld@bom.gov.au.

Flood Classifications

1. Flood classifications are not "owned" by the Bureau.
2. Council(s) to advise any changes required, including for creeks.
3. Criteria is linked to impacts/consequences. See generic descriptions.
4. Currently:

Location	Min	Mod	Maj	Approximate flow for commencement of Minor
Mt Crosby	11	13	21	1300 m3/s (too low?, crossing is at 12.35 metres)
Ipswich	7	9	11.7	700 m3/s for no Moggill backwater
Moggill	10	13	15.5	3800 m3/s
Jindalee	6	8	10	4000 m3/s
Brisbane City	1.7	2.6	3.5	1500 m3/s with Highest Astronomical Tide

Predicted Heights

- Examples for discussion:

Example 1:

Brisbane City	Reach 2.1 metres around high tide at 8pm Friday. Higher levels expected on Saturday's high tides. *(none given for Moggill or Jindalee – well below threshold)*

Example 2:

Moggill	Reach 7 metres by 3pm Friday.
Jindalee	Reach 4.5 metres around high tide at 9pm Friday
Brisbane City	Reach 2 metres around high tide at 9am Saturday

Higher levels will be reached in the Brisbane River during the weekend.

Example 3:

Moggill	Reach about 14 metres by 9pm Saturday.
Jindalee	Reach about 8.5 metres by 3am Sunday
Brisbane City	Reach about 3.5 metres around high tide at midday Sunday

Rain is continuing and higher levels are expected later in the weekend and during next week.

(Note that there may be a second prediction for Brisbane City for the following high tide.)

Example 4:

Moggill	Reach about 14 metres by 9pm Saturday.
Jindalee	Reach about 8.5 metres by 3am Sunday
Brisbane City	Reach about 3.5 metres around high tide at midday Sunday Reach about 4.0 metres around high tide at midnight Sunday

Rain is continuing and higher levels are expected later in the weekend and during next week.

SAMPLE FLOOD WARNINGS

Note that the proformas for the Brisbane-Bremer River basin are currently as follows:
Stanley River & Brisbane River above Wivenhoe Dam
Lockyer, Bremer, Warrill & Brisbane River below Wivenhoe Dam

Some of the samples below preceded this division, but should be useful as a guide to the content of the warnings.

RENEWAL OF FLOOD WARNING FOR WARRILL CREEK AND BREMER RIVER
Issued at 12.55 pm on Friday , 03/05/96
by the Bureau of Meteorology, Brisbane.

Flood levels are rising quickly on the Bremer River at Rosewood and Walloon causing major flooding. Walloon will continue rising for at least the next 6 hours.

Warrill Creek at Amberley is expected to rise slowly during this afternoon. Flood levels of 6.5 to 7 metres will be maintained into this evening at Amberley.

The combined runoff from the Bremer River and Warrill Creek will continued river rises this afternoon and evening in the Bremer River below their junction at Amberley.

The Bremer River at the David Trumpy Bridge at Ipswich is predicted to reach about 11.5 metres later today or this evening causing moderate flooding. Further rises are possible at Ipswich overnight.

Rainfalls of 20 to 40 millimetres have fallen over most of the catchment areas during the past 6 hours. Further rain is forecast.

For information on flooding in the Ipswich area, Ipswich residents can contact the Ipswich City Council on telephone 3810 6665.

Latest River Heights include:

Warrill Creek at Kalbar	7.20 m rising at 8am
Warrill Creek at Harrisville	5.71 m rising at noon
Warrill Creek at Amberley	6.50 m rising slowly at noon
Western Creek at Kuss Road	7.80 m rising at 6am
Bremer River at Rosewood	6.20 m steady at noon
Bremer River at Walloon	8.20 m rising at noon

Bremer River at David Trumpy Bridge 9.23 m rising at 12-50pm

The next warning will be issued at about 4 pm Friday.

RENEWAL OF FLOOD WARNING FOR THE UPPER BRISBANE RIVER, LOCKYER CREEK AND THE BRISBANE RIVER BELOW MT CROSBY
Issued at 1.00 pm on Sunday , 05/05/96
by the Bureau of Meteorology, Brisbane.

Upper Brisbane above Wivenhoe Dam :

The Brisbane River at Gregor Creek has continued to fall during today causing minor flooding. No releases are expected from Wivenhoe Dam.

Lockyer/Laidley Creeks :

Renewed rises in the lower Lockyer around Glenore Grove and Lyons Bridge are causing major flooding at levels higher than on Friday and Saturday. Flood levels in this area are expected to be maintained today. Stream levels are also rising in Laidley Creek at Thornton and Mulgowie.

At 9am, the Lockyer Creek at Glenore Grove peaked at 14.29 metres. Lyons Bridge also peaked at 16.44 metres at 9am.

Rainfalls in the last 6 hours have generally been less than 10 millimetres in the last 6 hours. Further rain is forecast.

Brisbane River Wivenhoe to Mt Crosby :

The floodwaters from Lockyer Creek are causing river rises and minor flooding to develop in the Brisbane River at Lowood. River levels are expected to peak at Lowood and Savages Crossing during this afternoon and this evening. Minor to moderate flooding will continue between Lowood and Mt Crosby today and overnight.

The Mt Crosby weir overbridge will remain closed to traffic for the next 2 to 3 days.

Brisbane River below Mt Crosby :

The Brisbane River at Moggill is 6.90 metres rising at noon. It is expected to continue to rise to 8 metres tonight. (This is below the minor flood level of 10 metres at Moggill.)

Higher than normal water levels will occur in the Brisbane River below Moggill to the City reaches during the next 48 hours, particularly with the high tides at around midnight tonight and midnight Monday night.

The Brisbane River at the Brisbane City Gauge is expected to reach about 2.2 metres on the high tide tonight. This level is about 10 centimetres higher than Saturday night's level in the Brisbane City area. A similar level will be reached on Monday night.

Residents in low lying areas affected by the tide should closely monitor the rising tide during tonight and again on Monday night, and shift property as necessary.

Latest River heights include :

Laidley Creek at Mulgowie	8.86 m rising at noon
Laidley Creek at the Showgrounds	8.20 m falling at noon
Lockyer Creek at Glenore Grove	14.22 m falling slowly at noon
Lockyer Creek at Lyons Bridge	16.43 m steady near peak at noon
Brisbane River at Lowood	12.10 m rising at noon
Brisbane River at Savages Xing	12.35 m rising at noon
Brisbane River at Mt Crosby	14.10 m steady at noon
Brisbane River at Moggill	6.90 m rising at noon

The next warning will be issued at about 5pm Sunday.

(http://www.bom.gov.au/hydro/flood/qld/networks/sections.html / /fld_reports/ brisbane_jan1974.pdf (kmz))

Event		143035a	Adopted Mid Brisbane Q	Rec H					
				143828	143907	143001c	143856	143864	143916
	Wivenhoe Release	Wivenhoe TW		Lowood PS	Lowood	Savages Crossing	Burtons Br	Kholo Br	Mt Crosby Weir
AMTD (km)	150.0	149.5	km	140.5	140.4	130.8			90.2
GZ		0.00 AHD		23.074 AHD	23.683 AHD	18.430 AHD	15.06 AHD		0.00 AHD
CTF (m)		26.65							
18900306					22.05				26.53
18930129			14500		26.39				32.00
18930215									
18930606									
18960208									
18980107					20.80				
18980303					17.93				
19080312					16.30				
19280416					16.08				
19310129			6100		18.44				21.78
19470122									
19550325			4600		18.14				20.72
19590210									
19650718									
19670317									
19670607									
19680107			3370		14.53	16.12			17.26
19710216									
19711226									
19720201									
19730705									
19740124			8000		22.02	23.79			26.74
19760119									
19760209									
19811031									
19820301									
19830620									
19880401									
19880701									
19890331	1621	35.80	1500	10.34	9.70	10.75			11.70
19890423	1490	35.00	1510	10.28	9.60	10.60			11.48
19910205									
19911210									
19920314		32.97							
19960430			2010		12.38	12.68			14.10
19990207	1804	36.54	1790	10.87	10.45	11.21			12.06
19991107									
20010130	291	29.00	540			5.50			8.55
20040201									
20040304									
20080201									
20081116									
20090401									
20090410									
20090518									
20100226									
20101006	1494	36.06	1660	9.99		10.59			11.38

Event	Adopted Lower Brisbane Q	Rec H		
		143915	143982	143919
		Mogill	Jindalee	Brisbane
AMTD	km	*73.0*	*52.8*	*26.3*
GZ	m AHD	0.000 AHD	0.000 AHD	0.000 AHD
18900306				5.33
18930129	14500	24.50	17.90	8.35
18930215		23.60	16.60	8.09
18930606				3.63
18960208				
18980107			11.70	5.02
18980303				3.27
19080312		14.00	9.30	3.35
19280416				2.15
19310129	6500	15.40	9.60	3.32
19470122				
19550325	5100	13.70	7.30	2.36
19590210				
19650718				
19670317				
19670607				
19680107	3860	11.13	6.20	1.97
19710216				
19711226				
19720201				
19730705				
19740124	9500	19.95	14.10	5.45
19760119				
19760209				
19811031				
19820301				
19830620	2100	5.26		
19880401				
19880701				
19890331	1680	3.73		
19890423	2100	4.00		
19910205				
19911210				
19920314				
19960430	3100	7.10	4.55	2.00
19990207	1720	3.50	2.00	1.40
19991107				
20010130	540			
20040201				
20040304				
20080201				
20081116				
20090401				
20090410				
20090518				
20100226				
20101006	1467			

Situation Report 1500 06/02/2011

From: [redacted]
To:

Cc:

Date: Thu, 06 Jan 2011 14:54:07 +1000

Rainfall

In the 6 hours since 9am Wednesday, there have been general totals around 30mm with isolated heavy falls up to 60mm in the Somerset and Wivenhoe catchments. Totals in the North Pine catchment have generally been between 20 and 30mm. Falls between 20 and 30mm were recorded in the Leslie Harrison catchment.

The forecast for the next 24 to 48 hours is for totals up to 100mm in SE Qld.

The catchments remain wet and are likely to generate additional runoff in the event of rain.

North Pine Dam

At 1400 Thursday, North Pine Dam was 39.66m, 0.01m above gate trigger level. Gate operations will commence at 1900 Thursday and will impact upon Youngs Crossing. MBRC have been advised and will confirm closure of Youngs Crossing prior to gate operations. Given the forecast rainfall during Friday, gate operations may continue into Saturday.

Somerset Dam

At 0700 Thursday, Somerset Dam was 99.34m, 0.34m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck, adding to the Somerset inflows. Further regulator/sluice operations will be required in the next 24 to 48 hours. The estimated event inflow volume into Somerset Dam is 50,000ML.

Wivenhoe Dam

At 0700 Thursday, Wivenhoe Dam was 6731m and rising slowly. This is 0.31m above FSL and above the gate trigger level of 67.25m. There have been rises recorded at rivers and stream upstream of Wivenhoe Dam. The estimated event inflow volume into Wivenhoe Dam is 180,000ML including Somerset Dam outflow.

There has been significant rainfalls in the Lockyer Ck catchment since 0900 Thursday and a peak of about 600m3/s is expected from the Lockyer late Friday. Wivenhoe gates will be opened after flood levels in the lower Lockyer subside. At this stage Wivenhoe releases during Saturday may be as high as 1,500m3/s and continue for a couple of days.

Impacts of Wivenhoe Dam Releases

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the potential for gate operations during the next 24 hours.

The will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days. The relatively high Lockyer flows will at least impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days and may impact upon Burtons Bridge early Saturday. At this stage, there are not expected to be any adverse impacts upon Fernvale Bridge or Mt Crosby Weir Bridge.

Leslie Harrison Dam

Following the heavy rainfall Wednesday night, gate operations commenced at Leslie Harrison Dam late Wednesday night and are continuing. Given the forecast rainfall, gate operations are expected to continue for the next 24 to 48 hours.

The next situation report will be issued at 1800 Thursday 6/1/2011.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 1800 06/01/2011

From: [redacted]
To:

Date: Thu, 06 Jan 2011 17:33:02 +1000

Rainfall

In the 8 hours since 9am Wednesday, there have been general totals around 30mm with isolated heavy falls up to 60mm in the Somerset and Wivenhoe catchments. There have been significant rainfalls in the Lockyer Ck catchment in the last 24 hours with widespread falls of 50mm and isolated falls up to 75mm. Totals in the North Pine catchment have generally been about 30mm. Falls between 20 and 30mm were recorded in the Leslie Harrison catchment.

The forecast for the next 24 to 48 hours is for totals up to 100mm in SE Qld.

North Pine Dam

At 1700 Thursday, North Pine Dam was 39.68m, 0.03m above gate trigger level. Gate operations will commence at 1900 Thursday and will impact upon Youngs Crossing. Moreton Bay Regional Council has

been advised and will confirm closure of Youngs Crossing prior to gate operations. Given the forecast rainfall during Friday, gate operations may continue into Saturday.

Somerset Dam

At 1700 Thursday, Somerset Dam was 9945m, 0.45m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the upper Stanley but there have been significant rises in Kilcoy Ck, adding to the Somerset inflows. Further regulator/sluice operations will be required in the next 24 to 48 hours. The estimated event inflow volume into Somerset Dam is 50,000ML.

Wivenhoe Dam

At 1700 Thursday, Wivenhoe Dam was 6739m and rising slowly. This is 0.39m above FSL and above the gate trigger level of 67.25m. Upstream of the dam river levels are still rising at the Linville and Gregors Ck gauges. The estimated event inflow volume into Wivenhoe Dam is 180,000ML including Somerset Dam outflow.

A peak of about 600m3/s is expected from the Lockyer late Friday. At this stage there is some uncertainty associated with this estimate and it may or may not impact Burtons Bridge. Wivenhoe gates will be opened after the impact of Lockyer flows on Burtons Bridge has been ascertained and flood levels in the lower Lockyer subside. At this stage Wivenhoe releases will commence late Friday/early Saturday and may be as high as 1,500m3/s, similar to recent events, and continue for a couple of days.

Impacts of Downstream of Wivenhoe

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the potential for gate operations during the next 24 hours.

The relatively high Lockyer flows will adversely impact upon Twin Bridges, Savages Crossing, Kholo Bridge and Colleges Crossing for several days and may impact upon Burtons Bridge early Saturday. At

this stage, there are not expected to be any adverse impacts upon Fernvale Bridge or Mt Crosby Weir Bridge.

Leslie Harrison Dam

Following the heavy rainfall Wednesday night, gate operations commenced at Leslie Harrison Dam late Wednesday night and are continuing. Given the forecast rainfall, gate operations are expected to continue for the next 24 to 48 hours.

The next situation report will be issued at 0600 Friday 7/1/2011.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 06:00 on Friday 7 January 2011

From: [redacted]
To: [redacted]
Cc: [redacted]
Date: Fri, 07 Jan 2011 06:06:32 +1000

Rainfall

There have been general totals around 30 to 50 mm with isolated heavy falls up to 75mm in the Somerset and Wivenhoe catchments since the event commenced on Wednesday 5 January 2011. There have been significant rainfalls in the Lockyer Ck catchment in the last 72 hours with widespread falls of 50mm and isolated falls up to 100mm.

Totals in the North Pine catchment have generally been about 35mm.

Falls between 20 and 30mm were recorded in the Leslie Harrison catchment.

The forecast for the next five days is for totals between 100 and 200mm in SE Qld. Given the saturated condition of the catchments further runoff will most likely be generated from this rainfall.

North Pine Dam

At 0600 Friday, North Pine Dam was at 39.48m, 0.12m below FSL. Gate operations commenced at 1915 on Thursday 6 January and are expected to continue until at least mid-day Friday 7 January when North Pine Dam is expected to be at 39.40m. These releases have impacted upon Youngs Crossing. Moreton Bay Regional Council was advised and they closed Youngs Crossing prior to gate operations commencing. Based upon the forecast rainfall, gate operations may continue into Saturday, but at this stage it is anticipated that gate operations will cease at around mid-day on Friday 7 January 2011.

Somerset Dam

At 0600 Friday, Somerset Dam was at 99.59m, 0.59m above FSL, and rising slowly. The rain in the Stanley River catchment has produced a small amount of runoff in the Upper Stanley but there have been significant rises in Kilcoy Creek, contributing to the Somerset inflows. Somerset Dam is currently releasing at a rate of 35 cumecs and further regulator/sluice operations will be required in the next 24 to 72 hours.

The estimated event inflow volume into Somerset Dam is around 50,000ML.

Wivenhoe Dam

At 0600 Friday, Wivenhoe Dam was at 67.64m and rising slowly. This is 0.64m above FSL and above the gate trigger level of 67.25m. Upstream of the dam river levels have peaked at the Linville and Gregors Ck gauges. The estimated event inflow volume into Wivenhoe Dam is 230,000ML including Somerset Dam outflow.

A peak of about 470 cumecs is expected from Lockyer Creek by mid-afternoon on Friday 7 January. At this stage there is some uncertainty associated with this estimate but it may be of sufficient magnitude to inundate Burtons Bridge.

Wivenhoe gate releases will occur after the impact of Lockyer flows on Burtons Bridge has been ascertained and flood levels in the lower Lockyer subside. It is proposed that Wivenhoe releases will commence late Friday/early Saturday and may be as high as 1,200 cumecs, (similar but slightly smaller to recent events), and the releases are expected to continue over the weekend though to Monday or Tuesday.

Impacts of Downstream of Wivenhoe

Somerset Regional Council, Ipswich City Council and Brisbane City Council have been advised of the potential for gate operations during the next 24 hours.

The relatively high Lockyer flows will adversely impact upon Twin Bridges, Savages Crossing, and Colleges Crossing for several days and may impact upon Burtons Bridge from Friday mid-day and Kholo Bridge later on Friday evening. At this stage, there are not expected to be any adverse impacts upon Fernvale Bridge or Mt Crosby Weir Bridge.

Leslie Harrison Dam

Following the heavy rainfall Wednesday night, gate operations commenced at Leslie Harrison Dam late Wednesday night and are continuing. Given the forecast rainfall, gate operations are expected to continue for the next 24 to 48 hours.

The next situation report will be issued at 1800 Friday 7 January 2011.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Rachael Lindsay - Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: 7 January 2011 10:23:31 am
Subject: Actual and Projected Wivenhoe Releases

Please note that Wivenhoe releases will commence at 1500 Friday and be slowly increased to about 1,200 m3/s by 1400 Saturday. It will initially be held around this level until Sunday morning at which time the release strategy will be reviewed and be dependent upon further rainfall.

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
02/01/2011 20:00:00	50	Actual
02/01/2011 21:00:00	50	Actual
02/01/2011 22:00:00	50	Actual
02/01/2011 23:00:00	50	Actual
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual

BCC.009.9028

03/01/2011 15:00:00	50	Actual
03/01/2011 16:00:00	50	Actual
03/01/2011 17:00:00	50	Actual
03/01/2011 18:00:00	50	Actual
03/01/2011 19:00:00	50	Actual
03/01/2011 20:00:00	50	Actual
03/01/2011 21:00:00	50	Actual
03/01/2011 22:00:00	50	Actual
03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
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04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
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05/01/2011 15:00:00	50	Actual

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05/01/2011 21:00:00	50	Actual
05/01/2011 22:00:00	50	Actual
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06/01/2011 00:00:00	50	Actual
06/01/2011 01:00:00	50	Actual
06/01/2011 02:00:00	50	Actual
06/01/2011 03:00:00	50	Actual
06/01/2011 04:00:00	50	Actual
06/01/2011 05:00:00	50	Actual
06/01/2011 06:00:00	50	Actual
06/01/2011 07:00:00	50	Actual
06/01/2011 08:00:00	50	Actual
06/01/2011 09:00:00	50	Actual
06/01/2011 10:00:00	50	Actual
06/01/2011 11:00:00	50	Actual
06/01/2011 12:00:00	50	Actual
06/01/2011 13:00:00	50	Actual
06/01/2011 14:00:00	50	Actual
06/01/2011 15:00:00	50	Actual
06/01/2011 16:00:00	50	Actual
06/01/2011 17:00:00	50	Actual
06/01/2011 18:00:00	50	Actual
06/01/2011 19:00:00	50	Actual
06/01/2011 20:00:00	50	Actual
06/01/2011 21:00:00	50	Actual
06/01/2011 22:00:00	50	Actual
06/01/2011 23:00:00	50	Actual
07/01/2011 00:00:00	50	Actual
07/01/2011 01:00:00	50	Actual
07/01/2011 02:00:00	50	Actual
07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
07/01/2011 05:00:00	50	Actual
07/01/2011 06:00:00	50	Actual
07/01/2011 07:00:00	50	Actual
07/01/2011 08:00:00	50	Actual
07/01/2011 09:00:00	50	Actual
07/01/2011 10:00:00	50	Actual
07/01/2011 11:00:00	50	Projected
07/01/2011 12:00:00	50	Projected
07/01/2011 13:00:00	50	Projected
07/01/2011 14:00:00	50	Projected
07/01/2011 15:00:00	101	Projected
07/01/2011 16:00:00	153	Projected

07/01/2011 17:00:00	204	Projected
07/01/2011 18:00:00	254	Projected
07/01/2011 19:00:00	303	Projected
07/01/2011 20:00:00	352	Projected
07/01/2011 21:00:00	398	Projected
07/01/2011 22:00:00	450	Projected
07/01/2011 23:00:00	465	Projected
08/01/2011 00:00:00	510	Projected
08/01/2011 01:00:00	562	Projected
08/01/2011 02:00:00	614	Projected
08/01/2011 03:00:00	665	Projected
08/01/2011 04:00:00	717	Projected
08/01/2011 05:00:00	767	Projected
08/01/2011 06:00:00	818	Projected
08/01/2011 07:00:00	869	Projected
08/01/2011 08:00:00	921	Projected
08/01/2011 09:00:00	970	Projected
08/01/2011 10:00:00	1020	Projected
08/01/2011 11:00:00	1070	Projected
08/01/2011 12:00:00	1121	Projected
08/01/2011 13:00:00	1169	Projected
08/01/2011 14:00:00	1217	Projected
08/01/2011 15:00:00	1216	Projected
08/01/2011 16:00:00	1215	Projected
08/01/2011 17:00:00	1214	Projected
08/01/2011 18:00:00	1212	Projected
08/01/2011 19:00:00	1211	Projected
08/01/2011 20:00:00	1210	Projected
08/01/2011 21:00:00	1209	Projected
08/01/2011 22:00:00	1208	Projected
08/01/2011 23:00:00	1207	Projected
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09/01/2011 02:00:00	1203	Projected
09/01/2011 03:00:00	1202	Projected
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09/01/2011 08:00:00	1194	Projected
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09/01/2011 15:00:00	1036	Projected
09/01/2011 16:00:00	985	Projected

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09/01/2011 22:00:00	685	Projected
09/01/2011 23:00:00	635	Projected
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Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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Impact of Wivenhoe Releases on water levels in the Lower Brisbane River

From: [redacted]
To:
Cc:
Date: Fri, 07 Jan 2011 15:09:01 +1000

Conversations have just taken place between BCC, Seqwater and BoM re impact of flows in the lower Brisbane R

Seqwater and BoM concur that a flow of a 1,500m3/s in the lower Brisbane R will only add about 50mm to the expected water levels in the City Reach on the recorded high tides. This has been demonstrated by a comparison of the recorded water levels at Whyte Is and Brisbane City gauges during periods of no flow and periods of higher flows in the last few months.

However, it should be noted that this impact varies during the tidal cycle and is more pronounced on the low tide level that the high tide level.

It is recognized that current recorded high tide levels are 0.4 to 0.5 metres higher than predicted tides due to atmospheric conditions.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone: [redacted]

Fax: [redacted]

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Wivenhoe Operations

From: [redacted]
To:
Cc:
Date: Fri, 07 Jan 2011 15:27:40 +1000

Please be advised that the first gate was opened at Wivenhoe at 1500 Friday 7/1/2011 and more gates will be progressively opened during the next 24 hours.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 1800 Friday 07/01/2011

From: [redacted]
To:

Date: Fri, 07 Jan 2011 17:56:38 +1000

Rainfall

Since 0900 Friday, there has been widespread 20 to 40mm throughout North Pine, Somerset and Wivenhoe catchments with isolated higher totals of 70mm in the upper reaches of the Brisbane R.

Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days.

Saturday:	Rain light at times 15-50mm with higher falls along the coast
Sunday:	Widespread rain with totals between 50-100mm
Monday:	Widespread rain again with totals between 50-100mm
Tuesday:	Rain easing with totals between 25-50mm

Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday

North Pine (Full Supply Level 39.60 m AHD)

At 1700 Friday, North Pine currently has 5 gates open releasing runoff from rain on Wed/Thursday. Given the very high likelihood of significant runoff during the next 4 days, gates will be keep open to match inflows over the next few days, rather than opening and closing at various times with short notice. Youngs Crossing will remain adversely impacted for the duration of the gates being open. Moreton Bay Regional Council has been advised and concurs with this strategy.

Somerset (Full Supply Level 99.00 m AHD)

At 1700 Friday, Somerset Dam level was 100.04m AHD and rising steadily with one regulator open 100%. However, as the Wivenhoe headwater level is rising and may impact upon the operation of the regulator, this will be closed in the next few hours and a sluice gate opened. However, this strategy may need to be reviewed if significant runoff occurs in the Stanley and Upper Brisbane. Under circumstances of high inflows to Somerset and Wivenhoe, it is the usual practice to hold flood water in Somerset until there is a high level of confidence in the estimated inflows to Wivenhoe.

Since the commencement of the event on 02/01/2011, approximately 55,000ML has flowed into Somerset Dam with a further 25,000ML expected based on the recorded rainfall to date. Approximately 16,000ML has been released into Wivenhoe.

Wivenhoe (Full Supply Level 67.00 m AHD)

At 1700 Friday, Wivenhoe Dam was 68.10 m AHD and rising steadily with one gate open to 1.5 metres and releasing about 168m3/s. River levels upstream of Wivenhoe Dam were rising again, generating further inflow to the dam It is intended to ramp up the release from Wivenhoe to about 1,200m3/s during

the next 18 hours. However, given the high likelihood of significant inflows in the next week, this may be increased later on the weekend.

Since the commencement of the event on 02/01/2011, approximately 140,000ML has flowed into Wivenhoe Dam with a further 160,000ML expected (including Somerset release) based on the recorded rainfall to date. Approximately 24,000ML has been released from Wivenhoe via the hydro and regulator at about 50m3/s

Impacts downstream of Wivenhoe

The projected Wivenhoe release of 1,200m3/s combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted for several days. At this stage Fernvale and Mt Crosby Weir Bridge are not expected to be affected.

Discussions were held with Brisbane City Council and BoM with all agencies agreeing that the combined flow in the lower Brisbane R will only add 50mm to an upper limit of 100mm to the recorded water levels in the City Reach of the Brisbane River. However, it is noted that tides in the lower Brisbane R will be 0.4 to 0.5 metres higher than predicted tides

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

Leslie Harrison

Given its proximity to the coast Leslie Harrison is likely to be most impacted by the forecast rain over the next 4 days.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Rachael Lindsay - Situation Report 0600 Saturday 08/01/2011

From: [redacted]
To:

Date: 8 January 2011 6:31:50 am
Subject: Situation Report 0600 Saturday 08/01/2011

Rainfall

Since 0900 Friday, there has been widespread 20 to 40mm throughout North Pine, Somerset and Wivenhoe catchments with isolated higher totals of 70mm in the upper reaches of the Brisbane R. No significant rain has fallen in the past 12 hours.

Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days.

Saturday: Rain light at times 5-50mm with higher falls along the coast

BCC.009.9040

Sunday: Widespread rain with totals between 50-100mm
Monday: Widespread rain again with totals between 50-100mm
Tuesday: Rain easing with totals between 25-50mm

Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday

North Pine (Full Supply Level 39.60 m AHD)

At 0600 Saturday, North Pine Lake Level was 39. 46 m AHD and slowly rising. Currently 3 gates are open to release runoff from rain on Wed/Thursday/Friday. Given the very high likelihood of significant runoff during the next 4 days, gates will be keep open to match inflows over the next few days, rather than opening and closing at various times with short notice. Youngs Crossing will remain adversely impacted for the duration of the gates being open. Moreton Bay Regional Council has been advised and concurs with this strategy.

Somerset (Full Supply Level 99.00 m AHD)

At 0500 Saturday, Somerset Dam level was 100.42m AHD and rising. The Dam is releasing into Wivenhoe through one open sluice gate. Water will be temporarily held in Somerset to allow the inflow from the upper Brisbane is passed through the system. However, this strategy may need to be reviewed if significant runoff occurs in the Stanley and Upper Brisbane. Under circumstances of high inflows to Somerset and Wivenhoe, it is the usual practice to hold flood water in Somerset until there is a high level of confidence in the estimated inflows to Wivenhoe.

Since the commencement of the event on 02/01/2011, approximately 85,000ML has flowed into Somerset Dam with a further 20,000ML expected based on the recorded rainfall to date. Approximately 25,000ML has been released into Wivenhoe.

Wivenhoe (Full Supply Level 67.00 m AHD)

At 0600 Saturday, Wivenhoe Dam was 68.45 m AHD and rising steadily with all five gates open and releasing about 890 m3/s. River levels upstream of Wivenhoe Dam were rising again, generating further inflow to the dam It is intended to ramp up the release from Wivenhoe to 1,200m3/s by midday Saturday 08/01/2011. Further assessments will be undertaken to determine increases above this level. However, given the high likelihood of significant inflows in the next week, this may be increased.

Since the commencement of the event on 02/01/2011, approximately 200,000ML has flowed into Wivenhoe Dam (including Somerset releases) with a further 180,000ML expected based on the recorded rainfall to date. Approximately 50,000ML has been released from Wivenhoe via the hydro and regulator at about 50m3/s.

Impacts downstream of Wivenhoe

The projected Wivenhoe release of 1,200m3/s combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted for several days. At this stage Fernvale and Mt Crosby Weir Bridge are not expected to be affected but they could potentially be affected if the predicted rainfall totals eventuate.

The current available assessments indicate that the combined flow in the lower Brisbane R would only add 50mm to an upper limit of 100mm to the recorded water levels in the City Reach of the Brisbane Rive. However, it is noted that tides in the lower Brisbane R will be 0.4 to 0.5 metres higher than predicted tides

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

John Ruffini
Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 0600 Saturday 08/01/2011

From: [redacted]
To:

Date: Sat, 08 Jan 2011 06:31:59 +1000

Rainfall

Since 0900 Friday, there has been widespread 20 to 40mm throughout North Pine, Somerset and Wivenhoe catchments with isolated higher totals of 70mm in the upper reaches of the Brisbane R. No significant rain has fallen in the past 12 hours.

Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days.

Saturday:	Rain light at times 5-50mm with higher falls along the coast
Sunday:	Widespread rain with totals between 50-100mm
Monday:	Widespread rain again with totals between 50-100mm
Tuesday:	Rain easing with totals between 25-50mm

Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday

North Pine (Full Supply Level 39.60 m AHD)

At 0600 Saturday, North Pine Lake Level was 39. 46 m AHD and slowly rising. Currently 3 gates are open to release runoff from rain on Wed/Thursday/Friday. Given the very high likelihood of significant runoff during the next 4 days, gates will be keep open to match inflows over the next few days, rather than opening and closing at various times with short notice. Youngs Crossing will remain adversely impacted for the duration of the gates being open. Moreton Bay Regional Council has been advised and concurs with this strategy.

Somerset (Full Supply Level 99.00 m AHD)

At 0500 Saturday, Somerset Dam level was 100.42m AHD and rising. The Dam is releasing into Wivenhoe through one open sluice gate. Water will be temporarily held in Somerset to allow the inflow from the upper Brisbane is passed through the system. However, this strategy may need to be reviewed if significant runoff occurs in the Stanley and Upper Brisbane. Under circumstances of high inflows to Somerset and Wivenhoe, it is the usual practice to hold flood water in Somerset until there is a high level of confidence in the estimated inflows to Wivenhoe.

Since the commencement of the event on 02/01/2011, approximately 85,000ML has flowed into Somerset Dam with a further 20,000ML expected based on the recorded rainfall to date. Approximately 25,000ML has been released into Wivenhoe.

Wivenhoe (Full Supply Level 67.00 m AHD)

At 0600 Saturday, Wivenhoe Dam was 68.45 m AHD and rising steadily with all five gates open and releasing about 890 m3/s. River levels upstream of Wivenhoe Dam were rising again, generating further inflow to the dam It is intended to ramp up the release from Wivenhoe to 1,200m3/s by midday Saturday

08/01/2011. Further assessments will be undertaken to determine increases above this level. However, given the high likelihood of significant inflows in the next week, this may be increased.

Since the commencement of the event on 02/01/2011, approximately 200,000ML has flowed into Wivenhoe Dam (including Somerset releases) with a further 180,000ML expected based on the recorded rainfall to date. Approximately 50,000ML has been released from Wivenhoe via the hydro and regulator at about 50m3/s.

Impacts downstream of Wivenhoe

The projected Wivenhoe release of 1,200m3/s combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted for several days. At this stage Fernvale and Mt Crosby Weir Bridge are not expected to be affected but they could potentially be affected if the predicted rainfall totals eventuate.

The current available assessments indicate that the combined flow in the lower Brisbane R would only add 50mm to an upper limit of 100mm to the recorded water levels in the City Reach of the Brisbane Rive. However, it is noted that tides in the lower Brisbane R will be 0.4 to 0.5 metres higher than predicted tides

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

John Ruffini

Duty Engineer

Flood Operations Centre

Phone: [redacted]

Fax: [redacted]

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FOC Status Report at 12:00 on Saturday 8 January 2011

From: [redacted]
To:
Cc:
Date: Sat, 08 Jan 2011 12:15:33 +1000

Rainfall

No significant rain has fallen over the dam catchments in the past 18 hours.

Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days.

Saturday:	Rain light at times 5-50mm with higher falls along the coast
Sunday:	Widespread rain with totals between 50-100mm
Monday:	Widespread rain again with totals between 50-100mm
Tuesday:	Rain easing with totals between 25-50mm

Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday.

North Pine (Full Supply Level 39.60 m AHD)

At 1200 Saturday, North Pine Lake Level was 39.46 m AHD and is steady. Currently 2 gates are open to release runoff generated from rainfall over the last three days. Given the very high likelihood of significant runoff during the next 4 days, gates will be kept open to match inflows over the next few days, rather than opening and closing at various times with short notice. Lake Kurwongbah spillway flows are also contributing to the adverse impacts experienced at Youngs Crossing

Youngs Crossing will remain adversely impacted for the duration of the gates being open.

Moreton Bay Regional Council has been advised and concurs with this strategy.

Somerset (Full Supply Level 99.00 m AHD)

At 1000 Saturday, Somerset Dam level peaked at 100.47m AHD and is now slowly falling. At 1200 it is now 100.45m. Somerset Dam is releasing into Wivenhoe through two open sluice gates and over the fixed crest at a rate of about 415 m3/s.

Since the commencement of the event on 02/01/2011, approximately 91,000ML has flowed into Somerset Dam with a further 20,000ML expected based on the recorded rainfall to date. Approximately 29,000ML has been released into Wivenhoe

Wivenhoe (Full Supply Level 67.00 m AHD)

At 1200 Saturday, Wivenhoe Dam was 68.60 m AHD and rising steadily with all five gates open and releasing about 1,150 m3/s. River levels upstream of Wivenhoe Dam have peaked and are now receding. However the further inflows into the dam has led to elevated levels It is intended to increase the release from Wivenhoe to 1,250 m3/s by 14:00 on Saturday 08/01/2011. This will maintain flows of up to 1,600 m3/s in the mid-Brisbane River throughout the afternoon

Further assessments will be undertaken to determine increases above this level given the high likelihood of significant inflows in the next few days. The interaction with runoff from the Bremer River and Warrill Creek catchment will also be assessed to determine an appropriate release strategy. Projections based upon the forecast rainfalls suggest flows of up to 1,200 m3/s will emanate from the Bremer River catchment.

Since the commencement of the event on 02/01/2011, approximately 202,000ML has flowed into Wivenhoe Dam (including Somerset releases) with a further 210,000ML expected based on the recorded rainfall to date. Approximately 66,000ML has been released from Wivenhoe via the radial gates, hydro and regulator.

Impacts downstream of Wivenhoe

The projected Wivenhoe release of 1,250m3/s and combined with Lockyer flows and local runoff will mean that all low level crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted for several days. At this stage Fernvale and Mt Crosby Weir Bridge are not expected to be affected, but they could potentially be affected if the predicted rainfall totals eventuate and higher releases from Wivenhoe Dam are considered necessary.

The current available assessments indicate that the combined flow in the lower Brisbane River would only add 50mm to an upper limit of 100mm to the recorded water levels in the City Reach of the Brisbane River. However, it is noted that tides in the lower Brisbane R will be 0.4 to 0.5 metres higher than predicted tides. The tide level at the Port Office Gauge at 1200 Saturday was 1.56 m and rising.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Projected Releases - Wivenhoe Dam at 1500 on Saturday 8 January 2011

From: [redacted]
To:

Date: Sat, 08 Jan 2011 14:57:52 +1000

Please find attached a copy of the projected release for Wivenhoe Dam based upon our current strategy. This will be subject to change if the forecast rainfall occurs.

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
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02/01/2011 23:00:00	50	Actual
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
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03/01/2011 19:00:00	50	Actual
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

FOC Situation Report at 18:00 on Saturday 8 January 2011

From: [redacted]
To:

Cc:

Date: Sat, 08 Jan 2011 17:53:25 +1000

Rainfall

Some rain has fallen over the dam catchments in the past 12 hours. Catchment average rainfall for this period for North Pine Dam is 6 mm; Stanley River has received 12 mm; and the Upper Brisbane River 4 mm. This has resulted in minor increases in runoff into Somerset dam.

Advice from BoM indicates that SE Qld can expect further high rainfall totals over the next 4 days.

The forecast for the Somerset-Wivenhoe catchment for the next 24 hours is 30 to 50 mm, whilst North Pine is expected to receive 40 to 60 mm in the next 24 hours

The outlook for the following days are:-

Sunday: Widespread rain with totals between 50-100mm

Monday: Widespread rain again with totals between 50-150mm

Tuesday: Rain easing with totals between 25-50mm

Given the saturated conditions of the catchments, significant inflows to Seqwater dams will be generated, especially following the forecast rainfall on Sunday/Monday.

North Pine (Full Supply Level 39.60 m AHD)

At 1700 Saturday, North Pine Lake Level was 39.47 m AHD and steady. Currently two gates are open to release runoff generated from rainfall over the last three days. Given the very high likelihood of significant runoff during the next 4 days, gates will be kept open to match inflows over the next few days, rather than opening and closing at various times with short notice. Lake Kurwongbah spillway flows are also contributing to the adverse impacts experienced at Youngs Crossing

Youngs Crossing will remain adversely impacted for the duration of the gates being open.

Moreton Bay Regional Council has been advised and concurs with this strategy.

Somerset (Full Supply Level 99.00 m AHD)

Somerset Dam level peaked at 100.47m AHD at 10:00 today and is now slowly falling. At 1700 it is now 100.41m. Somerset Dam is releasing into Wivenhoe through two open sluice gates and over the fixed crest at a rate of about 415 m3/s.

Since the commencement of the event on 02/01/2011, approximately 95,000ML has flowed into Somerset Dam with a further 20,000ML expected based on the recorded rainfall to date. Approximately 38,000ML has been released into Wivenhoe.

Wivenhoe (Full Supply Level 67.00 m AHD)

At 1800 Saturday, Wivenhoe Dam was 68.65 m AHD and rising slowly with all five gates open and releasing about 1,250 m3/s. River levels upstream of Wivenhoe Dam have peaked and are now receding. However the further inflows may result from any additional rainfall. The current gate operation strategy will maintain flows of up to 1,600 m3/s in the mid-Brisbane River throughout the evening.

Since the commencement of the event on 02/01/2011, approximately 227,000ML has flowed into Wivenhoe Dam (including Somerset releases) with a further 200,000ML expected based on the recorded rainfall to date. Approximately 93,000ML has been released from Wivenhoe via the radial gates, hydro and regulator.

Impacts downstream of Wivenhoe

The current Wivenhoe release of 1,250m3/s combined with Lockyer flows and local runoff will mean that all low level crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted for several days (until Wednesday 12 January). At this stage Fernvale and Mt Crosby Weir Bridge are not expected to be affected, but they could potentially be affected if the predicted rainfall totals eventuate and higher releases from Wivenhoe Dam are considered necessary.

The current available assessments indicate that the combined flow in the lower Brisbane River would only add 50mm to an upper limit of 100mm to the recorded water levels in the City Reach of the Brisbane River. However, it is noted that tides in the lower Brisbane R will be 0.4 to 0.5 metres higher than predicted tides. The tide level at the Port Office Gauge at 1700 Saturday was 0.06 m and falling.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

Forecast Scenario – Based upon mid-range rainfall forecasts.

Assessments have been undertaken to determine possible increases to releases given the high likelihood of significant inflows in the next few days. The interaction with runoff from the Bremer River and Warrill Creek catchment is an important consideration as the event magnitude will require the application of Wivenhoe Dam flood operation strategy W2 (Transition strategy between minimizing downstream impacts and maximizing protection to urban areas).

Projections based upon the forecast rainfalls suggest flows of up to 1,200 m3/s will emanate from the Bremer River catchment. If similar rainfall magnitudes occur in the Upper Brisbane and Stanley Rivers then increased releases may be required from both Somerset Dam and Wivenhoe Dam. Preliminary projections suggest that such a forecast will extend the release duration until next Saturday 15 January, but mid-Brisbane River flows will be kept to a maximum of 1,800 m3/s. However, if falls are greater than those forecast releases from Wivenhoe Dam may need to adversely impact Mt Crosby Weir Bridge (1,900 m3/s) and possibly Fernvale Bridge (2,100 m3/s) but will be maintained below 3,500 m3/s.

The assessments will be updated as the event progresses.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 06:00 on Sunday 9 January 2011

From: [redacted]
To: [redacted]
Cc: [redacted]
Date: Sun, 09 Jan 2011 06:15:29 +1000

Rainfall

Catchment average rainfall for the past 12 hours is; North Pine Dam (less than 10 mm); Somerset Dam (40 mm); Wivenhoe Dam (less than 10 mm). The bulk of the rain that has fallen in the Somerset Dam catchment has occurred in the last two hours, with recorded falls exceeding 60mm in some areas. The BOM forecast for the next seven days issued at 0450 this morning is:-

Sunday:	Rain periods.
Monday:	Rain periods.
Tuesday:	Rain periods.
Wednesday	A few showers.
Thursday	A shower or two.
Friday	A shower or two.

Saturday Mostly fine.

A severe whether warning remains current for heavy rainfall in the dam catchment areas. The dam catchments are relatively saturated and significant inflows will be generated if the forecast rainfall eventuates.

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is currently 39.47 m AHD and steady. Two radial gates remain open to release runoff generated from recent rainfall. Based on rainfall forecasts, the radial gates have been kept open in anticipation of further inflows over the next few days. However unless significant rain falls today, consideration will be given to closing the gates late this afternoon or early tomorrow morning and discussions to finalise a decision on the timing of radial gate closure will be held with the Moreton Bay Regional Council later today. Youngs crossing will remain closed while releases are in progress.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is currently falling slowly, with the current level being 100.27m AHD. However the rain that has fallen in the dam catchment over the last two hours (recorded falls exceed 60mm in some areas) will result in significant inflows later today. The current release rate into Wivenhoe Dam is 35,000ML/day. Since the commencement of the event on 02/01/2011approximately 56,000ML has been released from the dam, with a total of at least 150,000ML to be released based on the currently recorded rainfall. The total release for the event is likely to increase significantly over the next few days based on the current rainfall forecasts. At this stage, releases will continue until at least Tuesday.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is currently falling slowly, with the current level being 68.58m AHD. River levels upstream of the dam are receding, however further inflows will result from any additional rainfall. The current gate operation strategy will maintain flows of around 1,600m^3/s in the mid-Brisbane River. The current release rate from Wivenhoe Dam is 116,000ML/day. Since the commencement of the event on 02/01/2011approximately 150,000ML has been released from the dam, with a total of at least 450,000ML

to be released based on the currently recorded rainfall. The total release for the event is likely to increase over the next few days based on the current rainfall forecasts. At this stage, releases will continue until at least Wednesday.

Impacts downstream of Wivenhoe Dam

The current Wivenhoe Dam release combined with Lockyer flows and local runoff will mean that all low level crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted until at least Wednesday 12 January. At this stage Fernvale and Mt Crosby Weir Bridge are not expected to be affected, but this may be revised if the predicted rainfall totals eventuate and higher releases from Wivenhoe Dam are considered necessary.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

John Tibaldi

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Actual and Projected Releases

From: [redacted]
To:

Date: Sun, 09 Jan 2011 08:43:43 +1000

Wivenhoe Dam Actual and Projected Releases
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 1700 Sunday 9/1/2011

From: [redacted]
To:

Cc:
Date: Sun, 09 Jan 2011 17:51:06 +1000

Rainfall

Catchment average rainfall for the past 12 hours is; North Pine Dam (60 mm); Somerset Dam (150 mm); Wivenhoe Dam (80 mm). The bulk of the rain that has fallen in the upper reaches of the Stanley and Brisbane Rivers.

The BOM rainfall forecast for the next few days is:-

Monday:	Very heavy rain periods with totals up to 300mm centred around North Pine.
Tuesday:	Rain periods with totals up to 150mm centred around North Pine.
Wednesday	A few showers less than 10mm
Thursday	A shower or two.

Friday A shower or two.

Saturday Mostly fine.

A severe whether warning remains current for heavy rainfall in the dam catchment areas. The dam catchments are relatively saturated and significant inflows will be generated if the forecast rainfall eventuates.

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is currently 39.65 m AHD and rising at 1600. Following the rain in the 9 hours, the number of open gates has been increased from 2 to 5 which are expected to remain open for the next 12 hours. Youngs Crossing will remain closed while releases are in progress.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 100.75 m AHD and rising quickly. Estimated peak inflow to the dam is about 3,000m3/s. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam will reach at least 101.5 during early Tuesday morning.

Since the commencement of the event on 02/01/2011approximately 80,000ML has been released from the dam, with an event total of at least 320,000ML based on the recorded rainfall to date. The event total is expected to increase significantly due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Wednesday.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is currently rising again, with the current level being 68.70m AHD. Estimated peak inflow to the dam just from the Upper Brisbane R is about 5,000m3/s and, at this stage, the dam will reach at least 72.5 m AHD during Wednesday morning. River levels upstream of the dam are rising quickly with

significant inflow being generated from the intense heavy rainfall. The current gate operation strategy will maintain flows of around 1,600m^3/s in the mid-Brisbane River for the next 24 hours. This may mean temporarily reducing releases from Wivenhoe Dam as Lockyer flows increase. However, releases may have to be increased significantly during Monday depending on the rain in the next 12 to 24 hours. The current release rate from Wivenhoe Dam is 1,400m3/s (120,000ML/day).

Since the commencement of the event on 02/01/2011 approximately 210,000ML has been released from the dam, with an event total approaching 1,000,000ML (including Somerset outflow) based on the recorded rainfall to date. The total release for the event is likely to increase over the next few days based on the current rainfall forecasts. At this stage, releases will continue until at least Saturday 15th January 2011.

Impacts downstream of Wivenhoe Dam

The current Wivenhoe Dam release combined with Lockyer flows and local runoff will mean that all low level crossings downstream of Wivenhoe (Twin Bridges, Savages Crossing, Burtons Bridge, Kholo Bridge and Colleges Crossing) will be adversely impacted until at least Saturday 15 January.

At this stage Fernvale and Mt Crosby Weir Bridge will not be affected for the next 24 hours but there is a strong possibility that, if the predicted rainfall totals eventuate in the next 12 to 24 hours, higher releases from Wivenhoe Dam will be necessary. This may adversely impact upon Fernvale and Mt Crosby Weir Bridges as early as Tuesday morning.

Water levels in the lower Brisbane R will be impacted by the combined flows of Lockyer Ck, Bremer River, local runoff and releases from Wivenhoe Dam.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the Wivenhoe operating strategy.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Actual and Projected Releases

From: [redacted]
To:

Date: Sun, 09 Jan 2011 17:57:07 +1000

Please note that projected releases may change significantly in the next 24 to 48 hours

Wivenhoe Dam Actual and Projected Releases
Source: Seqwater FOC 9/01/2011 17:55

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
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03/01/2011 00:00:00	50	Actual
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03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
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17/01/2011 08:00:00	13	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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WPCL

From:

Michael Bell

Shane Hackett,Media Matters,Greg Swain,Christen Hill,Kylie Jacobson,dm-lmo distribution,dm dutyofficers [redacted],Lisa.M Martin,Emt distribution,CC-[redacted]CC-management & tl team,Robert McGlinn,fic-standby-duty-[redacted]

Date:

9/01/2011 7:13:10 pm

Subject:

SITREP : 0005 - EMERGENT ISSUES (1900HRS) SUN 9 January 2011

(# %

SITREP : 0005 - EMERGENT ISSUES (1900HRS) SUN 9 January 2011

FLOOD INFORMATION CENTRE UPDATE

As at 1845hrs the FIC have advised that the radar is showing light rainfall with patches of moderate rainfall over north Brisbane. However the FloodWise rainfall totals for the last hour show an average of about 3-4mm on the northside with the highest total being 7mm at Cashs Crossing (Pine Rivers Shire).

At the moment the moderate rainfall depicted on the BoM radar is not yet occurring on the ground. The storm band is moving west and mainly crossing over the northside. If we do receive any moderate rainfall overnight, there will likely be localised flash flooding as the creek catchments are fully saturated at present. FloodWise will provide warning of flash flooding for the available Flooded Roads and Area locations. At the moment Trouts Rd (McDowall), Bennetts Rd (The Gap) and Boscombe Rd (Brookfield) are cut on the northside.

The FIC have also contacted the BoM and they have advised that the storm band currently heading west, is likely to shift and move south overnight. If the moderate rainfalls continue as it shifts south towards Brisbane, there will likely be flash flooding across the city. Creek response is likely to be quick due to the catchment saturation. Again, FloodWise will provide warning of flash flooding for the available Flooded Roads and Area locations.

POWERLINK

As at 1800hrs, Powerlink raised concern about one of their 275KV 2 feeder lines on the Brisbane River at Karana Down having its based eroded. An inspection has been completed by Powerlink who indicated that there is no immediate threat, with a more detailed inspection to occur tomorrow.

LDCC

With the risk of further rain overnight, the CEO has activated the LDCC at Level 3 for the purpose of pre-empting/monitoring the weather overnight and forward planning.

DM DUTY OFFICER

Michael Bell.

DUTY OFFICER TELEPHONE NUMBER

[redacted]

Situation Report 2100 9/01/2011

From: [redacted]
To:

Cc:

Date: Sun, 09 Jan 2011 21:03:30 +1000

Rainfall

Very heavy rainfall has been recorded in the upper reaches of the Brisbane and Stanley in the last 6 hours with totals up 100 to 140mm. Totals for the last 24 hours range from 100 to 300mm.

Rainfall of similar magnitudes is expected in the 12 to 24 hours, especially around the Bremer/Warrill catchments as the system tracks south.

A severe weather warning remains current for heavy rainfall in the dam catchment areas.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 101.68 m AHD (about 500,000ML currently in storage) and rising quickly. Peak inflow to the dam is estimated to be about 4,000 m3/s based on observed rainfall and could be as high as 5,000m3/s with additional forecast rainfall. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam will reach at least 103.5 early Tuesday morning which will adversely impact areas around Kilcoy.

Since the commencement of the event on 02/01/2011approximately 100,000ML has been released from the dam into Wivenhoe, with an event total of the order of 520,000ML expected. This may increase due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Thursday.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have already reached 6,700m3/s and the river is still rising.

The dam level is rising again, with the current level being 69.10m AHD (1,410,000ML with about 300,00 of flood storage). Estimated peak inflow to the dam just from the Upper Brisbane R alone may reach as high as 7,500m3/s and, at this stage, the dam will reach at least 73.0 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it will be necessary to increase the release from Wivenhoe Monday morning.

The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m3/s and the combined flows is the lower Brisbane will be limited to 4,000m3/s. This is below the limit of urban damages in the City reaches.

The current release rate from Wivenhoe Dam is 1,400m3/s (120,000ML/day). Gate opening will start to be increased from noon Monday and the release is expected increase to at least 2,600m3/s during Tuesday morning.

Since the commencement of the event on 02/01/2011 approximately 220,000ML has been released from the dam, with an event total approaching 1,000,000ML without further rain and as much as 1,500,000ML with forecast rainfall of (both including Somerset outflow). At this stage, releases will continue until at least Sunday 16th January 2011.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Saturday 15 January in varying degrees.

Water levels in the lower Brisbane R will be impacted by the combined flows of Lockyer Ck, Bremer River, local runoff and releases from Wivenhoe Dam.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the updated Wivenhoe operating strategy.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Sun, 09 Jan 2011 21:07:48 +1000

Wivenhoe Dam Actual and Projected Releases
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

FOC Situation Report at 01:00 hrs on Monday 10 January 2011

From: [redacted]
To:

Cc:

Date: Mon, 10 Jan 2011 01:13:35 +1000

Rainfall

Very heavy rainfall has been recorded in the Upper Brisbane and Stanley Rivers in the last 12 hours with totals up 100 to 240mm. Totals for the last 24 hours range from 100 to 300mm.

Rainfall of similar magnitudes is expected in the 12 to 24 hours around the downstream catchments as the system tracks south.

A severe weather warning remains current for heavy rainfall in the dam catchment areas.

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level was 39.95 m and steady. Five gates are open releasing 445 m3/s. The inflow into the dam since the commencement of the event is 42,000 ML. Estimated event volume is 57,000 ML assuming no further rainfall. Gate operations will continue until at least Tuesday 11 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 102.22 m AHD and rising quickly (storing 157,000 ML above FSL). Peak inflow to the dam is estimated to be about 4,200 m3/s based on observed rainfall and could be as high as 5,000m3/s with additional forecast rainfall. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam will reach at least 103.5 on Monday afternoon which will adversely impact areas around Kilcoy.

Since the commencement of the event on 02/01/2011approximately 115,000ML has been released from the dam into Wivenhoe, with an event total of the order of 520,000ML expected. This is expected to increase due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Thursday.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

River levels upstream of the dam are rising quickly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have already reached 7,350m3/s and the river has just peaked at 23:00 on Sunday 9 January.

The dam level is rising quickly, with the current level being 69.60m AHD (storing 301,000 ML). Estimated peak inflow to the dam just from the Upper Brisbane R alone may reach as high as 8,800m3/s and, at this stage, the dam will reach at least 73.3 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it will be necessary to increase the release from Wivenhoe during Monday morning.

The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m3/s and the combined flows in the lower Brisbane will be limited to 4,000m3/s if possible.

Fernvale Bridge approaches and Mt Crosby Weir Bridge have been inundated and both bridges are now closed or are in the process of being closed.

The current release rate from Wivenhoe Dam is 1,400m3/s (120,000ML/day). Gate opening will start to be increased during early Monday morning and the release is expected to increase to at least 2,600m3/s.

Since the commencement of the event on 02/01/2011 approximately 240,000ML has been released from the dam, with an event total approaching 1,500,000ML without further rain and as much as 2,100,000ML with forecast rainfall of (both including Somerset outflow). At this stage, releases will continue until at least Sunday 16th January 2011.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Saturday 15 January in varying degrees.

Water levels in the lower Brisbane R will be impacted by the combined flows of Lockyer Ck, Bremer River, local runoff and releases from Wivenhoe Dam. If the predicted rainfall eventuates in the downstream tributary catchments the resultant combined flows in the lower Brisbane may exceed the threshold of damaging discharge in the urban areas within the next 24 to 48 hours.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the updated Wivenhoe operating strategy.

Regards

John Ruffini

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Dam Actual and Projected Releases - 0200 on Monday 10 January 2011

From:
To: [redacted]

Date: Mon, 10 Jan 2011 01:56:24 +1000

Wivenhoe Dam Actual and Projected Releases

10/01/2011
Source: Seqwater FOC 1:46

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02/01/2011 13:00:00	50	Actual
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 06:00 on Monday 10 January 2011

From: [redacted]
To: [redacted]
Cc: [redacted]
Date: Mon, 10 Jan 2011 06:29:46 +1000

Rainfall

Moderate to heavy rainfall has been recorded in the Upper Brisbane and Stanley Rivers in the last 12 hours with totals up to 90 mm. Totals for the last 24 hours range from 100 to 325mm.

Mt Glorious recorded 100 mm in the last 12 hours.

Rainfall of similar magnitudes is expected in the 12 to 24 hours around the downstream catchments as the system tracks south.

A severe weather warning remains current for heavy rainfall in the dam catchment areas.

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level was 39.97 m and steady. Five gates are open releasing 475 m3/s. The inflow into the dam since the commencement of the event is 52,000 ML. Estimated event volume is 72,000 ML assuming no further rainfall. Gate operations will continue until at least Tuesday 11 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level at 05:00 was 102.84 m AHD and rising (storing 193,000 ML above FSL). Peak inflow to the dam is estimated to be about 4,200 m3/s based on observed rainfall and could be as high as 5,000m3/s with additional forecast rainfall. Five sluice gates are open releasing about 1,100m3/s (95,000Ml/d) into Wivenhoe Dam. At this stage the dam lake level will reach about 103.5 mAHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected.

Since the commencement of the event on 02/01/2011approximately 142,000ML has been released from the dam into Wivenhoe, with an event total of the order of 520,000ML expected. This is expected to increase due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Thursday.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

River levels upstream of the dam have peaked and are falling slowly with significant inflow being generated from the intense heavy rainfall. Flows in the Brisbane River at Gregor's Ck have peaked at 7,350m3/s at 23:00 on Sunday 9 January. This peak is bigger than January 1974 and February 1999 at this location.

The dam level is rising quickly, with the current level being 70.77m AHD (storing 450,000 ML). Estimated peak inflow to the dam just from the Upper Brisbane R is around 8,800m3/s and, at this stage, the dam will reach at least 73.3 m AHD during Tuesday morning. Given the rapid increase in inflow volumes, it was necessary to start to increase the release from Wivenhoe during Monday morning.

The objective for dam operations will be to minimise the impact of urban flooding in areas downstream of the dam and, at this stage, releases will be kept below 3,500m3/s and the combined flows in the lower Brisbane will be limited to 4,000m3/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000 m3/s.

Fernvale Bridge approaches and Mt Crosby Weir Bridge have been inundated and both bridges are now closed.

The current release rate from Wivenhoe Dam is 1,753m3/s (150,000ML/day). Gate opening will continue to be increased during Monday and the release is expected to increase to at least 2,600m3/s in the next 12 to 24 hours.

Since the commencement of the event on 02/01/2011 approximately 275,000ML has been released from the dam, with an event total approaching 1,600,000ML without further rain and as much as 2,100,000ML with forecast rainfall of (both including Somerset outflow). At this stage, releases will continue until at least Sunday 16th January 2011.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Saturday 15 January in varying degrees.

Water levels in the lower Brisbane R will be impacted by the combined flows of Lockyer Ck, Bremer River, local runoff and releases from Wivenhoe Dam. If the predicted rainfall eventuates in the downstream tributary catchments the resultant combined flows in the lower Brisbane may exceed the threshold of damaging discharge in the urban areas within the next 24 to 48 hours. Currently the estimate peak flow in the lower Brisbane River will be the highest since Wivenhoe Dam was completed in 1984 but still well below flows the 1974 levels.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the updated Wivenhoe operating strategy.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The flood operation centre will continue to monitor the situation and provide every six hours until the situation stabilizes.

John Ruffini

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Mon, 10 Jan 2011 06:32:24 +1000

Wivenhoe Dam Actual and Projected Releases
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and projected Wivenhoe releases

From: [redacted]
To:

Date: Mon, 10 Jan 2011 09:56:26 +1000

Wivenhoe Dam Actual and Projected Releases
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 12:00 on Monday 10 January 2011

From: [redacted]
To:

Cc:

Date: Mon, 10 Jan 2011 12:15:52 +1000

Rainfall

Rainfall has continued in the dam catchments over the last 6 hours, with approximate catchment averages as follows: North Pine (30mm); Wivenhoe Dam (20mm); Somerset Dam (40mm). A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (75mm to 150mm); Wivenhoe/Somerset Dam Catchments (50mm – 100mm).

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is 40.00m AHD and relatively steady (storing 9,000ML above FSL). Five gates are open and releasing 500 m3/s. The inflow into the dam since the commencement of the event is 63,000 ML. Estimated event volume is 77,000 ML assuming no further rainfall. Gate operations will continue until at least Wednesday 12 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.11m AHD and rising (storing 210,000 ML above FSL). Peak inflow to the dam is estimated to be about 4,200 m3/s. Five sluice gates are open releasing about 1,100m3/s (95,000ML/day) into Wivenhoe Dam. At this stage the dam lake level will reach about 103.5m AHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected.

Since the commencement of the event on 02/01/2011approximately 182,000ML has been released from the dam into Wivenhoe, with an event total of the order of 520,000ML expected. This is expected to increase due to the forecast rain in the next 24 to 48 hours. At this stage, releases will continue until at least Thursday 13 January 2011.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 71.95m AHD and rising quickly (storing 610,000 ML above FSL). Peak inflow to the dam is estimated to be about 8,800m3/s. Five radial gates are open releasing about 2000m3/s (170,000ML/day) into the Brisbane River. At this stage, the dam will reach about 73.5m AHD during Tuesday morning. Flows in the Brisbane River above the dam at Gregor's Creek peaked at 7,350m3/s and this peak is bigger than both the January 1974 and February 1999 flood events at this location.

The objective for dam operations is to minimise the impact of urban flooding in areas downstream of the dam and the current aim is to keep river flows in the lower Brisbane River below 3,500m3/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000m3/s.

Since the commencement of the event on 02/01/2011 approximately 325,000ML has been released from the dam, with an event total approaching 1,600,000ML without further rain and as much as 2,100,000ML with forecast rainfall of (both including Somerset outflow). At this stage, releases will continue until at least Sunday 16 January 2011.

The volume between the expected peak (73.5m AHD) and the level at which the safety of the dam becomes the primary objective in managing flood releases (74.0m AHD) is 75,000ML. The volume between the expected peak (73.5m AHD) and initiation of the first Fuse Plug is 330,000ML.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Saturday 15 January in varying degrees.

Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and releases from Wivenhoe Dam. If the predicted rainfall eventuates in the downstream tributary catchments the resultant combined flows in the lower Brisbane may exceed the threshold of damaging discharge in the urban areas within the next 24 to 48 hours. Currently the estimate peak flow in the lower Brisbane River will be the highest since Wivenhoe Dam was completed in 1984 but still well below flows the 1974 levels.

Somerset Regional, Ipswich City and Brisbane City Councils have been advised of the updated Wivenhoe operating strategy.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The flood operation centre will continue to monitor the situation and provide every six hours until the situation stabilizes.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: Duty Engineer [redacted]
To: [redacted]

Date: Mon, 10 Jan 2011 14:37:40 +1000

Actual and Projected Wivenhoe Releases		
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Dam Releases - Change to Situation

From: [redacted]
To:

Date: Mon, 10 Jan 2011 14:47:09 +1000

+=*
Place: Flood_Information_Centre
+=*
Hi All,

Terry Malone from SEQ Water has contacted the FIC and informed us that the situation has changed.

Maintaining the current Wivenhoe Dam releases of 2000m3/s is not possible. SEQ Water will be ramping up to 2800m3/s by midnight tonight. Given the likely flows from Lockyer Creek and Bremer River, the lower Brisbane River reaches may experience a flow of up to 4000m3/s on early Wednesday.

The FIC will relay more information as it arrives.

Regards,
Robert McGlinn

[redacted]

RE: FOC Situation Report at 12:00 on Monday 10 January 2011

From: [redacted]
To:

Cc:

Date: Mon, 10 Jan 2011 14:58:04 +1000

Rainfall

Significant rainfall has fallen in the Wivenhoe Dam catchment over the last 3 hours, with falls exceeding 100mm. This rainfall will significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (75mm to 150mm); Wivenhoe/Somerset Dam Catchments (50mm – 100mm). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.41m AHD and rising. Peak inflow to the dam is estimated to be about 4,200 m3/s. Five sluice gates are open releasing about 1,100m3/s (95,000ML/day) into Wivenhoe Dam. At this stage the dam lake level will reach about 103.5m AHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 72.41m AHD and rising quickly. The rainfall experienced over the last 2 to 3 hours will result in significant further inflows into the dam and releases from the dam will need to be increased in accordance with Flood Mitigation procedures and to ensure that a fuse plug is not initiated. The initiation of a fuse plug will result in a rapid uncontrolled outflow from the dam of 2,000m3/s being added to the gate release outflow. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing.

Five radial gates are currently open at the dam releasing about 2,000m3/s into the Brisbane River and this will need to be increased steadily to an outflow of 2,800m3/s over the next 9 hours (commencing at 1500). At this stage, the dam will reach about 73.8m AHD during Tuesday morning.

The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m3/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000m3/s. If further rainfall occurs, dam releases may need to be increased further and this may result in river flows in the lower Brisbane River approaching or exceeding 5,000m3/s.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Sunday 16 January in varying degrees.

Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and releases from Wivenhoe Dam.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The flood operation centre will continue to monitor the situation and provide every six hours until the situation stabilizes.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 18:00 on Monday 10 January 2011

From: [redacted]
To: [redacted]
Cc: [redacted]
Date: Mon, 10 Jan 2011 18:43:01 +1000

Rainfall

Only minor rainfall has been experienced in the North Pine Dam and Somerset Dam catchments with a catchment averages of less than 20mm.

However, significant rain has fallen in the Wivenhoe Dam catchment over the last 6 hours, with isolated falls exceeding 100mm. This rainfall has significantly increase inflows into the dam. A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 10:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm). Potentially significant rain moving towards the dam catchments is currently evident on the BOM radar.

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is 39.84m AHD and falling slowly (storing 9,000ML above FSL). Five gates are open and releasing 362 m3/s. The inflow into the dam since the commencement of the event is 72,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.46m AHD and rising slowly. Peak inflow to the dam is estimated to be about 4,200 m3/s. Total discharge into Wivenhoe Dam is currently 1700m3/s and this discharge will decrease slowly in the next 24 hours to be around 1200m3/s late Tuesday. The dam level will peak at 103.5m AHD in the next few hours, unless further significant rainfall is experienced. Areas around Kilcoy will continue to be adversely affected.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 72.92m AHD and rising quickly. Releases from the dam have been increased over the last 3 hours in accordance with Flood Mitigation procedures and to ensure that a fuse plug is not initiated. The initiation of a fuse plug will result in a rapid uncontrolled outflow from the dam of 2,000m3/s being added to the gate release outflow. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing. The flash flooding experienced in the upper areas of Lockyer Creek have been examined and are not expected to significantly increase Brisbane River flows above the current projection of 4000m3/s at Moggill.

Five radial gates are currently open at the dam releasing about 2,400m3/s into the Brisbane River and this will need to be increased steadily to an outflow of 2,800m3/s. At this stage, the dam will reach about 73.8m AHD during Tuesday morning.

The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m3/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000m3/s. If further rainfall occurs, dam releases may need to be increased further and this may result in river flows in the lower Brisbane River approaching or exceeding 5,000m3/s.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Sunday 16 January in varying degrees.

Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and releases from Wivenhoe Dam.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate rapidly over the next 24 hours. The flood operation centre will continue to monitor the situation and provide every six hours until the situation stabilizes.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 00:00 Tuesday 11 Janaury 2011

From: [redacted]
To:

Cc:

Date: Mon, 10 Jan 2011 23:55:48 +1000

Rainfall

Rainfall continues in the North Pine Dam, Somerset Dam and Wivenhoe Dam catchments with falls of generally less than 20mm since 18:00 today. However, some isolated falls in the Upper Brisbane River of up to 110 mm have been recorded at Monsildale in this time. This rainfall will increase inflows into the dam.

A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 16:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm).

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is 39.80m AHD and falling slowly (storing 4,400ML above FSL). Five gates are open, releasing 153 m3/s. The inflow into the dam since the commencement of the event is 74,000 ML. Estimated event volume is 84,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.40m AHD and falling slowly. Peak inflow to the dam is estimated to be about 4,200 m3/s. Total discharge into Wivenhoe Dam is currently 1700m3/s and this discharge will decrease slowly in the next 24 hours to be around 1200m3/s late Tuesday. The dam level peaked at 103.52m AHD at 19:00 on Monday 10 January 2011, unless further significant rainfall is experienced. Areas around Kilcoy will continue to be adversely affected.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 73.22m AHD and rising at about 50 mm/hour. Releases from the dam have been held at a rate of 2,750 m3/s since 19:30 hours. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing.

The BoM has provided further advice about the flash flooding experienced in the upper areas of Lockyer Creek. The rainfall responsible for this event was not observed at any rainfall stations but it is considered to be very significant. Flood levels in the Lockyer Creek catchment will exceed maximum recorded levels in some stations in the upper catchment. This flow may result in increases in Brisbane River levels below the junction of Lockyer Creek.

Five radial gates are currently open at the dam releasing about 2,750m3/s into the Brisbane River. At this stage, the dam will reach about 73.8m AHD during Tuesday afternoon.

The objective for dam operations is currently to minimise the impact of urban flooding in areas downstream of the dam and to keep river flows in the lower Brisbane River below 4,000m3/s if possible. This is significantly less than the current estimated combined pre-dam peak inflow of 12,000m3/s. If further rainfall occurs, dam releases may need to be increased further and this may result in river flows in the lower Brisbane River approaching or exceeding 5,000m3/s.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Sunday 16 January in varying degrees.

Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and releases from Wivenhoe Dam.

The BoM will provide further information regarding the magnitude of the flash flood event occurring in Lockyer Creek early Tuesday morning. Consideration will be given to modifying the releases from Wivenhoe Dam to try to moderate the peak flows emanating from Lockyer Creek

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate over the next 24 hours. The flood operation centre will continue to monitor the situation and provide situation reports every six hours until the situation stabilizes.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FIC Sitrep 2:00am - Shift 3

From: [redacted]
To:
Date: Tue, 11 Jan 2011 02:24:39 +1000

+=*
Place: Flood_Information_Centre
+=*
Further to our telephone conversations, latest sitrep.

Regards
JamesC.

>>> Flood_Information_Centre 11/01/2011 2:03:59 am >>>
Attatched is the FIC SITREP based on:
BoM forecasted water levels with forecast rainfall as at 6:00pm

With forecast rainfall as at 10/01/2011 6:00pm, Brisbane City Gauge water level is predicted to peak at 3.1 mAHD on Wednesday afternoon high tide around 2pm.

Please note the total flooded properties is now estimated at approximately 1200. The above count is for property flooding not house flooding.

James Charalambous
FIC Controller - Shift 3

PFN	CmbProfileID	DESCRIPTION	ISSUE_DATE	ADD_COMM	CELL_ID	FLOOD_TYP	PEAK_DAT	RunID	DataGroup	ProfileNumb	Text32	Text35
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	163	#Name?	#Name?	#Name?	1	374.90
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE CITY	Flooded	141	#Name?	#Name?	#Name?	1	277.30
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	117	#Name?	#Name?	#Name?	1	257.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	93	#Name?	#Name?	#Name?	1	223.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Flooded	78	#Name?	#Name?	#Name?	1	171.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	64	#Name?	#Name?	#Name?	1	134.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	62	#Name?	#Name?	#Name?	1	136.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	61	#Name?	#Name?	#Name?	1	140.30
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	49	#Name?	#Name?	#Name?	1	126.18
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	49	#Name?	#Name?	#Name?	1	117.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Flooded	36	#Name?	#Name?	#Name?	1	64.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Flooded	33	#Name?	#Name?	#Name?	1	79.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	27	#Name?	#Name?	#Name?	1	69.53
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	25	#Name?	#Name?	#Name?	1	51.25
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	24	#Name?	#Name?	#Name?	1	57.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	23	#Name?	#Name?	#Name?	1	50.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KANGAROO POINT	Flooded	21	#Name?	#Name?	#Name?	1	43.05
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	18	#Name?	#Name?	#Name?	1	46.35
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	17	#Name?	#Name?	#Name?	1	34.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	11	#Name?	#Name?	#Name?	1	27.13
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	11	#Name?	#Name?	#Name?	1	27.13
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Flooded	10	#Name?	#Name?	#Name?	1	21.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	10	#Name?	#Name?	#Name?	1	24.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Flooded	8	#Name?	#Name?	#Name?	1	17.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MOGGILL	Flooded	7	#Name?	#Name?	#Name?	1	21.70

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BOWEN HILLS	Flooded	7	#Name?	#Name?	#Name?	1	14.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	7	#Name?	#Name?	#Name?	1	14.70
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	6	#Name?	#Name?	#Name?	1	15.45
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	COORPARO O	Flooded	6	#Name?	#Name?	#Name?	1	13.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Flooded	4	#Name?	#Name?	#Name?	1	12.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FORTITUDE VALLEY	Flooded	4	#Name?	#Name?	#Name?	1	8.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TENNYSON	Flooded	3	#Name?	#Name?	#Name?	1	7.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HERSTON	Flooded	3	#Name?	#Name?	#Name?	1	6.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORN E	Flooded	3	#Name?	#Name?	#Name?	1	7.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BALMORAL	Flooded	2	#Name?	#Name?	#Name?	1	4.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	2	#Name?	#Name?	#Name?	1	6.03
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HAMILTON	Flooded	2	#Name?	#Name?	#Name?	1	4.50
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Flooded	2	#Name?	#Name?	#Name?	1	5.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MURARRIE	Flooded	2	#Name?	#Name?	#Name?	1	5.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Flooded	2	#Name?	#Name?	#Name?	1	6.03
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	GREENSLO PES	Flooded	1	#Name?	#Name?	#Name?	1	2.10
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Flooded	1	#Name?	#Name?	#Name?	1	2.89
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KARANA DOWNS	Flooded	1	#Name?	#Name?	#Name?	1	3.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MORNINGSI DE	Flooded	1	#Name?	#Name?	#Name?	1	2.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTO N	Flooded	1	#Name?	#Name?	#Name?	1	2.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BROOKFIEL D	Flooded	1	#Name?	#Name?	#Name?	1	3.01
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SEVENTEE N MILE ROCKS	Flooded	1	#Name?	#Name?	#Name?	1	2.90
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TENERIFFE	Flooded	1	#Name?	#Name?	#Name?	1	1.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WILLAWON G	Flooded	1	#Name?	#Name?	#Name?	1	2.87
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOON GABBA	Flooded	1	#Name?	#Name?	#Name?	1	2.25

PFN	CmbProfile	D_DESCRI	SSUE_DAT	OD_COMM	CELL_ID	LOOD_TYP	PEAK_DAT	RunID	DataGroup	profileNumb	Text32	Text35
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE CITY	Partially Flooded	1241	#Name?	#Name?	#Name?	1	2440.63
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	584	#Name?	#Name?	#Name?	1	1401.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	445	#Name?	#Name?	#Name?	1	801.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Partially Flooded	363	#Name?	#Name?	#Name?	1	762.30
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	289	#Name?	#Name?	#Name?	1	664.70
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Partially Flooded	285	#Name?	#Name?	#Name?	1	627.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Partially Flooded	254	#Name?	#Name?	#Name?	1	558.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	245	#Name?	#Name?	#Name?	1	588.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	243	#Name?	#Name?	#Name?	1	599.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BOWEN HILLS	Partially Flooded	240	#Name?	#Name?	#Name?	1	480.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	233	#Name?	#Name?	#Name?	1	559.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	227	#Name?	#Name?	#Name?	1	454.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	212	#Name?	#Name?	#Name?	1	466.40
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MOGGILL	Partially Flooded	210	#Name?	#Name?	#Name?	1	651.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Partially Flooded	201	#Name?	#Name?	#Name?	1	442.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KARANA DOWNS	Partially Flooded	200	#Name?	#Name?	#Name?	1	600.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Partially Flooded	190	#Name?	#Name?	#Name?	1	572.71
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	186	#Name?	#Name?	#Name?	1	478.95
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	178	#Name?	#Name?	#Name?	1	439.07
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Partially Flooded	175	#Name?	#Name?	#Name?	1	402.50
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	174	#Name?	#Name?	#Name?	1	417.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	173	#Name?	#Name?	#Name?	1	363.30
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Partially Flooded	168	#Name?	#Name?	#Name?	1	432.60

	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	160	#Name?	#Name?	#Name?	1	416.00
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	160	#Name?	#Name?	#Name?	1	352.00
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	144	#Name?	#Name?	#Name?	1	295.20
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	138	#Name?	#Name?	#Name?	1	289.80
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Partially Flooded	138	#Name?	#Name?	#Name?	1	355.35
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WESTLAKE	Partially Flooded	120	#Name?	#Name?	#Name?	1	346.29
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	104	#Name?	#Name?	#Name?	1	267.80
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Partially Flooded	103	#Name?	#Name?	#Name?	1	226.60
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KANGAROO POINT	Partially Flooded	93	#Name?	#Name?	#Name?	1	190.65
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	93	#Name?	#Name?	#Name?	1	280.33
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Partially Flooded	90	#Name?	#Name?	#Name?	1	259.71
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORNE	Partially Flooded	86	#Name?	#Name?	#Name?	1	206.40
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHUWAR	Partially Flooded	85	#Name?	#Name?	#Name?	1	255.00
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BELLBOWRIE	Partially Flooded	85	#Name?	#Name?	#Name?	1	263.50
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KHOLO	Partially Flooded	84	#Name?	#Name?	#Name?	1	252.00
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ANSTEAD	Partially Flooded	82	#Name?	#Name?	#Name?	1	254.20
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PORT OF BRISBANE	Partially Flooded	81	#Name?	#Name?	#Name?	1	202.50
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TENNYSON	Partially Flooded	71	#Name?	#Name?	#Name?	1	170.40
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Partially Flooded	55	#Name?	#Name?	#Name?	1	123.75
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAMILTON	Partially Flooded	47	#Name?	#Name?	#Name?	1	105.75
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HIGHGATE HILL	Partially Flooded	47	#Name?	#Name?	#Name?	1	98.70
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TINGALPA	Partially Flooded	42	#Name?	#Name?	#Name?	1	113.40
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINJARRA HILLS	Partially Flooded	40	#Name?	#Name?	#Name?	1	120.57
	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTON	Partially Flooded	37	#Name?	#Name?	#Name?	1	81.40

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Partially Flooded	33	#Name?	#Name?	#Name?	1	82.50
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MURARRIE	Partially Flooded	33	#Name?	#Name?	#Name?	1	85.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Partially Flooded	31	#Name?	#Name?	#Name?	1	96.10
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAGLE FARM	Partially Flooded	30	#Name?	#Name?	#Name?	1	66.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	GREENSLOPES	Partially Flooded	30	#Name?	#Name?	#Name?	1	63.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	DUTTON PARK	Partially Flooded	27	#Name?	#Name?	#Name?	1	60.75
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HERSTON	Partially Flooded	26	#Name?	#Name?	#Name?	1	52.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	RIVERHILLS	Partially Flooded	26	#Name?	#Name?	#Name?	1	75.03
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	25	#Name?	#Name?	#Name?	1	60.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WILLAWONG	Partially Flooded	25	#Name?	#Name?	#Name?	1	71.67
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MORNINGSIDE	Partially Flooded	24	#Name?	#Name?	#Name?	1	57.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BROOKFIELD	Partially Flooded	23	#Name?	#Name?	#Name?	1	69.33
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SUMNER	Partially Flooded	23	#Name?	#Name?	#Name?	1	66.37
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	COOPERS PLAINS	Partially Flooded	22	#Name?	#Name?	#Name?	1	57.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MOUNT CROSBY	Partially Flooded	20	#Name?	#Name?	#Name?	1	60.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Partially Flooded	20	#Name?	#Name?	#Name?	1	49.33
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WYNNUM WEST	Partially Flooded	19	#Name?	#Name?	#Name?	1	47.50
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SINNAMON PARK	Partially Flooded	14	#Name?	#Name?	#Name?	1	40.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SEVENTEEN MILE ROCKS	Partially Flooded	13	#Name?	#Name?	#Name?	1	37.70
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ARCHERFIELD	Partially Flooded	13	#Name?	#Name?	#Name?	1	33.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	DURACK	Partially Flooded	11	#Name?	#Name?	#Name?	1	31.17
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FORTITUDE VALLEY	Partially Flooded	11	#Name?	#Name?	#Name?	1	22.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CARINA	Partially Flooded	11	#Name?	#Name?	#Name?	1	28.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TENERIFFE	Partially Flooded	10	#Name?	#Name?	#Name?	1	18.00

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BALMORAL	Partially Flooded	10	#Name?	#Name?	#Name?	1	24.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KELVIN GROVE	Partially Flooded	9	#Name?	#Name?	#Name?	1	20.70
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ACACIA RIDGE	Partially Flooded	9	#Name?	#Name?	#Name?	1	25.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MOOROOKA	Partially Flooded	8	#Name?	#Name?	#Name?	1	19.20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CARINDALE	Partially Flooded	8	#Name?	#Name?	#Name?	1	20.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WILSTON	Partially Flooded	7	#Name?	#Name?	#Name?	1	16.80
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CANNON HILL	Partially Flooded	5	#Name?	#Name?	#Name?	1	12.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MIDDLE PARK	Partially Flooded	5	#Name?	#Name?	#Name?	1	14.43
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MOUNT OMMANEY	Partially Flooded	5	#Name?	#Name?	#Name?	1	14.43
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEWMARKET	Partially Flooded	4	#Name?	#Name?	#Name?	1	9.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	DARRA	Partially Flooded	3	#Name?	#Name?	#Name?	1	9.30
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PULLENVALE	Partially Flooded	3	#Name?	#Name?	#Name?	1	9.04
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	LAKE MANCHESTER	Partially Flooded	1	#Name?	#Name?	#Name?	1	3.00
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHAPEL HILL	Partially Flooded	1	#Name?	#Name?	#Name?	1	3.01
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ASHGROVE	Partially Flooded	1	#Name?	#Name?	#Name?	1	2.60
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	JAMBOREE HEIGHTS	Partially Flooded	1	#Name?	#Name?	#Name?	1	2.89
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	RICHLANDS	Partially Flooded	1	#Name?	#Name?	#Name?	1	2.83

PFN	CmbProfileID	D_DESCRI	SSUE_DAT	OD_COMM	CELL_ID	LOOD_TYF	Type	RunID	DataGroup	rofileNumb	Text32	Text35	Text36	ID
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	DEPARTMENT OF ADMINISTRATIVE SERVICES QLD	45
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HAMILTON	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	HOTEL/MOTEL	MR KIE N WONG	10
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	JANE WALKER FAMILY TRUST & EDWARD WALKER	8
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BELLBOWRIE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	BELLBOWRIE KINDERGARTEN & PRE-SCHOOL	208
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	SHELL COMPANY OF AUSTRALIA LTD (J219)	61
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	QUEENSLAND UNIVERSITY OF TECHNOLOGY	46
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		47
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	CENTRAL QUEENSLAND UNIVERSITY C/- QUEENSLAND	31
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KARANA DOWNS	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		178
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	MR CARMELO SALANITRI & MRS GINA SALANITRI	24
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Partially Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	FOREST PLACE GROUP LIMITED	62
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	VALLEY	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		22
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	ENERGY	#Name?	#Name?	#Name?	1	ENERGEX		196
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND PINKENBA STATE SCHOOL	3
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	INTERNATIONAL HOUSE	70
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	THE SMITH FAMILY	9
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		103
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	HOTEL/MOTEL	MR MALCOLM SNYST & MR PHILLIP ENYST	44
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	MR ANNIBALE BOCCABELLA	52
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		83
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND BURANDA STATE SCHOOL	79

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	84
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WILLAWONG	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	224
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	155
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KARANA DOWNS	Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION	177
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	35
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTON	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	THE K K PIAT-NISKI SUPERANNUATION FUND 20
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	11
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	HOTEL/MOTEL	ALE DIRECT PROPERTY TRUST 12
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	GULHANE FAMILY TRUST 75
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	28
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION	150
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	MR HERVINDER S BASSI 186
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	UNIVERSITY OF QUEENSLAND 68
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND 93
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	66
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	67
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND OXLEY STATE SCHOOL 213
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	BENTER PTY LTD 142
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION	56
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	INTERNATIONAL HOUSE 74
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	UNIVERSITY OF QUEENSLAND 76
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	MR RAYMOND J BARBER & MR CECIL C YOUNG 37
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CARINA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND 85
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION	222
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	34
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	41

1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		26
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	BULK FUEL	MOONIE PIPELINE CO PTY LTD	4
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		50
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		49
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		48
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	UNIVERSITY OF QUEENSLAND	73
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		112
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	VALLEY	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		23
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	THE CORPORATION OF THE SYNOD OF THE DIOCESE	57
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	BULK FUEL	CALTEX REFINERIES (QLD) LTD	5
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	HOTEL/MOTEL	HSH HOTELS (AUSTRALIA) LIMITED	40
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ANSTEAD	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	PRESSURE GAUGE		138
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	SAMPLING POINT		171
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	PRESSURE GAUGE		172
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTON	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND MILTON STATE SCHOOL	19
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND	87
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	M & P KORGANOW PROPERTIES PTY LTD	195
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		167
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		99
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	CARAVAN PARK	CLAYTON CROSS FAMILY TRUST	16
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		17
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		64
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	SERVICE STATION	THE D & D INVESTMENT UNIT TRUST	214
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	DURACK	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	TREATMENT PLANT		225
1		1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND	149

1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		190
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		203
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	FUEL	#Name?	#Name?	#Name?	1	BULK FUEL	B P REFINERY (BULWER ISLAND) LTD	2
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		120
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		100
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		60
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND	187
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		174
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		173
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	DURACK	Partially Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	FOREST PLACE PTY LTD	228
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	DURACK	Partially Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	FOREST PLACE PTY LTD	227
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINJARRA HILLS	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	BRISBANE INDEPENDENT SCHOOL INC	113
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	DUTTON PARK	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	THE CORPORATION OF THE TRUSTEES OF THE ROMAN	77
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND	154
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		51
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		95
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND	92
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	MEDICAL	#Name?	#Name?	#Name?	1	HOSPITAL	NEW FARM HOSPITALS PTY LTD	55
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		98
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND	82
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		164
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOTEL	PRESBYTERIAN CHURCH OF QUEENSLAND	104
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		125
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TENNYSON	Partially Flooded	ENERGY	#Name?	#Name?	#Name?	1	ENERGEX		133
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOTEL	KINGS COLLEGE	105

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		127
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	ANGLICAN DIOCESE OF BRISBANE DEPARTMENT FOR	94
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		101
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	MEDICAL	#Name?	#Name?	#Name?	1	HOSPITAL	THE CORPORATION OF THE METHODIST CHURCH OF	152
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	DEPARTMENT OF ADMINISTRATIVE SERVICES QLD	188
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		89
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	SAMPLING POINT		130
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	SAMPLING POINT		129
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		128
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	DEPARTMENT OF EDUCATION - STATE	189
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	TRUSTEES OF THE CHRISTIAN BROTHERS	90
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		131
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		132
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	PRESSURE GAUGE		166
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	PRESSURE GAUGE		165
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		86
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	UNIVERSITY OF QUEENSLAND	71
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		202
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	EDUCATION QUEENSLAND FIG TREE POCKET STATE	121
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		108
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Partially Flooded	MEDICAL	#Name?	#Name?	#Name?	1	HOSPITAL	BETHANY CHRISTIAN CARE	124
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		197
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		168
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		204

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SINNAMON PARK	Partially Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	WESLEY CENTRAL MISSION	143
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ARCHERFIELD	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		216
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		157
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		162
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		161
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		160
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		158
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		156
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		159
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ACACIA RIDGE	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		226
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		116
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		115
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		194
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		148
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER		193
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	TREATMENT PLANT		192
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	ACCOMMODATION	#Name?	#Name?	#Name?	1	GUEST HOUSE/HOSTEL	THE CONGREGATION OF THE PASSION IN AUSTRALIA	185
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KARANA DOWNS	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	TREATMENT PLANT		136
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		119
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Partially Flooded	WATER SUPPY	#Name?	#Name?	#Name?	1	SAMPLING POINT		151
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		117
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		140
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		118
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	NON-MEDICAL	#Name?	#Name?	#Name?	1	WELFARE INSTITUTE	THE QUEENSLAND SOCIETY FOR CRIPPLED CHILDREN	153
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION		114

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WESTLAKE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION	180
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PINJARRA HILLS	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	UNIVERSITY OF QUEENSLAND 139
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BELLBOWRIE	Partially Flooded	SEWER	#Name?	#Name?	#Name?	1	PUMP STATION	210
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BELLBOWRIE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	BRISBANE CITY COUNCIL 211
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Partially Flooded	MEDICAL	#Name?	#Name?	#Name?	1	HOSPITAL	DEPARTMENT OF HEALTH - STATE 230
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAGLE FARM	Partially Flooded	COMMUNICATION	#Name?	#Name?	#Name?	1	COMMS TOWER	1
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORNE	Partially Flooded	EDUCATION	#Name?	#Name?	#Name?	1	SCHOOL	THE SISTERS OF THE GOOD SAMARITAN LOURDES 59

PFN	CmbProfile	D_DESCRI	SSUE_DAT	OD_COMM	CELL_ID	LOOD_TYP	Type	RunID	DataGroup	profileNumb	Text32	Text36	ID
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FORTITUDE VALLEY	Partially Flooded	Wickham Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	Boolarra Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Partially Flooded	Port Of Brisbane Motorway access	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MURARRIE	Partially Flooded	Port Of Brisbane Motorway	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Dickson Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Mcbride Road	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Orsova Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ARCHERFIELD	Partially Flooded	Gladstone Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KANGAROO POINT	Partially Flooded	Bright Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Partially Flooded	Yallambee Road	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	Crosby Road	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	Lucy Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAMILTON	Partially Flooded	Hunt Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HERSTON	Partially Flooded	Butterfield Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	Breakfast Creek Road	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	Edmund Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	Evelyn Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Gennon Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Hadfield Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Lane Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Mcdonald Road	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Carr Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Eton Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Godwin Street	#Name?	#Name?	1	1		#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Hawthorne Road	#Name?	#Name?	1	1		#Name?

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Redcar Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Stuart Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORNE	Partially Flooded	Elliott Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Partially Flooded	Kenny Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Partially Flooded	Hill End Terrace	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	Harte Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	Oxley Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	Gardens Pt Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	Fuljames Lane	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	Lamington Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Partially Flooded	Barnes Avenue	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	Hampton Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	Kingfisher Lane	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	GREENSLOPES	Partially Flooded	Gladys Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	Canara Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	Wordsworth Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Partially Flooded	Longlands Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Partially Flooded	Preston Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	Aranui Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Partially Flooded	Fenton Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	Burnby Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	Garth Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Partially Flooded	Ragnor Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Brownlee Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Gannon Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Hopper Street	#Name?	#Name?	1	1		#Name?

1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Orient Avenue	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Sandmere Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Serpentine Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Yarra Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TINGALPA	Partially Flooded	Fleming Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WYNNUM WEST	Partially Flooded	Haynes Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Partially Flooded	Railway Terrace	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	Bayford Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	Wileri Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Partially Flooded	Burns Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Partially Flooded	Eddystone Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KANGAROO POINT	Partially Flooded	Annie Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BOWEN HILLS	Partially Flooded	Abbotsford Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BOWEN HILLS	Partially Flooded	Gebbie Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	Maud Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Green Terrace	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Le Geyt Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BALMORAL	Partially Flooded	Marie Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Carbeen Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Partially Flooded	Haig Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTON	Partially Flooded	Baroona Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	Queens Wharf Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	Glenelg Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KANGAROO POINT	Partially Flooded	Lower River Terrace	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	Luxford Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	Scout Lane	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Partially Flooded	Dunella Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Partially Flooded	Goya Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	Brunswick Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	Refinery Parade	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	Sydney Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	Caswell Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	Fisher Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	Crown Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Partially Flooded	Flower Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Partially Flooded	Hampton Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HIGHGATE HILL	Partially Flooded	Dudley Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	Yvonne Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FORTITUDE VALLEY	Partially Flooded	Ann Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	Longland Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Partially Flooded	Bledisloe Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Partially Flooded	Port Of Brisbane Motorway	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Gregg Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Neill Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Partially Flooded	Unwin Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TINGALPA	Partially Flooded	Wynnum Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WYNNUM WEST	Partially Flooded	Alness Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Partially Flooded	Fleet Lane	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Partially Flooded	Kingsley Parade	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	DURACK	Partially Flooded	Bowhill Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOOROOKA	Partially Flooded	Muriel Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	Alban Street	#Name?	#Name?	1	1		#Name?

1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Partially Flooded	Aldersgate Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	Granard Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Partially Flooded	Suscatand Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WILLAWONG	Partially Flooded	Bowhill Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	RIVERVIEW	Partially Flooded	Duncan Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	Collingwood Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Partially Flooded	Tate Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BOWEN HILLS	Partially Flooded	Edmondston e Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Partially Flooded	Durong Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Allom Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Cartwright Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Downey Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Grafton Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Partially Flooded	Robert Lane	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Barramul Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Partially Flooded	Jamieson Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Partially Flooded	Private Rd Out	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Partially Flooded	Hargreaves Avenue	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Partially Flooded	Coleman Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Partially Flooded	Graceville Avenue	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Partially Flooded	Alford Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Partially Flooded	Landsdowne Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Partially Flooded	Morley Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	Barker Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Partially Flooded	Chorlton Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GREENSLOPES	Partially Flooded	Constance Street	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	Adina Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Partially Flooded	Waite Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Crutchley Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Fairview Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Glengregory Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Flooded	Aquarium Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	LYTTON	Flooded	Frank Milan Drive	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Flooded	School Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TENNYSON	Flooded	Curzon Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Carmody Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Twelfth Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Avebury Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Kingsford Smith Drive	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAMILTON	Flooded	Cooksley Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Byres Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Albany Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Bowen Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Cullen Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Edgar Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Edmund Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Federation Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Noble Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Somerset Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORNE	Flooded	Lindsay Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	White Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Aragon Street	#Name?	#Name?	1	1		#Name?

1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Sisley Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Morry Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Turner Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEW FARM	Flooded	Welsby Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Camberwell Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Heath Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Lerna Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Longlands Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Gillan Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Norman Avenue	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Flooded	Albion Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Flooded	Maynard Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Flooded	Bancroft Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Flooded	Esker Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Crombie Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Mcdougall Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ANSTEAD	Flooded	Mount Crosby Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SUMNER	Flooded	Clydesdale Place	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Strickland Terrace	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Bannerman Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Wilpowell Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Blackdown Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	RIVERVIEW	Flooded	Caroline Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Flooded	Alpha Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Flooded	Indooroopilly Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Flooded	Moore Street	#Name?	#Name?	1	1	#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Durham Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Beaumont Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Gartrell Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Sandgate Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Wallace Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Austin Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Gordon Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Ross Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Wickham Grove	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Addison Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Maurice Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Nicholas Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Northey Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Flooded	Smallman Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Milton Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Jane Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	Jarrott Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	Rosebery Terrace	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Bodalla Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Hope Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Flooded	Churchill Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Flooded	Lotus Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Commercial Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Teesdale Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Flooded	Brand Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COOPERS PLAINS	Flooded	Deal Street	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Baronsfield Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Kendall Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Flooded	Busway	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Laurence Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Ryan Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Argyle Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Bogan Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Elliot Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Fox Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Immarna Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Jobson Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Pedder Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Creswell Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORNE	Flooded	Malcolm Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	REDBANK	Flooded	Monash Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTON	Flooded	Beck Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PADDINGTON	Flooded	Fernberg Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Orsova Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Flooded	Stanley Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Flooded	Clarence Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GREENSLOPES	Flooded	Beata Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Milton Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WOOLLOONGABBA	Flooded	Line Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Lowe Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BRISBANE	Flooded	Riverside Expressway	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TINGALPA	Flooded	Boundary Street	#Name?	#Name?	1	1		#Name?

1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Eversley Terrace	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Neata Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Lillian Avenue	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Randolph Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Sperling Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Central Avenue	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Carlow Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Park Avenue	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Flooded	Sylvan Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Agnes Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Amy Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Nariel Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NEWSTEAD	Flooded	Waterloo Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	HAWTHORNE	Flooded	Barton Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Flooded	Taylor Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Needham Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Austral Avenue	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Rennies Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Flooded	Salisbury Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Ashfield Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Clarendon Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Pope Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Oriana Crescent	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Flooded	Boyce Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Heussler Terrace	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 2:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Manning Street	#Name?	#Name?	1	1	#Name?

1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Walsh Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINJARRA HILLS	Flooded	Moggill Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Park Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Deniven Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Penaton Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Lawson Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Goburra Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Ipswich Motorway	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Sir Fred Schonell Drive	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Sir William Macgregor Drive	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Higgs Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Yulestar Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HAMILTON	Flooded	Amy Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Victoria Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Beard Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Dunmore Terrace	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Kingsford Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Baroona Road	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	Leybourne Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	Richardson Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Acacia Avenue	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Cordalba Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Strong Avenue	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Jolimont Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Francis Street	#Name?	#Name?	1	1		#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Flooded	Cambridge Street	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Moreton Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Brisbane Corso	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Noble Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Railway Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Stimpson Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Flooded	Hemmant And Tingalpa Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Forsyth Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Hyde Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOOROOKA	Flooded	Sherwood Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	Chale Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Flooded	Mayne Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Cubberla Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Bailey Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Hutcheson Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Park Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WINDSOR	Flooded	Bryden Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Flooded	Rome Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Flooded	Venice Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Didswith Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Walter Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Scott Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Ormadale Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Tecoma Lane	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Sydney Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BELLBOWRIE	Flooded	Moggill Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Colwel Street	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Englefield Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Sandford Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	Chelmer Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Mcilwraith Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Flooded	Patrick Lane	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Blackheath Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Thiesfield Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	Ortive Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Chanter Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Market Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Twigg Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Orleigh Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Donaldson Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Diane Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Newcastle Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Galah Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Johnstone Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Sherwood Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Austral Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Warren Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Hoogley Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Land Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Aldridge Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Fortitude Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Bayswater Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Waratah Avenue	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Spring Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	EAST BRISBANE	Flooded	Hilton Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GAILES	Flooded	Ipswich Motorway	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Finchley Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Golf Links Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Leeds Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	REDBANK	Flooded	Plain Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BOWEN HILLS	Flooded	Inner City Bypass	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Coleridge Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Glasshouse Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Underhill Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Walcott Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BULIMBA	Flooded	Oxford Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Allamanda Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Pegg Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Salisbury Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Flooded	Josling Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Ramada Place	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Montague Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Darnley Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SEVENTEEN MILE ROCKS	Flooded	Sinnamon Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COORPAROO	Flooded	Deshon Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Ashby Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINKENBA	Flooded	Marine Drive	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Paten Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Fairfield Road	#Name?	#Name?	1	1	#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Venner Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Tramore Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Strickland Terrace	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TOOWONG	Flooded	Land Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Flooded	Centenary Highway access	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Aminga Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Cue Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Haig Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Lucy Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SOUTH BRISBANE	Flooded	Riverside Drive	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHELMER	Flooded	Hanlan Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Radnor Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Fairfield Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Lower Albert Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Parkview Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Elkedra Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Jesmond Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Douglas Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Victoria Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Castlemaine Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Cordova Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Granzella Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Lower Cross Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Turner Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Blunder Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Boundary Road	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Oxley Station Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Beaudesert Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Freney Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Mcculla Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Esplanade	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Eagle Terrace	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Lang Parade	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Allora Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Haldane Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HEMMANT	Flooded	Gosport Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Black Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Chippendall Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Venner Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Lincoln Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Gilmour Place	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Auchenflower Terrace	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Dixon Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Patrick Lane	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Kurilpa Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Victoria Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Ningana Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Macintosh Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Vincent Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Frew Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	NORMAN PARK	Flooded	Wendell Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Ipswich Motorway	#Name?	#Name?	1	1		#Name?

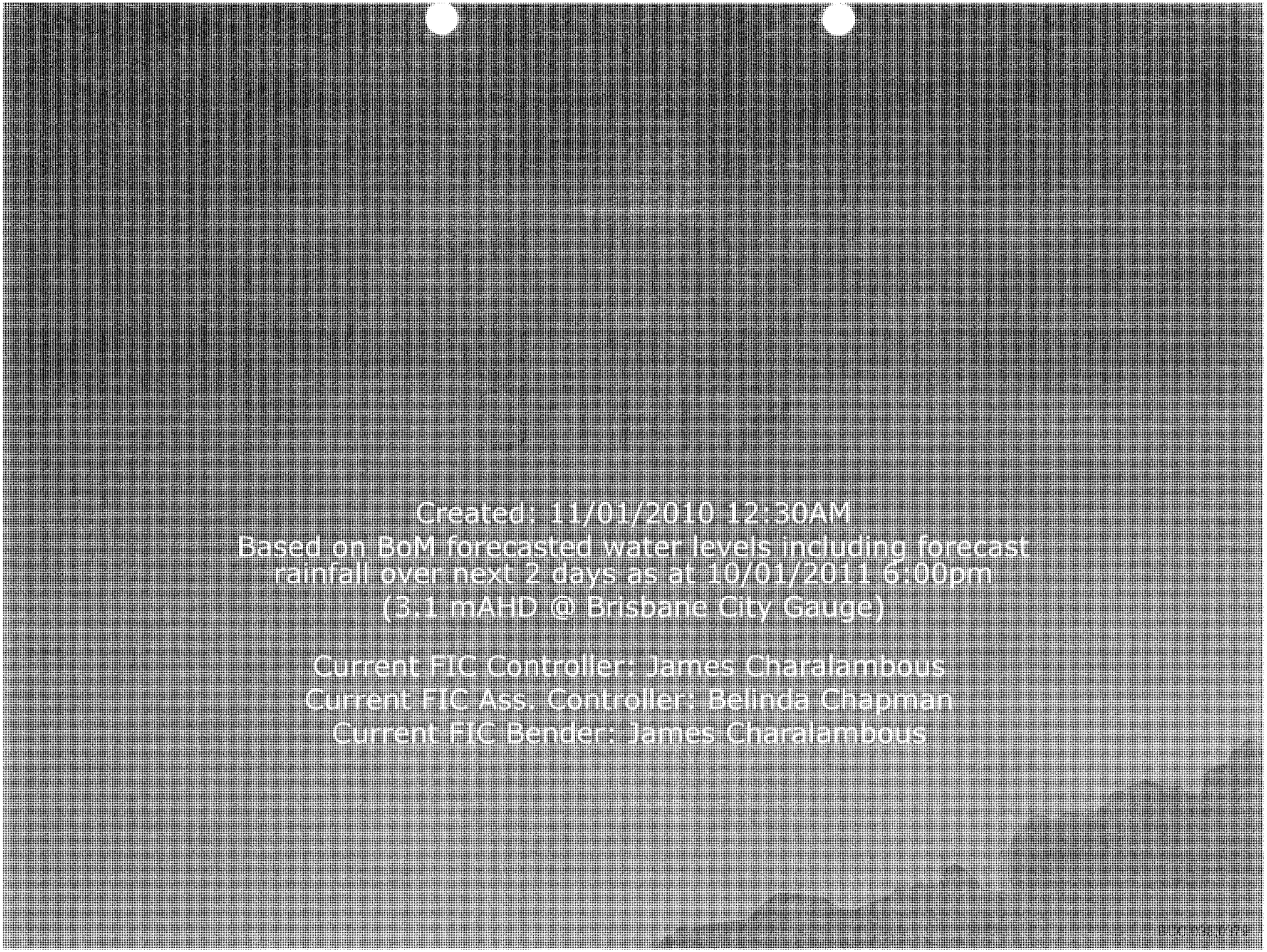
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Flooded	Wolston Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	COOPERS PLAINS	Flooded	Musgrave Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Camford Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Home Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WEST END	Flooded	Riverside Drive	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Gladstone Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Brooke Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Macbarry Place	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	Moolabin Crescent	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Park Lane	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Roy Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Eagle Terrace	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Kilroe Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Milton Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MILTON	Flooded	Roy Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Ortive Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SUMNER	Flooded	Wacol Station Road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Ipswich Motorway access road	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Bale Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Colvin Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Corella Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	TARINGA	Flooded	Heroes Avenue	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Torwood Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Inskip Street	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	AUCHENFLOWER	Flooded	Huxham Terrace	#Name?	#Name?	1	1	#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HIGHGATE HILL	Flooded	Saint James Street	#Name?	#Name?	1	1	#Name?

1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	Brougham Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOOROOKA	Flooded	Evesham Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Yeronga Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BARELLAN POINT	Flooded	Brisbane Crescent	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Factory Rd Loop	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Elmes Road	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Ipswich Road	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	William Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FAIRFIELD	Flooded	William Parade	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Factory Road	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Breadwell Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Shoebury Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	Allawah Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	JINDALEE	Flooded	Sinnamon Road	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Vera Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Jerrang Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Peel Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Pratten Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Boobook Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	De Hayr Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Melbourne Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Bridge Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Kate Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Selma Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Hall Street	#Name?	#Name?	1	1	#Name?
1		Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	Nares Street	#Name?	#Name?	1	1	#Name?

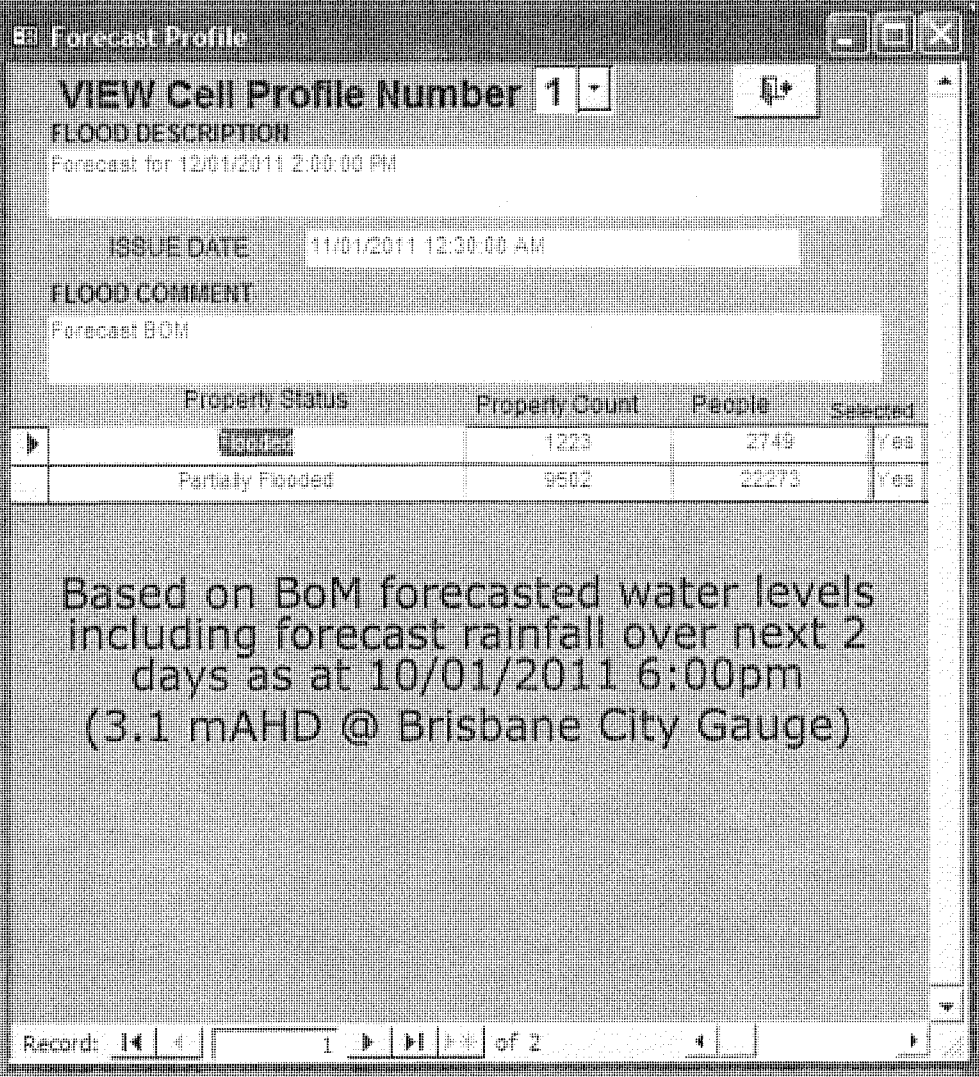
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BROOKFIELD	Flooded	Moggill Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GRACEVILLE	Flooded	Long St East	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Donaldson Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Franklin Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Sherwood Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOUNT CROSBY	Flooded	Mount Crosby Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ST LUCIA	Flooded	Munro Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Kinloch Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Witton Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Short Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Oxley Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Cambridge Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Thomas Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YERONGA	Flooded	Rome Street South	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	HIGHGATE HILL	Flooded	Dauphin Terrace	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Andrew Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Karella Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Lower William Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MUIRLEA	Flooded	Riverside Drive	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Aaron Place	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Woogaroo Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Church Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Dunn Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Marshall Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Medway Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SHERWOOD	Flooded	Egmont Street	#Name?	#Name?	1	1		#Name?

1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	YEERONGPILLY	Flooded	Fairfield Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Sprenger Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINJARRA HILLS	Flooded	Pinjarra Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Ipswich Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ROCKLEA	Flooded	Herbert Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	SUMNER	Flooded	Spine Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Archer Parade	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	INDOOROOPILLY	Flooded	Meiers Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Logan Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Kennard Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BROOKFIELD	Flooded	Kilkivan Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CORINDA	Flooded	Cliveden Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	FIG TREE POCKET	Flooded	Fig Tree Pocket Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOGGILL	Flooded	Myora Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KENMORE	Flooded	Scenic Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	OXLEY	Flooded	Ipswich Motorway	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHUWAR	Flooded	Kholo Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BARELLAN POINT	Flooded	Mitchell Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BARELLAN POINT	Flooded	Riverside Avenue	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	George Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BARELLAN POINT	Flooded	Junction Drive	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	REDBANK	Flooded	Monash Street	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Brisbane Terrace	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ANSTEAD	Flooded	Wirrabara Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Flooded	Wacol Station Road	#Name?	#Name?	1	1		#Name?
1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOUNT CROSBY	Flooded	Bridge	#Name?	#Name?	1	1		#Name?

1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	REDBANK	Flooded	Brisbane Terrace	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	ALBION	Flooded	Inner City Bypass	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	BARELLAN POINT	Flooded	Junction Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Layard Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHUWAR	Flooded	Kholo Bridge	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KHOLO	Flooded	Kholo Bridge	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	PINE MOUNTAIN	Flooded	Kholo Bridge	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	RIVERVIEW	Flooded	Old Ipswich Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOGGILL	Flooded	Priors Pocket Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Noel Kelly Drive	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Wilruna Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	WACOL	Flooded	Wilruna Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	MOGGILL	Flooded	Moggill Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	RIVERVIEW	Flooded	Moggill Fry Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	GOODNA	Flooded	Lower Stuart Street	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	CHUWAR	Flooded	Mount Crosby Road	#Name?	#Name?	1	1	#Name?
1	1	Forecast for 12/01/2011 12:00:00 PM	11-Jan-11	Forecast BOM	KARANA DOWNS	Flooded	Mount Crosby Road	#Name?	#Name?	1	1	#Name?


Created: 11/01/2010 12:30AM
Based on BoM forecasted water levels including forecast rainfall over next 2 days as at 10/01/2011 6:00pm
(3.1 mAHD @ Brisbane City Gauge)
Current FIC Controller: James Charalambous
Current FIC Ass. Controller: Belinda Chapman
Current FIC Bender: James Charalambous

Flooded Properties Summary



Refer to attached Excel document [illegible]

Top Flooded Suburbs

Suburb	Property Status	Count	People	Selected
ROCKLEA	Flooded	183	375	Yes
BRISBANE CITY	Flooded	141	277	Yes
MILTON	Flooded	117	257	Yes
ST LUCIA	Flooded	90	220	Yes
TOOWONG	Flooded	78	172	Yes
ALBION	Flooded	64	134	Yes
AUCHENFLOWER	Flooded	62	136	Yes
FAIRFIELD	Flooded	61	140	Yes
OXLEY	Flooded	49	126	Yes
NORMAN PARK	Flooded	40	116	Yes
NEW FARM	Flooded	30	65	Yes
BULIMBA	Flooded	33	79	Yes
GRACEVILLE	Flooded	27	70	Yes
EAST BRISBANE	Flooded	25	51	Yes
YERONGA	Flooded	24	50	Yes
WINDSOR	Flooded	23	51	Yes
KANGAROO POINT	Flooded	21	43	Yes
SHERWOOD	Flooded	18	46	Yes
NEWSTEAD	Flooded	17	34	Yes
INDOOROOPILLY	Flooded	11	27	Yes
CHELMER	Flooded	11	27	Yes
SOUTH BRISBANE	Flooded	10	21	Yes
YERONGPILLY	Flooded	10	24	Yes
PINKENBA	Flooded	8	18	Yes
MOGGILL	Flooded	7	22	Yes
BOWEN HILLS	Flooded	7	14	Yes
WEST END	Flooded	7	15	Yes
CORINDA	Flooded	6	15	Yes
COORPAROO	Flooded	6	13	Yes
WACOL	Flooded	4	12	Yes
FORTITUDE VALLEY	Flooded	4	8	Yes
TENNYSON	Flooded	3	7	Yes
HERSTON	Flooded	3	6	Yes
HAWTHORNE	Flooded	3	7	Yes
BALMORAL	Flooded	2	5	Yes
FIG TREE POCKET	Flooded	2	6	Yes
HAMILTON	Flooded	2	5	Yes
TYTTON	Flooded	2	5	Yes
MURARRIE	Flooded	2	5	Yes

Refer to attached Excel document in Email for Full List

Top Partially Flooded Suburbs

Suburb	Property Status	Properties	People	Selected
BRISBANE CITY	Partially Flooded	1241	2441	Yes
ST LUCIA	Partially Flooded	584	1402	Yes
NEW FARM	Partially Flooded	445	801	Yes
WEST END	Partially Flooded	363	762	Yes
ROCKLEA	Partially Flooded	289	665	Yes
TOOWONG	Partially Flooded	285	627	Yes
AUCHENFLOWER	Partially Flooded	254	559	Yes
BULIMBA	Partially Flooded	245	568	Yes
CHELMER	Partially Flooded	243	599	Yes
BOWEN HILLS	Partially Flooded	240	480	Yes
YERONGA	Partially Flooded	233	559	Yes
NEWSTEAD	Partially Flooded	227	454	Yes
WINDSOR	Partially Flooded	212	486	Yes
MOGGILL	Partially Flooded	210	651	Yes
MILTON	Partially Flooded	201	442	Yes
KARANA DOWNS	Partially Flooded	200	600	Yes
FIG TREE POCKET	Partially Flooded	190	573	Yes
OXLEY	Partially Flooded	186	479	Yes
INDOOROOPILLY	Partially Flooded	178	439	Yes
FAIRFIELD	Partially Flooded	175	403	Yes
NORMAN PARK	Partially Flooded	174	418	Yes
SOUTH BRISBANE	Partially Flooded	173	303	Yes
SHERWOOD	Partially Flooded	168	433	Yes
HEMMANT	Partially Flooded	160	416	Yes
PINKENBA	Partially Flooded	160	352	Yes
EAST BRISBANE	Partially Flooded	144	295	Yes
ALBION	Partially Flooded	138	290	Yes
GRACEVILLE	Partially Flooded	138	355	Yes
WESTLAKE	Partially Flooded	120	348	Yes
CORINDA	Partially Flooded	104	288	Yes
COORPAROO	Partially Flooded	103	227	Yes
KANGAROO POINT	Partially Flooded	93	191	Yes
KENMORE	Partially Flooded	93	280	Yes
JINDALEE	Partially Flooded	90	280	Yes
HAWTHORNE	Partially Flooded	88	208	Yes
CHERMAR	Partially Flooded	85	255	Yes
BELLBOWRIE	Partially Flooded	85	283	Yes
KHOLO	Partially Flooded	84	252	Yes

Refer to attached Excel document in E-mail for Full List

Top Flooded Infrastructure

Type			Suburb	Status	Selected
SEWER	PUMP STATION		ST LUCIA	Partially Flooded	Yes
MEDICAL	HOSPITAL	BETHANY CHRISTIAN CARE	GRACEVILLE	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
NON-MEDICAL	WELFARE INSTITUTE	WESLEY CENTRAL MISSION	SINNAMON PARK	Partially Flooded	Yes
SEWER	PUMP STATION		ARCHERFIELD	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ACACIA RIDGE	Partially Flooded	Yes
SEWER	PUMP STATION		KENMORE	Partially Flooded	Yes
SEWER	PUMP STATION		KENMORE	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
SEWER	PUMP STATION		FIG TREE POCKET	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		ROCKLEA	Partially Flooded	Yes
SEWER	TREATMENT PLANT		ROCKLEA	Partially Flooded	Yes
ACCOMMODATION	GUEST HOUSE/HOSTEL	THE CONGREGATION OF THE PASSION IN AUSTRAL	OXLEY	Partially Flooded	Yes
SEWER	TREATMENT PLANT		KARANA DOWNS	Partially Flooded	Yes
SEWER	PUMP STATION		FIG TREE POCKET	Partially Flooded	Yes
WATER SUPPY	SAMPLING POINT		SHERWOOD	Partially Flooded	Yes
SEWER	PUMP STATION		KENMORE	Partially Flooded	Yes
SEWER	PUMP STATION		JINDALEE	Partially Flooded	Yes
SEWER	PUMP STATION		JINDALEE	Partially Flooded	Yes
NON-MEDICAL	WELFARE INSTITUTE	THE QUEENSLAND SOCIETY FOR CRIPPLED CHILDRE	CORINDA	Partially Flooded	Yes
SEWER	PUMP STATION		KENMORE	Partially Flooded	Yes
SEWER	PUMP STATION		WESTLAKE	Partially Flooded	Yes
EDUCATION	SCHOOL	UNIVERSITY OF QUEENSLAND	PINJARRA HILLS	Partially Flooded	Yes
SEWER	PUMP STATION		BELLBOWRIE	Partially Flooded	Yes
EDUCATION	SCHOOL	BRISBANE CITY COUNCIL	BELLBOWRIE	Partially Flooded	Yes
MEDICAL	HOSPITAL	DEPARTMENT OF HEALTH - STATE	WACOL	Partially Flooded	Yes
COMMUNICATION	COMMS TOWER		EAGLE FARM	Partially Flooded	Yes
EDUCATION	SCHOOL	THE SISTERS OF THE GOOD SAMARITAN LOURDES	HAWTHORNE	Partially Flooded	Yes

Refer to attached Excel document in Email for Full List

Top Flooded Roads

Flooded Raods sorted by depth (ascending)	Suburb	Status	Selected
Archer Parade	CORINDA	Flooded	Yes
Meiers Road	INDOOROOPILLY	Flooded	Yes
Logan Avenue	OXLEY	Flooded	Yes
Kennard Street	CORINDA	Flooded	Yes
Kilkivan Avenue	BROOKFIELD	Flooded	Yes
Cliveden Avenue	CORINDA	Flooded	Yes
Fig Tree Pocket Road	FIG TREE POCKET	Flooded	Yes
Myora Street	MOGGILL	Flooded	Yes
Scenic Road	KENMORE	Flooded	Yes
Ipswich Motorway	OXLEY	Flooded	Yes
Kholo Road	CHUWAR	Flooded	Yes
Mitchell Street	BARELLAN POINT	Flooded	Yes
Riverside Avenue	BARELLAN POINT	Flooded	Yes
George Street	GOODNA	Flooded	Yes
Junction Drive	BARELLAN POINT	Flooded	Yes
Monash Street	REDBANK	Flooded	Yes
Brisbane Terrace	GOODNA	Flooded	Yes
Wirrabara Road	ANSTEAD	Flooded	Yes
Wacol Station Road	WACOL	Flooded	Yes
Bridge	MOUNT CROSBY	Flooded	Yes
Brisbane Terrace	REDBANK	Flooded	Yes
Inner City Bypass	ALBION	Flooded	Yes
Junction Road	BARELLAN POINT	Flooded	Yes
Layard Street	GOODNA	Flooded	Yes
Kholo Bridge	CHUWAR	Flooded	Yes
Khnlo Bridge	KHOLO	Flooded	Yes
Kholo Bridge	PINE MOUNTAIN	Flooded	Yes
Old Ipswich Road	RIVERVIEW	Flooded	Yes
Priors Pocket Road	MOGGILL	Flooded	Yes
Noel Kelly Drive	GOODNA	Flooded	Yes
Wiruna Street	GOODNA	Flooded	Yes
Wiruna Street	WACOL	Flooded	Yes
Moggill Road	MOGGILL	Flooded	Yes
Moggill Fry Road	RIVERVIEW	Flooded	Yes
Lower Stuart Street	GOODNA	Flooded	Yes
Mount Crosby Road	CHUWAR	Flooded	Yes
Mount Crosby Road	KARANA DOWNS	Flooded	Yes

Refer to attached Excel document in Email for Full List

Flood Damages Spreadsheet

From: [redacted]
To: [redacted]
Date: Tue, 11 Jan 2011 03:18:58 +1000

+=*
Place: Flood_Information_Centre
+=*
Hi Rob/John

Review the spreadsheet and call if necessary and I will take you through the various sheets/assumptions.

Regards
JamesC.

Results in this spreadsheet current as at August, 2010

The following spreadsheets provide a summary of estimated flood damages for each mode
Information provided includes a
(1) summary total damage for each event
(2) summary for each event divided into Residential and Industrial/Commercial
(3) Flood Damages summarised by suburb.

Assumptions/Issues with damage estimates:

- The methodology used was not designed to provide a highly detailed and precise assessment of absolute flood damages rather a reasonably accurate relative difference in flood damage between different flooding
-This methodology estimates only potential direct flood damage (internal, external and structural damage) to residential, commercial, industrial and public properties. Indirect damage (e.g. financial, clean-up and opportunity costs) and intangible damage (i.e. social costs associated with flooding) are not included in the
- The damages calculated have been increased by a factor of three to better reflect the total flood damages. accumulate property flood damage over a prescribed flood event and region. This approach will not provide accurate flood damage estimates for each individual property but is expected to provide reasonably accurate total damages for the overall area analysed.
- Ideally, for accurate estimation of flood damage, locally relevant stage-damage curves for each property type in Brisbane should be used. Unfortunately, such curves are not available. Therefore, for residential properties, the stage-damage curves recently developed for Maroochy Shire (WRM, 2006) have been used. Maroochy Shire curves are expected to provide a reasonable representation of Brisbane flood damages. For non-residential properties, the stage-damage curves recommended in NR&W (2002) have been used
- It is noted that the information available in the Council database to determine damage classes for non-residential (i.e. commercial, industrial and public) properties is limited. Therefore, the damage classes currently assigned for non-residential properties should be considered as only indicative and should be carefully checked if more accurate estimates of non-residential flood damage estimates are required in the Please see the reports provided for the BRISBANE VALLEY FLOOD DAMAGE MINIMISATION STUDY,BRISBANE CITY FLOOD DAMAGE ASSESSMENT for more details on the methodology used.

Commercial/Industrial — Prices are in $A Jun 2010

Suburb	2000c	3000c	4000c	5000c	6000c	7000c	8000c
ACACIA RIDGE	$ -	$ -	$ -	$ -	$ -	$ 204,965	$ 4,581,796
ALBION	$ 36,640	$ 40,285	$ 47,259	$ 182,485	$ 1,854,248	$ 7,919,113	$ 18,862,748
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANNERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANSTEAD	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ARCHERFIELD	$ -	$ -	$ 12,679	$ 861,954	$ 9,752,896	$ 48,699,312	
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASHGROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
AUCHENFLOWER	$ -	$ -	$ 45,153	$ 160,707	$ 261,408	$ 371,167	$ 407,064
BALD HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BALMORAL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BANYO	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BARDON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELLBOWRIE	$ -	$ -	$ -	$ 159,566	$ 8,047,231	$ 14,913,882	
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOONDALL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOWEN HILLS	$ -	$ -	$ -	$ -	$ 103,396	$ 1,495,739	
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIDGEMAN DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIGHTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRISBANE CITY	$ 872,054	$ 1,858,851	$ 3,329,621	$ 4,631,856	$ 5,381,430	$ 6,594,535	$ 16,938,681
BROOKFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BULIMBA	$ 28,314	$ 31,285	$ 36,285	$ 41,586	$ 55,430	$ 176,923	$ 511,451
CALAMVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CANNON HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHANDLER	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHAPEL HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHELMER	$ -	$ -	$ -	$ 1,572,681	$ 4,846,404	$ 7,919,190	
CHUWAR	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CLAYFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COOPERS PLAINS	$ -	$ -	$ -	$ 3,103	$ 695,823	$ 18,097,637	$ 64,323,354
COORPAROO	$ -	$ -	$ -	$ -	$ 3,905	$ 37,737	$ 177,470
CORINDA	$ -	$ 35,913	$ 56,323	$ 58,335	$ 139,881	$ 437,837	$ 1,555,001
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ 46,242
DEAGON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DOOLANDELLA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DURACK	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DUTTON PARK	$ -	$ -	$ -	$ 15,636	$ 75,348	$ 108,162	
EAGLE FARM	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAST BRISBANE	$ -	$ -	$ -	$ 4,489	$ 393,445	$ 1,700,369	$ 5,782,129
ELLEN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FAIRFIELD	$ -	$ -	$ 22,500	$ 648,981	$ 1,724,456	$ 6,226,687	$ 14,778,273
FIG TREE POCKET	$ -	$ 9,006	$ 100,166	$ 145,326	$ 168,968	$ 409,670	$ 654,916
FITZGIBBON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FOREST LAKE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FORTITUDE VALLEY	$ -	$ -	$ -	$ 131,158	$ 390,611	$ 1,043,153	$ 1,995,109
GRACEVILLE	$ -	$ 38,189	$ 129,552	$ 245,760	$ 407,377	$ 1,594,056	$ 3,110,031
GREENSLOPES	$ -	$ -	$ -	$ -	$ -	$ 35,360	$ 288,834
GUMDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HAMILTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HAWTHORNE	$ -	$ -	$ -	$ -	$ 10,742	$ 22,566	$ 89,357
HEATHWOOD	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HEMMANT	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HENDRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HERSTON	$ -	$ -	$ -	$ -	$ -	$ -	$ 46,334
HIGHGATE HILL	$ -	$ -	$ -	$ -	$ -	$ 4,940	$ 121,700
INALA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INDOOROOPILLY	$ -	$ 31,585	$ 92,465	$ 233,798	$ 924,945	$ 2,782,257	$ 3,954,494
JAMBOREE HTS	$ -	$ -	$ -	$ -	$ -	$ 47,852	$ 61,467
JINDALEE	$ 30,154	$ 56,323	$ 777,152	$ 3,796,129	$ 7,900,196	$ 12,267,050	$ 19,340,647
KANGAROO POINT	$ -	$ -	$ -	$ -	$ 25,433	$ 153,536	$ 330,737
KARANA DOWNS	$ 25,300	$ 112,635	$ 112,646	$ 112,646	$ 144,071	$ 188,500	$ 535,091
KELVIN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KENMORE	$ -	$ -	$ -	$ -	$ 25,114	$ 61,732	$ 470,082
KENMORE HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KHOLO	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LOTA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LUTWYCHE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LYTTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MANLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MANLY WEST	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MIDDLE PARK	$ -	$ -	$ -	$ -	$ -	$ 68,038	$ 169,478
MILTON	$ 2,949	$ 284,232	$ 1,186,772	$ 7,398,979	$ 26,791,728	$ 56,377,765	$ 86,597,535
MOGGILL	$ 55,802	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323
MOOROOKA	$ -	$ -	$ -	$ -	$ 105,758	$ 2,269,744	$ 7,834,400
MORNINGSIDE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MT CROSBY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MT OMMANEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MURARRIE	$ 31,049	$ 31,938	$ 33,490	$ 35,394	$ 37,578	$ 40,443	$ 43,303
NEW FARM	$ -	$ -	$ -	$ -	$ -	$ 339	$ 123,158
NEWMARKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NEWSTEAD	$ -	$ -	$ 93,408	$ 336,993	$ 719,359	$ 2,429,919	$ 7,480,927
NORMAN PARK	$ -	$ -	$ -	$ 15,928	$ 87,983	$ 212,115	$ 472,828
NORTHGATE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NUDGEE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NUDGEE BEACH	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NUNDAH	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OXLEY	$ -	$ -	$ 23,386	$ 4,109,573	$ 19,049,255	$ 52,374,114	$ 74,328,650
PADDINGTON	$ -	$ -	$ -	$ -	$ 177,279	$ 2,054,000	$ 5,183,115
PALLARA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PARKINSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PETRIE TERRACE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINJARRA HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINKENBA	$ -	$ -	$ -	$ -	$ 1,603	$ 6,188	$ 10,767
PORT OF BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PULLENVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RED HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RICHLANDS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RIVERHILLS	$ -	$ -	$ -	$ -	$ -	$ 33,159	$ 994,617
ROCKLEA	$ -	$ 310,924	$ 8,938,425	$ 50,368,347	$ 189,789,001	$ 494,784,677	$ 724,986,225
SALISBURY	$ -	$ -	$ -	$ -	$ -	$ -	$ 569,350
SANDGATE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SEVEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SHERWOOD	$ -	$ 43,563	$ 104,476	$ 610,694	$ 3,911,799	$ 23,819,550	$ 47,266,849
SHORNCLIFFE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SINNAMON PARK	$ -	$ -	$ 14,014,785	$ 63,837,719	$ 63,837,719	$ 63,837,719	$ 67,249,835
SOUTH BRISBANE	$ -	$ -	$ -	$ -	$ -	$ 262,321	$ 5,297,456
SPRING HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ST LUCIA	$ -	$ -	$ -	$ 321,860	$ 5,876,497	$ 18,270,404	$ 27,770,399
SUMNER	$ -	$ -	$ -	$ -	$ 7,978,340	$ 63,602,774	$ 129,264,692
SUNNYBANK	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUNNYBANK HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SVTN MILE ROCKS	$ -	$ -	$ 25,784	$ 375,657	$ 5,133,785	$ 18,748,001	$ 29,220,700
TAIGUM	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TARINGA	$ -	$ -	$ -	$ -	$ -	$ 2,656,897	$ 9,741,442
TARRAGINDI	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TENERIFFE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TENNYSON	$ -	$ -	$ -	$ 257,461	$ 4,106,932	$ 22,207,616	$ 37,660,152
TINGALPA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOOWONG	$ -	$ -	$ 46,471	$ 98,489	$ 641,109	$ 4,715,441	$ 11,286,812
VIRGINIA	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WACOL	$ -	$ -	$ 27,269	$ 112,663	$ 112,663	$ 543,485	$ 2,003,604
WAKERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAVELL HEIGHTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WEST END	$ -	$ -	$ 18,193	$ 214,122	$ 440,955	$ 2,779,768	$ 18,207,891
WESTLAKE	$ -	$ -	$ -	$ -	$ -	$ 5,290	$ 50,192
WILLAWONG	$ -	$ -	$ -	$ -	$ 25,735	$ 467,225	$ 737,471
WILSTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WINDSOR	$ -	$ -	$ -	$ -	$ -	$ 8,630	$ 515,142
WOOLLOONGABBA	$ -	$ -	$ -	$ -	$ -	$ -	$ 304,191
WOOLOOWIN	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WYNNUM	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WYNNUM WEST	$ -	$ -	$ -	$ -	$ -	$ -	$ -
YEERONGPILLY	$ -	$ -	$ 89,257	$ 4,653,130	$ 14,901,868	$ 30,480,961	$ 51,582,904
YERONGA	$ -	$ -	$ 14,716	$ 84,351	$ 484,700	$ 3,725,033	$ 10,476,109
ZILLMERE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Commercial/Industrial	$ 1,081,663	$ 2,941,054	$ 29,421,876	$ 143,296,722	$ 367,647,606	$ 958,076,010	$ 1,620,386,933

Residential — Prices are in $A Jun 2010

Suburb	2000c	3000c	4000c	5000c	6000c	7000c	8000c
ACACIA RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ALBION	$ -	$ -	$ -	$ 106,016	$ 655,984	$ 1,326,976	$ 2,995,146
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANNERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANSTEAD	$ -	$ -	$ -	$ -	$ -	$ 652,686	$ 2,006,819
ARCHERFIELD	$ -	$ -	$ -	$ 226,537	$ 3,308,749	$ 9,716,398	$ 16,576,047
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASHGROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
AUCHENFLOWER	$ -	$ 837,126	$ 6,359,915	$ 14,062,769	$ 22,238,937	$ 31,626,283	$ 42,530,958
BALD HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BALMORAL	$ -	$ -	$ -	$ -	$ -	$ 179,677	$ 971,560
BANYO	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BARDON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELLBOWRIE	$ -	$ -	$ -	$ -	$ -	$ 582,434	$ 3,735,412	$ 15,108,803
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOONDALL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOWEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIDGEMAN DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIGHTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRISBANE CITY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BROOKFIELD	$ -	$ -	$ -	$ 151,117	$ 997,267	$ 1,728,231	$ 2,298,034	$ 2,337,363
BULIMBA	$ -	$ -	$ -	$ -	$ 2,153	$ 548,879	$ 4,073,613	$ 11,678,522
CALAMVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CANNON HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHANDLER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHAPEL HILL	$ -	$ -	$ -	$ -	$ 5,867	$ 187,192	$ 630,705	
CHELMER	$ -	$ -	$ -	$ 614,475	$ 4,917,570	$ 27,660,091	$ 76,363,314	$ 136,091,309
CHUWAR	$ 380,366	$ 575,593	$ 578,892	$ 578,892	$ 578,892	$ 578,892	$ 578,892	
CLAYFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COOPERS PLAINS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COORPAROO	$ -	$ -	$ -	$ -	$ -	$ 92,384	$ 1,161,292	$ 3,382,800
CORINDA	$ -	$ -	$ -	$ 127,816	$ 1,864,259	$ 10,894,441	$ 24,401,514	$ 42,204,085
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,987,385	$ 11,589,920
DEAGON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DOOLANDELLA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DURACK	$ -	$ -	$ -	$ -	$ -	$ 273,538	$ 696,414	$ 1,181,369
DUTTON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAGLE FARM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAST BRISBANE	$ -	$ -	$ -	$ -	$ 390,581	$ 4,162,491	$ 9,332,976	$ 16,115,106
ELLEN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FAIRFIELD	$ -	$ -	$ 176,869	$ 10,004,711	$ 37,185,070	$ 62,635,095	$ 120,446,903	
FIG TREE POCKET	$ -	$ 179,232	$ 374,649	$ 1,003,540	$ 11,644,999	$ 28,660,820	$ 50,898,442	
FITZGIBBON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FOREST LAKE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FORTITUDE VALLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRACEVILLE	$ -	$ 8,734	$ 640,690	$ 8,177,627	$ 44,682,525	$ 95,672,958	$ 139,264,437	
GREENSLOPES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GUMDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HAMILTON	$ -	$ -	$ -	$ -	$ 99,392	$ 172,847	$ 472,693	$ 1,130,933
HAWTHORNE	$ -	$ -	$ -	$ 6,096	$ 31,049	$ 88,133	$ 734,128	$ 4,102,367
HEATHWOOD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HEMMANT	$ 147,635	$ 153,535	$ 165,737	$ 180,731	$ 198,227	$ 224,779	$ 266,688	
HENDRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HERSTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HIGHGATE HILL	$ -	$ -	$ -	$ -	$ -	$ 153,479	$ 604,705	$ 1,062,258
INALA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INDOOROOPILLY	$ -	$ -	$ -	$ 185,491	$ 2,263,970	$ 11,956,757	$ 33,709,491	$ 51,900,641
JAMBOREE HTS	$ -	$ -	$ -	$ -	$ -	$ -	$ 672,695	$ 2,665,212
JINDALEE	$ -	$ -	$ -	$ -	$ 11,396	$ 3,346,871	$ 36,230,719	$ 75,409,294
KANGAROO POINT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KARANA DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 161,755
KELVIN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KENMORE	$ -	$ -	$ -	$ -	$ -	$ 1,213,027	$ 13,840,058	$ 26,987,730
KENMORE HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KHOLO	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 160,518
LOTA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LUTWYCHE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LYTTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MANLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MANLY WEST	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MIDDLE PARK	$ -	$ -	$ -	$ -	$ -	$ 412,382	$ 4,646,220	
MILTON	$ -	$ -	$ -	$ 1,003,315	$ 4,271,646	$ 10,813,264	$ 18,844,772	$ 27,025,483
MOGGILL	$ -	$ -	$ -	$ -	$ -	$ -	$ 411,865	$ 1,469,722
MOOROOKA	$ -	$ -	$ -	$ -	$ -	$ 916	$ 252,960	$ 2,363,748
MORNINGSIDE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MT CROSBY	$ 198,526	$ 198,526	$ 198,526	$ 198,526	$ 198,526	$ 196,526	$ 198,526	
MT OMMANEY	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,158,757	$ 6,543,100
MURARRIE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NEW FARM	$ -	$ -	$ -	$ -	$ -	$ 667,099	$ 6,653,845	$ 16,021,488
NEWMARKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NEWSTEAD	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,908	$ 209,323
NORMAN PARK	$ -	$ -	$ -	$ 468	$ 1,240,021	$ 4,194,286	$ 10,722,602	$ 20,172,708
NORTHGATE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NUDGEE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NUDGEE BEACH	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NUNDAH	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OXLEY	$ -	$ -	$ -	$ 887,474	$ 11,185,736	$ 40,806,844	$ 78,863,610	$ 122,870,888
PADDINGTON	$ -	$ -	$ -	$ -	$ 263,643	$ 4,424,136	$ 14,130,085	$ 22,383,012
PALLARA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PARKINSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PETRIE TERRACE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINJARRA HILLS	$ -	$ -	$ -	$ -	$ 379,203	$ 652,162	$ 894,661	$ 1,736,415
PINKENBA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PORT OF BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PULLENVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,780
RED HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RICHLANDS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RIVERHILLS	$ -	$ -	$ -	$ -	$ -	$ 76,990	$ 2,959,541	$ 18,171,638
ROCKLEA	$ -	$ 379,272	$ 3,150,000	$ 26,021,154	$ 64,274,923	$ 112,204,086	$ 156,125,044	
SALISBURY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 282,241
SANDGATE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SEVEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SHERWOOD	$ -	$ 351,638	$ 2,576,214	$ 6,983,381	$ 15,737,783	$ 27,083,515	$ 44,376,578	
SHORNCLIFFE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SINNAMON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ 852,730	$ 6,434,167
SOUTH BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 138,556
SPRING HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ST LUCIA	$ -	$ -	$ -	$ 182,905	$ 4,015,920	$ 14,499,784	$ 26,825,455	$ 44,544,187
SUMNER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 395,789
SUNNYBANK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUNNYBANK HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SVTN MILE ROCKS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 25,060
TAIGUM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TARINGA	$ -	$ -	$ -	$ -	$ 5,149	$ 392,361	$ 2,750,190	$ 7,870,283
TARRAGINDI	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TENERIFFE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TENNYSON	$ -	$ -	$ -	$ -	$ 264,527	$ 3,142,960	$ 13,125,212	$ 22,266,146
TINGALPA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOOWONG	$ -	$ -	$ -	$ -	$ 338,602	$ 1,005,942	$ 2,863,593	$ 6,012,694
VIRGINIA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WACOL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAKERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAVELL HEIGHTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WEST END	$ -	$ -	$ -	$ -	$ 2,261,214	$ 7,422,200	$ 19,329,091	$ 44,500,582
WESTLAKE	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,281,133	$ 39,251,246
WILLAWONG	$ -	$ -	$ -	$ -	$ -	$ 144,137	$ 550,675	$ 2,303,277
WILSTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 105,768
WINDSOR	$ -	$ -	$ -	$ -	$ -	$ 32,726	$ 3,752,668	$ 15,717,755
WOOLLOONGABBA	$ -	$ -	$ -	$ -	$ -	$ 121,044	$ 2,810,860	$ 6,662,604
WOOLOOWIN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WYNNUM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WYNNUM WEST	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
YEERONGPILLY	$ -	$ -	$ -	$ 232,993	$ 1,189,517	$ 2,038,299	$ 3,463,165	$ 3,852,721
YERONGA	$ -	$ -	$ -	$ 188,135	$ 4,012,845	$ 18,037,505	$ 51,091,490	$ 86,533,237
ZILLMERE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Residential	$ 726,527	$ 2,683,657	$ 17,801,777	$ 107,549,485	$ 371,944,763	$ 868,471,797	$ 1,516,075,128	

Total Damage by Suburb

Suburb	2000c	3000c	4000c	5000c	6000c	7000c	8000c
ACACIA RIDGE	$ -	$ -	$ -	$ -	$ -	$ 204,965	$ 4,581,796
ALBION	$ 36,640	$ 40,285	$ 47,259	$ 288,501	$ 2,510,232	$ 9,246,089	$ 21,857,893
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANNERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANSTEAD	$ -	$ -	$ -	$ -	$ -	$ 652,686	$ 2,006,819
ARCHERFIELD	$ -	$ -	$ 12,679	$ 1,088,491	$ 13,061,645	$ 58,415,710	$ 99,275,359
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASHGROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
AUCHENFLOWER	$ -	$ 837,126	$ 6,405,068	$ 14,223,475	$ 22,500,345	$ 31,997,450	$ 42,937,022
BALD HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BALMORAL	$ -	$ -	$ -	$ -	$ -	$ 179,677	$ 971,560
BANYO	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BARDON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELLBOWRIE	$ -	$ -	$ -	$ 159,566	$ 8,047,231	$ 15,491,316	$ 30,022,686
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOONDALL	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOWEN HILLS	$ -	$ -	$ -	$ -	$ 103,396	$ 1,495,739	
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIDGEMAN DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIGHTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRISBANE CITY	$ 872,054	$ 1,858,851	$ 3,329,621	$ 4,631,856	$ 5,381,430	$ 6,594,535	$ 16,938,681
BROOKFIELD	$ -	$ -	$ -	$ 151,117	$ 997,267	$ 1,728,231	$ 2,298,034	$ 2,337,363
BULIMBA	$ 28,314	$ 31,285	$ 36,285	$ 41,586	$ 57,583	$ 725,802	$ 4,585,064	$ 12,189,973
CALAMVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CANNON HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHANDLER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHAPEL HILL	$ -	$ -	$ -	$ -	$ 5,867	$ 187,192	$ 630,705	
CHELMER	$ -	$ -	$ -	$ 614,475	$ 4,917,570	$ 29,232,772	$ 81,200,719	$ 144,910,409
CHUWAR	$ 380,366	$ 575,593	$ 578,892	$ 578,892	$ 578,892	$ 578,892	$ 578,892	
CLAYFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COOPERS PLAINS	$ -	$ -	$ -	$ 3,103	$ 695,823	$ 18,097,637	$ 64,323,354
COORPAROO	$ -	$ -	$ -	$ -	$ 3,905	$ 130,121	$ 1,339,092	$ 3,560,270
CORINDA	$ -	$ 35,913	$ 56,323	$ 186,151	$ 1,864,259	$ 11,332,278	$ 26,956,581	$ 43,759,086
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,987,385	$ 11,636,161
DEAGON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DOOLANDELLA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DURACK	$ -	$ -	$ -	$ -	$ -	$ 273,538	$ 696,414	$ 1,181,369
DUTTON PARK	$ -	$ -	$ -	$ 15,636	$ 75,348	$ 108,162	
EAGLE FARM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAST BRISBANE	$ -	$ -	$ -	$ 4,489	$ 393,445	$ 1,700,369	$ 5,782,129
ELLEN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Commercial/Industrial — Prices are in $A Jun 2010

Suburb	3000c	4000c	5000c	7000c	9000c	10000c	12000c	15000c	21000c	38000c	
ACACIA RIDGE	$ 38,332,626	$ 44,347,405	$ 49,082,102	$ 57,714,912	$ 63,008,008	$ 79,419,523	$ 105,494,252	$ 117,381,472	$ 122,340,595	$ 133,518,364	
ALBION	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 246,940	$ 14,222,413	
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 571,066	
ANNERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 84,735	$ 538,572	
ANSTEAD	$ -	$ -	$ -	$ 3,731,607	$ 66,708,322	$ 145,781,611	$ 275,213,078	$ 339,354,616	$ 431,881,607	$ 517,472,460	
ARCHERFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,019,434	
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 700,422	
ASHGROVE	$ 48,970	$ 134,104	$ 241,969	$ 350,741	$ 350,741	$ 407,064	$ 2,104,311	$ 4,616,881	$ 9,411,071	$ 33,102,791	
AUCHENFLOWER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BALD HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,797,713	$ 2,863,966	
BALMORAL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 188,032,532	
BANYO	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 59,566	
BARDON	$ -	$ -	$ -	$ 6,957,899	$ 15,640,524	$ 15,807,906	$ 15,840,240	$ 15,864,229	$ 15,864,229	$ 15,864,229	
BELLBOWRIE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BOONDALL	$ 8,055,560	$ 10,256,080	$ 12,790,027	$ 17,733,176	$ 21,436,104	$ 33,016,966	$ 71,793,588	$ 120,599,457	$ 198,102,119	$ 256,707,558	
BOWEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BRIGHTON	$ -	$ -	$ 21,832	$ 965,917	$ 51,077,898	$ 98,539,456	$ 205,624,164	$ 297,310,698	$ 479,199,995	$ 792,985,611	
BRISBANE CITY	$ -	$ -	$ -	$ -	$ -	$ -	$ 156,886	$ 175,370	$ 175,370	$ 581,190	
BROOKFIELD	$ -	$ -	$ -	$ 976,071	$ 19,354,812	$ 43,687,097	$ 128,086,566	$ 188,800,192	$ 206,114,076	$ 215,577,329	
BULIMBA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
CALAMVALE	$ -	$ -	$ -	$ -	$ 32,330	$ 48,848	$ 56,323	$ 56,323	$ 302,458	$ 6,569,416	
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 942,679	$ 6,058,547	$ 34,718,006	
CANNON HILL	$ -	$ -	$ -	$ 10,352	$ 20,422	$ 29,085	$ 13,934	$ 22,082	$ 215,506	$ 22,183,456	
CARINA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 159,981	
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
CHANDLER	$ -	$ -	$ -	$ -	$ -	$ -	$ 458,044	$ 829,831	$ 1,258,359	$ 1,314,682	
CHAPEL HILL	$ -	$ -	$ -	$ 39,763	$ 8,314,648	$ 8,813,619	$ 9,040,578	$ 16,820,695	$ 30,966,413	$ 30,966,413	
CHELMER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24,313	$ 56,323	$ 56,323	
CHUWAR	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 577,053	
CLAYFIELD	$ -	$ -	$ -	$ 8,024,827	$ 77,975,314	$ 125,732,817	$ 218,997,867	$ 316,723,761	$ 441,998,329	$ 526,493,923	
COOPERS PLAINS	$ -	$ -	$ -	$ 452,003	$ 17,821,832	$ 47,916,236	$ 123,001,079	$ 145,438,441	$ 161,923,755	$ 186,888,516	
COORPAROO	$ -	$ 44,046	$ 56,323	$ 269,475	$ 1,922,991	$ 2,651,317	$ 6,187,876	$ 9,624,999	$ 33,792,229	$ 63,054,654	
CORINDA	$ -	$ -	$ -	$ -	$ 130,249	$ 227,313	$ 249,277	$ 457,243	$ 31,495,178	$ 140,115,090	
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
DEAGON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
DOOLANDELLA	$ -	$ -	$ -	$ -	$ -	$ 50,020	$ 56,323	$ 106,686	$ 231,693	$ 231,693	
DURACK	$ -	$ -	$ -	$ -	$ 112,646	$ 112,646	$ 191,602	$ 288,016	$ 288,016	$ 324,543	
DUTTON PARK	$ -	$ -	$ -	$ -	$ -	$ 287,520	$ 33,568,421	$ 160,679,706	$ 513,576,239	$ 1,113,171,757	
EAGLE FARM	$ -	$ -	$ -	$ 8,075,071	$ 20,677,569	$ 27,587,337	$ 36,233,066	$ 49,807,195	$ 94,761,090	$ 191,109,806	
EAST BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 17,529	$ 910,653	
ELLEN GROVE	$ -	$ -	$ -	$ 4,734,465	$ 18,453,211	$ 24,929,374	$ 30,773,046	$ 30,773,046	$ 30,998,816	$ 30,998,354	
FAIRFIELD	$ -	$ -	$ 55,274	$ 168,968	$ 705,598	$ 2,095,007	$ 4,190,547	$ 7,675,062	$ 9,776,170	$ 13,616,972	
FIG TREE POCKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
FITZGIBBON	$ -	$ -	$ 3,031,668	$ 6,584,768	$ 8,935,516	$ 14,913,829	$ 45,469,953	$ 79,327,416	$ 133,766,625	$ 209,571,968	
FORTITUDE VALLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
GEEBUNG	$ -	$ -	$ 36,520	$ 1,001,837	$ 3,246,440	$ 7,642,178	$ 21,894,592	$ 29,767,901	$ 60,742,517	$ 71,451,214	
GRACEVILLE	$ -	$ -	$ -	$ 434,945	$ 3,597,135	$ 8,578,883	$ 27,322,713	$ 47,011,607	$ 76,199,575	$ 79,275,565	
GREENSLOPES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
GUMDALE	$ -	$ -	$ -	$ -	$ 43,156	$ 407,969	$ 8,191,697	$ 21,720,349	$ 41,856,561	$ 58,525,374	
HAMILTON	$ -	$ -	$ 8,702	$ 85,431	$ 188,498	$ 218,298	$ 231,693	$ 273,036	$ 1,685,968	$ 1,690,030	
HAWTHORNE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
HEATHWOOD	$ 154,184	$ 905,772	$ 1,997,568	$ 7,887,861	$ 13,106,949	$ 16,001,038	$ 10,017,611	$ 18,422,683	$ 223,454,198	$ 486,699,713	
HEMMANT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,415,235	
HENDRA	$ 1,857,172	$ 2,206,413	$ 2,669,631	$ 3,699,920	$ 4,824,639	$ 5,622,352	$ 17,416,603	$ 25,695,712	$ 35,358,390	$ 39,673,754	
HERSTON	$ -	$ -	$ -	$ 15,523	$ 161,671	$ 175,370	$ 175,370	$ 175,370	$ 175,370	$ 175,370	
HIGHGATE HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ 207,687	$ 1,519,047	$ 3,153,138	$ 6,524,423	
INALA	$ -	$ 45,604	$ 56,323	$ 2,124,112	$ 4,111,777	$ 5,387,627	$ 10,508,873	$ 17,620,880	$ 52,205,568	$ 125,338,756	
INDOOROOPILLY	$ -	$ -	$ -	$ 45,738	$ 202,315	$ 285,304	$ 288,016	$ 1,277,935	$ 3,306,555	$ 11,359,887	
JAMBOREE HTS	$ -	$ 116,234	$ 1,382,199	$ 12,090,547	$ 26,474,524	$ 38,931,038	$ 61,256,646	$ 97,744,017	$ 109,723,108	$ 123,219,730	
JINDALEE	$ -	$ -	$ -	$ 295,552	$ 449,267	$ 463,386	$ 463,386	$ 671,045	$ 1,128,147	$ 4,599,753	
KANGAROO POINT	$ 28,226	$ 112,646	$ 112,646	$ 293,119	$ 569,647	$ 625,970	$ 625,970	$ 625,970	$ 2,815,453	$ 4,312,944	
KARANA DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,645,263	$ 13,663,204	$ 24,999,954	
KELVIN GROVE	$ -	$ -	$ -	$ 57,727	$ 564,217	$ 757,733	$ 7,042,666	$ 12,019,825	$ 18,659,629	$ 31,811,418	
KENMORE	$ -	$ -	$ -	$ -	$ 40,775	$ 150,969	$ 175,370	$ 175,370	$ 197,101	$ 231,693	
KENMORE HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
KHOLO	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
LAKE MANCHESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,155,991	
LARAPINTA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
LOTA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
LUTWYCHE	$ 17,566	$ 671,505	$ 1,193,703	$ 1,869,368	$ 2,643,540	$ 3,053,043	$ 2,125,720	$ 2,702,519	$ 56,006,894	$ 255,477,844	
LYTTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
MANLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
MANLY WEST	$ -	$ -	$ -	$ 60,244	$ 204,963	$ 229,698	$ 1,459,293	$ 8,465,670	$ 34,665,003	$ 40,176,148	
MIDDLE PARK	$ 252,162	$ 6,922,414	$ 23,622,750	$ 60,447,406	$ 80,985,990	$ 97,556,095	$ 202,124,679	$ 225,833,190	$ 405,030,465	$ 418,266,659	
MILTON	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 56,323	$ 231,693	
MOGGILL	$ -	$ -	$ -	$ 1,112,265	$ 10,109,938	$ 22,978,076	$ 49,639,926	$ 74,129,794	$ 112,356,843	$ 137,403,663	
MOOROOKA	$ -	$ -	$ -	$ 82,172	$ 1,153,925	$ 5,645,275	$ 34,589,649	$ 101,523,428	$ 235,901,404	$ 294,954,099	
MORNINGSIDE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
MT CROSBY	$ -	$ -	$ -	$ -	$ -	$ 36,745	$ 231,197	$ 8,862,834	$ 61,639,561	$ 69,825,798	
MT OMMANEY	$ 31,326	$ 33,826	$ 36,991	$ 63,101	$ 79,444	$ 85,228	$ 87,216	$ 925,286	$ 38,164,554	$ 203,229,839	
MURARRIE	$ -	$ -	$ -	$ 32,682	$ 184,984	$ 9,512,293	$ 16,623,504	$ 18,865,849	$ 19,479,398	$ 19,479,398	
NEW FARM	$ -	$ -	$ -	$ -	$ -	$ -	$ 444,956	$ 5,009,772	$ 10,309,826	$ 11,453,016	
NEWMARKET	$ 16,148,016	$ 19,630,814	$ 34,015,593	$ 46,179,658	$ 53,610,458	$ 80,761,512	$ 136,902,343	$ 153,643,425	$ 166,503,351	$ 183,145,872	
NEWSTEAD	$ -	$ -	$ -	$ 592,166	$ 1,159,153	$ 1,370,697	$ 1,538,131	$ 1,645,059	$ 1,705,495	$ 4,001,248	
NORMAN PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 176,218,649	
NORTHGATE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 43,501	$ 202,403	
NUDGEE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,411	$ 192,075	
NUDGEE BEACH	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 53,776	$ 10,747,732	
NUNDAH	$ -	$ -	$ 161,058	$ 38,895,318	$ 77,592,153	$ 84,981,688	$ 99,102,399	$ 114,103,480	$ 154,062,656	$ 220,536,683	
OXLEY	$ -	$ -	$ 450,553	$ 5,221,296	$ 6,990,093	$ 8,150,756	$ 9,413,649	$ 10,822,637	$ 11,097,995	$ 19,735,550	
PADDINGTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
PALLARA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 56,323	
PARKINSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 655,315	
PETRIE TERRACE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,157,727	$ 3,800,128	
PINJARRA HILLS	$ -	$ -	$ -	$ 535,568	$ 904,697	$ 1,225,177	$ 657,903	$ 14,450,059	$ 223,679,052	$ 598,802,206	
PINKENBA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 151,601	
PORT OF BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 330,936	$ 1,665,365	$ 4,691,074	
PULLENVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
RANSOME	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,567,819	
RED HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,561,456	$ 30,319,180	$ 118,712,098	
RICHLANDS	$ -	$ -	$ -	$ 74,411	$ 3,307,340	$ 4,366,410	$ 4,366,410	$ 4,437,619	$ 5,267,678	$ 5,267,678	
RIVERHILLS	$ -	$ 25,160	$ 9,807,567	$ 378,292,209	$ 773,325,204	$ 940,869,529	$ 1,127,855,776	$ 1,165,145,676	$ 1,190,257,251	$ 1,193,748,331	
ROCKLEA	$ -	$ -	$ -	$ -	$ 825,756	$ 9,050,813	$ 52,267,561	$ 74,635,791	$ 105,167,089	$ 218,532,356	
SALISBURY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
SANDGATE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
SEVEN HILLS	$ -	$ -	$ -	$ 15,283,984	$ 51,120,562	$ 59,739,161	$ 72,086,503	$ 79,013,324	$ 89,420,337	$ 103,923,783	
SHERWOOD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
SHORNCLIFFE	$ -	$ -	$ -	$ 63,837,719	$ 72,117,928	$ 98,040,049	$ 128,162,004	$ 131,048,819	$ 132,945,315	$ 135,081,261	
SINNAMON PARK	$ -	$ -	$ -	$ 1,607,436	$ 123,077,439	$ 255,697,687	$ 434,500,430	$ 518,713,455	$ 610,091,556	$ 701,625,142	
SOUTH BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
SPRING HILL	$ -	$ -	$ -	$ 20,308,842	$ 35,208,114	$ 49,656,523	$ 73,696,300	$ 113,682,561	$ 191,341,257	$ 339,488,452	
ST LUCIA	$ -	$ -	$ -	$ 60,728,162	$ 155,459,682	$ 170,738,396	$ 199,595,345	$ 223,137,458	$ 250,040,809	$ 284,925,856	
SUMNER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 71,567	
SUNNYBANK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
SUNNYBANK HILLS	$ -	$ -	$ -	$ 36,426	$ 14,353,003	$ 32,677,185	$ 42,766,208	$ 56,265,129	$ 71,226,267	$ 89,978,575	$ 110,341,195
SVTN MILE ROCKS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
TAIGUM	$ -	$ -	$ -	$ 69,375	$ 4,411,613	$ 14,321,357	$ 14,418,872	$ 14,467,717	$ 14,617,444	$ 14,654,001	$ 20,839,775
TARINGA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
TARRAGINDI	$ -	$ -	$ -	$ 1,252,132	$ 3,495,188	$ 5,200,420	$ 15,379,519	$ 54,816,812	$ 75,495,916	$ 75,677,056	$ 81,166,894
TENERIFFE	$ -	$ -	$ -	$ -	$ 13,526,902	$ 38,562,099	$ 41,471,841	$ 47,861,495	$ 55,247,378	$ 63,161,622	$ 84,446,477
TENNYSON	$ 747	$ 36,372	$ 94,496	$ 352,916	$ 483,202	$ 537,815	$ 413,446	$ 498,900	$ 1,711,945	$ 23,996,935	
TINGALPA	$ 55,040	$ 104,344	$ 173,410	$ 4,184,931	$ 16,623,196	$ 29,739,163	$ 35,751,190	$ 45,462,624	$ 99,051,577	$ 144,286,762	
TOOWONG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,317,897	
VIRGINIA	$ -	$ -	$ -	$ 19,166	$ 442,998	$ 4,024,152	$ 16,013,195	$ 123,064,402	$ 242,366,313	$ 464,832,830	$ 637,212,442
WACOL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
WAKERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
WAVELL HEIGHTS	$ -	$ -	$ -	$ 141,561	$ 1,530,335	$ 35,492,741	$ 58,226,273	$ 89,573,537	$ 116,099,048	$ 145,757,058	$ 183,516,293
WEST END	$ -	$ -	$ -	$ -	$ -	$ 152,856	$ 218,204	$ 3,380,622	$ 3,405,564	$ 3,493,268	$ 3,493,268
WESTLAKE	$ -	$ -	$ -	$ -	$ 274,486	$ 782,947	$ 1,296,323	$ 1,930,999	$ 2,595,906	$ 27,152,015	$ 79,868,059
WILLAWONG	$ 89,814	$ 133,849	$ 213,999	$ 413,231	$ 928,691	$ 1,312,779	$ 6,061,024	$ 11,574,407	$ 14,630,010	$ 22,623,427	
WILSTON	$ 6,329,927	$ 7,074,999	$ 7,848,269	$ 9,419,401	$ 11,309,075	$ 13,506,698	$ 31,365,901	$ 47,745,076	$ 69,466,663	$ 81,662,410	
WINDSOR	$ 3,582,638	$ 3,581,633	$ 3,582,638	$ 4,070,610	$ 9,414,839	$ 19,243,794	$ 41,402,112	$ 89,879,583	$ 152,393,914	$ 254,867,650	
WOOLLOONGABBA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
WOOLOOWIN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
WYNNUM	$ -	$ -	$ -	$ 910,714	$ 1,083,843	$ 1,186,043	$ 993,039	$ 1,113,577	$ 7,025,528	$ 20,725,512	
WYNNUM WEST	$ -	$ -	$ -	$ 23,754,441	$ 55,996,629	$ 70,918,328	$ 105,149,768	$ 129,975,099	$ 134,360,868	$ 135,138,951	
YEERONGPILLY	$ -	$ -	$ 26,832	$ 2,366,679	$ 12,543,200	$ 15,754,611	$ 28,447,045	$ 42,569,396	$ 70,063,620	$ 90,662,817	
YERONGA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
ZILLMERE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Total Commercial/Industrial	$ 75,040,297	$ 96,439,543	$ 154,345,747	$ 923,610,210	$ 2,140,173,883	$ 3,003,082,545	$ 4,767,148,681	$ 6,184,936,383	$ 9,194,163,626	$ 13,720,550,022	

Residential — Prices are in $A Jun 2010

Suburb	3000c	4000c	5000c	7000c	9000c	10000c	12000c	15000c	21000c	38000c	
ACACIA RIDGE	$ 5,090,324	$ 5,907,615	$ 13,495,775	$ 15,563,529	$ 17,541,806	$ 21,245,486	$ 37,329,525	$ 50,699,889	$ 70,400,354	$ 100,521,681	
ALBION	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 524,849	$ 23,273,351	$ 169,589,118	
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ 4,194	$ 3,533,287	$ 7,360,470	$ 34,156,465	$ 123,734,809	
ANNERLEY	$ -	$ -	$ -	$ 717,865	$ 3,370,486	$ 6,045,484	$ 12,166,723	$ 19,250,342	$ 38,138,292	$ 67,750,135	
ANSTEAD	$ -	$ -	$ -	$ 6,818,046	$ 18,949,067	$ 34,218,438	$ 46,716,327	$ 49,656,590	$ 55,464,146	$ 72,950,918	
ARCHERFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,594,677	$ 86,968,288	
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,698,546	$ 47,815,056	
ASHGROVE	$ 5,158,815	$ 14,286,393	$ 21,014,543	$ 37,807,276	$ 41,883,313	$ 56,604,540	$ 86,230,662	$ 111,868,572	$ 160,969,752	$ 251,635,694	
AUCHENFLOWER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BALD HILLS	$ -	$ -	$ -	$ 470,284	$ 7,417,352	$ 10,789,476	$ 25,283,432	$ 45,198,368	$ 76,813,833	$ 120,403,626	
BALMORAL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 61,224,147	
BANYO	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,156,904	$ 21,560,347	
BARDON	$ -	$ -	$ -	$ 3,461,094	$ 26,393,292	$ 47,362,651	$ 77,618,184	$ 111,248,307	$ 166,707,038	$ 249,436,072	
BELLBOWRIE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,719,892	
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,057,936	
BOONDALL	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,547	$ 272,262	$ 1,826,271	$ 8,394,250	
BOWEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BRIGHTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
BRISBANE CITY	$ -	$ 19,311	$ 409,073	$ 2,290,681	$ 2,449,240	$ 3,126,576	$ 5,404,572	$ 13,736,078	$ 42,502,431	$ 83,412,388	
BROOKFIELD	$ -	$ -	$ -	$ 8,618,362	$ 61,899,922	$ 117,377,832	$ 250,956,115	$ 302,999,023	$ 331,301,312	$ 377,077,262	
BULIMBA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 17,771,265	
CALAMVALE	$ -	$ -	$ -	$ -	$ -	$ 3,115,906	$ 5,729,820	$ 11,290,427	$ 16,567,494	$ 36,190,618	
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 635,862	$ 7,261,144	$ 40,706,101	
CANNON HILL	$ -	$ 14,591	$ 339,456	$ 879,395	$ 1,283,104	$ 520,820	$ 935,743	$ 6,953,979	$ 99,376,979		
CARINA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 917,652	
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
CHANDLER	$ -	$ -	$ -	$ 172,006	$ 1,161,349	$ 3,387,429	$ 10,587,396	$ 14,289,332	$ 41,199,148	$ 124,993,961	
CHAPEL HILL	$ -	$ -	$ -	$ 36,686,860	$ 148,512,875	$ 179,612,141	$ 212,653,854	$ 230,771,346	$ 288,446,831	$ 301,612,158	
CHELMER	$ 380,366	$ 578,892	$ 578,892	$ 578,892	$ 697,468	$ 743,809	$ 1,314,736	$ 2,194,203	$ 4,225,631	$ 5,077,752	
CHUWAR	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 23,836,735	
CLAYFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ 565,217	$ 3,111,473	$ 23,975,998	$ 134,285,513	
COOPERS PLAINS	$ -	$ -	$ -	$ 1,705,202	$ 21,442,050	$ 41,363,277	$ 93,908,436	$ 133,054,104	$ 213,573,838	$ 423,546,353	
COORPAROO	$ -	$ 199,938	$ 19,274,850	$ 47,618,560	$ 85,092,626	$ 102,975,580	$ 135,504,230	$ 217,135,060	$ 380,911,558		
CORINDA	$ -	$ -	$ -	$ 1,683,642	$ 20,385,889	$ 30,611,326	$ 49,547,234	$ 58,562,647	$ 80,229,822	$ 177,853,670	
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
DEAGON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,245,948	
DOOLANDELLA	$ -	$ -	$ -	$ 445,592	$ 1,366,282	$ 2,781,243	$ 15,817,513	$ 45,773,713	$ 126,775,699	$ 296,862,830	
DURACK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 676,183	$ 3,236,270	
DUTTON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,014,504	
EAGLE FARM	$ -	$ -	$ -	$ 18,237,135	$ 35,412,527	$ 48,667,314	$ 75,182,512	$ 106,497,926	$ 170,114,212	$ 363,849,370	
EAST BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 152,438	
ELLEN GROVE	$ -	$ -	$ -	$ 72,421,173	$ 133,463,900	$ 155,142,893	$ 192,916,861	$ 221,688,405	$ 263,173,725	$ 289,259,868	
FAIRFIELD	$ -	$ 265,060	$ 417,167	$ 21,546,177	$ 54,505,104	$ 75,423,939	$ 128,700,993	$ 156,851,721	$ 215,028,394	$ 267,355,794	
FIG TREE POCKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
FITZGIBBON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,695,495	
FORTITUDE VALLEY	$ -	$ -	$ -	$ 122,290	$ 238,989	$ 670,857	$ 2,500,360	$ 6,403,558	$ 15,569,674	$ 37,144,188	
GEEBUNG	$ -	$ 11,731	$ 548,654	$ 78,034,760	$ 149,020,765	$ 190,803,265	$ 270,660,221	$ 349,669,455	$ 479,086,735	$ 508,130,336	
GRACEVILLE	$ -	$ -	$ -	$ 282,739	$ 4,104,370	$ 17,300,683	$ 54,327,462	$ 86,710,243	$ 154,537,797	$ 321,690,909	
GREENSLOPES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
GUMDALE	$ 2,270,413	$ 2,776,845	$ 3,170,510	$ 3,773,514	$ 4,707,089	$ 6,519,048	$ 12,924,375	$ 23,123,212	$ 57,495,466	$ 155,235,023	
HAMILTON	$ -	$ 15,008	$ 66,569	$ 1,822,418	$ 28,936,546	$ 46,112,392	$ 114,247,332	$ 169,887,046	$ 232,857,642	$ 316,115,214	
HAWTHORNE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
HEATHWOOD	$ 5,642,407	$ 12,054,683	$ 16,312,186	$ 26,902,365	$ 31,689,085	$ 33,859,208	$ 29,269,361	$ 32,501,701	$ 78,590,244	$ 188,072,693	
HEMMANT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 29,895,261	
HENDRA	$ 2,234,381	$ 2,599,454	$ 3,006,085	$ 3,892,677	$ 4,652,212	$ 5,201,927	$ 10,893,320	$ 16,658,206	$ 28,921,570	$ 62,056,770	
HERSTON	$ -	$ -	$ -	$ 625,798	$ 1,270,074	$ 2,212,971	$ 3,219,078	$ 3,399,312	$ 8,465,005	$ 40,813,838	
HIGHGATE HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,108,308	$ 10,413,071	$ 131,074,110	
INALA	$ -	$ -	$ 148,984	$ 26,801,121	$ 55,165,472	$ 68,423,056	$ 94,481,424	$ 120,087,569	$ 205,966,257	$ 385,960,694	
INDOOROOPILLY	$ -	$ -	$ -	$ 607,117	$ 4,265,538	$ 6,256,751	$ 20,974,116	$ 36,187,962	$ 68,295,020	$ 139,434,764	
JAMBOREE HTS	$ -	$ -	$ 31,380,150	$ 96,259,151	$ 132,114,972	$ 192,947,711	$ 254,826,481	$ 335,998,892	$ 415,898,451		
JINDALEE	$ -	$ -	$ -	$ -	$ 857,799	$ 3,800,903	$ 10,007,941	$ 18,883,006	$ 62,460,678	$ 172,993,711	
KANGAROO POINT	$ -	$ -	$ -	$ -	$ 2,278,776	$ 28,599,218	$ 123,943,168	$ 160,659,251	$ 222,916,397	$ 271,075,445	
KARANA DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,690,445	$ 3,550,706	$ 11,408,932	$ 44,425

Commercial/Industrial	Prices are in $A Jun 2010							
Suburb	1m6	1m8	2m0	2m2	2m4	2m6	2m8	3m0
ACACIA RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ALBION	$ 53,055	$ 624,905	$ 2,737,711	$ 7,015,829	$ 13,500,273	$ 21,548,312	$ 30,320,556	$ 39,627,647
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANNERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANSTEAD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ARCHERFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASHGROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
AUCHENFLOWER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BALD HILLS	$ 44,574	$ 51,033	$ 72,845	$ 103,709	$ 139,419	$ 170,328	$ 197,837	$ 224,085
BALMORAL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BANYO	$ -	$ -	$ -	$ 18,266	$ 47,626	$ 89,005	$ 467,596	$ 1,538,095
BARDON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELLBOWRIE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOONDALL	$ -	$ -	$ -	$ -	$ 4,374	$ 14,121	$ 21,776	$ 29,431
BOWEN HILLS	$ -	$ -	$ -	$ 79,093	$ 821,509	$ 2,128,956	$ 4,176,602	$ 7,302,592
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIGHTON	$ -	$ -	$ -	$ 14,406	$ 100,259	$ 289,474	$ 676,057	$ 1,167,821
BRISBANE CITY	$ -	$ -	$ -	$ 5,690	$ 15,108	$ 22,763	$ 30,418	$ 37,039
BROOKFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BULIMBA	$ 50,801	$ 130,904	$ 301,491	$ 837,036	$ 2,299,298	$ 5,618,814	$ 11,507,215	$ 19,862,205
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CANNON HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINA	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,260	$ 11,462
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHANDLER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHAPEL HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHELMER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHUWAR	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CLAYFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COOPERS PLAINS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COORPAROO	$ -	$ -	$ -	$ -	$ 2,692	$ 16,828	$ 34,331	$ 52,596
CORINDA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DEAGON	$ 24,999	$ 32,527	$ 74,576	$ 116,415	$ 150,853	$ 183,202	$ 211,401	$ 239,978
DURACK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DUTTON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAGLE FARM	$ 1,632	$ 33,941	$ 58,765	$ 86,596	$ 186,111	$ 645,557	$ 2,403,898	$ 7,944,264
EAST BRISBANE	$ -	$ -	$ -	$ 67,554	$ 336,029	$ 877,323	$ 1,541,264	$ 2,623,813
ELLEN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FAIRFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FIG TREE POCKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FITZGIBBON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FORTITUDE VALLEY	$ -	$ -	$ -	$ 19,140	$ 236,379	$ 577,417	$ 997,692	$ 1,859,154
GEEBUNG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRACEVILLE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GREENSLOPES	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,984	$ 84,204
GUMDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HAMILTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 106,720
HAWTHORNE	$ -	$ 3,857	$ 13,733	$ 21,388	$ 29,043	$ 35,893	$ 42,268	$ 48,099
HEMMANT	$ -	$ -	$ 151,335	$ 781,824	$ 2,487,280	$ 7,248,542	$ 18,406,698	$ 36,882,442
HENDRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HERSTON	$ -	$ -	$ -	$ -	$ -	$ 87,351	$ 236,598	$ 566,451
HIGHGATE HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INALA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INDOOROOPILLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
JAMBOREE HTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
JINDALEE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KANGAROO POINT	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,465	$ 34,774
KARANA DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KELVIN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KENMORE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KENMORE HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LAKE MANCHESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LARAPINTA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LOTA	$ -	$ -	$ -	$ 9,037	$ 17,619	$ 25,274	$ 32,756	$ 39,130
LYTTON	$ -	$ -	$ 308,481	$ 840,959	$ 1,455,631	$ 2,363,050	$ 3,914,967	$ 7,764,926
MANLY	$ -	$ -	$ -	$ 38,139	$ 131,351	$ 265,533	$ 491,231	$ 960,687
MANLY WEST	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MIDDLE PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MILTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MOGGILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MOOROOKA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MORNINGSIDE	$ -	$ 2,621	$ 40,028	$ 94,622	$ 180,179	$ 371,996	$ 1,448,393	$ 3,891,823
MT OMMANEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MURARRIE	$ 48,770	$ 50,895	$ 53,020	$ 55,543	$ 61,346	$ 79,017	$ 273,048	$ 910,363
NEW FARM	$ -	$ -	$ -	$ -	$ -	$ 13,592	$ 268,291	$ 809,726
NEWMARKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NEWSTEAD	$ 234,089	$ 529,530	$ 987,370	$ 2,195,413	$ 4,962,494	$ 9,323,356	$ 15,946,473	$ 24,685,509
NORMAN PARK	$ -	$ -	$ 9,153	$ 35,331	$ 83,106	$ 122,142	$ 194,672	$ 307,398
NORTHGATE	$ -	$ -	$ -	$ -	$ 8,029	$ 16,864	$ 26,776	$ 79,719
NUDGEE	$ -	$ -	$ -	$ -	$ 2,836	$ 35,145	$ 59,620	$ 82,578
NUDGEE BEACH	$ -	$ -	$ -	$ 26,515	$ 86,572	$ 146,872	$ 210,919	$ 267,211
NUNDAH	$ -	$ -	$ -	$ -	$ 32,169	$ 57,505	$ 80,463	$ 102,610
OXLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PADDINGTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PARKINSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PETRIE TERRACE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINJARRA HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINKENBA	$ 20,093	$ 149,167	$ 741,823	$ 2,295,848	$ 5,128,075	$ 11,031,156	$ 25,080,896	$ 51,126,811
PORT OF BRISBANE	$ -	$ -	$ -	$ -	$ 17,698	$ 47,222	$ 75,357	$ 194,701
PULLENVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RANSOME	$ -	$ -	$ -	$ 29,378	$ 148,731	$ 293,072	$ 503,041	$ 781,482
RED HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RICHLANDS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RIVERHILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ROCKLEA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SALISBURY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SANDGATE	$ -	$ 27,792	$ 67,318	$ 107,993	$ 207,673	$ 447,243	$ 1,190,216	$ 2,686,576
SEVEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SHERWOOD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SHORNCLIFFE	$ -	$ 39,358	$ 106,846	$ 276,085	$ 548,516	$ 834,468	$ 1,107,966	$ 1,373,786
SINNAMON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SOUTH BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SPRING HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ST LUCIA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUMNER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUNNYBANK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SVTN MILE ROCKS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TAIGUM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TARINGA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TARRAGINDI	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TENERIFFE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 379,389
TENNYSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TINGALPA	$ -	$ -	$ 1,848	$ 29,665	$ 79,097	$ 196,576	$ 386,888	$ 579,243
TOOWONG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
VIRGINIA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WACOL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAKERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAVELL HEIGHTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WEST END	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WESTLAKE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WILLAWONG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WILSTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WINDSOR	$ -	$ -	$ -	$ -	$ 195,864	$ 761,845	$ 1,598,850	$ 2,955,773
WOOLLOONGABBA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,608
WOOLOOWIN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WYNNUM	$ 49,563	$ 72,521	$ 95,478	$ 155,396	$ 307,489	$ 561,141	$ 1,004,105	$ 1,478,930
WYNNUM WEST	$ -	$ 7,348	$ 51,299	$ 148,152	$ 348,510	$ 644,355	$ 940,431	$ 1,305,079
YEERONGPILLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
YERONGA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Commercial/Industrial	$ 527,576	$ 1,756,398	$ 5,873,120	$ 15,507,856	$ 34,391,548	$ 67,155,785	$ 126,155,233	$ 223,032,874

Residential	Prices are in $A Jun 2010							
Suburb	1m6	1m8	2m0	2m2	2m4	2m6	2m8	3m0
ACACIA RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ALBION	$ 8,211	$ 391,480	$ 830,410	$ 1,250,179	$ 2,265,768	$ 3,488,390	$ 4,976,640	$ 6,521,236
ALGESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANNERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ANSTEAD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ARCHERFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASCOT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ASHGROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
AUCHENFLOWER	$ -	$ 7,372	$ 271,940	$ 1,267,409	$ 2,900,932	$ 4,421,929	$ 5,926,186	$ 8,128,825
BALD HILLS	$ -	$ 14,230	$ 399,889	$ 797,418	$ 1,101,293	$ 1,412,009	$ 1,794,964	$ 2,007,397
BALMORAL	$ -	$ -	$ -	$ 75,113	$ 611,668	$ 1,118,352	$ 1,881,572	$ 3,199,731
BANYO	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BARDON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELLBOWRIE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BELMONT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOONDALL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BOWEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRACKEN RIDGE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BRIGHTON	$ 1,587,867	$ 7,497,683	$18,601,024	$ 35,624,744	$ 59,334,111	$ 86,779,748	$117,092,239	$151,146,583
BRISBANE CITY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BROOKFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
BULIMBA	$ -	$ 76,981	$ 1,220,334	$ 4,541,400	$ 10,933,573	$ 18,982,649	$ 29,666,744	$ 43,389,981
CAMP HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CANNON HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CARINA	$ -	$ -	$ -	$ -	$ -	$ 19,212	$ 76,550	$ 408,141
CARINDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHANDLER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHAPEL HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHELMER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CHUWAR	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CLAYFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COOPERS PLAINS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
COORPAROO	$ -	$ -	$ -	$ -	$ -	$ 87,493	$ 229,560	$ 902,073	$ 1,806,572
CORINDA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DARRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DEAGON	$ 11,286	$ 664,686	$ 2,853,706	$ 6,154,696	$ 11,878,711	$ 20,380,696	$ 32,188,996	$ 48,493,151
DURACK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DUTTON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAGLE FARM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EAST BRISBANE	$ -	$ 1,779	$ 211,545	$ 1,549,224	$ 3,957,009	$ 5,952,222	$ 8,566,322	$ 11,692,403
ELLEN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FAIRFIELD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FIG TREE POCKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FITZGIBBON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
FORTITUDE VALLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GEEBUNG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRACEVILLE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GREENSLOPES	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GUMDALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HAMILTON	$ 258,478	$ 125,892	$ 258,771	$ 449,289	$ 844,132	$ 1,299,179	$ 1,755,930	$ 2,503,602
HAWTHORNE	$ 18,436	$ 38,366	$ 183,973	$ 1,253,601	$ 4,148,205	$ 8,537,801	$ 14,283,577	$ 20,456,854
HEMMANT	$ 812,205	$ 1,465,567	$ 4,424,345	$ 9,473,510	$ 15,384,640	$ 21,963,126	$ 29,162,017	$ 36,846,011
HENDRA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HERSTON	$ -	$ -	$ -	$ -	$ -	$ -	$ 86,451	$ 707,556
HIGHGATE HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INALA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INDOOROOPILLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
JAMBOREE HTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
JINDALEE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KANGAROO POINT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KARANA DOWNS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KELVIN GROVE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KENMORE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KENMORE HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LAKE MANCHESTER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LARAPINTA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
LOTA	$ -	$ 498,915	$ 5,092,403	$ 11,017,596	$ 17,590,054	$ 24,897,810	$ 32,702,747	$ 40,115,721
LYTTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MANLY	$ -	$ 4,762	$ 327,322	$ 802,262	$ 1,631,729	$ 2,907,723	$ 5,009,041	$ 8,220,544
MANLY WEST	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MIDDLE PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MILTON	$ -	$ -	$ -	$ 6,191	$ 126,513	$ 456,243	$ 897,238	$ 1,537,944
MOGGILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MOOROOKA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MORNINGSIDE	$ -	$ -	$ -	$ 105,309	$ 195,490	$ 657,606	$ 1,327,858	$ 3,373,573
MT OMMANEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MURARRIE	$ -	$ -	$ -	$ -	$ 32,021	$ 165,511	$ 465,196	$ 829,144
NEW FARM	$ -	$ 5,729	$ 349,902	$ 2,302,078	$ 7,685,021	$ 13,930,989	$ 23,167,736	$ 32,860,757
NEWMARKET	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NEWSTEAD	$ -	$ -	$ -	$ 1,426	$ 91,173	$ 240,578	$ 432,335	$ 613,787
NORMAN PARK	$ -	$ 38,253	$ 916,463	$ 2,199,622	$ 3,971,439	$ 6,260,058	$ 9,873,750	$ 13,833,569
NORTHGATE	$ -	$ -	$ -	$ -	$ -	$ 128,390	$ 482,543	$ 1,623,585
NUDGEE	$ -	$ -	$ -	$ -	$ -	$ 109,683	$ 234,157	$ 318,139
NUDGEE BEACH	$ 128,146	$ 1,152,945	$ 3,723,456	$ 7,106,033	$ 11,424,810	$ 15,810,754	$ 19,675,450	$ 23,475,624
NUNDAH	$ -	$ -	$ -	$ 117,340	$ 401,065	$ 1,181,255	$ 1,983,635	$ 3,440,821
OXLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PADDINGTON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PARKINSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PETRIE TERRACE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINJARRA HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PINKENBA	$ 463,290	$ 3,702,056	$ 9,224,017	$ 14,023,956	$ 18,689,263	$ 23,457,728	$ 27,551,498	$ 30,373,255
PORT OF BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PULLENVALE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RANSOME	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RED HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RICHLANDS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RIVERHILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ROCKLEA	$ -	$ -	$ -	$ -	$ -	$ 11,098	$ 104,092	$ 145,242	$ 190,433
SALISBURY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SANDGATE	$ 453,277	$ 5,447,631	$23,376,001	$ 45,349,956	$ 72,233,340	$ 98,693,996	$124,177,870	$143,796,893
SEVEN HILLS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SHERWOOD	$ -	$ -	$ -	$ -	$ 9,127	$ 29,057	$ 48,987	$ 72,923
SHORNCLIFFE	$ 88,478	$ 1,052,098	$ 4,803,729	$ 10,170,764	$ 17,703,041	$ 30,681,622	$ 45,415,999	$ 58,610,031
SINNAMON PARK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SOUTH BRISBANE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SPRING HILL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
ST LUCIA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,308
SUMNER	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUNNYBANK	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SVTN MILE ROCKS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TAIGUM	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TARINGA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TARRAGINDI	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TENERIFFE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 92,389
TENNYSON	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TINGALPA	$ -	$ -	$ -	$ 299,521	$ 1,651,460	$ 3,986,285	$ 5,972,015	$ 8,961,682
TOOWONG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
VIRGINIA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WACOL	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAKERLEY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WAVELL HEIGHTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WEST END	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WESTLAKE	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WILLAWONG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WILSTON	$ -	$ -	$ -	$ -	$ 15,041	$ 371,760	$ 1,131,850	$ 2,238,426
WINDSOR	$ -	$ -	$ 216,614	$ 2,938,635	$ 9,626,565	$ 18,305,317	$ 26,944,553	$ 36,268,356
WOOLLOONGABBA	$ -	$ -	$ -	$ 10,322	$ 106,292	$ 868,950	$ 2,422,240	$ 4,382,118
WOOLOOWIN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
WYNNUM	$ 135,534	$ 228,327	$ 1,389,413	$ 5,415,246	$ 12,643,351	$ 21,197,499	$ 31,584,110	$ 42,572,163
WYNNUM WEST	$ -	$ -	$ -	$ -	$ 116,406	$ 787,524	$ 1,876,327	$ 4,065,692
YEERONGPILLY	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
YERONGA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Residential	$ 3,965,208	$22,416,772	$78,675,276	$164,302,839	$289,402,034	$439,815,322	$611,682,636	$799,186,920

Overall Results - Storm Tide	1m6	1m8	2m0	2m2	2m4	2m6	2m8	3m0
Total Commercial/Industrial	$ 527,576	$ 1,756,398	$ 5,873,120	$ 15,507,856	$ 34,391,548	$ 67,155,785	$ 126,155,233	$ 223,032,874
Total Residential	$ 3,965,208	$ 22,416,772	$ 78,675,276	$ 164,302,839	$ 289,402,034	$ 439,815,322	$ 611,682,636	$ 799,186,920
Grand Total	$ 4,492,784	$ 24,173,169	$ 84,548,396	$ 179,810,695	$ 323,793,582	$ 506,971,108	$ 738,037,869	$ 1,022,219,794
Total Properties	3950	5189	6889	9105	12608	14818	16544	18579

FOC Situation Report at 06:00 on Tuesday 11 January 2011

From: [redacted]
To:

Cc:

Date: Tue, 11 Jan 2011 06:12:26 +1000

Rainfall

Rainfall continues in the North Pine Dam, Somerset Dam and Wivenhoe Dam catchments. Isolated falls in the Upper Brisbane River of up to 125 mm have been recorded with widespread falls of 40 to 70 mm in the Somerset Dam catchment. This rainfall will increase inflows into the dam.

There has also been 20 to 60 mm in the Lockyer Creek catchment in the last 12 hours with falls of up to 30 mm in the Bremer River.

A severe weather warning remains current for heavy rainfall in the dam catchment areas. The QPF issued by BOM at 16:00 estimates rainfalls for the 24 hours to 10:00 Tuesday as North Pine Dam (25mm to 50mm, with isolated falls to 100mm); Wivenhoe/Somerset Dam Catchments (25mm to 50mm, with isolated falls to 100mm).

North Pine Dam (Full Supply Level 39.60 m AHD)

The dam level is 39.80m AHD and has commenced rising again (storing 4,400ML above FSL). Five gates are open releasing 177 m3/s. The inflow into the dam since the commencement of the event is 77,000 ML. Estimated event volume is 88,000 ML assuming no further rainfall. Releases from the dam will continue until at least Wednesday 12 January 2011.

Somerset Dam (Full Supply Level 99.00 m AHD)

The dam level is 103.27m AHD and falling slowly. Peak inflow to the dam is estimated to be about 4,200 m3/s. Total discharge into Wivenhoe Dam is currently 1400 m3/s and this discharge will be decreased in the next few hours to be around 500 m3/s later on Tuesday. This is to ensure that the combined flood mitigation capacity in Somerset and Wivenhoe Dam is maximized.

The dam level peaked at 103.52m AHD at 19:00 on Monday 10 January 2011, (unless further significant rainfall is experienced). Areas around Kilcoy will continue to be adversely affected.

Wivenhoe Dam (Full Supply Level 67.00 m AHD)

The dam level is 73.51m AHD and rising at about 25 mm/hour. Releases from the dam have been held at a rate of 2,750 m3/s since 19:30 hours on Monday 10 January 2011. Outflows into the Brisbane River from both Lockyer Creek and the Bremer River are also increasing.

The BoM has provided further advice about the flash flooding experienced in the upper areas of Lockyer Creek. The rainfall responsible for this event was not observed at any rainfall stations but it is considered to be extreme. Flood levels in the Lockyer Creek catchment will exceed maximum recorded levels in some stations in the upper catchment. This flow will result in increases in Brisbane River levels below the junction of Lockyer Creek.

Five radial gates are currently open at the dam releasing about 2,750m3/s into the Brisbane River. At this stage, the dam will reach just over 74.0m AHD during Tuesday evening.

Above EL 74.0m AHD the objective for dam operations is to maintain the security of the dam and minimise downstream flood flows if possible.

If further rainfall occurs, dam releases may need to be increased further and this may result in river flows in the lower Brisbane River approaching or exceeding 5,000m3/s.

Impacts downstream of Wivenhoe Dam

The projected Wivenhoe Dam releases combined with Lockyer Creek flows and local runoff will mean that all crossings downstream of Wivenhoe (Twin Bridges, Fernvale, Savages Crossing, Burtons Bridge, Kholo Bridge, Mt Crosby Weir and Colleges Crossing) will be adversely impacted until at least Sunday 16 January in varying degrees.

Water levels in the lower Brisbane River will be impacted by the combined flows of Lockyer Creek, Bremer River, local runoff and releases from Wivenhoe Dam.

The BoM will provide further information regarding the magnitude of the flash flood event occurring in Lockyer Creek early Tuesday morning. Consideration was given to modifying the releases from Wivenhoe Dam to try to moderate the peak flows emanating from Lockyer Creek but the rainfall in the past 12 hours in the catchment above the dam makes this option not possible. Therefore instead of decreasing releases to accommodate the Lockyer Creek flows, the strategy will endeavour to maintain the current releases until Lockyer Creek peaks.

Outlook

Heavy rainfall continues throughout South East Queensland and the situation could deteriorate over the next 24 hours. The flood operation centre will continue to monitor the situation and provide situation reports every six hours until the situation stabilizes.

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

Wivenhoe Dam Projected Releases at 06:00 on Tuesday 11 January 2011

From: [redacted]
To:

Date: Tue, 11 Jan 2011 06:14:26 +1000

Wivenhoe Dam Actual and Projected Releases

			11/01/2011
Source: Seqwater FOC			5:48
02/01/2011 09:00:00	50	Actual	
02/01/2011 10:00:00	50	Actual	
02/01/2011 11:00:00	50	Actual	
02/01/2011 12:00:00	50	Actual	
02/01/2011 13:00:00	50	Actual	
02/01/2011 14:00:00	50	Actual	
02/01/2011 15:00:00	50	Actual	
02/01/2011 16:00:00	50	Actual	
02/01/2011 17:00:00	50	Actual	
02/01/2011 18:00:00	50	Actual	
02/01/2011 19:00:00	50	Actual	
02/01/2011 20:00:00	50	Actual	
02/01/2011 21:00:00	50	Actual	
02/01/2011 22:00:00	50	Actual	
02/01/2011 23:00:00	50	Actual	
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11/01/2011 06:00:00	2754	Projected
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11/01/2011 08:00:00	2758	Projected
11/01/2011 09:00:00	2759	Projected
11/01/2011 10:00:00	2760	Projected
11/01/2011 11:00:00	2762	Projected
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11/01/2011 14:00:00	2768	Projected
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11/01/2011 16:00:00	2775	Projected
11/01/2011 17:00:00	2778	Projected
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11/01/2011 19:00:00	2785	Projected
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11/01/2011 22:00:00	2793	Projected
11/01/2011 23:00:00	2795	Projected
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12/01/2011 07:00:00	2798	Projected
12/01/2011 08:00:00	2797	Projected
12/01/2011 09:00:00	2796	Projected
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14/01/2011 02:00:00	3130	Projected
14/01/2011 03:00:00	3122	Projected
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15/01/2011 12:00:00	2915	Projected
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15/01/2011 22:00:00	2848	Projected
15/01/2011 23:00:00	2840	Projected
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16/01/2011 02:00:00	2815	Projected
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16/01/2011 13:00:00	2218	Projected
16/01/2011 14:00:00	2164	Projected
16/01/2011 15:00:00	2110	Projected
16/01/2011 16:00:00	2058	Projected
16/01/2011 17:00:00	2007	Projected
16/01/2011 18:00:00	1954	Projected
16/01/2011 19:00:00	1901	Projected
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16/01/2011 23:00:00	1698	Projected
17/01/2011 00:00:00	1646	Projected
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17/01/2011 05:00:00	1392	Projected
17/01/2011 06:00:00	1341	Projected
17/01/2011 07:00:00	1289	Projected
17/01/2011 08:00:00	1237	Projected

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.

RE: Wivenhoe Dam Projected Releases at 06:00 on Tuesday 11 January 2011

From: Duty Engineer [redacted]
To: James Charalambous [redacted]
Date: Tue, 11 Jan 2011 07:06:39 +1000

James

Pls clarify what address you mean???

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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From: James Charalambous [mailto:[redacted]
Sent: Tuesday, 11 January 2011 7:03 AM

To: Engineer, Duty
Subject: Re: Wivenhoe Dam Projected Releases at 06:00 on Tuesday 11 January 2011

+=*
Place: Flood_Information_Centre
+=*
Please send through to CC address as well for all future comms. from SEQ Water Duty Engineer.

This address is our activated FIC email.

Thank You
JamesC

>>> "Duty Engineer" [redacted] 11/01/2011 6:14:26 am >>>

Wivenhoe Dam Actual and Projected Releases

			11/01/2011
Source: Seqwater FOC			5:48
02/01/2011 09:00:00	50	Actual	
02/01/2011 10:00:00	50	Actual	
02/01/2011 11:00:00	50	Actual	
02/01/2011 12:00:00	50	Actual	
02/01/2011 13:00:00	50	Actual	
02/01/2011 14:00:00	50	Actual	
02/01/2011 15:00:00	50	Actual	
02/01/2011 16:00:00	50	Actual	
02/01/2011 17:00:00	50	Actual	
02/01/2011 18:00:00	50	Actual	
02/01/2011 19:00:00	50	Actual	
02/01/2011 20:00:00	50	Actual	
02/01/2011 21:00:00	50	Actual	
02/01/2011 22:00:00	50	Actual	
02/01/2011 23:00:00	50	Actual	
03/01/2011 00:00:00	50	Actual	
03/01/2011 01:00:00	50	Actual	
03/01/2011 02:00:00	50	Actual	
03/01/2011 03:00:00	50	Actual	
03/01/2011 04:00:00	50	Actual	
03/01/2011 05:00:00	50	Actual	

03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
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03/01/2011 18:00:00	50	Actual
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03/01/2011 21:00:00	50	Actual
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03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
04/01/2011 03:00:00	50	Actual
04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
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04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
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04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual

05/01/2011 01:00:00	50	Actual
05/01/2011 02:00:00	50	Actual
05/01/2011 03:00:00	50	Actual
05/01/2011 04:00:00	50	Actual
05/01/2011 05:00:00	50	Actual
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05/01/2011 08:00:00	50	Actual
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05/01/2011 18:00:00	50	Actual
05/01/2011 19:00:00	50	Actual
05/01/2011 20:00:00	50	Actual
05/01/2011 21:00:00	50	Actual
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05/01/2011 23:00:00	50	Actual
06/01/2011 00:00:00	50	Actual
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06/01/2011 13:00:00	50	Actual
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06/01/2011 15:00:00	50	Actual
06/01/2011 16:00:00	50	Actual
06/01/2011 17:00:00	50	Actual
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06/01/2011 19:00:00	50	Actual

06/01/2011 20:00:00	50	Actual
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06/01/2011 23:00:00	50	Actual
07/01/2011 00:00:00	50	Actual
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07/01/2011 03:00:00	50	Actual
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07/01/2011 05:00:00	50	Actual
07/01/2011 06:00:00	50	Actual
07/01/2011 07:00:00	50	Actual
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07/01/2011 17:00:00	168	Actual
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07/01/2011 21:00:00	365	Actual
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13/01/2011 12:00:00	3236	Projected
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13/01/2011 16:00:00	3207	Projected
13/01/2011 17:00:00	3199	Projected
13/01/2011 18:00:00	3192	Projected
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13/01/2011 20:00:00	3177	Projected
13/01/2011 21:00:00	3169	Projected
13/01/2011 22:00:00	3161	Projected
13/01/2011 23:00:00	3154	Projected

14/01/2011 00:00:00	3146	Projected
14/01/2011 01:00:00	3138	Projected
14/01/2011 02:00:00	3130	Projected
14/01/2011 03:00:00	3122	Projected
14/01/2011 04:00:00	3114	Projected
14/01/2011 05:00:00	3105	Projected
14/01/2011 06:00:00	3097	Projected
14/01/2011 07:00:00	3090	Projected
14/01/2011 08:00:00	3083	Projected
14/01/2011 09:00:00	3076	Projected
14/01/2011 10:00:00	3070	Projected
14/01/2011 11:00:00	3065	Projected
14/01/2011 12:00:00	3060	Projected
14/01/2011 13:00:00	3055	Projected
14/01/2011 14:00:00	3049	Projected
14/01/2011 15:00:00	3044	Projected
14/01/2011 16:00:00	3038	Projected
14/01/2011 17:00:00	3033	Projected
14/01/2011 18:00:00	3027	Projected
14/01/2011 19:00:00	3021	Projected
14/01/2011 20:00:00	3015	Projected
14/01/2011 21:00:00	3009	Projected
14/01/2011 22:00:00	3003	Projected
14/01/2011 23:00:00	2997	Projected
15/01/2011 00:00:00	2991	Projected
15/01/2011 01:00:00	2985	Projected
15/01/2011 02:00:00	2979	Projected
15/01/2011 03:00:00	2973	Projected
15/01/2011 04:00:00	2966	Projected
15/01/2011 05:00:00	2960	Projected
15/01/2011 06:00:00	2954	Projected
15/01/2011 07:00:00	2947	Projected
15/01/2011 08:00:00	2941	Projected
15/01/2011 09:00:00	2935	Projected
15/01/2011 10:00:00	2928	Projected
15/01/2011 11:00:00	2922	Projected
15/01/2011 12:00:00	2915	Projected
15/01/2011 13:00:00	2909	Projected
15/01/2011 14:00:00	2902	Projected
15/01/2011 15:00:00	2895	Projected
15/01/2011 16:00:00	2889	Projected
15/01/2011 17:00:00	2882	Projected
15/01/2011 18:00:00	2875	Projected

15/01/2011 19:00:00	2869	Projected
15/01/2011 20:00:00	2862	Projected
15/01/2011 21:00:00	2855	Projected
15/01/2011 22:00:00	2848	Projected
15/01/2011 23:00:00	2840	Projected
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16/01/2011 01:00:00	2824	Projected
16/01/2011 02:00:00	2815	Projected
16/01/2011 03:00:00	2805	Projected
16/01/2011 04:00:00	2795	Projected
16/01/2011 05:00:00	2785	Projected
16/01/2011 06:00:00	2775	Projected
16/01/2011 07:00:00	2675	Projected
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16/01/2011 09:00:00	2523	Projected
16/01/2011 10:00:00	2424	Projected
16/01/2011 11:00:00	2325	Projected
16/01/2011 12:00:00	2271	Projected
16/01/2011 13:00:00	2218	Projected
16/01/2011 14:00:00	2164	Projected
16/01/2011 15:00:00	2110	Projected
16/01/2011 16:00:00	2058	Projected
16/01/2011 17:00:00	2007	Projected
16/01/2011 18:00:00	1954	Projected
16/01/2011 19:00:00	1901	Projected
16/01/2011 20:00:00	1852	Projected
16/01/2011 21:00:00	1801	Projected
16/01/2011 22:00:00	1750	Projected
16/01/2011 23:00:00	1698	Projected
17/01/2011 00:00:00	1646	Projected
17/01/2011 01:00:00	1595	Projected
17/01/2011 02:00:00	1545	Projected
17/01/2011 03:00:00	1494	Projected
17/01/2011 04:00:00	1443	Projected
17/01/2011 05:00:00	1392	Projected
17/01/2011 06:00:00	1341	Projected
17/01/2011 07:00:00	1289	Projected
17/01/2011 08:00:00	1237	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Tue, 11 Jan 2011 08:10:42 +1000

Note that Wivenhoe releases will be increased from the current 2,800 to 3,700m3/s by 1300 Tuesday 11/01/2011 with further increases highly likely

Actual and Projected Wivenhoe Releases		
Source: Seqwater	11/01/2011 8:06	
02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
02/01/2011 20:00:00	50	Actual
02/01/2011 21:00:00	50	Actual
02/01/2011 22:00:00	50	Actual
02/01/2011 23:00:00	50	Actual
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual

03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual
03/01/2011 15:00:00	50	Actual
03/01/2011 16:00:00	50	Actual
03/01/2011 17:00:00	50	Actual
03/01/2011 18:00:00	50	Actual
03/01/2011 19:00:00	50	Actual
03/01/2011 20:00:00	50	Actual
03/01/2011 21:00:00	50	Actual
03/01/2011 22:00:00	50	Actual
03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
04/01/2011 03:00:00	50	Actual
04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
04/01/2011 06:00:00	50	Actual
04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual

05/01/2011 01:00:00	50	Actual
05/01/2011 02:00:00	50	Actual
05/01/2011 03:00:00	50	Actual
05/01/2011 04:00:00	50	Actual
05/01/2011 05:00:00	50	Actual
05/01/2011 06:00:00	50	Actual
05/01/2011 07:00:00	50	Actual
05/01/2011 08:00:00	50	Actual
05/01/2011 09:00:00	50	Actual
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05/01/2011 11:00:00	50	Actual
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05/01/2011 13:00:00	50	Actual
05/01/2011 14:00:00	50	Actual
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05/01/2011 16:00:00	50	Actual
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05/01/2011 18:00:00	50	Actual
05/01/2011 19:00:00	50	Actual
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05/01/2011 23:00:00	50	Actual
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06/01/2011 02:00:00	50	Actual
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06/01/2011 09:00:00	50	Actual
06/01/2011 10:00:00	50	Actual
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06/01/2011 14:00:00	50	Actual
06/01/2011 15:00:00	50	Actual
06/01/2011 16:00:00	50	Actual
06/01/2011 17:00:00	50	Actual

06/01/2011 18:00:00	50	Actual
06/01/2011 19:00:00	50	Actual
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06/01/2011 21:00:00	50	Actual
06/01/2011 22:00:00	50	Actual
06/01/2011 23:00:00	50	Actual
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07/01/2011 15:00:00	102	Actual
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07/01/2011 17:00:00	168	Actual
07/01/2011 18:00:00	219	Actual
07/01/2011 19:00:00	270	Actual
07/01/2011 20:00:00	319	Actual
07/01/2011 21:00:00	367	Actual
07/01/2011 22:00:00	419	Actual
07/01/2011 23:00:00	472	Actual
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08/01/2011 06:00:00	845	Actual
08/01/2011 07:00:00	899	Actual
08/01/2011 08:00:00	947	Actual
08/01/2011 09:00:00	1000	Actual
08/01/2011 10:00:00	1053	Actual

08/01/2011 11:00:00	1106	Actual
08/01/2011 12:00:00	1159	Actual
08/01/2011 13:00:00	1211	Actual
08/01/2011 14:00:00	1262	Actual
08/01/2011 15:00:00	1262	Actual
08/01/2011 16:00:00	1263	Actual
08/01/2011 17:00:00	1262	Actual
08/01/2011 18:00:00	1262	Actual
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08/01/2011 20:00:00	1262	Actual
08/01/2011 21:00:00	1261	Actual
08/01/2011 22:00:00	1260	Actual
08/01/2011 23:00:00	1260	Actual
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09/01/2011 01:00:00	1258	Actual
09/01/2011 02:00:00	1303	Actual
09/01/2011 03:00:00	1303	Actual
09/01/2011 04:00:00	1302	Actual
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09/01/2011 07:00:00	1350	Actual
09/01/2011 08:00:00	1349	Actual
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09/01/2011 12:00:00	1399	Actual
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09/01/2011 16:00:00	1407	Actual
09/01/2011 17:00:00	1412	Actual
09/01/2011 18:00:00	1417	Actual
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09/01/2011 21:00:00	1440	Actual
09/01/2011 22:00:00	1449	Actual
09/01/2011 23:00:00	1460	Actual
10/01/2011 00:00:00	1470	Actual
10/01/2011 01:00:00	1482	Actual
10/01/2011 02:00:00	1547	Actual
10/01/2011 03:00:00	1614	Actual

10/01/2011 04:00:00	1680	Actual
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10/01/2011 07:00:00	1881	Actual
10/01/2011 08:00:00	1949	Actual
10/01/2011 09:00:00	2018	Actual
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10/01/2011 11:00:00	2043	Actual
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10/01/2011 21:00:00	2714	Actual
10/01/2011 22:00:00	2721	Actual
10/01/2011 23:00:00	2728	Actual
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11/01/2011 01:00:00	2740	Actual
11/01/2011 02:00:00	2745	Actual
11/01/2011 03:00:00	2750	Actual
11/01/2011 04:00:00	2753	Actual
11/01/2011 05:00:00	2757	Actual
11/01/2011 06:00:00	2761	Actual
11/01/2011 07:00:00	2767	Actual
11/01/2011 08:00:00	2774	Actual
11/01/2011 09:00:00	2838	Projected
11/01/2011 10:00:00	3073	Projected
11/01/2011 11:00:00	3247	Projected
11/01/2011 12:00:00	3422	Projected
11/01/2011 13:00:00	3653	Projected
11/01/2011 14:00:00	3658	Projected
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11/01/2011 16:00:00	3672	Projected
11/01/2011 17:00:00	3679	Projected
11/01/2011 18:00:00	3687	Projected
11/01/2011 19:00:00	3695	Projected
11/01/2011 20:00:00	3703	Projected

11/01/2011 21:00:00	3710	Projected
11/01/2011 22:00:00	3716	Projected
11/01/2011 23:00:00	3722	Projected
12/01/2011 00:00:00	3727	Projected
12/01/2011 01:00:00	3731	Projected
12/01/2011 02:00:00	3734	Projected
12/01/2011 03:00:00	3736	Projected
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12/01/2011 11:00:00	3718	Projected
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13/01/2011 00:00:00	3633	Projected
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13/01/2011 02:00:00	3617	Projected
13/01/2011 03:00:00	3609	Projected
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13/01/2011 10:00:00	3552	Projected
13/01/2011 11:00:00	3543	Projected
13/01/2011 12:00:00	3537	Projected
13/01/2011 13:00:00	3531	Projected

13/01/2011 14:00:00	3523	Projected
13/01/2011 15:00:00	3515	Projected
13/01/2011 16:00:00	3507	Projected
13/01/2011 17:00:00	3498	Projected
13/01/2011 18:00:00	3490	Projected
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14/01/2011 03:00:00	3410	Projected
14/01/2011 04:00:00	3401	Projected
14/01/2011 05:00:00	3392	Projected
14/01/2011 06:00:00	3383	Projected
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15/01/2011 02:00:00	3184	Projected
15/01/2011 03:00:00	3174	Projected
15/01/2011 04:00:00	3163	Projected
15/01/2011 05:00:00	3152	Projected
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15/01/2011 07:00:00	3129	Projected
15/01/2011 08:00:00	3117	Projected
15/01/2011 09:00:00	3105	Projected
15/01/2011 10:00:00	3093	Projected
15/01/2011 11:00:00	3082	Projected
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15/01/2011 17:00:00	3009	Projected
15/01/2011 18:00:00	2997	Projected
15/01/2011 19:00:00	2984	Projected
15/01/2011 20:00:00	2972	Projected
15/01/2011 21:00:00	2959	Projected
15/01/2011 22:00:00	2947	Projected
15/01/2011 23:00:00	2934	Projected
16/01/2011 00:00:00	2922	Projected
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16/01/2011 09:00:00	2804	Projected
16/01/2011 10:00:00	2791	Projected
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16/01/2011 15:00:00	2723	Projected
16/01/2011 16:00:00	2709	Projected
16/01/2011 17:00:00	2695	Projected
16/01/2011 18:00:00	2681	Projected
16/01/2011 19:00:00	2667	Projected
16/01/2011 20:00:00	2653	Projected
16/01/2011 21:00:00	2639	Projected
16/01/2011 22:00:00	2625	Projected
16/01/2011 23:00:00	2610	Projected

17/01/2011 00:00:00	2596	Projected
17/01/2011 01:00:00	2581	Projected
17/01/2011 02:00:00	2566	Projected
17/01/2011 03:00:00	2552	Projected
17/01/2011 04:00:00	2537	Projected
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17/01/2011 06:00:00	2507	Projected
17/01/2011 07:00:00	2492	Projected
17/01/2011 08:00:00	2476	Projected
17/01/2011 09:00:00	2461	Projected
17/01/2011 10:00:00	2445	Projected
17/01/2011 11:00:00	2429	Projected
17/01/2011 12:00:00	2414	Projected
17/01/2011 13:00:00	2398	Projected
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22/01/2011 22:00:00	386	Projected
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23/01/2011 01:00:00	367	Projected
23/01/2011 02:00:00	361	Projected
23/01/2011 03:00:00	355	Projected
23/01/2011 04:00:00	349	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Tue, 11 Jan 2011 11:38:27 +1000

Actual and Projected Wivenhoe Releases		
Source: Seqwater	11/01/2011 11:32	
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02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
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15/01/2011 13:00:00	3258	Projected
15/01/2011 14:00:00	3244	Projected
15/01/2011 15:00:00	3229	Projected
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15/01/2011 22:00:00	3124	Projected
15/01/2011 23:00:00	3109	Projected
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16/01/2011 02:00:00	3062	Projected
16/01/2011 03:00:00	3046	Projected
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20/01/2011 03:00:00	692	Projected
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22/01/2011 13:00:00	425	Projected
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22/01/2011 22:00:00	392	Projected
22/01/2011 23:00:00	388	Projected
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23/01/2011 04:00:00	371	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

Actual and Projected Wivenhoe Releases - Note that is our worst case for the next 12 hours

From: [redacted]
To:

Date: Tue, 11 Jan 2011 13:31:56 +1000

Actual and Projected Wivenhoe Releases		
Source: Seqwater	11/01/2011 13:28	
02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
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03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual

03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual
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07/01/2011 23:00:00	474	Actual
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08/01/2011 04:00:00	742	Actual
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11/01/2011 23:00:00	6675	Projected

12/01/2011 00:00:00	6675	Projected
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12/01/2011 08:00:00	6613	Projected
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12/01/2011 10:00:00	6583	Projected
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12/01/2011 13:00:00	6526	Projected
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13/01/2011 06:00:00	6046	Projected
13/01/2011 07:00:00	6013	Projected
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13/01/2011 09:00:00	5944	Projected
13/01/2011 10:00:00	5909	Projected
13/01/2011 11:00:00	5873	Projected
13/01/2011 12:00:00	5844	Projected
13/01/2011 13:00:00	5813	Projected
13/01/2011 14:00:00	5779	Projected
13/01/2011 15:00:00	5744	Projected
13/01/2011 16:00:00	5708	Projected

13/01/2011 17:00:00	5672	Projected
13/01/2011 18:00:00	5635	Projected
13/01/2011 19:00:00	5598	Projected
13/01/2011 20:00:00	5561	Projected
13/01/2011 21:00:00	5524	Projected
13/01/2011 22:00:00	5486	Projected
13/01/2011 23:00:00	5447	Projected
14/01/2011 00:00:00	5409	Projected
14/01/2011 01:00:00	5369	Projected
14/01/2011 02:00:00	5330	Projected
14/01/2011 03:00:00	5290	Projected
14/01/2011 04:00:00	5250	Projected
14/01/2011 05:00:00	5209	Projected
14/01/2011 06:00:00	5169	Projected
14/01/2011 07:00:00	5127	Projected
14/01/2011 08:00:00	5072	Projected
14/01/2011 09:00:00	5004	Projected
14/01/2011 10:00:00	4917	Projected
14/01/2011 11:00:00	4832	Projected
14/01/2011 12:00:00	4748	Projected
14/01/2011 13:00:00	4665	Projected
14/01/2011 14:00:00	4584	Projected
14/01/2011 15:00:00	4504	Projected
14/01/2011 16:00:00	4426	Projected
14/01/2011 17:00:00	4349	Projected
14/01/2011 18:00:00	4273	Projected
14/01/2011 19:00:00	4199	Projected
14/01/2011 20:00:00	4126	Projected
14/01/2011 21:00:00	4054	Projected
14/01/2011 22:00:00	3983	Projected
14/01/2011 23:00:00	3914	Projected
15/01/2011 00:00:00	3846	Projected
15/01/2011 01:00:00	3779	Projected
15/01/2011 02:00:00	3713	Projected
15/01/2011 03:00:00	3648	Projected
15/01/2011 04:00:00	3584	Projected
15/01/2011 05:00:00	3518	Projected
15/01/2011 06:00:00	3451	Projected
15/01/2011 07:00:00	3387	Projected
15/01/2011 08:00:00	3323	Projected
15/01/2011 09:00:00	3261	Projected

15/01/2011 10:00:00	3200	Projected
15/01/2011 11:00:00	3140	Projected
15/01/2011 12:00:00	3081	Projected
15/01/2011 13:00:00	3023	Projected
15/01/2011 14:00:00	2966	Projected
15/01/2011 15:00:00	2910	Projected
15/01/2011 16:00:00	2855	Projected
15/01/2011 17:00:00	2801	Projected
15/01/2011 18:00:00	2748	Projected
15/01/2011 19:00:00	2697	Projected
15/01/2011 20:00:00	2646	Projected
15/01/2011 21:00:00	2596	Projected
15/01/2011 22:00:00	2547	Projected
15/01/2011 23:00:00	2499	Projected
16/01/2011 00:00:00	2452	Projected
16/01/2011 01:00:00	2406	Projected
16/01/2011 02:00:00	2361	Projected
16/01/2011 03:00:00	2316	Projected
16/01/2011 04:00:00	2273	Projected
16/01/2011 05:00:00	2230	Projected
16/01/2011 06:00:00	2189	Projected
16/01/2011 07:00:00	2148	Projected
16/01/2011 08:00:00	2108	Projected
16/01/2011 09:00:00	2069	Projected
16/01/2011 10:00:00	2030	Projected
16/01/2011 11:00:00	1992	Projected
16/01/2011 12:00:00	1955	Projected
16/01/2011 13:00:00	1919	Projected
16/01/2011 14:00:00	1884	Projected
16/01/2011 15:00:00	1848	Projected
16/01/2011 16:00:00	1814	Projected
16/01/2011 17:00:00	1781	Projected
16/01/2011 18:00:00	1748	Projected
16/01/2011 19:00:00	1716	Projected
16/01/2011 20:00:00	1685	Projected
16/01/2011 21:00:00	1657	Projected
16/01/2011 22:00:00	1639	Projected
16/01/2011 23:00:00	1620	Projected
17/01/2011 00:00:00	1602	Projected
17/01/2011 01:00:00	1584	Projected
17/01/2011 02:00:00	1565	Projected

17/01/2011 03:00:00	1547	Projected
17/01/2011 04:00:00	1530	Projected
17/01/2011 05:00:00	1512	Projected
17/01/2011 06:00:00	1494	Projected
17/01/2011 07:00:00	1476	Projected
17/01/2011 08:00:00	1459	Projected
17/01/2011 09:00:00	1442	Projected
17/01/2011 10:00:00	1424	Projected
17/01/2011 11:00:00	1407	Projected
17/01/2011 12:00:00	1390	Projected
17/01/2011 13:00:00	1373	Projected
17/01/2011 14:00:00	1356	Projected
17/01/2011 15:00:00	1340	Projected
17/01/2011 16:00:00	1323	Projected
17/01/2011 17:00:00	1307	Projected
17/01/2011 18:00:00	1291	Projected
17/01/2011 19:00:00	1274	Projected
17/01/2011 20:00:00	1259	Projected
17/01/2011 21:00:00	1243	Projected
17/01/2011 22:00:00	1227	Projected
17/01/2011 23:00:00	1211	Projected
18/01/2011 00:00:00	1196	Projected
18/01/2011 01:00:00	1181	Projected
18/01/2011 02:00:00	1166	Projected
18/01/2011 03:00:00	1150	Projected
18/01/2011 04:00:00	1136	Projected
18/01/2011 05:00:00	1121	Projected
18/01/2011 06:00:00	1106	Projected
18/01/2011 07:00:00	1092	Projected
18/01/2011 08:00:00	1077	Projected
18/01/2011 09:00:00	1063	Projected
18/01/2011 10:00:00	1049	Projected
18/01/2011 11:00:00	1035	Projected
18/01/2011 12:00:00	1022	Projected
18/01/2011 13:00:00	1008	Projected
18/01/2011 14:00:00	994	Projected
18/01/2011 15:00:00	981	Projected
18/01/2011 16:00:00	968	Projected
18/01/2011 17:00:00	955	Projected
18/01/2011 18:00:00	942	Projected
18/01/2011 19:00:00	929	Projected

18/01/2011 20:00:00	916	Projected
18/01/2011 21:00:00	904	Projected
18/01/2011 22:00:00	891	Projected
18/01/2011 23:00:00	879	Projected
19/01/2011 00:00:00	867	Projected
19/01/2011 01:00:00	855	Projected
19/01/2011 02:00:00	843	Projected
19/01/2011 03:00:00	831	Projected
19/01/2011 04:00:00	819	Projected
19/01/2011 05:00:00	808	Projected
19/01/2011 06:00:00	797	Projected
19/01/2011 07:00:00	785	Projected
19/01/2011 08:00:00	774	Projected
19/01/2011 09:00:00	763	Projected
19/01/2011 10:00:00	753	Projected
19/01/2011 11:00:00	742	Projected
19/01/2011 12:00:00	731	Projected
19/01/2011 13:00:00	721	Projected
19/01/2011 14:00:00	710	Projected
19/01/2011 15:00:00	700	Projected
19/01/2011 16:00:00	690	Projected
19/01/2011 17:00:00	680	Projected
19/01/2011 18:00:00	671	Projected
19/01/2011 19:00:00	661	Projected
19/01/2011 20:00:00	651	Projected
19/01/2011 21:00:00	642	Projected
19/01/2011 22:00:00	633	Projected
19/01/2011 23:00:00	623	Projected
20/01/2011 00:00:00	614	Projected
20/01/2011 01:00:00	605	Projected
20/01/2011 02:00:00	596	Projected
20/01/2011 03:00:00	588	Projected
20/01/2011 04:00:00	579	Projected
20/01/2011 05:00:00	571	Projected
20/01/2011 06:00:00	562	Projected
20/01/2011 07:00:00	554	Projected
20/01/2011 08:00:00	546	Projected
20/01/2011 09:00:00	538	Projected
20/01/2011 10:00:00	530	Projected
20/01/2011 11:00:00	522	Projected
20/01/2011 12:00:00	514	Projected

20/01/2011 13:00:00	507	Projected
20/01/2011 14:00:00	499	Projected
20/01/2011 15:00:00	492	Projected
20/01/2011 16:00:00	484	Projected
20/01/2011 17:00:00	477	Projected
20/01/2011 18:00:00	470	Projected
20/01/2011 19:00:00	463	Projected
20/01/2011 20:00:00	456	Projected
20/01/2011 21:00:00	449	Projected
20/01/2011 22:00:00	442	Projected
20/01/2011 23:00:00	436	Projected
21/01/2011 00:00:00	429	Projected
21/01/2011 01:00:00	423	Projected
21/01/2011 02:00:00	417	Projected
21/01/2011 03:00:00	410	Projected
21/01/2011 04:00:00	404	Projected
21/01/2011 05:00:00	398	Projected
21/01/2011 06:00:00	392	Projected
21/01/2011 07:00:00	386	Projected
21/01/2011 08:00:00	380	Projected
21/01/2011 09:00:00	375	Projected
21/01/2011 10:00:00	369	Projected
21/01/2011 11:00:00	363	Projected
21/01/2011 12:00:00	358	Projected
21/01/2011 13:00:00	353	Projected
21/01/2011 14:00:00	347	Projected
21/01/2011 15:00:00	342	Projected
21/01/2011 16:00:00	337	Projected
21/01/2011 17:00:00	332	Projected
21/01/2011 18:00:00	327	Projected
21/01/2011 19:00:00	322	Projected
21/01/2011 20:00:00	317	Projected
21/01/2011 21:00:00	312	Projected
21/01/2011 22:00:00	307	Projected
21/01/2011 23:00:00	303	Projected
22/01/2011 00:00:00	298	Projected
22/01/2011 01:00:00	294	Projected
22/01/2011 02:00:00	289	Projected
22/01/2011 03:00:00	285	Projected
22/01/2011 04:00:00	281	Projected
22/01/2011 05:00:00	276	Projected

22/01/2011 06:00:00	272	Projected
22/01/2011 07:00:00	268	Projected
22/01/2011 08:00:00	264	Projected
22/01/2011 09:00:00	260	Projected
22/01/2011 10:00:00	256	Projected
22/01/2011 11:00:00	252	Projected
22/01/2011 12:00:00	248	Projected
22/01/2011 13:00:00	245	Projected
22/01/2011 14:00:00	241	Projected
22/01/2011 15:00:00	237	Projected
22/01/2011 16:00:00	234	Projected
22/01/2011 17:00:00	230	Projected
22/01/2011 18:00:00	227	Projected
22/01/2011 19:00:00	223	Projected
22/01/2011 20:00:00	220	Projected
22/01/2011 21:00:00	217	Projected
22/01/2011 22:00:00	214	Projected
22/01/2011 23:00:00	210	Projected
23/01/2011 00:00:00	207	Projected
23/01/2011 01:00:00	204	Projected
23/01/2011 02:00:00	201	Projected
23/01/2011 03:00:00	198	Projected
23/01/2011 04:00:00	195	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

Wivenhoe ALERT level

From: [redacted]
To:

Date: Tue, 11 Jan 2011 14:26:28 +1000

Please be aware that the Wivenhoe ALERT level is reading low by about 100mm due to draw down through the gates

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

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

From: [redacted]
To:

Date: Tue, 11 Jan 2011 16:51:54 +1000

Note that without further rain

Will be reviewed at 1800 11/01/2011

Wivenhoe Dam Actual and Projected Releases
11/01/2011
Source: Seqwater FOC 16:49

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
02/01/2011 20:00:00	50	Actual
02/01/2011	50	Actual

21:00:00		
02/01/2011		
22:00:00	50	Actual
02/01/2011		
23:00:00	50	Actual
03/01/2011		
00:00:00	50	Actual
03/01/2011		
01:00:00	50	Actual
03/01/2011		
02:00:00	50	Actual
03/01/2011		
03:00:00	50	Actual
03/01/2011		
04:00:00	50	Actual
03/01/2011		
05:00:00	50	Actual
03/01/2011		
06:00:00	50	Actual
03/01/2011		
07:00:00	50	Actual
03/01/2011		
08:00:00	50	Actual
03/01/2011		
09:00:00	50	Actual
03/01/2011		
10:00:00	50	Actual
03/01/2011		
11:00:00	50	Actual
03/01/2011		
12:00:00	50	Actual
03/01/2011		
13:00:00	50	Actual
03/01/2011		
14:00:00	50	Actual
03/01/2011		
15:00:00	50	Actual
03/01/2011		
16:00:00	50	Actual
03/01/2011		
17:00:00	50	Actual
03/01/2011		
18:00:00	50	Actual
03/01/2011		
19:00:00	50	Actual
03/01/2011		
20:00:00	50	Actual
03/01/2011		
21:00:00	50	Actual
03/01/2011		
22:00:00	50	Actual
03/01/2011		
23:00:00	50	Actual
04/01/2011		
00:00:00	50	Actual

04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
04/01/2011 03:00:00	50	Actual
04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
04/01/2011 06:00:00	50	Actual
04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual
05/01/2011 01:00:00	50	Actual
05/01/2011 02:00:00	50	Actual
05/01/2011 03:00:00	50	Actual
05/01/2011 04:00:00	50	Actual

05/01/2011 05:00:00	50	Actual
05/01/2011 06:00:00	50	Actual
05/01/2011 07:00:00	50	Actual
05/01/2011 08:00:00	50	Actual
05/01/2011 09:00:00	50	Actual
05/01/2011 10:00:00	50	Actual
05/01/2011 11:00:00	50	Actual
05/01/2011 12:00:00	50	Actual
05/01/2011 13:00:00	50	Actual
05/01/2011 14:00:00	50	Actual
05/01/2011 15:00:00	50	Actual
05/01/2011 16:00:00	50	Actual
05/01/2011 17:00:00	50	Actual
05/01/2011 18:00:00	50	Actual
05/01/2011 19:00:00	50	Actual
05/01/2011 20:00:00	50	Actual
05/01/2011 21:00:00	50	Actual
05/01/2011 22:00:00	50	Actual
05/01/2011 23:00:00	50	Actual
06/01/2011 00:00:00	50	Actual
06/01/2011 01:00:00	50	Actual
06/01/2011 02:00:00	50	Actual
06/01/2011 03:00:00	50	Actual
06/01/2011 04:00:00	50	Actual
06/01/2011 05:00:00	50	Actual
06/01/2011 06:00:00	50	Actual
06/01/2011 07:00:00	50	Actual
06/01/2011 08:00:00	50	Actual

06/01/2011 09:00:00	50	Actual
06/01/2011 10:00:00	50	Actual
06/01/2011 11:00:00	50	Actual
06/01/2011 12:00:00	50	Actual
06/01/2011 13:00:00	50	Actual
06/01/2011 14:00:00	50	Actual
06/01/2011 15:00:00	50	Actual
06/01/2011 16:00:00	50	Actual
06/01/2011 17:00:00	50	Actual
06/01/2011 18:00:00	50	Actual
06/01/2011 19:00:00	50	Actual
06/01/2011 20:00:00	50	Actual
06/01/2011 21:00:00	50	Actual
06/01/2011 22:00:00	50	Actual
06/01/2011 23:00:00	50	Actual
07/01/2011 00:00:00	50	Actual
07/01/2011 01:00:00	50	Actual
07/01/2011 02:00:00	50	Actual
07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
07/01/2011 05:00:00	50	Actual
07/01/2011 06:00:00	50	Actual
07/01/2011 07:00:00	50	Actual
07/01/2011 08:00:00	50	Actual
07/01/2011 09:00:00	50	Actual
07/01/2011 10:00:00	50	Actual
07/01/2011 11:00:00	50	Actual
07/01/2011 12:00:00	50	Actual

07/01/2011 13:00:00	50	Actual
07/01/2011 14:00:00	50	Actual
07/01/2011 15:00:00	64	Actual
07/01/2011 16:00:00	116	Actual
07/01/2011 17:00:00	168	Actual
07/01/2011 18:00:00	218	Actual
07/01/2011 19:00:00	268	Actual
07/01/2011 20:00:00	317	Actual
07/01/2011 21:00:00	365	Actual
07/01/2011 22:00:00	418	Actual
07/01/2011 23:00:00	471	Actual
08/01/2011 00:00:00	524	Actual
08/01/2011 01:00:00	578	Actual
08/01/2011 02:00:00	631	Actual
08/01/2011 03:00:00	685	Actual
08/01/2011 04:00:00	739	Actual
08/01/2011 05:00:00	792	Actual
08/01/2011 06:00:00	846	Actual
08/01/2011 07:00:00	900	Actual
08/01/2011 08:00:00	949	Actual
08/01/2011 09:00:00	1002	Actual
08/01/2011 10:00:00	1055	Actual
08/01/2011 11:00:00	1108	Actual
08/01/2011 12:00:00	1162	Actual
08/01/2011 13:00:00	1214	Actual
08/01/2011 14:00:00	1266	Actual
08/01/2011 15:00:00	1267	Actual
08/01/2011 16:00:00	1267	Actual

08/01/2011 17:00:00	1268	Actual
08/01/2011 18:00:00	1268	Actual
08/01/2011 19:00:00	1268	Actual
08/01/2011 20:00:00	1269	Actual
08/01/2011 21:00:00	1269	Actual
08/01/2011 22:00:00	1269	Actual
08/01/2011 23:00:00	1268	Actual
09/01/2011 00:00:00	1268	Actual
09/01/2011 01:00:00	1268	Actual
09/01/2011 02:00:00	1314	Actual
09/01/2011 03:00:00	1314	Actual
09/01/2011 04:00:00	1313	Actual
09/01/2011 05:00:00	1365	Actual
09/01/2011 06:00:00	1364	Actual
09/01/2011 07:00:00	1363	Actual
09/01/2011 08:00:00	1363	Actual
09/01/2011 09:00:00	1362	Actual
09/01/2011 10:00:00	1362	Actual
09/01/2011 11:00:00	1362	Actual
09/01/2011 12:00:00	1414	Actual
09/01/2011 13:00:00	1414	Actual
09/01/2011 14:00:00	1415	Actual
09/01/2011 15:00:00	1417	Actual
09/01/2011 16:00:00	1420	Actual
09/01/2011 17:00:00	1423	Actual
09/01/2011 18:00:00	1426	Actual
09/01/2011 19:00:00	1431	Actual
09/01/2011 20:00:00	1436	Actual

09/01/2011 21:00:00	1442	Actual
09/01/2011 22:00:00	1449	Actual
09/01/2011 23:00:00	1458	Actual
10/01/2011 00:00:00	1468	Actual
10/01/2011 01:00:00	1480	Actual
10/01/2011 02:00:00	1546	Actual
10/01/2011 03:00:00	1614	Actual
10/01/2011 04:00:00	1683	Actual
10/01/2011 05:00:00	1753	Actual
10/01/2011 06:00:00	1822	Actual
10/01/2011 07:00:00	1892	Actual
10/01/2011 08:00:00	1963	Actual
10/01/2011 09:00:00	2034	Actual
10/01/2011 10:00:00	2047	Actual
10/01/2011 11:00:00	2060	Actual
10/01/2011 12:00:00	2073	Actual
10/01/2011 13:00:00	2085	Actual
10/01/2011 14:00:00	2096	Actual
10/01/2011 15:00:00	2106	Actual
10/01/2011 16:00:00	2172	Actual
10/01/2011 17:00:00	2293	Actual
10/01/2011 18:00:00	2418	Actual
10/01/2011 19:00:00	2538	Actual
10/01/2011 20:00:00	2718	Actual
10/01/2011 21:00:00	2726	Actual
10/01/2011 22:00:00	2733	Actual
10/01/2011 23:00:00	2739	Actual
11/01/2011 00:00:00	2745	Actual

11/01/2011 01:00:00	2751	Actual
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11/01/2011 03:00:00	2761	Actual
11/01/2011 04:00:00	2765	Actual
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17/01/2011 06:00:00	798	Projected
17/01/2011 07:00:00	0	Projected
17/01/2011 08:00:00	0	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 1800 12 Janaury 2011

From: [redacted]
To:

Date: Tue, 11 Jan 2011 17:59:53 +1000

In the last twelve hours totals of up to 370mm have fallen in the area around Wivenhoe Dam. In the last hour, rainfalls between 15 and 30mm have been recorded in the same area. At 1600, the BoM advised that falls between 50 to 100mm are still forecast for the 24hrs to 1600 Wednesday 12 January 2011 for the North Pine and Somerset/Wivenhoe catchments.

At 1730 Wivenhoe Dam was 74.92m AHD and rising slowly and releasing about 6,700m3/s

The current expectation is that the dam will reach a steady state (outflow equals inflow) within the next 3 hours without further significant rainfall. At this time, release from the dam will be about 8,000 m3/s.

If there is no further rainfall, it may be possible to then slowly reduce this release overnight.

The dam is expected to peak below 75.5m AHD which is 100mmm below the first fuse plug initiation level.

Note that the automatic recorder as indicated on the BoM website is affected by drawdown and is not reflecting the actual lake level and tendency.

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is also maintaining close contact with warning agencies and local councils.

The next report will be issued at 2100 12 January 2011.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Tue, 11 Jan 2011 18:07:08 +1000

Wivenhoe Dam Actual and Projected Releases

			11/01/2011
Source: Seqwater FOC			18:06
02/01/2011			
09:00:00	50	Actual	
02/01/2011			
10:00:00	50	Actual	
02/01/2011			
11:00:00	50	Actual	
02/01/2011			
12:00:00	50	Actual	
02/01/2011			
13:00:00	50	Actual	
02/01/2011			
14:00:00	50	Actual	
02/01/2011			
15:00:00	50	Actual	
02/01/2011			
16:00:00	50	Actual	
02/01/2011			
17:00:00	50	Actual	
02/01/2011			
18:00:00	50	Actual	
02/01/2011			
19:00:00	50	Actual	
02/01/2011			
20:00:00	50	Actual	
02/01/2011			
21:00:00	50	Actual	
02/01/2011			
22:00:00	50	Actual	
02/01/2011			
23:00:00	50	Actual	
03/01/2011			
00:00:00	50	Actual	
03/01/2011			
01:00:00	50	Actual	
03/01/2011			
02:00:00	50	Actual	
03/01/2011	50	Actual	

03:00:00		
03/01/2011		
04:00:00	50	Actual
03/01/2011		
05:00:00	50	Actual
03/01/2011		
06:00:00	50	Actual
03/01/2011		
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17:00:00	50	Actual
03/01/2011		
18:00:00	50	Actual
03/01/2011		
19:00:00	50	Actual
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03/01/2011		
21:00:00	50	Actual
03/01/2011		
22:00:00	50	Actual
03/01/2011		
23:00:00	50	Actual
04/01/2011		
00:00:00	50	Actual
04/01/2011		
01:00:00	50	Actual
04/01/2011		
02:00:00	50	Actual
04/01/2011		
03:00:00	50	Actual
04/01/2011		
04:00:00	50	Actual
04/01/2011		
05:00:00	50	Actual
04/01/2011		
06:00:00	50	Actual

04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
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05/01/2011 13:00:00	50	Actual
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07/01/2011 19:00:00	268	Actual
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07/01/2011 22:00:00	418	Actual
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12/01/2011 13:00:00	7226	Projected
12/01/2011 14:00:00	7199	Projected
12/01/2011 15:00:00	7170	Projected
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16/01/2011 13:00:00	1945	Projected
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17/01/2011 08:00:00	0	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Tue, 11 Jan 2011 21:10:52 +1000

Please note we have commenced closure sequences at 2100 11/01/2011.

Hopefully there will be no more significant rain

Wivenhoe Dam Actual and Projected Releases

			11/01/2011
Source: Seqwater FOC			21:07
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02/01/2011 10:00:00	50	Actual	
02/01/2011 11:00:00	50	Actual	
02/01/2011 12:00:00	50	Actual	
02/01/2011 13:00:00	50	Actual	
02/01/2011 14:00:00	50	Actual	
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02/01/2011 18:00:00	50	Actual	
02/01/2011 19:00:00	50	Actual	
02/01/2011	50	Actual	

20:00:00		
02/01/2011		
21:00:00	50	Actual
02/01/2011		
22:00:00	50	Actual
02/01/2011		
23:00:00	50	Actual
03/01/2011		
00:00:00	50	Actual
03/01/2011		
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03/01/2011		
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04/01/2011 03:00:00	50	Actual
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16/01/2011 02:00:00	2724	Projected
16/01/2011 03:00:00	2676	Projected
16/01/2011 04:00:00	2629	Projected
16/01/2011 05:00:00	2583	Projected
16/01/2011 06:00:00	2538	Projected
16/01/2011 07:00:00	2493	Projected
16/01/2011 08:00:00	2449	Projected
16/01/2011 09:00:00	2407	Projected
16/01/2011 10:00:00	2365	Projected
16/01/2011 11:00:00	2324	Projected
16/01/2011 12:00:00	2283	Projected
16/01/2011 13:00:00	2243	Projected
16/01/2011 14:00:00	2204	Projected
16/01/2011 15:00:00	2166	Projected
16/01/2011 16:00:00	2129	Projected
16/01/2011 17:00:00	2092	Projected
16/01/2011 18:00:00	2056	Projected
16/01/2011 19:00:00	2020	Projected

16/01/2011 20:00:00	1985	Projected
16/01/2011 21:00:00	1951	Projected
16/01/2011 22:00:00	1918	Projected
16/01/2011 23:00:00	1007	Projected
17/01/2011 00:00:00	1005	Projected
17/01/2011 01:00:00	965	Projected
17/01/2011 02:00:00	926	Projected
17/01/2011 03:00:00	895	Projected
17/01/2011 04:00:00	857	Projected
17/01/2011 05:00:00	856	Projected
17/01/2011 06:00:00	819	Projected
17/01/2011 07:00:00	779	Projected
17/01/2011 08:00:00	740	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases (Updated)

From: [redacted]
To:

Date: Tue, 11 Jan 2011 22:01:36 +1000

Please note that the closure sequence is only valid for 12 hours to 0900 12/01/2011

Wivenhoe Dam Actual and Projected Releases

			11/01/2011
Source: Seqwater FOC			22:00
02/01/2011 09:00:00	50	Actual	
02/01/2011 10:00:00	50	Actual	
02/01/2011 11:00:00	50	Actual	
02/01/2011 12:00:00	50	Actual	
02/01/2011 13:00:00	50	Actual	
02/01/2011 14:00:00	50	Actual	
02/01/2011 15:00:00	50	Actual	
02/01/2011 16:00:00	50	Actual	
02/01/2011 17:00:00	50	Actual	
02/01/2011 18:00:00	50	Actual	
02/01/2011 19:00:00	50	Actual	
02/01/2011 20:00:00	50	Actual	
02/01/2011 21:00:00	50	Actual	
02/01/2011 22:00:00	50	Actual	
02/01/2011 23:00:00	50	Actual	

03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual
03/01/2011 15:00:00	50	Actual
03/01/2011 16:00:00	50	Actual
03/01/2011 17:00:00	50	Actual
03/01/2011 18:00:00	50	Actual
03/01/2011 19:00:00	50	Actual
03/01/2011 20:00:00	50	Actual
03/01/2011 21:00:00	50	Actual
03/01/2011 22:00:00	50	Actual
03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
04/01/2011 03:00:00	50	Actual

04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
04/01/2011 06:00:00	50	Actual
04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual
05/01/2011 01:00:00	50	Actual
05/01/2011 02:00:00	50	Actual
05/01/2011 03:00:00	50	Actual
05/01/2011 04:00:00	50	Actual
05/01/2011 05:00:00	50	Actual
05/01/2011 06:00:00	50	Actual
05/01/2011 07:00:00	50	Actual

05/01/2011 08:00:00	50	Actual
05/01/2011 09:00:00	50	Actual
05/01/2011 10:00:00	50	Actual
05/01/2011 11:00:00	50	Actual
05/01/2011 12:00:00	50	Actual
05/01/2011 13:00:00	50	Actual
05/01/2011 14:00:00	50	Actual
05/01/2011 15:00:00	50	Actual
05/01/2011 16:00:00	50	Actual
05/01/2011 17:00:00	50	Actual
05/01/2011 18:00:00	50	Actual
05/01/2011 19:00:00	50	Actual
05/01/2011 20:00:00	50	Actual
05/01/2011 21:00:00	50	Actual
05/01/2011 22:00:00	50	Actual
05/01/2011 23:00:00	50	Actual
06/01/2011 00:00:00	50	Actual
06/01/2011 01:00:00	50	Actual
06/01/2011 02:00:00	50	Actual
06/01/2011 03:00:00	50	Actual
06/01/2011 04:00:00	50	Actual
06/01/2011 05:00:00	50	Actual
06/01/2011 06:00:00	50	Actual
06/01/2011 07:00:00	50	Actual
06/01/2011 08:00:00	50	Actual
06/01/2011 09:00:00	50	Actual
06/01/2011 10:00:00	50	Actual
06/01/2011 11:00:00	50	Actual

06/01/2011 12:00:00	50	Actual
06/01/2011 13:00:00	50	Actual
06/01/2011 14:00:00	50	Actual
06/01/2011 15:00:00	50	Actual
06/01/2011 16:00:00	50	Actual
06/01/2011 17:00:00	50	Actual
06/01/2011 18:00:00	50	Actual
06/01/2011 19:00:00	50	Actual
06/01/2011 20:00:00	50	Actual
06/01/2011 21:00:00	50	Actual
06/01/2011 22:00:00	50	Actual
06/01/2011 23:00:00	50	Actual
07/01/2011 00:00:00	50	Actual
07/01/2011 01:00:00	50	Actual
07/01/2011 02:00:00	50	Actual
07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
07/01/2011 05:00:00	50	Actual
07/01/2011 06:00:00	50	Actual
07/01/2011 07:00:00	50	Actual
07/01/2011 08:00:00	50	Actual
07/01/2011 09:00:00	50	Actual
07/01/2011 10:00:00	50	Actual
07/01/2011 11:00:00	50	Actual
07/01/2011 12:00:00	50	Actual
07/01/2011 13:00:00	50	Actual
07/01/2011 14:00:00	50	Actual
07/01/2011 15:00:00	65	Actual

07/01/2011 16:00:00	117	Actual
07/01/2011 17:00:00	169	Actual
07/01/2011 18:00:00	220	Actual
07/01/2011 19:00:00	271	Actual
07/01/2011 20:00:00	320	Actual
07/01/2011 21:00:00	369	Actual
07/01/2011 22:00:00	422	Actual
07/01/2011 23:00:00	476	Actual
08/01/2011 00:00:00	529	Actual
08/01/2011 01:00:00	583	Actual
08/01/2011 02:00:00	637	Actual
08/01/2011 03:00:00	691	Actual
08/01/2011 04:00:00	745	Actual
08/01/2011 05:00:00	799	Actual
08/01/2011 06:00:00	854	Actual
08/01/2011 07:00:00	909	Actual
08/01/2011 08:00:00	957	Actual
08/01/2011 09:00:00	1011	Actual
08/01/2011 10:00:00	1064	Actual
08/01/2011 11:00:00	1118	Actual
08/01/2011 12:00:00	1172	Actual
08/01/2011 13:00:00	1225	Actual
08/01/2011 14:00:00	1277	Actual
08/01/2011 15:00:00	1278	Actual
08/01/2011 16:00:00	1278	Actual
08/01/2011 17:00:00	1279	Actual
08/01/2011 18:00:00	1279	Actual
08/01/2011 19:00:00	1279	Actual

08/01/2011 20:00:00	1280	Actual
08/01/2011 21:00:00	1280	Actual
08/01/2011 22:00:00	1280	Actual
08/01/2011 23:00:00	1279	Actual
09/01/2011 00:00:00	1279	Actual
09/01/2011 01:00:00	1279	Actual
09/01/2011 02:00:00	1326	Actual
09/01/2011 03:00:00	1325	Actual
09/01/2011 04:00:00	1325	Actual
09/01/2011 05:00:00	1377	Actual
09/01/2011 06:00:00	1376	Actual
09/01/2011 07:00:00	1376	Actual
09/01/2011 08:00:00	1375	Actual
09/01/2011 09:00:00	1374	Actual
09/01/2011 10:00:00	1374	Actual
09/01/2011 11:00:00	1374	Actual
09/01/2011 12:00:00	1428	Actual
09/01/2011 13:00:00	1428	Actual
09/01/2011 14:00:00	1429	Actual
09/01/2011 15:00:00	1431	Actual
09/01/2011 16:00:00	1434	Actual
09/01/2011 17:00:00	1437	Actual
09/01/2011 18:00:00	1442	Actual
09/01/2011 19:00:00	1447	Actual
09/01/2011 20:00:00	1452	Actual
09/01/2011 21:00:00	1459	Actual
09/01/2011 22:00:00	1466	Actual
09/01/2011 23:00:00	1475	Actual

10/01/2011 00:00:00	1485	Actual
10/01/2011 01:00:00	1497	Actual
10/01/2011 02:00:00	1564	Actual
10/01/2011 03:00:00	1632	Actual
10/01/2011 04:00:00	1701	Actual
10/01/2011 05:00:00	1770	Actual
10/01/2011 06:00:00	1840	Actual
10/01/2011 07:00:00	1910	Actual
10/01/2011 08:00:00	1981	Actual
10/01/2011 09:00:00	2052	Actual
10/01/2011 10:00:00	2065	Actual
10/01/2011 11:00:00	2077	Actual
10/01/2011 12:00:00	2090	Actual
10/01/2011 13:00:00	2103	Actual
10/01/2011 14:00:00	2114	Actual
10/01/2011 15:00:00	2124	Actual
10/01/2011 16:00:00	2190	Actual
10/01/2011 17:00:00	2312	Actual
10/01/2011 18:00:00	2438	Actual
10/01/2011 19:00:00	2560	Actual
10/01/2011 20:00:00	2741	Actual
10/01/2011 21:00:00	2749	Actual
10/01/2011 22:00:00	2756	Actual
10/01/2011 23:00:00	2763	Actual
11/01/2011 00:00:00	2769	Actual
11/01/2011 01:00:00	2774	Actual
11/01/2011 02:00:00	2779	Actual
11/01/2011 03:00:00	2784	Actual

11/01/2011 04:00:00	2788	Actual
11/01/2011 05:00:00	2793	Actual
11/01/2011 06:00:00	2799	Actual
11/01/2011 07:00:00	2805	Actual
11/01/2011 08:00:00	2811	Actual
11/01/2011 09:00:00	3038	Actual
11/01/2011 10:00:00	3394	Actual
11/01/2011 11:00:00	3574	Actual
11/01/2011 12:00:00	3699	Actual
11/01/2011 13:00:00	4283	Actual
11/01/2011 14:00:00	4584	Actual
11/01/2011 15:00:00	5183	Actual
11/01/2011 16:00:00	5801	Actual
11/01/2011 17:00:00	6445	Actual
11/01/2011 18:00:00	6786	Actual
11/01/2011 19:00:00	7482	Actual
11/01/2011 20:00:00	7487	Actual
11/01/2011 21:00:00	7489	Actual
11/01/2011 22:00:00	7141	Actual
11/01/2011 23:00:00	7141	Projected
12/01/2011 00:00:00	6800	Projected
12/01/2011 01:00:00	6798	Projected
12/01/2011 02:00:00	6466	Projected
12/01/2011 03:00:00	6462	Projected
12/01/2011 04:00:00	6137	Projected
12/01/2011 05:00:00	6133	Projected
12/01/2011 06:00:00	6127	Projected
12/01/2011 07:00:00	5809	Projected

12/01/2011 08:00:00	5803	Projected
12/01/2011 09:00:00	5492	Projected
12/01/2011 10:00:00	5485	Projected
12/01/2011 11:00:00	5479	Projected
12/01/2011 12:00:00	5471	Projected
12/01/2011 13:00:00	5463	Projected
12/01/2011 14:00:00	5454	Projected
12/01/2011 15:00:00	5444	Projected
12/01/2011 16:00:00	5434	Projected
12/01/2011 17:00:00	5423	Projected
12/01/2011 18:00:00	5412	Projected
12/01/2011 19:00:00	5400	Projected
12/01/2011 20:00:00	5388	Projected
12/01/2011 21:00:00	5375	Projected
12/01/2011 22:00:00	5362	Projected
12/01/2011 23:00:00	5349	Projected
13/01/2011 00:00:00	5335	Projected
13/01/2011 01:00:00	5320	Projected
13/01/2011 02:00:00	5306	Projected
13/01/2011 03:00:00	5291	Projected
13/01/2011 04:00:00	5276	Projected
13/01/2011 05:00:00	5260	Projected
13/01/2011 06:00:00	5244	Projected
13/01/2011 07:00:00	5228	Projected
13/01/2011 08:00:00	5212	Projected
13/01/2011 09:00:00	5195	Projected
13/01/2011 10:00:00	5178	Projected
13/01/2011 11:00:00	5161	Projected

13/01/2011 12:00:00	5143	Projected
13/01/2011 13:00:00	5125	Projected
13/01/2011 14:00:00	5107	Projected
13/01/2011 15:00:00	5089	Projected
13/01/2011 16:00:00	5070	Projected
13/01/2011 17:00:00	5052	Projected
13/01/2011 18:00:00	5033	Projected
13/01/2011 19:00:00	5013	Projected
13/01/2011 20:00:00	4994	Projected
13/01/2011 21:00:00	4974	Projected
13/01/2011 22:00:00	4954	Projected
13/01/2011 23:00:00	4934	Projected
14/01/2011 00:00:00	4914	Projected
14/01/2011 01:00:00	4893	Projected
14/01/2011 02:00:00	4872	Projected
14/01/2011 03:00:00	4851	Projected
14/01/2011 04:00:00	4830	Projected
14/01/2011 05:00:00	4808	Projected
14/01/2011 06:00:00	4787	Projected
14/01/2011 07:00:00	4765	Projected
14/01/2011 08:00:00	4743	Projected
14/01/2011 09:00:00	4720	Projected
14/01/2011 10:00:00	4698	Projected
14/01/2011 11:00:00	4675	Projected
14/01/2011 12:00:00	4652	Projected
14/01/2011 13:00:00	4629	Projected
14/01/2011 14:00:00	4605	Projected
14/01/2011 15:00:00	4582	Projected

14/01/2011 16:00:00	4558	Projected
14/01/2011 17:00:00	4534	Projected
14/01/2011 18:00:00	4510	Projected
14/01/2011 19:00:00	4485	Projected
14/01/2011 20:00:00	4461	Projected
14/01/2011 21:00:00	4436	Projected
14/01/2011 22:00:00	4411	Projected
14/01/2011 23:00:00	4385	Projected
15/01/2011 00:00:00	4360	Projected
15/01/2011 01:00:00	4334	Projected
15/01/2011 02:00:00	4308	Projected
15/01/2011 03:00:00	4282	Projected
15/01/2011 04:00:00	4256	Projected
15/01/2011 05:00:00	4229	Projected
15/01/2011 06:00:00	4202	Projected
15/01/2011 07:00:00	4175	Projected
15/01/2011 08:00:00	4148	Projected
15/01/2011 09:00:00	4120	Projected
15/01/2011 10:00:00	4093	Projected
15/01/2011 11:00:00	4064	Projected
15/01/2011 12:00:00	4036	Projected
15/01/2011 13:00:00	4008	Projected
15/01/2011 14:00:00	3979	Projected
15/01/2011 15:00:00	3950	Projected
15/01/2011 16:00:00	3921	Projected
15/01/2011 17:00:00	3892	Projected
15/01/2011 18:00:00	3862	Projected
15/01/2011 19:00:00	3832	Projected

15/01/2011 20:00:00	3802	Projected
15/01/2011 21:00:00	3772	Projected
15/01/2011 22:00:00	3741	Projected
15/01/2011 23:00:00	3710	Projected
16/01/2011 00:00:00	3679	Projected
16/01/2011 01:00:00	3640	Projected
16/01/2011 02:00:00	3593	Projected
16/01/2011 03:00:00	3533	Projected
16/01/2011 04:00:00	3468	Projected
16/01/2011 05:00:00	3404	Projected
16/01/2011 06:00:00	3341	Projected
16/01/2011 07:00:00	3279	Projected
16/01/2011 08:00:00	3219	Projected
16/01/2011 09:00:00	3160	Projected
16/01/2011 10:00:00	3101	Projected
16/01/2011 11:00:00	3044	Projected
16/01/2011 12:00:00	2988	Projected
16/01/2011 13:00:00	2933	Projected
16/01/2011 14:00:00	2879	Projected
16/01/2011 15:00:00	2827	Projected
16/01/2011 16:00:00	2775	Projected
16/01/2011 17:00:00	2724	Projected
16/01/2011 18:00:00	2674	Projected
16/01/2011 19:00:00	2625	Projected
16/01/2011 20:00:00	2577	Projected
16/01/2011 21:00:00	2530	Projected
16/01/2011 22:00:00	2484	Projected
16/01/2011 23:00:00	1101	Projected

17/01/2011 00:00:00	1098	Projected
17/01/2011 01:00:00	1055	Projected
17/01/2011 02:00:00	1012	Projected
17/01/2011 03:00:00	977	Projected
17/01/2011 04:00:00	936	Projected
17/01/2011 05:00:00	935	Projected
17/01/2011 06:00:00	894	Projected
17/01/2011 07:00:00	851	Projected
17/01/2011 08:00:00	809	Projected

Duty Engineer

Flood Operations Centre

Phone: [redacted]

Fax:

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7 Day Rainfall Totals and a Selection of Intensity-Duration-Frequency Curves - Peak Discharge Flood Frequency for Gregors and Emu Creeks

From: Duty Engineer [redacted]
To: James Charalambous [redacted]
Date: Wed, 12 Jan 2011 03:04:06 +1000

FYI

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI

IFD Curve Viewer

IFD Curves For Sensor 6636 - Wivenhoe Dam Headwater
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now:

11/01/2011 18:45:00

Reset

Data Increment (DHM):

5M

Plot Style

Logarithmic Intensity

Vertical Grid

Horizontal Grid

Rainfall Sensors

6633 - Lockyer Creek at Lyons Bridge (A)
6636 - Wivenhoe Dam Headwater
6639 - Wivenhoe Dam Headwater (A) REMOVED
6641 - Wivenhoe Dam Tailwater (B)
6643 - Wivenhoe Dam Tailwater (A)
6646 - Brisbane River at Lowood (B)
6649 - Brisbane River at Lowood (A)

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Over Period: good data

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI

IFD Curve Viewer

IFD Curves For Sensor 6540 - Yarraman
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now:

11/01/2011 18:45:00

Reset

Data Increment (DHM):

5M

Plot Style

Logarithmic Intensity

Vertical Grid

Horizontal Grid

Rainfall Sensors

6520 - Emu Creek at Boat Mountain
6523 - Cressbrook Dam
6526 - Lockyer Creek at Helidon
6529 - St Aubins
6540 - Yarraman
6542 - Cooyar Creek at Dam Site
6550 - Bremer River at Walloon (A)

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI QUEENSLAND

IFD Curve Viewer

IFD Curves For Sensor 6540 - Yarraman
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now:

11/01/2011 18:45:00

Reset

Data Increment (DHM):

5M

Plot Style

- Logarithmic Intensity
- Vertical Grid
- Horizontal Grid

Rainfall Sensors

6520 - Emu Creek at Boat Mountain
6523 - Cressbrook Dam
6526 - Lockyer Creek at Helidon
6529 - St Aubins
6540 - Yarraman
6542 - Cooyar Creek at Dam Site
6550 - Bremer River at Walloon (A)

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

Computer
foo's Home
FloodCol
FloodOps
Trash

FLOODcol - Data Collection And Viewing

RFALLMEAN - Rainfall Sensor Summary

File Help

SEQWB ALERT Network Rainfall Sensors



LEGEND
- LOWER BRISBANE
- MIDDLE BRISBANE
- UPPER BRISBANE
- SOMERSET
- BREMER
- LOCKYER
- PINE

Sensor Group
- SEQWater Network - Rain
- BCC Network - Rainfall
- SEQWater Network - BACKUP Rain
- PINE Catchment - Rainfall

Reference Time

Time Now: 11/01/2011 18:45:00 Reset

User Specified Period (Hrs): 168

Time Period
- 1 Hour
- 3 Hours
- 6 Hours
- 12 Hours
- 24 Hours
- 48 Hours
- 72 Hours
- User Period

Display
- Sensors
- Subcatchments
- Zero-Based Viewing
- Absolute Viewing

Summary ...
Show/Hide SAD
Close
Help

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI QUEENSLAND

IFD Curve Viewer

IFD Curves For Sensor 6716 - Bellthorpe West
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now:

11/01/2011 18:45:00

Reset

Data Increment (DHM):

5M

Plot Style

Logarithmic Intensity

Vertical Grid

Horizontal Grid

Rainfall Sensors

6701 - Mt. Mee (B)
6702 - Stanley River at Woodford (B)
6705 - Stanley River at Woodford (A)
6708 - Brisbane River at Devon Hills
6711 - North Pine River at Baxters Creek
6714 - Ferris Knob
6716 - Bellthorpe West

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI QUEENSLAND

IFD Curve Viewer

IFD Curves For Sensor 6733 - Bremer River at Rosewood
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now:

11/01/2011 18:45:00

Reset

Data Increment (DHM):

5M

Plot Style

Logarithmic Intensity

Vertical Grid

Horizontal Grid

Rainfall Sensors

6714 - Ferris Knob
6716 - Bellthorpe West
6730 - Brisbane River at Jindalee
6733 - Bremer River at Rosewood
6736 - Western Creek at Kuss Road
6739 - Purga Creek at Washpool
6742 - Bremer River at Walloon (B)

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

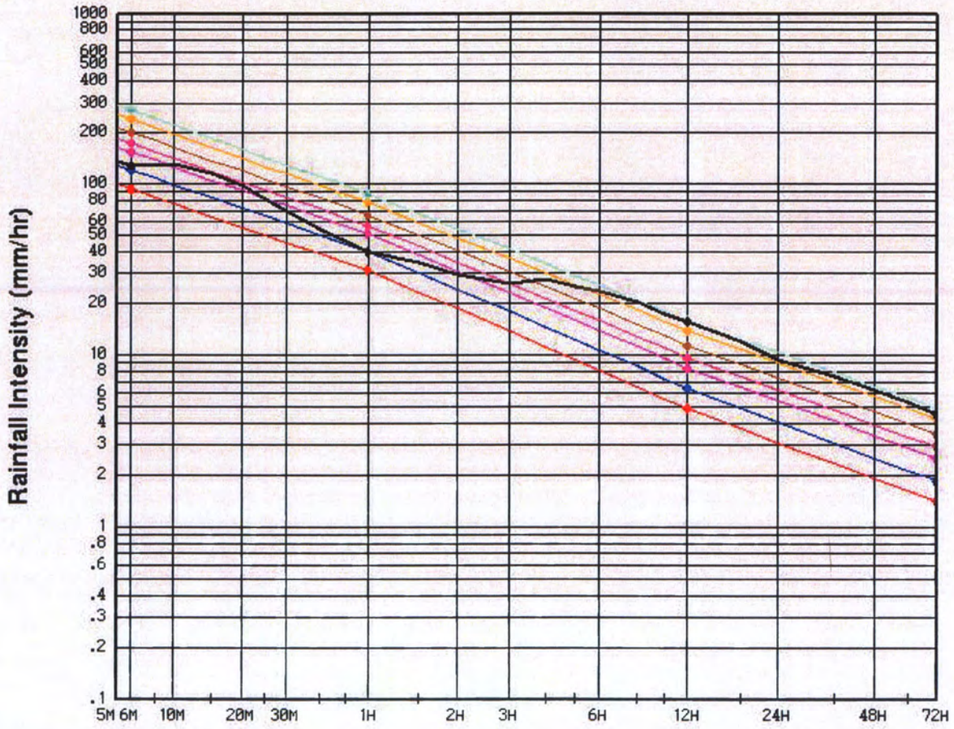
Help

DPI QUEENSLAND

IFD Curve Viewer

IFD Curves For Sensor 6520 - Emu Creek at Boat Mountain
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data



Reference Time

Time Now: 11/01/2011 18:45:00 Reset

Data Increment (DHM): 5M

Plot Style

- Logarithmic Intensity
- Vertical Grid
- Horizontal Grid

Rainfall Sensors

6511 - Mt. Pechey (A)
6513 - Mt. Pechey (B)
6514 - Brisbane River at Gregor's Creek (A)
6517 - Brisbane River at Gregor's Creek (B)
6520 - Emu Creek at Boat Mountain
6523 - Cressbrook Dam
6526 - Lockyer Creek at Helidon

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI QUEENSLAND

IFD Curve Viewer

IFD Curves For Sensor 6680 - Mount Glorious
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now: 11/01/2011 18:45:00 Reset

Data Increment (DHM): 5M

Plot Style

- Logarithmic Intensity
- Vertical Grid
- Horizontal Grid

Rainfall Sensors

- 6680 - Mount Glorious
- 6690 - Mt. Mee (A)
- 6701 - Mt. Mee (B)
- 6702 - Stanley River at Woodford (B)
- 6705 - Stanley River at Woodford (A)
- 6708 - Brisbane River at Devon Hills
- 6711 - North Pine River at Baxters Creek

Search:

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

Computer

FLOODcol - Data Collection And Viewing

VIEWIFD - View Intensity/Frequency/Duration Curves

File

Help

DPI QUEENSLAND

IFD Curve Viewer

IFD Curves For Sensor 6598 - Toowoomba
72 Hours to Tue Jan 11 18:45:00 2011

1 Yr ARI
2 Yr ARI
5 Yr ARI
10 Yr ARI
20 Yr ARI
50 Yr ARI
100 Yr ARI
Sensor Data

Rainfall Intensity (mm/hr)

1000 800 600 500 400 300 200 100 80 60 50 40 30 20 10 8 6 5 4 3 2 1 .8 .6 .4 .3 .2 .1

5M 6M 10M 20M 30M 1H 2H 3H 6H 12H 24H 48H 72H

Duration (minutes: M and hours: H)

Reference Time

Time Now:

11/01/2011 18:45:00 ✓ Reset

Data Increment (DHM):

5M ✓

Plot Style

- Logarithmic Intensity
- Vertical Grid
- Horizontal Grid

Rainfall Sensors

6580 - Bremer River at Adams Bridge
6583 - Laidley Creek at Showground Weir
6590 - Somerset Dam HeadWater (B)
6593 - Somerset Dam Headwater (A)
6596 - Crows Nest
6598 - Toowoomba
6600 - Kilcoy

Search: ✓

Display ...
Information ...
VXS ...
HPGL Plot ...

Close
Help

None

Current Status: OK
Over Period: good data

Actual and Projected Wivenhoe Releases (Updated)

From: [redacted]
To:

Date: Wed, 12 Jan 2011 03:48:18 +1000

Wivenhoe Dam Actual and Projected Releases
12/01/2011
Source: Seqwater FOC 3:43

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
02/01/2011 20:00:00	50	Actual
02/01/2011 21:00:00	50	Actual
02/01/2011 22:00:00	50	Actual
02/01/2011 23:00:00	50	Actual
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual

03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual
03/01/2011 15:00:00	50	Actual
03/01/2011 16:00:00	50	Actual
03/01/2011 17:00:00	50	Actual
03/01/2011 18:00:00	50	Actual
03/01/2011 19:00:00	50	Actual
03/01/2011 20:00:00	50	Actual
03/01/2011 21:00:00	50	Actual
03/01/2011 22:00:00	50	Actual
03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
04/01/2011 03:00:00	50	Actual
04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
04/01/2011 06:00:00	50	Actual
04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual
05/01/2011 01:00:00	50	Actual
05/01/2011 02:00:00	50	Actual
05/01/2011 03:00:00	50	Actual
05/01/2011 04:00:00	50	Actual
05/01/2011 05:00:00	50	Actual
05/01/2011 06:00:00	50	Actual
05/01/2011 07:00:00	50	Actual

05/01/2011 08:00:00	50	Actual
05/01/2011 09:00:00	50	Actual
05/01/2011 10:00:00	50	Actual
05/01/2011 11:00:00	50	Actual
05/01/2011 12:00:00	50	Actual
05/01/2011 13:00:00	50	Actual
05/01/2011 14:00:00	50	Actual
05/01/2011 15:00:00	50	Actual
05/01/2011 16:00:00	50	Actual
05/01/2011 17:00:00	50	Actual
05/01/2011 18:00:00	50	Actual
05/01/2011 19:00:00	50	Actual
05/01/2011 20:00:00	50	Actual
05/01/2011 21:00:00	50	Actual
05/01/2011 22:00:00	50	Actual
05/01/2011 23:00:00	50	Actual
06/01/2011 00:00:00	50	Actual
06/01/2011 01:00:00	50	Actual
06/01/2011 02:00:00	50	Actual
06/01/2011 03:00:00	50	Actual
06/01/2011 04:00:00	50	Actual
06/01/2011 05:00:00	50	Actual
06/01/2011 06:00:00	50	Actual
06/01/2011 07:00:00	50	Actual
06/01/2011 08:00:00	50	Actual
06/01/2011 09:00:00	50	Actual
06/01/2011 10:00:00	50	Actual
06/01/2011 11:00:00	50	Actual
06/01/2011 12:00:00	50	Actual
06/01/2011 13:00:00	50	Actual
06/01/2011 14:00:00	50	Actual
06/01/2011 15:00:00	50	Actual
06/01/2011 16:00:00	50	Actual
06/01/2011 17:00:00	50	Actual
06/01/2011 18:00:00	50	Actual
06/01/2011 19:00:00	50	Actual
06/01/2011 20:00:00	50	Actual
06/01/2011 21:00:00	50	Actual
06/01/2011 22:00:00	50	Actual
06/01/2011 23:00:00	50	Actual
07/01/2011 00:00:00	50	Actual
07/01/2011 01:00:00	50	Actual
07/01/2011 02:00:00	50	Actual

07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
07/01/2011 05:00:00	50	Actual
07/01/2011 06:00:00	50	Actual
07/01/2011 07:00:00	50	Actual
07/01/2011 08:00:00	50	Actual
07/01/2011 09:00:00	50	Actual
07/01/2011 10:00:00	50	Actual
07/01/2011 11:00:00	50	Actual
07/01/2011 12:00:00	50	Actual
07/01/2011 13:00:00	50	Actual
07/01/2011 14:00:00	50	Actual
07/01/2011 15:00:00	65	Actual
07/01/2011 16:00:00	117	Actual
07/01/2011 17:00:00	169	Actual
07/01/2011 18:00:00	220	Actual
07/01/2011 19:00:00	270	Actual
07/01/2011 20:00:00	320	Actual
07/01/2011 21:00:00	368	Actual
07/01/2011 22:00:00	421	Actual
07/01/2011 23:00:00	475	Actual
08/01/2011 00:00:00	529	Actual
08/01/2011 01:00:00	582	Actual
08/01/2011 02:00:00	636	Actual
08/01/2011 03:00:00	690	Actual
08/01/2011 04:00:00	744	Actual
08/01/2011 05:00:00	798	Actual
08/01/2011 06:00:00	852	Actual
08/01/2011 07:00:00	907	Actual
08/01/2011 08:00:00	956	Actual
08/01/2011 09:00:00	1009	Actual
08/01/2011 10:00:00	1062	Actual
08/01/2011 11:00:00	1116	Actual
08/01/2011 12:00:00	1170	Actual
08/01/2011 13:00:00	1222	Actual
08/01/2011 14:00:00	1274	Actual
08/01/2011 15:00:00	1275	Actual
08/01/2011 16:00:00	1276	Actual
08/01/2011 17:00:00	1276	Actual
08/01/2011 18:00:00	1276	Actual
08/01/2011 19:00:00	1276	Actual
08/01/2011 20:00:00	1277	Actual
08/01/2011 21:00:00	1277	Actual

08/01/2011 22:00:00	1276	Actual
08/01/2011 23:00:00	1276	Actual
09/01/2011 00:00:00	1276	Actual
09/01/2011 01:00:00	1276	Actual
09/01/2011 02:00:00	1322	Actual
09/01/2011 03:00:00	1322	Actual
09/01/2011 04:00:00	1321	Actual
09/01/2011 05:00:00	1373	Actual
09/01/2011 06:00:00	1373	Actual
09/01/2011 07:00:00	1372	Actual
09/01/2011 08:00:00	1371	Actual
09/01/2011 09:00:00	1371	Actual
09/01/2011 10:00:00	1370	Actual
09/01/2011 11:00:00	1371	Actual
09/01/2011 12:00:00	1424	Actual
09/01/2011 13:00:00	1424	Actual
09/01/2011 14:00:00	1425	Actual
09/01/2011 15:00:00	1427	Actual
09/01/2011 16:00:00	1430	Actual
09/01/2011 17:00:00	1433	Actual
09/01/2011 18:00:00	1437	Actual
09/01/2011 19:00:00	1442	Actual
09/01/2011 20:00:00	1447	Actual
09/01/2011 21:00:00	1454	Actual
09/01/2011 22:00:00	1461	Actual
09/01/2011 23:00:00	1470	Actual
10/01/2011 00:00:00	1480	Actual
10/01/2011 01:00:00	1491	Actual
10/01/2011 02:00:00	1558	Actual
10/01/2011 03:00:00	1625	Actual
10/01/2011 04:00:00	1693	Actual
10/01/2011 05:00:00	1763	Actual
10/01/2011 06:00:00	1832	Actual
10/01/2011 07:00:00	1901	Actual
10/01/2011 08:00:00	1971	Actual
10/01/2011 09:00:00	2042	Actual
10/01/2011 10:00:00	2055	Actual
10/01/2011 11:00:00	2067	Actual
10/01/2011 12:00:00	2079	Actual
10/01/2011 13:00:00	2092	Actual
10/01/2011 14:00:00	2102	Actual
10/01/2011 15:00:00	2112	Actual
10/01/2011 16:00:00	2178	Actual

10/01/2011 17:00:00	2299	Actual
10/01/2011 18:00:00	2424	Actual
10/01/2011 19:00:00	2545	Actual
10/01/2011 20:00:00	2725	Actual
10/01/2011 21:00:00	2732	Actual
10/01/2011 22:00:00	2739	Actual
10/01/2011 23:00:00	2745	Actual
11/01/2011 00:00:00	2751	Actual
11/01/2011 01:00:00	2757	Actual
11/01/2011 02:00:00	2762	Actual
11/01/2011 03:00:00	2766	Actual
11/01/2011 04:00:00	2770	Actual
11/01/2011 05:00:00	2775	Actual
11/01/2011 06:00:00	2781	Actual
11/01/2011 07:00:00	2786	Actual
11/01/2011 08:00:00	2792	Actual
11/01/2011 09:00:00	3017	Actual
11/01/2011 10:00:00	3369	Actual
11/01/2011 11:00:00	3548	Actual
11/01/2011 12:00:00	3671	Actual
11/01/2011 13:00:00	4250	Actual
11/01/2011 14:00:00	4547	Actual
11/01/2011 15:00:00	5140	Actual
11/01/2011 16:00:00	5751	Actual
11/01/2011 17:00:00	6388	Actual
11/01/2011 18:00:00	6723	Actual
11/01/2011 19:00:00	7411	Actual
11/01/2011 20:00:00	7414	Actual
11/01/2011 21:00:00	7416	Actual
11/01/2011 22:00:00	7071	Actual
11/01/2011 23:00:00	7071	Actual
12/01/2011 00:00:00	6091	Actual
12/01/2011 01:00:00	6093	Actual
12/01/2011 02:00:00	5479	Actual
12/01/2011 03:00:00	5481	Actual
12/01/2011 04:00:00	4888	Projected
12/01/2011 05:00:00	4889	Projected
12/01/2011 06:00:00	4309	Projected
12/01/2011 07:00:00	4310	Projected
12/01/2011 08:00:00	3733	Projected
12/01/2011 09:00:00	3734	Projected
12/01/2011 10:00:00	3151	Projected
12/01/2011 11:00:00	3152	Projected

12/01/2011 12:00:00	2553	Projected
12/01/2011 13:00:00	2555	Projected
12/01/2011 14:00:00	2556	Projected
12/01/2011 15:00:00	2557	Projected
12/01/2011 16:00:00	2558	Projected
12/01/2011 17:00:00	2558	Projected
12/01/2011 18:00:00	2559	Projected
12/01/2011 19:00:00	2559	Projected
12/01/2011 20:00:00	2559	Projected
12/01/2011 21:00:00	2559	Projected
12/01/2011 22:00:00	2559	Projected
12/01/2011 23:00:00	2558	Projected
13/01/2011 00:00:00	2558	Projected
13/01/2011 01:00:00	2557	Projected
13/01/2011 02:00:00	2556	Projected
13/01/2011 03:00:00	2555	Projected
13/01/2011 04:00:00	2615	Projected
13/01/2011 05:00:00	2613	Projected
13/01/2011 06:00:00	2672	Projected
13/01/2011 07:00:00	2670	Projected
13/01/2011 08:00:00	2730	Projected
13/01/2011 09:00:00	2728	Projected
13/01/2011 10:00:00	2786	Projected
13/01/2011 11:00:00	2784	Projected
13/01/2011 12:00:00	2842	Projected
13/01/2011 13:00:00	2839	Projected
13/01/2011 14:00:00	2896	Projected
13/01/2011 15:00:00	2893	Projected
13/01/2011 16:00:00	3007	Projected
13/01/2011 17:00:00	3004	Projected
13/01/2011 18:00:00	3117	Projected
13/01/2011 19:00:00	3113	Projected
13/01/2011 20:00:00	3167	Projected
13/01/2011 21:00:00	3162	Projected
13/01/2011 22:00:00	3273	Projected
13/01/2011 23:00:00	3268	Projected
14/01/2011 00:00:00	3377	Projected
14/01/2011 01:00:00	3372	Projected
14/01/2011 02:00:00	3424	Projected
14/01/2011 03:00:00	3419	Projected
14/01/2011 04:00:00	3528	Projected
14/01/2011 05:00:00	3524	Projected
14/01/2011 06:00:00	3631	Projected

14/01/2011 07:00:00	3626	Projected
14/01/2011 08:00:00	3621	Projected
14/01/2011 09:00:00	3615	Projected
14/01/2011 10:00:00	3609	Projected
14/01/2011 11:00:00	3604	Projected
14/01/2011 12:00:00	3598	Projected
14/01/2011 13:00:00	3592	Projected
14/01/2011 14:00:00	3586	Projected
14/01/2011 15:00:00	3580	Projected
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16/01/2011 19:00:00	3171	Projected
16/01/2011 20:00:00	3162	Projected
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17/01/2011 07:00:00	3049	Projected
17/01/2011 08:00:00	3037	Projected

Duty Engineer

Flood Operations Centre

Phone: [redacted]

Fax: [redacted]

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Situation Report 0600 Wed 12/01/2011

From: [redacted]
To:

Date: Wed, 12 Jan 2011 05:49:22 +1000

No significant rain has fallen over the catchments in the past twelve hours. Less than 10 to 15 millimeters of rainfall is expected over the next 24-48 hours.

Wivenhoe Dam peaked on the 11th January, Tuesday night at 19:00 at 74.97 mAHD with a corresponding discharge of 7,450 m3/s. The release have now been scaled back to 4,300m3/s at 05:00 am. Wivenhoe Dam is currently 74.77 m AHD and falling slowly.

The releases from Wivenhoe Dam will be temporarily reduced to 2,500 m3/s to allow the peak of Lockyer Creek to enter the Brisbane River, after which they will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days.

Somerset Dam is at 105.10 mAHD and slowly rising. The dam is discharging 1,230 m3/s over the spillway. The dam is expected to peak this morning near its current level. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing on Thursday.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.

North Pine Dam is currently releasing 105 m3/s through five gates. At 17:00 the lake was 39.78 mAHD. The event has a volume of around 200,000 ML. The peak discharge from the dam was 2,800 m3/s. This is categorised as an extreme event in the order of 1 in 10,000.

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is also maintaining close contact with warning agencies and local councils.

The next report will be issued at 08:00 12 January 2011.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone: [redacted]

Fax:

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

Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: Wed, 12 Jan 2011 05:53:45 +1000

Wivenhoe Dam Actual and Projected Releases

		12/01/2011
Source: Seqwater FOC		5:51
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02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
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02/01/2011 15:00:00	50	Actual
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02/01/2011 18:00:00	50	Actual
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03/01/2011 10:00:00	50	Actual
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16/01/2011 17:00:00	3201	Projected
16/01/2011 18:00:00	3192	Projected
16/01/2011 19:00:00	3183	Projected
16/01/2011 20:00:00	3174	Projected
16/01/2011 21:00:00	3165	Projected
16/01/2011 22:00:00	3156	Projected
16/01/2011 23:00:00	3147	Projected
17/01/2011 00:00:00	3137	Projected
17/01/2011 01:00:00	3127	Projected
17/01/2011 02:00:00	3117	Projected
17/01/2011 03:00:00	3107	Projected
17/01/2011 04:00:00	3096	Projected
17/01/2011 05:00:00	3085	Projected
17/01/2011 06:00:00	3073	Projected
17/01/2011 07:00:00	3061	Projected
17/01/2011 08:00:00	3050	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax: [redacted]

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Flood_Information_Centre - RE: Situation Report 0800 Wed 12/01/2011

From: [redacted]
To:

Date: Wednesday, 12 January 2011 7:57:12 am
Subject: RE: Situation Report 0800 Wed 12/01/2011

Rainfall

No significant rain has fallen over the catchments in the past twelve hours. Less than 10 to 15 millimeters of rainfall is expected over the next 24-48 hours.

Somerset/Wivenhoe

Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011 and the dam is discharging 1,230 m3/s over the spillway. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing later Wednesday.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.75 m AHD at 07:30 and generally falling slowly.

The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.

North Pine

At 07:00 North Pine Dam was 39.78 mAHD falling and releasing about 105 m3/s. North Pine has peaked at 41.11 mAHD at 14:00 on 11 January 1974 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML. It is expected that gates will be close later Wednesday or early Thursday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is maintaining close contact with warning agencies and local councils.

The next report will be issued at 12:00 12 January 2011.

Regards

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

RE: Situation Report 0800 Wed 12/01/2011

From: [redacted]
To:

Date: Wed, 12 Jan 2011 07:57:26 +1000

Rainfall

No significant rain has fallen over the catchments in the past twelve hours. Less than 10 to 15 millimeters of rainfall is expected over the next 24-48 hours.

Somerset/Wivenhoe

Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011 and the dam is discharging 1,230 m3/s over the spillway. Sluice gates will be utilised to assist the draining of the flood storage compartment commencing later Wednesday.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.75 m AHD at 07:30 and generally falling slowly.

The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.

North Pine

At 07:00 North Pine Dam was 39.78 mAHD falling and releasing about 105 m3/s. North Pine has peaked at 41.11 mAHD at 14:00 on 11 January 1974 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML. It is expected that gates will be close later Wednesday or early Thursday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is maintaining close contact with warning agencies and local councils.

The next report will be issued at 12:00 12 January 2011.

Regards

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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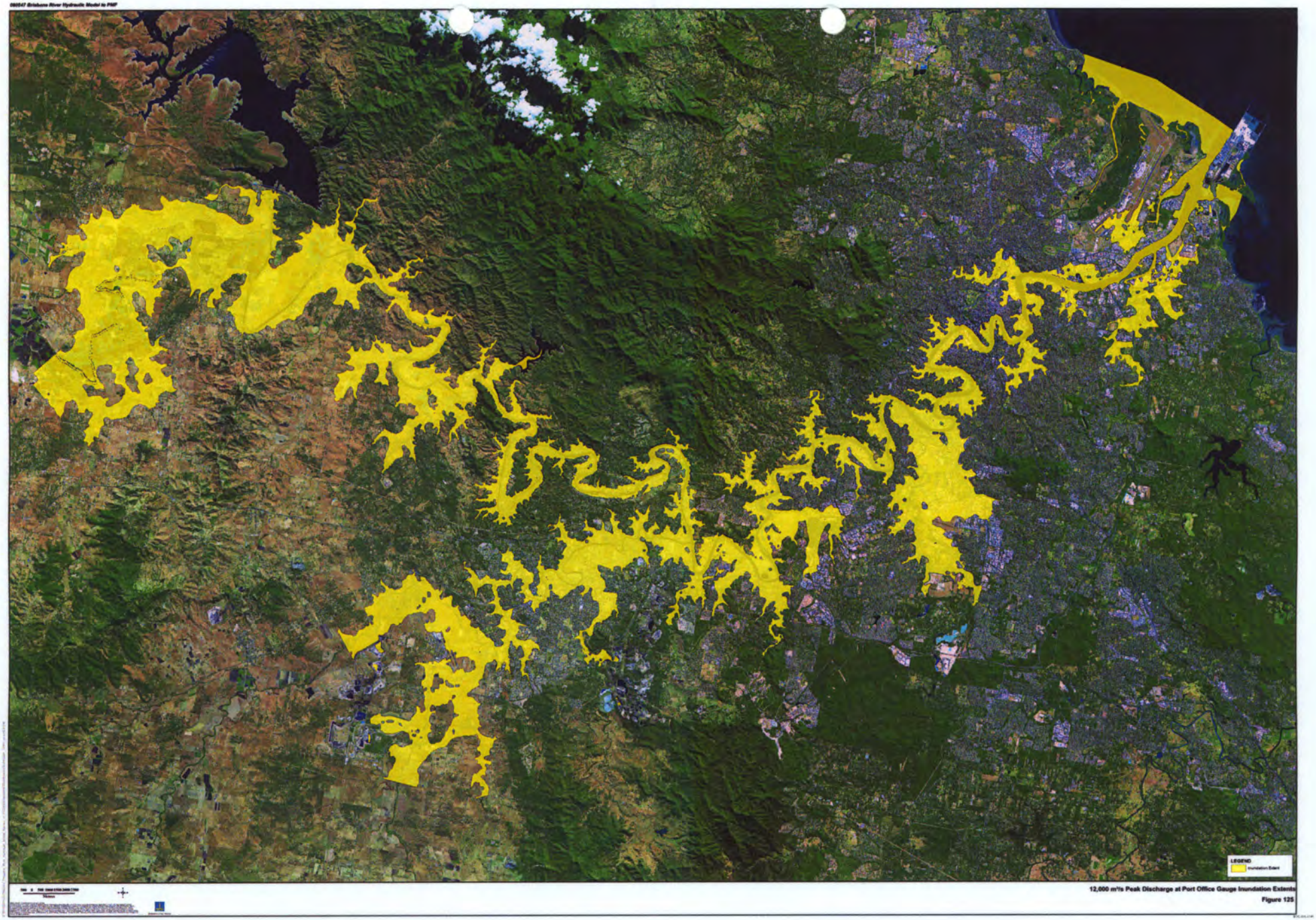
12,000m3/s Flood Innundation Map

From: [redacted]
To:
Date: Wed, 12 Jan 2011 09:02:33 +1000

+=*
Place: Flood_Information_Centre
+=*
As requested.

By Don Carrol

Flood Information Centre
[redacted]
Email:



12,000 m³/s Peak Discharge at Port Office Gauge Inundation Extents
Figure 125

Situation Report 1500 Wed 12/01/2011

From: [redacted]
To:

Cc:
Date: Wed, 12 Jan 2011 15:17:30 +1000

Rainfall

Rainfall in the last 12 hours is generally below 5mm with a couple of 10mm falls in the Stanley and North Pine catchments. There is no significant rain expected fin the next 4 days.

Somerset/Wivenhoe

Somerset Dam has peaked at 105.11 mAHD at 06:00 on 12 January 2011. One sluice was opened at 1030 12 January 2011 and the dam is discharging 1,440 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.81 m AHD at 15:00 and steady.

The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River. After the downstream peak in the lower Brisbane River has passed, releases will be increased to maximum of 3,500 m3/s. This release will then be maintained to drain the flood storage component within the required 7 days.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2 million megalitres.

North Pine

At 15:00 North Pine Dam was 39.74 mAHD falling with all gates open 1 increment, releasing about 80 m3/s. North Pine peaked at 41.11 mAHD at 14:00 on 11 January 1974 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML. It is expected that gates will be closed on Thursday or Thursday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy every 30 minutes. The FOC is maintaining close contact with warning agencies and local councils.

The next report will be issued at 18:00 12 January 2011.

Regards

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Dam Projected Releases - 1800 at Wednesday 12 January 2011

From: [redacted]
To:

Date: Wed, 12 Jan 2011 18:07:24 +1000

This is subject to forecast rainfall over the next week. Please advise if there are any issues you wish us to consider?

Wivenhoe Dam Actual and Projected Releases

		12/01/2011
Source: Seqwater FOC		18:04
02/01/2011		
09:00:00	50	Actual
02/01/2011		
10:00:00	50	Actual
02/01/2011		
11:00:00	50	Actual
02/01/2011		
12:00:00	50	Actual
02/01/2011		
13:00:00	50	Actual
02/01/2011		
14:00:00	50	Actual
02/01/2011		
15:00:00	50	Actual
02/01/2011		
16:00:00	50	Actual
02/01/2011		
17:00:00	50	Actual
02/01/2011		
18:00:00	50	Actual
02/01/2011		
19:00:00	50	Actual
02/01/2011		
20:00:00	50	Actual
02/01/2011		
21:00:00	50	Actual
02/01/2011		
22:00:00	50	Actual
02/01/2011	50	Actual

23:00:00		
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual
03/01/2011 15:00:00	50	Actual
03/01/2011 16:00:00	50	Actual
03/01/2011 17:00:00	50	Actual
03/01/2011 18:00:00	50	Actual
03/01/2011 19:00:00	50	Actual
03/01/2011 20:00:00	50	Actual
03/01/2011 21:00:00	50	Actual
03/01/2011 22:00:00	50	Actual
03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual

04/01/2011 03:00:00	50	Actual
04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
04/01/2011 06:00:00	50	Actual
04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual
05/01/2011 01:00:00	50	Actual
05/01/2011 02:00:00	50	Actual
05/01/2011 03:00:00	50	Actual
05/01/2011 04:00:00	50	Actual
05/01/2011 05:00:00	50	Actual
05/01/2011 06:00:00	50	Actual

05/01/2011 07:00:00	50	Actual
05/01/2011 08:00:00	50	Actual
05/01/2011 09:00:00	50	Actual
05/01/2011 10:00:00	50	Actual
05/01/2011 11:00:00	50	Actual
05/01/2011 12:00:00	50	Actual
05/01/2011 13:00:00	50	Actual
05/01/2011 14:00:00	50	Actual
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05/01/2011 16:00:00	50	Actual
05/01/2011 17:00:00	50	Actual
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05/01/2011 19:00:00	50	Actual
05/01/2011 20:00:00	50	Actual
05/01/2011 21:00:00	50	Actual
05/01/2011 22:00:00	50	Actual
05/01/2011 23:00:00	50	Actual
06/01/2011 00:00:00	50	Actual
06/01/2011 01:00:00	50	Actual
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06/01/2011 07:00:00	50	Actual
06/01/2011 08:00:00	50	Actual
06/01/2011 09:00:00	50	Actual
06/01/2011 10:00:00	50	Actual

06/01/2011 11:00:00	50	Actual
06/01/2011 12:00:00	50	Actual
06/01/2011 13:00:00	50	Actual
06/01/2011 14:00:00	50	Actual
06/01/2011 15:00:00	50	Actual
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06/01/2011 17:00:00	50	Actual
06/01/2011 18:00:00	50	Actual
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06/01/2011 23:00:00	50	Actual
07/01/2011 00:00:00	50	Actual
07/01/2011 01:00:00	50	Actual
07/01/2011 02:00:00	50	Actual
07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
07/01/2011 05:00:00	50	Actual
07/01/2011 06:00:00	50	Actual
07/01/2011 07:00:00	50	Actual
07/01/2011 08:00:00	50	Actual
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07/01/2011 11:00:00	50	Actual
07/01/2011 12:00:00	50	Actual
07/01/2011 13:00:00	50	Actual
07/01/2011 14:00:00	50	Actual

07/01/2011 15:00:00	65	Actual
07/01/2011 16:00:00	117	Actual
07/01/2011 17:00:00	169	Actual
07/01/2011 18:00:00	220	Actual
07/01/2011 19:00:00	270	Actual
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07/01/2011 22:00:00	421	Actual
07/01/2011 23:00:00	475	Actual
08/01/2011 00:00:00	529	Actual
08/01/2011 01:00:00	582	Actual
08/01/2011 02:00:00	636	Actual
08/01/2011 03:00:00	690	Actual
08/01/2011 04:00:00	744	Actual
08/01/2011 05:00:00	798	Actual
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08/01/2011 07:00:00	907	Actual
08/01/2011 08:00:00	956	Actual
08/01/2011 09:00:00	1009	Actual
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08/01/2011 11:00:00	1116	Actual
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08/01/2011 15:00:00	1275	Actual
08/01/2011 16:00:00	1276	Actual
08/01/2011 17:00:00	1276	Actual
08/01/2011 18:00:00	1276	Actual

08/01/2011 19:00:00	1276	Actual
08/01/2011 20:00:00	1277	Actual
08/01/2011 21:00:00	1277	Actual
08/01/2011 22:00:00	1276	Actual
08/01/2011 23:00:00	1276	Actual
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09/01/2011 14:00:00	1425	Actual
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09/01/2011 19:00:00	1442	Actual
09/01/2011 20:00:00	1447	Actual
09/01/2011 21:00:00	1454	Actual
09/01/2011 22:00:00	1461	Actual

09/01/2011 23:00:00	1470	Actual
10/01/2011 00:00:00	1480	Actual
10/01/2011 01:00:00	1491	Actual
10/01/2011 02:00:00	1558	Actual
10/01/2011 03:00:00	1625	Actual
10/01/2011 04:00:00	1693	Actual
10/01/2011 05:00:00	1763	Actual
10/01/2011 06:00:00	1832	Actual
10/01/2011 07:00:00	1901	Actual
10/01/2011 08:00:00	1971	Actual
10/01/2011 09:00:00	2042	Actual
10/01/2011 10:00:00	2055	Actual
10/01/2011 11:00:00	2067	Actual
10/01/2011 12:00:00	2079	Actual
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10/01/2011 17:00:00	2299	Actual
10/01/2011 18:00:00	2424	Actual
10/01/2011 19:00:00	2545	Actual
10/01/2011 20:00:00	2725	Actual
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10/01/2011 22:00:00	2739	Actual
10/01/2011 23:00:00	2745	Actual
11/01/2011 00:00:00	2751	Actual
11/01/2011 01:00:00	2757	Actual
11/01/2011 02:00:00	2762	Actual

11/01/2011 03:00:00	2766	Actual
11/01/2011 04:00:00	2770	Actual
11/01/2011 05:00:00	2775	Actual
11/01/2011 06:00:00	2781	Actual
11/01/2011 07:00:00	2786	Actual
11/01/2011 08:00:00	2792	Actual
11/01/2011 09:00:00	3017	Actual
11/01/2011 10:00:00	3369	Actual
11/01/2011 11:00:00	3548	Actual
11/01/2011 12:00:00	3671	Actual
11/01/2011 13:00:00	4250	Actual
11/01/2011 14:00:00	4547	Actual
11/01/2011 15:00:00	5140	Actual
11/01/2011 16:00:00	5751	Actual
11/01/2011 17:00:00	6388	Actual
11/01/2011 18:00:00	6723	Actual
11/01/2011 19:00:00	7411	Actual
11/01/2011 20:00:00	7414	Actual
11/01/2011 21:00:00	7416	Actual
11/01/2011 22:00:00	7071	Actual
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12/01/2011 00:00:00	6091	Actual
12/01/2011 01:00:00	6093	Actual
12/01/2011 02:00:00	5479	Actual
12/01/2011 03:00:00	5481	Actual
12/01/2011 04:00:00	4888	Actual
12/01/2011 05:00:00	4309	Actual
12/01/2011 06:00:00	3733	Actual

12/01/2011 07:00:00	3151	Actual
12/01/2011 08:00:00	2554	Actual
12/01/2011 09:00:00	2556	Actual
12/01/2011 10:00:00	2559	Actual
12/01/2011 11:00:00	2561	Actual
12/01/2011 12:00:00	2563	Actual
12/01/2011 13:00:00	2565	Actual
12/01/2011 14:00:00	2567	Actual
12/01/2011 15:00:00	2568	Actual
12/01/2011 16:00:00	2570	Actual
12/01/2011 17:00:00	2571	Actual
12/01/2011 18:00:00	2571	Actual
12/01/2011 19:00:00	2572	Projected
12/01/2011 20:00:00	2572	Projected
12/01/2011 21:00:00	2572	Projected
12/01/2011 22:00:00	2572	Projected
12/01/2011 23:00:00	2572	Projected
13/01/2011 00:00:00	2572	Projected
13/01/2011 01:00:00	2571	Projected
13/01/2011 02:00:00	2571	Projected
13/01/2011 03:00:00	2570	Projected
13/01/2011 04:00:00	2630	Projected
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13/01/2011 07:00:00	2687	Projected
13/01/2011 08:00:00	2747	Projected
13/01/2011 09:00:00	2745	Projected
13/01/2011 10:00:00	2805	Projected

13/01/2011 11:00:00	2803	Projected
13/01/2011 12:00:00	2861	Projected
13/01/2011 13:00:00	2858	Projected
13/01/2011 14:00:00	2916	Projected
13/01/2011 15:00:00	2913	Projected
13/01/2011 16:00:00	3029	Projected
13/01/2011 17:00:00	3026	Projected
13/01/2011 18:00:00	3140	Projected
13/01/2011 19:00:00	3137	Projected
13/01/2011 20:00:00	3191	Projected
13/01/2011 21:00:00	3187	Projected
13/01/2011 22:00:00	3299	Projected
13/01/2011 23:00:00	3294	Projected
14/01/2011 00:00:00	3405	Projected
14/01/2011 01:00:00	3399	Projected
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14/01/2011 07:00:00	3654	Projected
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14/01/2011 09:00:00	3643	Projected
14/01/2011 10:00:00	3637	Projected
14/01/2011 11:00:00	3631	Projected
14/01/2011 12:00:00	3625	Projected
14/01/2011 13:00:00	3619	Projected
14/01/2011 14:00:00	3613	Projected

14/01/2011 15:00:00	3606	Projected
14/01/2011 16:00:00	3600	Projected
14/01/2011 17:00:00	3593	Projected
14/01/2011 18:00:00	3587	Projected
14/01/2011 19:00:00	3580	Projected
14/01/2011 20:00:00	3573	Projected
14/01/2011 21:00:00	3566	Projected
14/01/2011 22:00:00	3560	Projected
14/01/2011 23:00:00	3553	Projected
15/01/2011 00:00:00	3546	Projected
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15/01/2011 23:00:00	3367	Projected
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17/01/2011 08:00:00	3062	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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

Wivenhoe Dam Projected Releases - 20:00 at Wednesday 12 January 2011

From: [redacted]
To:

Date: Wed, 12 Jan 2011 20:15:09 +1000

Wivenhoe Dam Actual and Projected Releases

12/01/2011

Source: Seqwater FOC 20:10

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02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
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03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011	50	Actual

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18/01/2011 09:00:00	1866	Projected
18/01/2011 10:00:00	1818	Projected
18/01/2011 11:00:00	1723	Projected
18/01/2011 12:00:00	1670	Projected
18/01/2011 13:00:00	1619	Projected
18/01/2011 14:00:00	1523	Projected
18/01/2011 15:00:00	1472	Projected
18/01/2011 16:00:00	1422	Projected
18/01/2011 17:00:00	1323	Projected
18/01/2011 18:00:00	1271	Projected
18/01/2011 19:00:00	1219	Projected
18/01/2011 20:00:00	1127	Projected
18/01/2011 21:00:00	1077	Projected
18/01/2011 22:00:00	1026	Projected
18/01/2011 23:00:00	926	Projected
19/01/2011 00:00:00	876	Projected
19/01/2011 01:00:00	825	Projected
19/01/2011 02:00:00	725	Projected
19/01/2011 03:00:00	675	Projected
19/01/2011 04:00:00	625	Projected
19/01/2011 05:00:00	525	Projected
19/01/2011 06:00:00	475	Projected
19/01/2011 07:00:00	432	Projected
19/01/2011 08:00:00	332	Projected
19/01/2011 09:00:00	288	Projected

19/01/2011 10:00:00	242	Projected
19/01/2011 11:00:00	148	Projected
19/01/2011 12:00:00	99	Projected
19/01/2011 13:00:00	49	Projected
19/01/2011 14:00:00	0	Projected
19/01/2011 15:00:00	0	Projected
19/01/2011 16:00:00	0	Projected
19/01/2011 17:00:00	0	Projected
19/01/2011 18:00:00	0	Projected
19/01/2011 19:00:00	0	Projected

John Ruffini

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report 0600 13 January 2011

From: [redacted]
To:

Cc:

Date: Thu, 13 Jan 2011 05:45:03 +1000

Rainfall

Rainfall in the last 12 hours is generally below 5mm with isolated falls of up to 15mm in the Stanley, Lockyer and Pine River catchments. There is no significant rain expected fin the next 4 days.

Somerset/Wivenhoe

Somerset Dam peaked at 105.11 mAHD at 06:00 on Wednesday 12 January 2011. The current level is 104.34 mAHD. One sluice was opened at 10:30 on 12 January 2011 and the dam is currently discharging 1,130 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s. Wivenhoe Dam was 74.72 m AHD at 06:00 and commence to fall slowly.

The releases from Wivenhoe Dam have been temporarily reduced to 2,500 m3/s at 07:30 on Wednesday 12 January 2011 to allow the peak of Lockyer Creek to enter the Brisbane River. The Brisbane River has peaked at the Port Office Gauge early Thursday morning. Releases from Wivenhoe Dam will be managed to achieve a target flow of around 3,500 m3/s at Moggill. This release will then be maintained to drain the flood storage component within the required 7 days.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

North Pine

At 06:00 North Pine Dam was 39.70 mAHD falling with all gates open 1 increment, releasing about 80 m3/s. North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with peak release of 2,800 m3/s. The event has a volume of around 200,000 ML. It is expected that all gates will be closed on Friday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and reviewing operating strategy. The FOC will continue to maintain close contact with warning agencies and local councils.

The next report will be issued at 18:00 on Thursday 13 January 2011.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Chris Lavin - FOC Situation Report 0600 13 January 2011

From: [redacted]
To:

Date: 13/01/2011 5:44:45 am
Subject: FOC Situation Report 0600 13 January 2011
CC: [redacted]

Rainfall

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Somerset Dam peaked at 105.11 mAHD at 06:00 on Wednesday 12 January 2011. The current level is 104.34 mAHD. One sluice was opened at 10:30 on 12 January 2011 and the dam is currently discharging 1,130 m3/s. Sluice gates will be utilised to drain of the flood storage compartment during the next 5 days.

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The next report will be issued at 18:00 on Thursday 13 January 2011.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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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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Comms Restored

From: [redacted]
To:

Date: Thu, 13 Jan 2011 11:13:53 +1000

Comms has been restored in the FOC

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

Flood_Information_Centre - Actual and Projected Wivenhoe Releases

From: [redacted]
To:

Date: 13 January 2011 2:31:59 pm
Subject: Actual and Projected Wivenhoe Releases

Wivenhoe Dam Actual and Projected Releases
13/01/2011
Source: Seqwater FOC 14:31

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
02/01/2011 20:00:00	50	Actual
02/01/2011 21:00:00	50	Actual
02/01/2011 22:00:00	50	Actual
02/01/2011 23:00:00	50	Actual
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual
03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual

03/01/2011

BCC.009.8849

09:00:00	50	Actual
03/01/2011		
10:00:00	50	Actual
03/01/2011		
11:00:00	50	Actual
03/01/2011		
12:00:00	50	Actual
03/01/2011		
13:00:00	50	Actual
03/01/2011		
14:00:00	50	Actual
03/01/2011		
15:00:00	50	Actual
03/01/2011		
16:00:00	50	Actual
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17:00:00	50	Actual
03/01/2011		
18:00:00	50	Actual
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19:00:00	50	Actual
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20:00:00	50	Actual
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21:00:00	50	Actual
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22:00:00	50	Actual
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23:00:00	50	Actual
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16:00:00	50	Actual
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04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
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05/01/2011 02:00:00	50	Actual
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05/01/2011 14:00:00	50	Actual
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05/01/2011 16:00:00	50	Actual
05/01/2011 17:00:00	50	Actual
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05/01/2011 19:00:00	50	Actual
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06/01/2011 00:00:00	50	Actual
06/01/2011 01:00:00	50	Actual
06/01/2011		

02:00:00	50	Actual
06/01/2011		
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17:00:00	50	Actual
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18:00:00	50	Actual
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02:00:00	50	Actual
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07:00:00	50	Actual
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08:00:00	50	Actual
07/01/2011		
09:00:00	50	Actual
07/01/2011		
10:00:00	50	Actual

07/01/2011 11:00:00	50	Actual
07/01/2011 12:00:00	50	Actual
07/01/2011 13:00:00	50	Actual
07/01/2011 14:00:00	50	Actual
07/01/2011 15:00:00	65	Actual
07/01/2011 16:00:00	117	Actual
07/01/2011 17:00:00	169	Actual
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07/01/2011 22:00:00	421	Actual
07/01/2011 23:00:00	474	Actual
08/01/2011 00:00:00	528	Actual
08/01/2011 01:00:00	581	Actual
08/01/2011 02:00:00	635	Actual
08/01/2011 03:00:00	689	Actual
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08/01/2011 08:00:00	953	Actual
08/01/2011 09:00:00	1006	Actual
08/01/2011 10:00:00	1059	Actual
08/01/2011 11:00:00	1113	Actual
08/01/2011 12:00:00	1167	Actual
08/01/2011 13:00:00	1219	Actual
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08/01/2011 17:00:00	1273	Actual
08/01/2011 18:00:00	1273	Actual
08/01/2011		

19:00:00	1273	Actual
08/01/2011		
20:00:00	1273	Actual
08/01/2011		
21:00:00	1273	Actual
08/01/2011		
22:00:00	1273	Actual
08/01/2011		
23:00:00	1273	Actual
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01:00:00	1272	Actual
09/01/2011		
02:00:00	1318	Actual
09/01/2011		
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09/01/2011		
05:00:00	1369	Actual
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07:00:00	1368	Actual
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09/01/2011		
13:00:00	1419	Actual
09/01/2011		
14:00:00	1420	Actual
09/01/2011		
15:00:00	1422	Actual
09/01/2011		
16:00:00	1425	Actual
09/01/2011		
17:00:00	1428	Actual
09/01/2011		
18:00:00	1432	Actual
09/01/2011		
19:00:00	1437	Actual
09/01/2011		
20:00:00	1442	Actual
09/01/2011		
21:00:00	1448	Actual
09/01/2011		
22:00:00	1455	Actual
09/01/2011		
23:00:00	1464	Actual
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01:00:00	1485	Actual
10/01/2011		
02:00:00	1551	Actual
10/01/2011		
03:00:00	1618	Actual

10/01/2011 04:00:00	1685	Actual
10/01/2011 05:00:00	1754	Actual
10/01/2011 06:00:00	1822	Actual
10/01/2011 07:00:00	1891	Actual
10/01/2011 08:00:00	1961	Actual
10/01/2011 09:00:00	2031	Actual
10/01/2011 10:00:00	2043	Actual
10/01/2011 11:00:00	2055	Actual
10/01/2011 12:00:00	2067	Actual
10/01/2011 13:00:00	2079	Actual
10/01/2011 14:00:00	2090	Actual
10/01/2011 15:00:00	2100	Actual
10/01/2011 16:00:00	2165	Actual
10/01/2011 17:00:00	2285	Actual
10/01/2011 18:00:00	2409	Actual
10/01/2011 19:00:00	2529	Actual
10/01/2011 20:00:00	2707	Actual
10/01/2011 21:00:00	2715	Actual
10/01/2011 22:00:00	2721	Actual
10/01/2011 23:00:00	2727	Actual
11/01/2011 00:00:00	2733	Actual
11/01/2011 01:00:00	2738	Actual
11/01/2011 02:00:00	2743	Actual
11/01/2011 03:00:00	2748	Actual
11/01/2011 04:00:00	2752	Actual
11/01/2011 05:00:00	2756	Actual
11/01/2011 06:00:00	2762	Actual
11/01/2011 07:00:00	2767	Actual
11/01/2011 08:00:00	2773	Actual
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11/01/2011 10:00:00	3345	Actual
11/01/2011 11:00:00	3522	Actual
11/01/2011		

12:00:00	3644	Actual
11/01/2011		
13:00:00	4217	Actual
11/01/2011		
14:00:00	4511	Actual
11/01/2011		
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19:00:00	7339	Actual
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20:00:00	7341	Actual
11/01/2011		
21:00:00	7342	Actual
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22:00:00	7001	Actual
11/01/2011		
23:00:00	7000	Actual
12/01/2011		
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01:00:00	6033	Actual
12/01/2011		
02:00:00	5427	Actual
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04:00:00	4842	Actual
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13:00:00	2543	Actual
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17:00:00	2548	Actual
12/01/2011		
18:00:00	2548	Actual
12/01/2011		
19:00:00	2549	Actual
12/01/2011		
20:00:00	2549	Actual

12/01/2011 21:00:00	2549	Actual
12/01/2011 22:00:00	2549	Actual
12/01/2011 23:00:00	2549	Actual
13/01/2011 00:00:00	2549	Actual
13/01/2011 01:00:00	2548	Actual
13/01/2011 02:00:00	2547	Actual
13/01/2011 03:00:00	2547	Actual
13/01/2011 04:00:00	2546	Actual
13/01/2011 05:00:00	2545	Actual
13/01/2011 06:00:00	2544	Actual
13/01/2011 07:00:00	2543	Actual
13/01/2011 08:00:00	2542	Actual
13/01/2011 09:00:00	2540	Actual
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13/01/2011 11:00:00	2538	Actual
13/01/2011 12:00:00	2537	Actual
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13/01/2011 15:00:00	2653	Projected
13/01/2011 16:00:00	2772	Projected
13/01/2011 17:00:00	2830	Projected
13/01/2011 18:00:00	2888	Projected
13/01/2011 19:00:00	2944	Projected
13/01/2011 20:00:00	3001	Projected
13/01/2011 21:00:00	3057	Projected
13/01/2011 22:00:00	3113	Projected
13/01/2011 23:00:00	3168	Projected
14/01/2011 00:00:00	3222	Projected
14/01/2011 01:00:00	3276	Projected
14/01/2011 02:00:00	3330	Projected
14/01/2011 03:00:00	3383	Projected
14/01/2011 04:00:00	3435	Projected
14/01/2011		

05:00:00 14/01/2011	3487	Projected
06:00:00 14/01/2011	3539	Projected
07:00:00 14/01/2011	3590	Projected
08:00:00 14/01/2011	3641	Projected
09:00:00 14/01/2011	3634	Projected
10:00:00 14/01/2011	3628	Projected
11:00:00 14/01/2011	3622	Projected
12:00:00 14/01/2011	3615	Projected
13:00:00 14/01/2011	3609	Projected
14:00:00 14/01/2011	3602	Projected
15:00:00 14/01/2011	3596	Projected
16:00:00 14/01/2011	3589	Projected
17:00:00 14/01/2011	3582	Projected
18:00:00 14/01/2011	3575	Projected
19:00:00 14/01/2011	3568	Projected
20:00:00 14/01/2011	3561	Projected
21:00:00 14/01/2011	3554	Projected
22:00:00 14/01/2011	3547	Projected
23:00:00 15/01/2011	3540	Projected
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01:00:00 15/01/2011	3525	Projected
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03:00:00 15/01/2011	3510	Projected
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06:00:00 15/01/2011	3487	Projected
07:00:00 15/01/2011	3480	Projected
08:00:00 15/01/2011	3472	Projected
09:00:00 15/01/2011	3464	Projected
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15/01/2011 22:00:00	3358	Projected
15/01/2011 23:00:00	3350	Projected
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16/01/2011 02:00:00	3325	Projected
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16/01/2011 06:00:00	3291	Projected
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16/01/2011		

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16/01/2011		
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17/01/2011		
00:00:00	3105	Projected
17/01/2011		
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03:00:00	3070	Projected
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17/01/2011		
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17/01/2011		
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17/01/2011		
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17/01/2011		
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17/01/2011		
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17/01/2011		
23:00:00	2182	Projected
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18/01/2011		
02:00:00	1983	Projected
18/01/2011		
03:00:00	1887	Projected
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18/01/2011		
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18/01/2011		
06:00:00	1694	Projected

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19/01/2011 14:00:00	0	Projected

19/01/2011

15:00:00 19/01/2011	0	Projected
16:00:00 19/01/2011	0	Projected
17:00:00 19/01/2011	0	Projected
18:00:00 19/01/2011	0	Projected
19:00:00	0	Projected

Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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Actual and Projected Wivenhoe Releases

From: Duty Engineer [redacted]
To: [redacted] Flood Information Centre [redacted]
Date: Thu, 13 Jan 2011 14:32:08 +1000

Wivenhoe Dam Actual and Projected Releases

			13/01/2011
Source: Seqwater FOC			14:31
02/01/2011 09:00:00	50	Actual	
02/01/2011 10:00:00	50	Actual	
02/01/2011 11:00:00	50	Actual	
02/01/2011 12:00:00	50	Actual	
02/01/2011 13:00:00	50	Actual	
02/01/2011 14:00:00	50	Actual	
02/01/2011 15:00:00	50	Actual	
02/01/2011 16:00:00	50	Actual	
02/01/2011 17:00:00	50	Actual	
02/01/2011 18:00:00	50	Actual	
02/01/2011 19:00:00	50	Actual	
02/01/2011 20:00:00	50	Actual	
02/01/2011 21:00:00	50	Actual	
02/01/2011 22:00:00	50	Actual	
02/01/2011 23:00:00	50	Actual	
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03/01/2011 01:00:00	50	Actual	
03/01/2011 02:00:00	50	Actual	
03/01/2011 03:00:00	50	Actual	
03/01/2011 04:00:00	50	Actual	
03/01/2011 05:00:00	50	Actual	

03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
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04/01/2011 06:00:00	50	Actual
04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual

04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
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05/01/2011 10:00:00	50	Actual
05/01/2011 11:00:00	50	Actual
05/01/2011 12:00:00	50	Actual
05/01/2011 13:00:00	50	Actual

05/01/2011 14:00:00	50	Actual
05/01/2011 15:00:00	50	Actual
05/01/2011 16:00:00	50	Actual
05/01/2011 17:00:00	50	Actual
05/01/2011 18:00:00	50	Actual
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06/01/2011 14:00:00	50	Actual
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06/01/2011 21:00:00	50	Actual
06/01/2011 22:00:00	50	Actual
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07/01/2011 18:00:00	220	Actual
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07/01/2011 21:00:00	367	Actual

07/01/2011 22:00:00	421	Actual
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08/01/2011 02:00:00	635	Actual
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12/01/2011 13:00:00	2543	Actual

12/01/2011 14:00:00	2544	Actual
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13/01/2011 14:00:00	2654	Actual
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15/01/2011 15:00:00	3416	Projected
15/01/2011 16:00:00	3408	Projected
15/01/2011 17:00:00	3400	Projected
15/01/2011 18:00:00	3392	Projected
15/01/2011 19:00:00	3383	Projected
15/01/2011 20:00:00	3375	Projected
15/01/2011 21:00:00	3367	Projected
15/01/2011 22:00:00	3358	Projected
15/01/2011 23:00:00	3350	Projected
16/01/2011 00:00:00	3342	Projected
16/01/2011 01:00:00	3333	Projected

16/01/2011 02:00:00	3325	Projected
16/01/2011 03:00:00	3316	Projected
16/01/2011 04:00:00	3308	Projected
16/01/2011 05:00:00	3299	Projected
16/01/2011 06:00:00	3291	Projected
16/01/2011 07:00:00	3282	Projected
16/01/2011 08:00:00	3273	Projected
16/01/2011 09:00:00	3264	Projected
16/01/2011 10:00:00	3255	Projected
16/01/2011 11:00:00	3245	Projected
16/01/2011 12:00:00	3236	Projected
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16/01/2011 17:00:00	3185	Projected
16/01/2011 18:00:00	3173	Projected
16/01/2011 19:00:00	3162	Projected
16/01/2011 20:00:00	3151	Projected
16/01/2011 21:00:00	3139	Projected
16/01/2011 22:00:00	3128	Projected
16/01/2011 23:00:00	3116	Projected
17/01/2011 00:00:00	3105	Projected
17/01/2011 01:00:00	3093	Projected
17/01/2011 02:00:00	3081	Projected
17/01/2011 03:00:00	3070	Projected
17/01/2011 04:00:00	3057	Projected
17/01/2011 05:00:00	3044	Projected

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17/01/2011 08:00:00	3006	Projected
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17/01/2011 10:00:00	2980	Projected
17/01/2011 11:00:00	2967	Projected
17/01/2011 12:00:00	2954	Projected
17/01/2011 13:00:00	2940	Projected
17/01/2011 14:00:00	2927	Projected
17/01/2011 15:00:00	2914	Projected
17/01/2011 16:00:00	2857	Projected
17/01/2011 17:00:00	2802	Projected
17/01/2011 18:00:00	2662	Projected
17/01/2011 19:00:00	2565	Projected
17/01/2011 20:00:00	2469	Projected
17/01/2011 21:00:00	2330	Projected
17/01/2011 22:00:00	2234	Projected
17/01/2011 23:00:00	2182	Projected
18/01/2011 00:00:00	2085	Projected
18/01/2011 01:00:00	2033	Projected
18/01/2011 02:00:00	1983	Projected
18/01/2011 03:00:00	1887	Projected
18/01/2011 04:00:00	1835	Projected
18/01/2011 05:00:00	1787	Projected
18/01/2011 06:00:00	1694	Projected
18/01/2011 07:00:00	1642	Projected
18/01/2011 08:00:00	1591	Projected
18/01/2011 09:00:00	1497	Projected

18/01/2011 10:00:00	1447	Projected
18/01/2011 11:00:00	1398	Projected
18/01/2011 12:00:00	1300	Projected
18/01/2011 13:00:00	1249	Projected
18/01/2011 14:00:00	1199	Projected
18/01/2011 15:00:00	1108	Projected
18/01/2011 16:00:00	1059	Projected
18/01/2011 17:00:00	1008	Projected
18/01/2011 18:00:00	910	Projected
18/01/2011 19:00:00	862	Projected
18/01/2011 20:00:00	811	Projected
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18/01/2011 23:00:00	614	Projected
19/01/2011 00:00:00	516	Projected
19/01/2011 01:00:00	467	Projected
19/01/2011 02:00:00	424	Projected
19/01/2011 03:00:00	326	Projected
19/01/2011 04:00:00	283	Projected
19/01/2011 05:00:00	238	Projected
19/01/2011 06:00:00	145	Projected
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19/01/2011 09:00:00	0	Projected
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19/01/2011 12:00:00	0	Projected
19/01/2011 13:00:00	0	Projected

19/01/2011 14:00:00	0	Projected
19/01/2011 15:00:00	0	Projected
19/01/2011 16:00:00	0	Projected
19/01/2011 17:00:00	0	Projected
19/01/2011 18:00:00	0	Projected
19/01/2011 19:00:00	0	Projected

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 06:00 on Friday 14 Janaury 2011

From: [redacted]
To:

Date: Fri, 14 Jan 2011 05:45:17 +1000

Rainfall

There has been no significant rainfall in the last 12 hours and falls of only 5mm is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.

Somerset/Wivenhoe

Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011. The current level is 102.87 mAHD and falling. Four sluices are open and the dam is currently discharging about 1,300 m3/s.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s. At 05:00 Wivenhoe Dam was 74.08 mAHD and continuing to fall.

The releases from Wivenhoe Dam are currently about 3,500 m3/s and are being managed to achieve a target flow of around 3,500 m3/s at Moggill. This release will then be maintained to drain the flood storage component by Wednesday.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

North Pine

At 05:00 North Pine Dam was 39.40 mAHD and gate operations have ceased. The current level is expected to increase to just over 39.5 mAHD in the next few days due to base-flow. This could be higher if further rainfall occurs.

Fish recovery has commenced and MBRC have been advised that the gates have been closed. MBRC will inspect Youngs Crossing to determine if the crossing can be re-opened.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments. The FOC will continue to maintain close contact with warning agencies and local councils

The next report will be issued at 18:00 on Friday 14 January 2011.

Regards

Rob Ayre

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 0630 Saturday 15 January 2011

From: [redacted]
To:

Date: Sat, 15 Jan 2011 06:35:32 +1000

Rainfall

There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.

Somerset/Wivenhoe

At 06:00 Somerset Dam was 101.35 mAHD and falling. Four sluices are open and the dam is currently discharging about 920 m3/s. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.

At 05:00 Wivenhoe Dam was 72.86 mAHD and continuing to fall. The releases from Wivenhoe Dam are currently about 3,500 m3/s and are being managed to achieve a target flow of around 3,500 m3/s at Moggill. This release level is being maintained to drain the flood storage component by Wednesday.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

North Pine

At 05:00 North Pine Dam was 39.40 mAHD and gate operations have ceased. This level is expected to increase to just over 39.5 mAHD in the next few days due to base-flow. This could be higher if further rainfall occurs.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local councils.

The next report will be issued at 18:00 on Saturday 15 January 2011.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

Situation Report 0600 Sunday 16 January 2011

From: [redacted]
To:

Date: Sun, 16 Jan 2011 06:09:18 +1000

Rainfall

There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.

Somerset/Wivenhoe

At 06:00 Somerset Dam was 100.01 mAHD and falling. Four sluices are open and the dam is currently discharging about 820 m3/s. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.

At 06:00 Wivenhoe Dam was 71.3 mAHD and continuing to fall. The releases from Wivenhoe Dam are currently about 3,477 m3/s and are being managed to achieve a target flow of around 3,500 m3/s at Moggill. This release level is being maintained to drain the flood storage component by Wednesday.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

North Pine

At 06:00 North Pine Dam was 39.46 mAHD. All gates are closed. The lake level is expected to increase to just over 39.5 mAHD in the next few days due to base-flow. This could be higher if further rainfall occurs.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local councils.

The next report will be issued at 18:00 on Sunday 16 January 2011.

John Ruffini

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 1700 Monday 16 January 2011

From: [redacted]
To:

Date: Mon, 17 Jan 2011 16:56:03 +1000

Rainfall

There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.

Somerset/Wivenhoe

At 16:00 Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 7:00 17/01/2011 and one regulator was opened the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.

At 16:00 Wivenhoe Dam was 68.66 mAHD and continuing to fall. The releases from Wivenhoe Dam are currently about 2946 m3/s. Releases will be steadily reduced before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

It should be noted that the automatic recorder currently being reported on the BoM website is currently incorrect and has been since early Tuesday 11 2011.

North Pine

At 09:00 North Pine Dam was 39.5 mAHD. All gates are closed. No further gate operations are expected unless additional rainfall falls.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local

councils. Councils have been informed of the current release strategy. The bridges below Wivenhoe Dam will progressively come out of water over the next few days.

John Ruffini

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Wivenhoe Recession and Coronation Drive

From: [redacted]
To:

Date: Tue, 18 Jan 2011 01:12:48 +1000

Ken Morris contacted the FOC to enquire about slowing the Wivenhoe recession due to concerns about slumping at Coronation Drive.

I note on the ABC web site that the Lord Mayor has said that this is no longer a concern.

Can you please advise?

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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sender immediately and delete the material from your email system. QLD Bulk Water Supply Authority ABN75450239876 (Trading as Seqwater).

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FIC Duty - Coronation Drive Bank Inspections

From: James Charalambous
To: LDCC
Date: 18/01/2011 1:52:03 am
Subject: Coronation Drive Bank Inspections
CC: Flood_Information_Centre

+=*
Place: Flood_Information_Centre
+=*
Inquiry from SEQ Water Flood Operation Centre (FOC); Can we please confirm that Coronation Drive bank slumping issue has been resolved, and that insectan by structural/geotech engineers has taken place hence the ABC media reports that is now safe to use? Please confirm the above.

Thanks FIC

FIC Duty - Re: Wivenhoe Recession and Coronation Drive

From: Flood_Information_Centre
To: Carroll, Don; Caswell, Evan; Charalambous, James; Engineer, Duty; Lavin, Chris; Logan, Craig; McGlinn, Robert; Morris, Ken; Pennisi, Santina
Date: 18/01/2011 2:11:21 am
Subject: Re: Wivenhoe Recession and Coronation Drive
CC: Flood_Information_Centre; LDCC

+=*
Place: Flood_Information_Centre
+=*
Hi Terry,

See the following link and response from our LDCC

http://newsroom.brisbane.qld.gov.au/home/news_detail.asp?ID=1396

Based on the above I believe this issue is no longer a current concern.

Regards
JamesC
FIC Controller.

>>> "Duty Engineer" [redacted] 18/01/2011 1:12:48 am >>>
Ken Morris contacted the FOC to enquire about slowing the Wivenhoe recession due to concerns about slumping at Coronation Drive.

I note on the ABC web site that the Lord Mayor has said that this is no longer a concern.

Can you please advise?

Terry Malone
Duty Engineer
Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

Situation Report 0615 Tuesday 18 Janaury 2011

From: [redacted]
To:

Date: Tue, 18 Jan 2011 06:17:12 +1000

Rainfall

There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.

Somerset/Wivenhoe

At 16:00 Monday Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.

At 06:00 Tuesday Wivenhoe Dam was 67.82 mAHD and continuing to fall slowly. Releases were held constant overnight at about 2,050 m3/s to assist water supply pumping at Lowood. Following discussions with water supply operators, it has been decided to resume closing gates at 09:00 Tuesday before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

It should be noted that the Seqwater water level gauge currently being reported on the BoM website is currently slightly under reading by about 50mm.

North Pine

At 09:00 North Pine Dam was 39.5 mAHD. All gates are closed. No further gate operations are expected unless additional rainfall falls.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local councils. Councils have been informed of the current release strategy.

At 05:00, the Wivenhoe Dam operator reported that the Fernvale Bridge was out of water but water remained over the approaches from Fernvale. He also advised that there were power lines on the bridge and that Energex was advised.

The remaining bridges below Wivenhoe Dam will progressively come out of water over the next few days.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Situation Report 0615 Tuesday 18 Janaury 2011

From: [redacted]
To:

Date: Tue, 18 Jan 2011 06:17:12 +1000

Rainfall

There has been no significant rainfall in the last 24 hours and no significant rainfall is expected in the next twenty-four hours. Mostly fine conditions are expected over the weekend, but showers will return early next week.

Somerset/Wivenhoe

At 16:00 Monday Somerset Dam was 99.02 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.

At 06:00 Tuesday Wivenhoe Dam was 67.82 mAHD and continuing to fall slowly. Releases were held constant overnight at about 2,050 m3/s to assist water supply pumping at Lowood. Following discussions with water supply operators, it has been decided to resume closing gates at 09:00 Tuesday before final closure on Thursday morning. The Dam will be near full supply and releases will be made through the regulator to account for ongoing base-flow.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

It should be noted that the Seqwater water level gauge currently being reported on the BoM website is currently slightly under reading by about 50mm.

North Pine

At 09:00 North Pine Dam was 39.5 mAHD. All gates are closed. No further gate operations are expected unless additional rainfall falls.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local councils. Councils have been informed of the current release strategy.

At 05:00, the Wivenhoe Dam operator reported that the Fernvale Bridge was out of water but water remained over the approaches from Fernvale. He also advised that there were power lines on the bridge and that Energex was advised.

The remaining bridges below Wivenhoe Dam will progressively come out of water over the next few days.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Actual and predicted Release - Wivenhoe Dam at 13:00 on Tuesday 18 January 2011

From: [redacted]
To:

Date: Tue, 18 Jan 2011 13:29:05 +1000

Wivenhoe Dam Actual and Projected Releases
18/01/2011
Source: Seqwater FOC 13:28

02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
02/01/2011 12:00:00	50	Actual
02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
02/01/2011 15:00:00	50	Actual
02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
02/01/2011 19:00:00	50	Actual
02/01/2011 20:00:00	50	Actual
02/01/2011 21:00:00	50	Actual
02/01/2011 22:00:00	50	Actual
02/01/2011 23:00:00	50	Actual
03/01/2011 00:00:00	50	Actual
03/01/2011 01:00:00	50	Actual
03/01/2011 02:00:00	50	Actual

03/01/2011 03:00:00	50	Actual
03/01/2011 04:00:00	50	Actual
03/01/2011 05:00:00	50	Actual
03/01/2011 06:00:00	50	Actual
03/01/2011 07:00:00	50	Actual
03/01/2011 08:00:00	50	Actual
03/01/2011 09:00:00	50	Actual
03/01/2011 10:00:00	50	Actual
03/01/2011 11:00:00	50	Actual
03/01/2011 12:00:00	50	Actual
03/01/2011 13:00:00	50	Actual
03/01/2011 14:00:00	50	Actual
03/01/2011 15:00:00	50	Actual
03/01/2011 16:00:00	50	Actual
03/01/2011 17:00:00	50	Actual
03/01/2011 18:00:00	50	Actual
03/01/2011 19:00:00	50	Actual
03/01/2011 20:00:00	50	Actual
03/01/2011 21:00:00	50	Actual
03/01/2011 22:00:00	50	Actual
03/01/2011 23:00:00	50	Actual
04/01/2011 00:00:00	50	Actual
04/01/2011 01:00:00	50	Actual
04/01/2011 02:00:00	50	Actual
04/01/2011 03:00:00	50	Actual
04/01/2011 04:00:00	50	Actual
04/01/2011 05:00:00	50	Actual
04/01/2011 06:00:00	50	Actual

04/01/2011 07:00:00	50	Actual
04/01/2011 08:00:00	50	Actual
04/01/2011 09:00:00	50	Actual
04/01/2011 10:00:00	50	Actual
04/01/2011 11:00:00	50	Actual
04/01/2011 12:00:00	50	Actual
04/01/2011 13:00:00	50	Actual
04/01/2011 14:00:00	50	Actual
04/01/2011 15:00:00	50	Actual
04/01/2011 16:00:00	50	Actual
04/01/2011 17:00:00	50	Actual
04/01/2011 18:00:00	50	Actual
04/01/2011 19:00:00	50	Actual
04/01/2011 20:00:00	50	Actual
04/01/2011 21:00:00	50	Actual
04/01/2011 22:00:00	50	Actual
04/01/2011 23:00:00	50	Actual
05/01/2011 00:00:00	50	Actual
05/01/2011 01:00:00	50	Actual
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Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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FOC Situation Report at 18:00 on Tuesday 18 January 2011

From: [redacted]
To:
Cc:
Date: Tue, 18 Jan 2011 17:39:57 +1000

Rainfall

Severe thunderstorms are passing over Wivenhoe, Somerset and North Pine Dams this afternoon. To 17:00 falls of 20 to 30 mm where recorded at isolated locations including Mt Pechey and Kluvers Lookout.

A severe thunderstorm warning remains in place for the Stanley River Valley near Kilcoy.

Somerset/Wivenhoe

At 16:00 Tuesday Somerset Dam was 98.95 mAHD and steady. The last sluice gate was closed at 07:00 17/01/2011 and one regulator remains open managing the base-flow into the Dam. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011.

At 16:00 Tuesday Wivenhoe Dam was 66.31 mAHD and continuing to fall slowly. Releases were held constant since 15:00 at about 1,450 m3/s to assist water supply pumping at Lowood. The shutdown sequence is scheduled to re-commence at 03:00 on Wednesday 19 January 2011 morning before final closure on Thursday morning. The Dam will be lowered to 66.5 mAHD (95% capacity) and releases will be made through the regulator to account for ongoing base-flow.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

It should be noted that the Seqwater water level gauge currently being reported on the BoM website is currently slightly under reading by about 50mm.

North Pine

At 09:00 North Pine Dam was 39.56 mAHD and rising slowly All gates are closed. No further gate operations are expected unless additional rainfall falls. This situation will be closely monitored whilst storms remain in the vicinity.

North Pine peaked at 41.11 mAHD at 14:00 on Tuesday 11 January 2011 with a peak release of 2,800 m3/s. The flood event volume is estimated to be around 200,000 ML.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local councils. Councils have been informed of the current release strategy.

The remaining bridges below Wivenhoe Dam will progressively come out of water over the next few days.

Regards

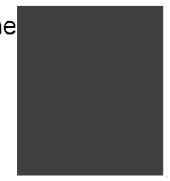
Rob Ayre

Duty Engineer

Flood Operations Centre

Phone

Fax:



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Please direct all enquiries to the message author.

FOC Situation Report at 06:00 on Wednesday 19 January 2011

From: [redacted]
To:
Cc:
Date: Wed, 19 Jan 2011 05:27:42 +1000

Rainfall

Severe thunderstorms passed over the Wivenhoe, Somerset and North Pine dam catchments yesterday afternoon and evening. Falls of 20mm to 30mm where recorded at isolated locations.

North Pine

A decision was made at 1900 yesterday to drain the dam down to 39.40m AHD overnight to cater for the inflow resulting from yesterday's storms and ensure that Youngs Crossing remains open during the day

today. All gates were closed at 0500 today and a fish recovery operation also commenced at this time. Youngs Crossing will be reopened by the MBRC at around 0700. The dam level will rise slowly during the day and further releases may be required again tonight with more rainfall forecast. The current lake level is 39.42m AHD.

Somerset Dam

All regulators were closed at 2000 yesterday. The dam level is currently 98.95m AHD and rising slowly. Further regulator releases will take place today and again over the next few days to maintain the dam at the full supply level. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011; all sluice gates were closed on Monday 17 January 2011.

Wivenhoe Dam

The Lowood temporary pump station was relocated at 2100 yesterday. This relocation removed the need to continue high flow releases from the dam to ensure treated water supplies to Lowood are maintained. Discussions with BCC last night also concluded that tidal variations are primarily back to normal patterns and having a greater impact on the foundation conditions of Coronation Drive than the tapering of releases from the dam. Accordingly the radial gate close down sequence recommenced at 21:45 last night and all gates will be closed by 1600 today. The dam level when the last gate is closed will be around 66.90m AHD and a fish recovery operation will continue through most of the day during the close down sequence. Releases will continue through the regulator cone valve and possibly the Mini-Hydro (depending on when it can be re-started) to account for ongoing base-flow once all radial gates are closed.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s. The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres. It should be noted that the Seqwater water level gauge currently being reported on the BoM website is currently slightly under reading by about 50mm.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments and is maintaining close contact with warning agencies and local councils. Councils have been informed of the current release strategy. A summary of the bridge status along the Brisbane River between Wivenhoe Dam and Moggill is as follows, with the exact timing of water coming clear of bridges depending on how the radial gate close down sequence progresses during the day:

- * Water is clear of Fernvale Bridge and Mt Crosby Weir Bridge.
- * Water should be clear of Burtons Bridge, Kholo Bridge and Savages Crossing tonight.
- * Water should be clear of Colleges Crossing tomorrow.
- * It is not yet certain when water will be clear of Twin Bridges as this will depend on base flow draining requirements and a decision will be made on this later today. The earliest that Twin Bridges would be clear of water is late this afternoon.

John Tibaldi

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Please direct all enquiries to the message author.

Situation Report 1345 Wednesday 2011

From: [redacted]
To:

Date: Wed, 19 Jan 2011 13:45:16 +1000

Rainfall

No significant rainfall has been recorded in Wivenhoe, Somerset and North Pine dam catchments since 0900 Thursday. The forecast rainfall indicates that falls between 15 to 25mm with isolated heavier falls to 50mm are expected in the next 24 hours.

North Pine

A decision was made at 1900 Wednesday to drain the dam down to 39.40m AHD overnight to cater for the inflow resulting from Wednesday's storms and ensure that Youngs Crossing remains open during the day Thursday All gates were closed at 0500 Thursday and a fish recovery operation also commenced at

this time. Youngs Crossing was expected to be reopened by the MBRC at around 0700. The dam level will rise slowly during the day and further releases may be required again tonight with more rainfall forecast. The lake level was 39.43m AHD at 0700.

Somerset Dam

All regulators were closed at 2000 Wednesday. The dam level was 99.00 m AHD at 0700 Thursday and rising slowly. Further regulator releases may take place over the next few days to maintain the dam at the full supply level. Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011; all sluice gates were closed on Monday 17 January 2011.

Wivenhoe Dam

All gates were closed at Wivenhoe at 1200 Thursday, with the dam level at 66.89m AHD at 1300. Following fish recovery and inspections, minor ongoing releases will be made for through the centre gate to account for ongoing small inflows. It is intended to drain down to 95%, approximately 66.5 m AHD.

Wivenhoe Dam peaked at 74.97 mAHD at 19:00 on Tuesday 11 January 2011 with a corresponding discharge of 7,450 m3/s. The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be in excess of 2.6 million megalitres.

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The Flood Operations Centre is now closed and control of the dams has reverted to normal Seqwater operations. However, the FOC will continue to monitor rainfalls and water levels throughout the Brisbane and Pine River catchments.

Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Recall: Situation Report 1345 Wednesday 2011

From: [redacted]
To:

Date: Wed, 19 Jan 2011 13:50:52 +1000

Duty Engineer would like to recall the message, "Situation Report 1345 Wednesday 2011".

Situation Report 1400 Wednesday 19 January 2011

From: [redacted]
To:

Date: Wed, 19 Jan 2011 13:57:01 +1000

Rainfall

No significant rainfall has been recorded in Wivenhoe, Somerset and North Pine dam catchments since 0900 Wednesday. The forecast rainfall indicates that falls between 15 to 25mm with isolated heavier falls to 50mm are expected in the next 24 hours.

North Pine

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at this time. Youngs Crossing was expected to be reopened by the MBRC at around 0700. The dam level will rise slowly during the day and further releases may be required again tonight with more rainfall forecast. The lake level was 39.43m AHD at 0700.

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Terry Malone

Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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Floodplain Storage Attn James C

From: [redacted]
To:

Date: Wed, 19 Jan 2011 15:56:55 +1000

James

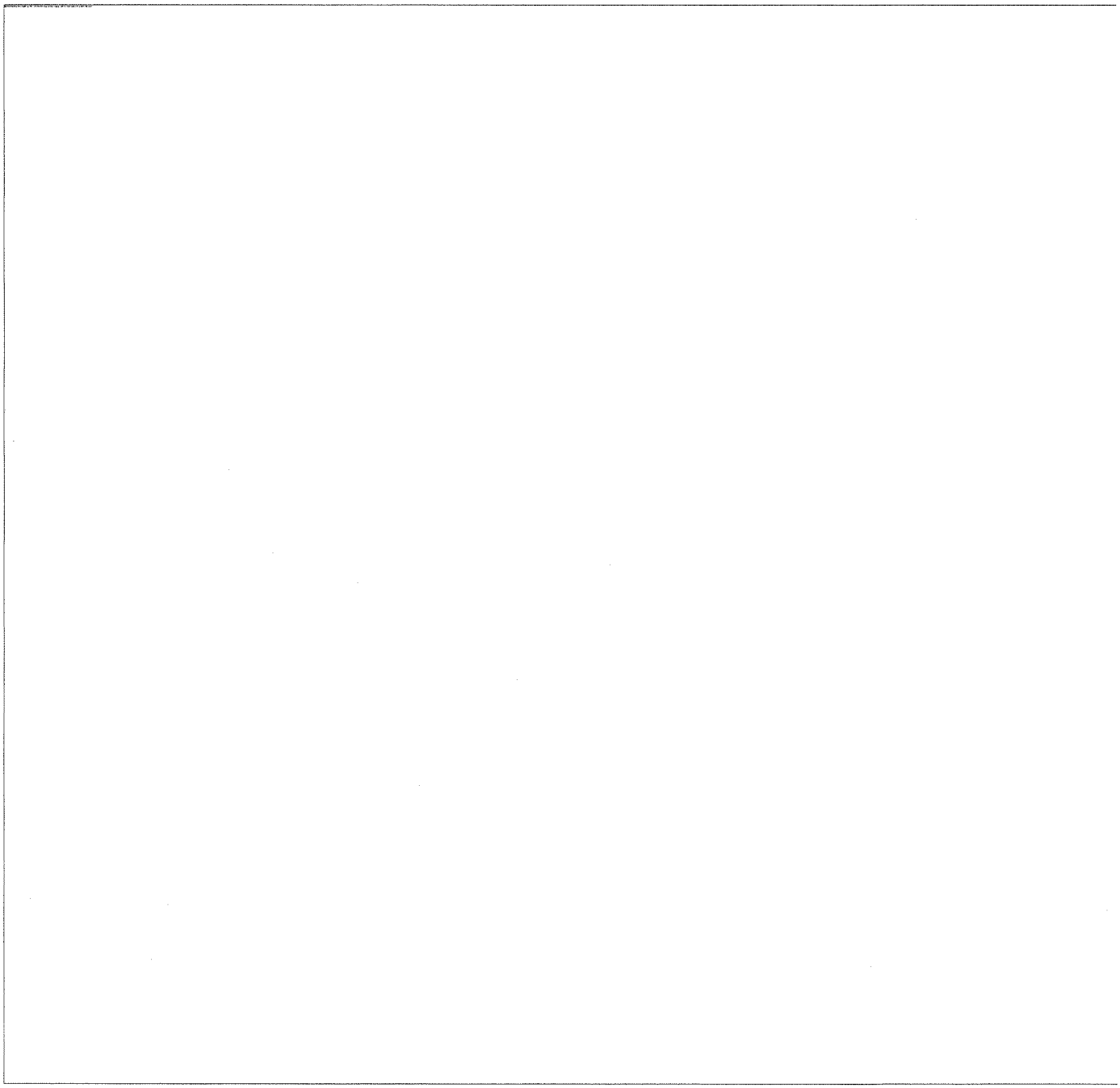
As discussed with Don, I'm interested in getting a handle on the relative size of the flood plain storages indicated on your image below.

1. 1. Junction of Lockyer and Brisbane upstream of Savages Crossing
2. 2. Between Savages Crossing and Mt Crosby
3. 3. Junction of Bremer and Warrill around Amberley
4. 4. Immediately upstream of Ipswich
5. 5. Downstream of Bremer and Brisbane, and
6. 6. Junction of Brisbane and Oxley Ck around Rocklea

This flood was higher than 1974 at Savages Crossing but about 1 metre lower at Mt Crosby and this difference seems to be similar all the way down to the City gauge.

Regards

Terry



Duty Engineer

Flood Operations Centre

Phone [redacted]

Fax:

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