

In the matter of the *Commissions of Inquiry Act 1950*



Commissions of Inquiry Order (No.1) 2011

Queensland Floods Commission of Inquiry

Witness Statement of Peter Baddiley

Annexure "PB-5"

  From	Subject	Received	S...	
Date: Older				
 Duty Engi...	Situation Report 0800 06/01/2011	Thu 6/01/2011 08:14	17 ...	
 Duty Engi...	Situation Report 1500 06/02/2011	Thu 6/01/2011 14:54	20 ...	
 Duty Engi...	Situation Report 1800 06/01/2011	Thu 6/01/2011 17:33	20 ...	
  Duty Engi...	North Pine Dam Directive # 2 at 20:15 on Thursday 6 January 2011	Thu 6/01/2011 20:17	46 ...	
 Duty Engi...	FOC Situation Report at 06:00 on Friday 7 January 2011	Fri 7/01/2011 06:06	21 ...	
  Duty Engi...	Operating Strategy over the next week	Fri 7/01/2011 08:05	16 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Fri 7/01/2011 10:23	11...	
 Duty Engi...	Impact of Wivenhoe Releases on water levels in the Lower Brisbane River	Fri 7/01/2011 15:09	9 KB	
 Duty Engi...	Situation Report 1800 Friday 07/01/2011	Fri 7/01/2011 17:56	21 ...	
 Duty Engi...	SitRep Clarification	Fri 7/01/2011 18:59	5 KB	
 Duty Engi...	Situation Report 0600 Saturday 08/01/2011	Sat 8/01/2011 06:31	22 ...	
  Duty Engi...	Wivenhoe Dam Directive # 4 at 08:15 on Staurday 8 January 2011	Sat 8/01/2011 08:07	55 ...	
  Duty Engi...	North Pine Dam Directive # 5 at 10:15 on Saturday 8 January 2011	Sat 8/01/2011 10:18	46 ...	
  Duty Engi...	Somerset Dam Directive # 3 at 11:30 on Saturday 8 January 2011	Sat 8/01/2011 11:22	48 ...	
 Duty Engi...	FOC Status Report at 12:00 on Saturday 8 January 2011	Sat 8/01/2011 12:15	22 ...	
 Duty Engi...	Projected Releases - Wivenhoe Dam at 1500 on Saturday 8 January 2011	Sat 8/01/2011 14:57	13...	
 Duty Engi...	FOC Situation Report at 18:00 on Saturday 8 January 2011	Sat 8/01/2011 17:53	24 ...	
  Duty Engi...	Wivenhoe Dam Directive #5	Sun 9/01/2011 01:21	48 ...	
  Duty Engi...	Wivenhoe Dam Directive #6	Sun 9/01/2011 04:41	49 ...	
 Duty Engi...	FOC Situation Report at 06:00 on Sunday 9 January 2011	Sun 9/01/2011 06:15	21 ...	
 Duty Engi...	Wivenhoe Actual and Projected Releases	Sun 9/01/2011 08:43	11...	
 Duty Engi...	Situation Report 1700 Sunday 9/1/2011	Sun 9/01/2011 17:50	22 ...	
 Duty Engi...	Wivenhoe Actual and Projected Releases	Sun 9/01/2011 17:57	11...	
  Duty Engi...	Situation Report 2100 9/01/2011	Sun 9/01/2011 21:03	20 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Sun 9/01/2011 21:07	11...	
 Duty Engi...	FOC Situation Report at 01:00 hrs on Monday 10 January 2011	Mon 10/01/2011 01:13	22 ...	
 Duty Engi...	Wivenhoe Dam Actual and Projected Releases - 0200 on Monday 10 January 2...	Mon 10/01/2011 01:56	11...	
  Duty Engi...	Wivenhoe Dam Directive # 8 at 02:00 on Monday 10 January 2011	Mon 10/01/2011 02:06	52 ...	
 Duty Engi...	FOC Situation Report at 06:00 on Monday 10 January 2011	Mon 10/01/2011 06:29	23 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Mon 10/01/2011 06:32	11...	
 Duty Engi...	Actual and projected Wivenhoe releases	Mon 10/01/2011 09:56	11...	
 Duty Engi...	FOC Situation Report at 12:00 on Monday 10 January 2011	Mon 10/01/2011 12:15	23 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Mon 10/01/2011 14:37	18...	
 Duty Engi...	RE: FOC Situation Report at 12:00 on Monday 10 January 2011	Mon 10/01/2011 14:57	21 ...	
 Duty Engi...	FW: Perserverance Event stage 3	Mon 10/01/2011 15:21	3 KB	
 Duty Engi...	RE: URGENT ATTENTION: Helidon to Gatton FLASH FLOOD [SEC=UNCLASSIF...	Mon 10/01/2011 17:39	91 ...	
 Duty Engi...	FOC Situation Report at 18:00 on Monday 10 January 2011	Mon 10/01/2011 18:42	22 ...	
 Duty Engi...	FW: Lockyer Ck	Mon 10/01/2011 22:37	13...	
 Duty Engi...	FOC Situation Report at 00:00 Tuesday 11 Janaury 2011	Mon 10/01/2011 23:55	22 ...	
  Duty Engi...	Somerset Dam Directive # 6 at 04:30 on Tuesday 11 January 2011	Tue 11/01/2011 04:40	48 ...	
 Duty Engi...	FOC Situation Report at 06:00 on Tuesday 11 January 2011	Tue 11/01/2011 06:12	22 ...	
 Duty Engi...	Wivenhoe Dam Projected Releases at 06:00 on Tuesday 11 January 2011	Tue 11/01/2011 06:14	11...	
  Duty Engi...	Actual and Projected Wivenhoe Releases	Tue 11/01/2011 08:10	18...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Tue 11/01/2011 11:38	18...	
 Duty Engi...	SitRep 1200 11/1/2011	Tue 11/01/2011 12:10	17 ...	
 Duty Engi...	Request for Scenario	Tue 11/01/2011 13:27	4 KB	
 Duty Engi...	Actual and Projected Wivenhoe Releases - Note that is our worst case for the ...	Tue 11/01/2011 13:31	18...	
  Duty Engi...	Wivenhoe Dam Update	Tue 11/01/2011 14:18	14 ...	
 Duty Engi...	Wivenhoe ALERT level	Tue 11/01/2011 14:26	7 KB	
 Duty Engi...	Projected Wivenhoe Outflows	Tue 11/01/2011 15:42	5 KB	
 Duty Engi...	Wivenhoe Actual and Projected Releases	Tue 11/01/2011 16:51	11...	
 Duty Engi...	Situation Report 1800 12 Janaury 2011	Tue 11/01/2011 17:59	17 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Tue 11/01/2011 18:06	11...	

  From	Subject	Received	S...	
 Duty Engi...	Brisbane R Estimates	Tue 11/01/2011 20:14	7 KB	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Tue 11/01/2011 21:10	11...	
 Duty Engi...	Actual and Projected Wivenhoe Releases (Updated)	Tue 11/01/2011 22:01	11...	
  Duty Engi...	Wivenhoe Dam Directive #29 at 01:15 on Tuesdya 12 January 2011	Wed 12/01/2011 01:23	49 ...	
  Duty Engi...	Wivenhoe Directive #30	Wed 12/01/2011 03:37	48 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases (Updated)	Wed 12/01/2011 03:48	13...	
 Duty Engi...	Situation Report 0600 Wed 12/01/2011	Wed 12/01/2011 05:48	19 ...	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Wed 12/01/2011 05:53	11...	
 Duty Engi...	FW: River Levels at Mt Crosby Weir	Wed 12/01/2011 05:57	15 ...	
 Duty Engi...	Flow Gauging at Jindalee	Wed 12/01/2011 07:35	4 KB	
 Duty Engi...	RE: Situation Report 0800 Wed 12/01/2011	Wed 12/01/2011 07:57	20 ...	
 Duty Engi...	Flow Gauging at Jindalee	Wed 12/01/2011 07:59	4 KB	
 Duty Engi...	For your consideration	Wed 12/01/2011 09:39	9 KB	
 Duty Engi...	Situation Report 1500 Wed 12/01/2011	Wed 12/01/2011 15:17	21 ...	
 Duty Engi...	Situation Report 1800 Wed 12/01/2011	Wed 12/01/2011 17:57	17 ...	
 Duty Engi...	Wivenhoe Dam Projected Releases - 1800 at Wednesday 12 January 2011	Wed 12/01/2011 18:07	11...	
 Duty Engi...	Wivenhoe Dam Projected Releases - 20:00 at Wednesday 12 January 2011	Wed 12/01/2011 20:14	15...	
 Duty Engi...	FOC Situation Report 0600 13 January 2011	Thu 13/01/2011 05:44	21 ...	
 Duty Engi...	Gauge Height Measurement	Thu 13/01/2011 06:08	4 KB	
 Duty Engi...	Brisbane City Staff Gauge Reading	Thu 13/01/2011 08:00	3 KB	
 Duty Engi...	Comms Restored	Thu 13/01/2011 11:13	7 KB	
 Duty Engi...	Actual and Projected Wivenhoe Releases	Thu 13/01/2011 14:31	13...	
 Duty Engi...	Situation Report 1830 13 January 2011	Thu 13/01/2011 18:42	17 ...	
  Duty Engi...	Wivenhoe Dam Directive # 38 for Wivenhoe Dam at 20:15 on Thursday 13 Jan...	Thu 13/01/2011 20:21	50 ...	
  Duty Engi...	Somerset Dam Directive # 11 at 20:30 on 13 January 2011	Thu 13/01/2011 20:31	47 ...	
  Duty Engi...	North Pine Dam Directive # 30 at 02:00 on Friday 14 January 2011	Fri 14/01/2011 02:04	48 ...	
 Duty Engi...	FOC Situation Report at 06:00 on Friday 14 Janaury 2011	Fri 14/01/2011 05:35	22 ...	
 Duty Engi...	FOC Situation Report at 06:00 on Friday 14 Janaury 2011	Fri 14/01/2011 05:44	22 ...	
 Duty Engi...	Wivenhoe Dam Directive # 39	Fri 14/01/2011 19:28	7 KB	
  Duty Engi...	Wivenhoe Dam Directive # 39	Fri 14/01/2011 20:16	48 ...	
  Duty Engi...	Wivenhoe Dam Directive #40	Sat 15/01/2011 02:06	48 ...	
 Duty Engi...	Situation Report 0630 Saturday 15 January 2011	Sat 15/01/2011 06:35	21 ...	
  Duty Engi...	Brisbane R model	Sat 15/01/2011 10:01	3 KB	
 Duty Engi...	Situation Report 0600 Sunday 16 January 2011	Sun 16/01/2011 06:08	22 ...	
  Duty Engi...	Message from the Senior Flood Operations Engineer	Sun 16/01/2011 06:50	10 ...	
  Duty Engi...	Wivenhoe Dam Directive # 45 at 08:30 on Sunday 16 January 2011	Sun 16/01/2011 08:36	49 ...	
  Duty Engi...	Wivenhoe Dam Directive #46 at 12:15 on Sunday 16 January 2011	Sun 16/01/2011 12:15	49 ...	
  Duty Engi...	Wivenhoe Dam Directive # 47 at 15:15 on Sunday 16 January 2011	Sun 16/01/2011 15:17	49 ...	
  Duty Engi...	Wivenhoe Dam Directive # 48 at 18:45 on Sunday 16 January 2011	Sun 16/01/2011 18:44	49 ...	
 Duty Engi...	Situation Report 1700 Monday 16 January 2011	Mon 17/01/2011 16:55	22 ...	
 Duty Engi...	Situation Report 0615 Tuesday 18 Janaury 2011	Tue 18/01/2011 06:17	22 ...	
  Duty Engi...	Wivenhoe Dam Directive # 55 at 8:30 on Tuesday 18 January 2011	Tue 18/01/2011 08:20	50 ...	
  Duty Engi...	Wivenhoe Directive #56 at 12:15 on Tuesday 18 January 2011	Tue 18/01/2011 12:07	50 ...	
 Duty Engi...	Actual and predicted Release - Wivenhoe Dam at 13:00 on Tuesday 18 Januar...	Tue 18/01/2011 13:29	14...	
 Duty Engi...	Wivenhoe Dam Directive #57 at 15:15 on Tuesday 18 January 2011	Tue 18/01/2011 15:03	7 KB	
 Duty Engi...	FOC Situation Report at 18:00 on Tuesday 18 January 2011	Tue 18/01/2011 17:40	22 ...	
  Duty Engi...	Wivenhoe Dam Directive #58	Tue 18/01/2011 20:42	48 ...	
  Duty Engi...	Wivenhoe Dam Directive #59	Tue 18/01/2011 21:38	49 ...	
  Duty Engi...	Wivenhoe Dam Directive #60	Tue 18/01/2011 22:41	51 ...	
  Duty Engi...	FOC Situation Report at 06:00 on Wednesday 19 January 2011	Wed 19/01/2011 05:28	24 ...	
  Duty Engi...	Wivenhoe Dam Directive #61	Wed 19/01/2011 05:29	50 ...	
 Duty Engi...	Situation Report 1345 Wednesday 2011	Wed 19/01/2011 13:45	23 ...	
 Duty Engi...	Recall: Situation Report 1345 Wednesday 2011	Wed 19/01/2011 13:51	15 ...	
 Duty Engi...	Situation Report 1400 Wednesday 19 January 2011	Wed 19/01/2011 13:57	23 ...	

From: Duty Engineer [REDACTED]
Sent: Thursday, 6 January 2011 08:14
To: [REDACTED] Pau I Bird; [REDACTED]
 [REDACTED] Rohan Thorogood; [REDACTED]
 [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan;
 [REDACTED]
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Subject: Situation Report 0800 06/01/2011

ainfall

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 Harion 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.

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.

Terry Malone
 Duty Engineer
 Flood Operations Centre

Phone [REDACTED]

31/03/2011

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Thursday, 6 January 2011 14:54
To: [REDACTED] Paul Bird;
[REDACTED] Rohan Thorogood;
[REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John
[REDACTED] Glenn Patterson;
[REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: 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 inflows. Further regulator/slucio 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 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 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

31/03/2011

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Thursday, 6 January 2011 17:33
To: [REDACTED] Paul Bird;
[REDACTED] Rohan Thorogood; Deb Chandler; Mailbox; Tony
Trace; C s; Ken Morris; Robert McGlinn; Santina
Pennisi; [REDACTED] arier;
John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED]
[REDACTED] Glenn Patterson;
[REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: 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 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 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 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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Thursday, 6 January 2011 20:17
To: [REDACTED] nstan; Rob Gorian;
[REDACTED]
Subject: North Pine Dam Directive # 2 at 20:15 on Thursday 6 January 2011
Attachments: OPS_Directive_NorthPine #2.doc

Please find attached Directive # 2 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Friday, 7 January 2011 06:07
To: David Robe [REDACTED]; Bird; [REDACTED] Rohan
 Thorogood; [REDACTED] Stephens; David
 [REDACTED]
 [REDACTED] Glenn Patte [REDACTED] Murray Dunstan; Rob Gorian;
 [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon;
 Matthew O'Reilly
Cc: Chris Lavin; Craig Logan; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi;
 Tony Trace; Deb Chandler; Mailbox
Subject: 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 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: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Friday, 7 January 2011 08:05
To: David Roberts; [REDACTED]
 Rohan Thorogood; [REDACTED] rk
 [REDACTED]
 [REDACTED] Glenn Patter
 Murray Dunstan; Rob Gorian; Doug Grigg; [REDACTED]
 Graham Francis; Jayam Tenn
Subject: Operating Strategy over the next week
Importance: High

Advice from BoM indicates that SE Qld can expect some high rainfall totals over the next 5 days.

Friday: Rain at times 15-50mm with higher falls along the coast
 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 dam catchments, significant volumes of inflows to our dams will be generated.

On this basis, the operating strategy for Somerset, Wivenhoe and North Pine needs to consider the current state of the storages and the project inflows.

North Pine

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 5 days, it is recommended to keep gates open for the period, rather than opening and closing at various times with short notice. It will not be practical or may not be possible to adopt the usual strategy of opening and closing overnight to minimise the impact on Youngs Crossing.

Somerset

Somerset Dam currently has a regulator open 50%. At this stage, it is expected to open 1 or 2 sluices on Saturday. However, this 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.

Wivenhoe

As outlined in this morning's SitRep, it is intended to ramp up the release from Wivenhoe to about 1,200m³/s later today. However, given the high likelihood of significant inflows in the next week, this may be increased to 1,500m³/s in order to drain the current temporarily stored flood waters as soon as possible.

This will mean that all of the crossing downstream of Wivenhoe with the exception of Fernvale and Mt Crosby Weir Bridge will be adversely impacted.

Leslie Harrison

Given its proximity to the coast Leslie Harrison is likely to be most impacted by the forecast rain over the next 5 days.

It is likely that the releases from North Pine and Leslie Harrison will continue until the middle of next week and from Wivenhoe until next Friday. Staffing for the Flood Operations Centre will be arranged accordingly. Co-originators should start to plan for prolonged operations at dams.

Terry Malone
 Duty Engineer
 Flood Operations Centre

Phone: [REDACTED]

31/03/2011

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Friday, 7 January 2011 10:23
To: [REDACTED] Chris Lavin; Craig Logan; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
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
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02/01/2011 23:00:00	50	Actual
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04/01/2011 02:00:00	50	Actual

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06/01/2011 07:00:00	50	Actual

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31/03/2011

Duty Engineer
Flood Operations Centre

Phone

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Friday, 7 January 2011 15:09
To: [REDACTED] Chris Lavin; Craig Logan; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED]
Cc: [REDACTED]
Subject: Impact of Wivenhoe Releases on water levels in the Lower Brisbane River

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 than 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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From: Duty Engineer [REDACTED]
Sent: Friday, 7 January 2011 17:57
To: David Robe [REDACTED]; Bird [REDACTED] Rohan
 Thorogood; [REDACTED] Al Navaruk; Bill Stephens; David
 [REDACTED]
 [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian;
 [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon;
 Matthew O'Reilly; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell;
 James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: 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 kept 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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Friday, 7 January 2011 18:59
To: [REDACTED]
Cc: [REDACTED]
Subject: SitRep Clarification

BCC pointed out that they have not done any analysis and do not necessarily agree with the 50 to 100mm but have accepted the BoM and Seqwater estimate.

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 06:32
To: [REDACTED] berts; [REDACTED] Rohan Thorogood; [REDACTED] Al
 [REDACTED] an Blerk; Mark Tan; Nev Ablitt;
 [REDACTED] Glenn [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don
 Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
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
 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 kept 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 to be 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

31/03/2011

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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 08:08
To: [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam
[REDACTED]
Subject: Wivenhoe Dam Directive # 4 at 08:15 on Saturday 8 January 2011
Attachments: OPS_Directive_Wivenhoe #4.doc

Please find attached a copy of Wivenhoe Dam Directive # 4 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 10:18
To: [REDACTED] nstan; Rob Gorian;
[REDACTED]
Subject: North Pine Dam Directive # 5 at 10:15 on Saturday 8 January 2011
Attachments: OPS_Directive_NorthPine #5.doc

Please find attached Directive # 5 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 11:23
To: [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam
Tennakoon; Matthew O'Reilly; [REDACTED]
[REDACTED]

Subject: Somerset Dam Directive # 3 at 11:30 on Saturday 8 January 2011

Attachments: OPS_Directive_Somerset #3.doc

Please find attached Directive # 3 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 12:16
To: David Roberts; [REDACTED] Paul Bird; [REDACTED] Rohan Thorogood; [REDACTED] Al Navaruk; Bill Stephens; David [REDACTED]
 [REDACTED]; Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santana Pennisi; Tony Trace
Subject: FOC Status Report at 12:00 on Saturday 8 January 2011

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: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 14:58
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Projected Releases - Wivenhoe Dam at 1500 on Saturday 8 January 2011

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
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

31/03/2011

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	167	Actual
07/01/2011 18:00:00	217	Actual
07/01/2011 19:00:00	266	Actual
07/01/2011 20:00:00	315	Actual
07/01/2011 21:00:00	362	Actual
07/01/2011 22:00:00	415	Actual
07/01/2011 23:00:00	467	Actual
08/01/2011 00:00:00	520	Actual
08/01/2011 01:00:00	573	Actual
08/01/2011 02:00:00	626	Actual
08/01/2011 03:00:00	679	Actual
08/01/2011 04:00:00	732	Actual
08/01/2011 05:00:00	785	Actual
08/01/2011 06:00:00	838	Actual
08/01/2011 07:00:00	892	Actual
08/01/2011 08:00:00	940	Actual
08/01/2011 09:00:00	992	Actual
08/01/2011 10:00:00	1044	Actual
08/01/2011 11:00:00	1097	Actual
08/01/2011 12:00:00	1150	Actual

08/01/2011 13:00:00	1201	Actual
08/01/2011 14:00:00	1252	Actual
08/01/2011 15:00:00	1253	Projected
08/01/2011 16:00:00	1253	Projected
08/01/2011 17:00:00	1254	Projected
08/01/2011 18:00:00	1254	Projected
08/01/2011 19:00:00	1254	Projected
08/01/2011 20:00:00	1254	Projected
08/01/2011 21:00:00	1254	Projected
08/01/2011 22:00:00	1254	Projected
08/01/2011 23:00:00	1300	Projected
09/01/2011 00:00:00	1299	Projected
09/01/2011 01:00:00	1299	Projected
09/01/2011 02:00:00	1298	Projected
09/01/2011 03:00:00	1298	Projected
09/01/2011 04:00:00	1349	Projected
09/01/2011 05:00:00	1348	Projected
09/01/2011 06:00:00	1347	Projected
09/01/2011 07:00:00	1346	Projected
09/01/2011 08:00:00	1345	Projected
09/01/2011 09:00:00	1344	Projected
09/01/2011 10:00:00	1343	Projected
09/01/2011 11:00:00	1393	Projected
09/01/2011 12:00:00	1392	Projected
09/01/2011 13:00:00	1391	Projected
09/01/2011 14:00:00	1390	Projected
09/01/2011 15:00:00	1388	Projected
09/01/2011 16:00:00	1387	Projected
09/01/2011 17:00:00	1386	Projected
09/01/2011 18:00:00	1434	Projected
09/01/2011 19:00:00	1432	Projected
09/01/2011 20:00:00	1431	Projected
09/01/2011 21:00:00	1429	Projected
09/01/2011 22:00:00	1427	Projected
09/01/2011 23:00:00	1426	Projected
10/01/2011 00:00:00	1424	Projected
10/01/2011 01:00:00	1472	Projected
10/01/2011 02:00:00	1470	Projected
10/01/2011 03:00:00	1468	Projected
10/01/2011 04:00:00	1466	Projected
10/01/2011 05:00:00	1464	Projected
10/01/2011 06:00:00	1462	Projected
10/01/2011 07:00:00	1460	Projected
10/01/2011 08:00:00	1458	Projected
10/01/2011 09:00:00	1456	Projected
10/01/2011 10:00:00	1454	Projected
10/01/2011 11:00:00	1452	Projected
10/01/2011 12:00:00	1450	Projected
10/01/2011 13:00:00	1448	Projected
10/01/2011 14:00:00	1445	Projected
10/01/2011 15:00:00	1442	Projected
10/01/2011 16:00:00	1440	Projected
10/01/2011 17:00:00	1389	Projected

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Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Saturday, 8 January 2011 17:53
To: [REDACTED] Rohan Thorogood [REDACTED] Al
 [REDACTED] tt;
 [REDACTED] Glenn Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Francis;
 Jayam Tennakoon; Matthew O'Reilly
Cc: Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: FOC Situation Report at 18:00 on Saturday 8 January 2011

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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 01:21
To: [REDACTED] Graham Francis; Jayam
Tennakoon; Matthew O'Reilly; [REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive #5
Attachments: OPS_Directive_Wivenhoe #5.doc

Please find attached a copy of Wivenhoe Dam Directive # 5.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone: [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 04:41
To: [REDACTED] D [REDACTED] is; Jayam
[REDACTED]
Subject: Wivenhoe Dam Directive #6
Attachments: OPS_Directive_Wivenhoe #6.doc

Please find attached a copy of Wivenhoe Dam Directive # 6.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 06:15
To: [REDACTED] erts; [REDACTED] Paul Bird; Peter Allen; [REDACTED] Rohan Thorogood; [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glen [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: 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 weather 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 02/01/2011 approximately 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 1,600m³/s in the mid-Brisbane River. The current release rate from Wivenhoe Dam is 116,000ML/day. Since the commencement of the event on 02/01/2011 approximately 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

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From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 08:44
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Actual and Projected Releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 9/01/2011 8:42

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02/01/2011 10:00:00	50	Actual
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Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 17:51
To: [REDACTED] Paul Bird; Peter Allen;
[REDACTED] Rohan Thorogood; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan;
[REDACTED] ris; Robert McGlinn; Santina Pennisi;
[REDACTED] r; John
[REDACTED] Glenn Patterson;
[REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Peter Allen
Subject: 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 weather 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 02/01/2011 approximately 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 1,600m³/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: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 17:57
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Actual and Projected Releases

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
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07/01/2011 23:00:00	468	Actual
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31/03/2011

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31/03/2011

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31/03/2011

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17/01/2011 06:00:00	13	Projected

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17/01/2011 07:00:00 13 Projected
17/01/2011 08:00:00 13 Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 21:04
To: David Roberts; [REDACTED]
 [REDACTED] Rohan Thorogood; [REDACTED] u van Blerk; Mark Tan; Nev Ablitt;
 [REDACTED] Glenn Patterson; [REDACTED]
 Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED]
 Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santana Pennisi
Subject: Situation Report 2100 9/01/2011
Importance: High

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 02/01/2011 approximately 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 in 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:

Fax:

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From: Duty Engineer [REDACTED]
Sent: Sunday, 9 January 2011 21:08
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 9/01/2011 20:52

02/01/2011 09:00:00	50	Actual
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02/01/2011 13:00:00	50	Actual
02/01/2011 14:00:00	50	Actual
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04/01/2011 03:00:00	50	Actual

31/03/2011

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08/01/2011 16:00:00	1262	Actual
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09/01/2011 03:00:00	1308	Actual
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09/01/2011 23:00:00	1447	Projected
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10/01/2011 10:00:00	1572	Projected
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10/01/2011 12:00:00	1646	Projected
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31/03/2011

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13/01/2011 00:00:00	2552	Projected
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14/01/2011 07:00:00	2352	Projected
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15/01/2011 08:00:00	2079	Projected
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15/01/2011 23:00:00	1967	Projected
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16/01/2011 03:00:00	1936	Projected
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16/01/2011 08:00:00	1896	Projected
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16/01/2011 18:00:00	1814	Projected
16/01/2011 19:00:00	1805	Projected
16/01/2011 20:00:00	1797	Projected
16/01/2011 21:00:00	1788	Projected
16/01/2011 22:00:00	1780	Projected
16/01/2011 23:00:00	1771	Projected
17/01/2011 00:00:00	1762	Projected
17/01/2011 01:00:00	1754	Projected
17/01/2011 02:00:00	1745	Projected
17/01/2011 03:00:00	1736	Projected
17/01/2011 04:00:00	1727	Projected
17/01/2011 05:00:00	1719	Projected
17/01/2011 06:00:00	1710	Projected
17/01/2011 07:00:00	1701	Projected
17/01/2011 08:00:00	1692	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 01:14
To: David Roberts; [REDACTED]
 [REDACTED] Rohan Thorogood; [REDACTED] Al
 [REDACTED] an Blerk; Mark Tan; Nev Ablitt;
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 [REDACTED] rigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; M
Cc: Andy Bickerton; Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James
 Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: 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 afternoon which will adversely impact areas around Kilcoy.

Since the commencement of the event on 02/01/2011 approximately 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: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 01:56
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Dam Actual and Projected Releases - 0200 on Monday 10 January 2011

Wivenhoe Dam Actual and Projected
Releases

		10/01/2011
Source: Seqwater FOC		1:46
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
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01:00:00	50	Actual
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12:00:00	50	Actual

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14:00:00	50	Actual
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15:00:00	50	Actual
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23:00:00	50	Actual
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07/01/2011		
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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	219	Actual
07/01/2011		
19:00:00	269	Actual
07/01/2011		
20:00:00	318	Actual
07/01/2011		
21:00:00	366	Actual
07/01/2011		
22:00:00	419	Actual

07/01/2011

31/03/2011

23:00:00	472	Actual
08/01/2011		
00:00:00	525	Actual
08/01/2011		
01:00:00	579	Actual
08/01/2011		
02:00:00	632	Actual
08/01/2011		
03:00:00	686	Actual
08/01/2011		
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23:00:00	1463	Actual
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17:00:00	2578	Projected
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18:00:00	2642	Projected
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12/01/2011		
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03:00:00	2333	Projected
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15/01/2011		
09:00:00	2289	Projected
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16/01/2011		
16:00:00	789	Projected
16/01/2011		
17:00:00	738	Projected
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16/01/2011		
19:00:00	638	Projected

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31/03/2011

20:00:00	588	Projected
16/01/2011		
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16/01/2011		
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06:00:00	112	Projected
17/01/2011		
07:00:00	62	Projected
17/01/2011		
08:00:00	13	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 02:07
To: [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive # 8 at 02:00 on Monday 10 January 2011
Attachments: OPS_Directive_Wivenhoe #8.doc

Please find attached Directive # 8 for your action.

Regards

John Ruffini

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 06:30
To: John Ruffini (Home); David Roberts; [REDACTED] Allen;
 [REDACTED] Rohan Thorogood; [REDACTED] Al
 Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt;
 [REDACTED]
 [REDACTED] Glen [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell;
 James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: 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 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 m AHD on Monday afternoon. Areas around Kilcoy will continue to be adversely affected.

Since the commencement of the event on 02/01/2011 approximately 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 31/03/2011

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

Fax:

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 06:32
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 10/01/2011 6:05

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
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02/01/2011 14:00:00	50	Actual
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06/01/2011 08:00:00	50	Actual

31/03/2011

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31/03/2011

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31/03/2011

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31/03/2011

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31/03/2011

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17/01/2011 06:00:00	254	Projected
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17/01/2011 08:00:00	160	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 09:56
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and projected Wivenhoe releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 10/01/2011 9:07

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31/03/2011

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09/01/2011 19:00:00	1422	Actual
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09/01/2011 21:00:00	1432	Actual
09/01/2011 22:00:00	1439	Actual
09/01/2011 23:00:00	1447	Actual
10/01/2011 00:00:00	1457	Actual
10/01/2011 01:00:00	1468	Actual
10/01/2011 02:00:00	1534	Actual
10/01/2011 03:00:00	1602	Actual
10/01/2011 04:00:00	1670	Actual
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10/01/2011 07:00:00	1876	Actual
10/01/2011 08:00:00	1946	Actual
10/01/2011 09:00:00	2016	Actual
10/01/2011 10:00:00	2029	Projected
10/01/2011 11:00:00	2042	Projected
10/01/2011 12:00:00	2053	Projected
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31/03/2011

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31/03/2011

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31/03/2011

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15/01/2011 21:00:00	1549	Projected
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16/01/2011 10:00:00	1037	Projected
16/01/2011 11:00:00	986	Projected
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16/01/2011 19:00:00	683	Projected
16/01/2011 20:00:00	633	Projected
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17/01/2011 06:00:00	253	Projected
17/01/2011 07:00:00	206	Projected
17/01/2011 08:00:00	159	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 12:16
To: [REDACTED] d Roberts; [REDACTED] Paul Bird; Peter Allen; [REDACTED] Rohan Thorogood; [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glen [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED]
Subject: FOC Situation Report at 12:00 on Monday 10 January 2011

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 02/01/2011 approximately 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: 

Fax: 

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Jeff Perkins

From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 14:38
To: [REDACTED] Chris Lavin; Craig Logan; Do Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

n Carroll; Evan Caswell; James Charalambous; Ken

Actual and Projected Wivenhoe Releases

Source: Seqwater	10/01/2011 13:56	
02/01/2011 09:00:00	50	Actual
02/01/2011 10:00:00	50	Actual
02/01/2011 11:00:00	50	Actual
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02/01/2011 13:00:00	50	Actual
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04/01/2011 03:00:00	50	Actual

31/03/2011

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31/03/2011

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09/01/2011 20:00:00	1439	Actual
09/01/2011 21:00:00	1447	Actual
09/01/2011 22:00:00	1457	Actual
09/01/2011 23:00:00	1467	Actual
10/01/2011 00:00:00	1478	Actual
10/01/2011 01:00:00	1489	Actual
10/01/2011 02:00:00	1555	Actual
10/01/2011 03:00:00	1622	Actual
10/01/2011 04:00:00	1688	Actual
10/01/2011 05:00:00	1756	Actual
10/01/2011 06:00:00	1823	Actual
10/01/2011 07:00:00	1891	Actual
10/01/2011 08:00:00	1960	Actual
10/01/2011 09:00:00	2029	Actual
10/01/2011 10:00:00	2042	Actual
10/01/2011 11:00:00	2055	Actual
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10/01/2011 17:00:00	2125	Projected
10/01/2011 18:00:00	2191	Projected

31/03/2011

10/01/2011 19:00:00	2313	Projected
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31/03/2011

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23/01/2011 04:00:00	13	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 14:58
To: 'Duty Engineer'; John Ruffini (Home); David Roberts; [REDACTED] Paul
 [REDACTED] Rohan Thorogood; [REDACTED]
 [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan;
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 [REDACTED] Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell;
 James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED]
Subject: RE: 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 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

31/03/2011

Duty Engineer
Flood Operations Centre

Phone

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: 11 15:22
To: [REDACTED]
Subject: FW: Perserverance Event stage 3

Duty Engineer
Flood Operations Centre

Phone: [REDACTED]

Fax: [REDACTED]

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ABN75450239876 (Trading as Seqwater).

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

From: [REDACTED]
Sent: Monday, 10 January 2011 2:49 PM
To: Duty Engineer
Cc: Nguyen Khanh; Guppy Ron; Khadka Hari
Subject: FW: Perserverance Event stage 3

Terry,

FYI. I have just spoken to Kev Flanagan and he has indicated that at 2:45 pm, there was three metres over Perseverance and 0.5m over Cressbrook. He has also indicated that the rain event is easing so they don't expect a huge further rise in Cressbrook.

[REDACTED] Safety (Water Supply)
Office of the Water Supply Regulator
[REDACTED]

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

From: [REDACTED]
Sent:
To: Allen Peter
Subject: Perserverance Event stage 3

Peter

Perserverance at 2 pm reached event stage 3 with 2.35 m over spillway.

Cressbrook spilled at 1.30pm at 2pm is 0.3 m over.

[REDACTED]
Director Water Services
Toowoomba Regional Council

T: [REDACTED]
F: [REDACTED]
M: [REDACTED]
E: [REDACTED]

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Toowoomba Regional Council
PO Box 3021 Village Fair, Toowoomba Qld 4350

+-----+
Think B4U Print
1 ream of paper = 6% of a tree and 5.4kg CO2 in the atmosphere
3 sheets of A4 paper = 1 litre of water
+-----+

[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 17:39
To: Peter Baddiley
Subject: RE: URGENT ATTENTION: Helidon to Gatton FLASH FLOOD [SEC=UNCLASSIFIED]

Peter

Thanks for the advice. I suspect that it will be routed out by the time it gets to the Brisbane R and should have little impact upon current estimates and strategy for the lower Brisbane. We use the Gatton TM in preference to the ALERT station.

Terry



Duty Engineer
Flood Operations Centre

Phone [REDACTED]

31/03/2011

Fax: [REDACTED]

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From: Peter Baddiley [REDACTED]
Sent: Monday, 10 January 2011 5:32 PM
To: [REDACTED]
Cc: [REDACTED] Rob Vertessy; Dasarath Jayasuriya; Jim Elliott; 'Duty Engineer'
Subject: URGENT ATTENTION: Helidon to Gatton FLASH FLOOD [SEC=UNCLASSIFIED]
Importance: High

Serious flash flooding at Toowooba this afternoon - only seen images on tv !

Rapid rise in Lockyer Creek at Helidon between 2pm to 3pm; auto gauge indicates it rose about 8 metres. Accuracy unknown.

Flash flood arriving in Gatton area now. Has now risen 2 metres in one hour and continuing.

Helidon catchment area 440km²; Gatton catchment 1500 km² creek at Gatton is larger, so impact at Gatton should be less, but how high Gatton will get is UNKNOWN.

Highway is immediately downstream of Gatton need closing or Police attention.

Fast rises will extend along Lockyer Creek from Gatton to Glenore Grove/Lyons Bridge tonight - magnitude unknown at this stage but will model once we see Gatton rises.

Map attached.

See flash flood warning at http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDQ20780.html

Peter Baddiley
Regional Hydrology Manager
Climate & Water Division
Bureau of Meteorology
Level 21, 69 Ann Street
GPO B
Phone: [REDACTED]
EMAIL [REDACTED]
EMAIL for flood matters: flood.qld@bom.gov.au
WWW : www.bom.gov.au

31/03/2011

From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 18:43
To: 'Duty Engineer'; 'Jo [REDACTED]'; 'Roberts'; [REDACTED] 'Paul [REDACTED]'; [REDACTED] 'Rohan Thorogood'; [REDACTED] [REDACTED] 'Al Navaruk'; 'Bill Stephens'; 'David Pokarier'; 'John West'; 'Lou van Blerk'; 'Mark [REDACTED]'; [REDACTED] 'Glenn [REDACTED]'; 'Murray Dunstan'; 'Rob Gorian'; [REDACTED] 'Doug Grigg'; [REDACTED] 'Graham Francis'; 'Jayam Tenna'
Cc: 'Andy Bickerton'; 'Deb Chandler'; 'Mailbox'; 'Tony Trace'; 'Chris Lavin'; 'Craig Logan'; 'Don Carroll'; 'Evan Caswell'; 'James Charalambous'; 'Ken Morris'; 'Robert McGlinn'; 'Santina Pennisi'; [REDACTED]
Subject: 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.

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

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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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 22:38
To: [REDACTED]
Subject: FW: Lockyer Ck

Peter

This is Terry's guesstimate.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Terry Malone [REDACTED]
Sent: Monday, 10 January 2011 10:27 PM
To: Duty Seq
Subject: Lockyer Ck



Terry Malone

Principal Hydrologist

Queensland Bulk Water Supply Authority *trading as Seqwater*

 cid:image001.png@01C99019.433

Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia

PO Box 16146, City East QLD 4002

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From: Duty Engineer [REDACTED]
Sent: Monday, 10 January 2011 23:56
To: [REDACTED] Rohan Thorogood; [REDACTED] AI
 Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt;
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell;
 James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: FOC Situation Report at 00:00 Tuesday 11 January 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 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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 04:40
To: [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam
Tennakoon; Matthew O'Reilly; [REDACTED]
[REDACTED]
Subject: Somerset Dam Directive # 6 at 04:30 on Tuesday 11 January 2011
Attachments: OPS_Directive_Somerset #6.doc

Please find attached Directive # 6 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 06:12
To: [REDACTED] Rohan Thorogood; [REDACTED] AI Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glenn Murray; Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: 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 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

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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: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 06:14
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Dam Projected Releases at 06:00 on Tuesday 11 January 2011

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 11/01/2011 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
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

31/03/2011

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
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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
05/01/2011 12:00:00	50	Actual
05/01/2011 13:00:00	50	Actual
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05/01/2011 21:00:00	50	Actual
05/01/2011 22:00:00	50	Actual
05/01/2011 23:00:00	50	Actual
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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

31/03/2011

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
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06/01/2011 23:00:00	50	Actual
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07/01/2011 02:00:00	50	Actual
07/01/2011 03:00:00	50	Actual
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07/01/2011 09:00:00	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	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	577	Actual
08/01/2011 02:00:00	631	Actual
08/01/2011 03:00:00	684	Actual
08/01/2011 04:00:00	738	Actual
08/01/2011 05:00:00	791	Actual
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	1107	Actual
08/01/2011 12:00:00	1160	Actual
08/01/2011 13:00:00	1212	Actual

31/03/2011

08/01/2011 14:00:00	1264	Actual
08/01/2011 15:00:00	1264	Actual
08/01/2011 16:00:00	1265	Actual
08/01/2011 17:00:00	1265	Actual
08/01/2011 18:00:00	1266	Actual
08/01/2011 19:00:00	1266	Actual
08/01/2011 20:00:00	1266	Actual
08/01/2011 21:00:00	1266	Actual
08/01/2011 22:00:00	1266	Actual
08/01/2011 23:00:00	1266	Actual
09/01/2011 00:00:00	1266	Actual
09/01/2011 01:00:00	1265	Actual
09/01/2011 02:00:00	1311	Actual
09/01/2011 03:00:00	1311	Actual
09/01/2011 04:00:00	1310	Actual
09/01/2011 05:00:00	1362	Actual
09/01/2011 06:00:00	1361	Actual
09/01/2011 07:00:00	1360	Actual
09/01/2011 08:00:00	1360	Actual
09/01/2011 09:00:00	1359	Actual
09/01/2011 10:00:00	1358	Actual
09/01/2011 11:00:00	1358	Actual
09/01/2011 12:00:00	1411	Actual
09/01/2011 13:00:00	1411	Actual
09/01/2011 14:00:00	1412	Actual
09/01/2011 15:00:00	1413	Actual
09/01/2011 16:00:00	1416	Actual
09/01/2011 17:00:00	1419	Actual
09/01/2011 18:00:00	1423	Actual
09/01/2011 19:00:00	1427	Actual
09/01/2011 20:00:00	1432	Actual
09/01/2011 21:00:00	1438	Actual
09/01/2011 22:00:00	1445	Actual
09/01/2011 23:00:00	1453	Actual
10/01/2011 00:00:00	1463	Actual
10/01/2011 01:00:00	1474	Actual
10/01/2011 02:00:00	1540	Actual
10/01/2011 03:00:00	1608	Actual
10/01/2011 04:00:00	1676	Actual
10/01/2011 05:00:00	1745	Actual
10/01/2011 06:00:00	1814	Actual
10/01/2011 07:00:00	1883	Actual
10/01/2011 08:00:00	1953	Actual
10/01/2011 09:00:00	2023	Actual
10/01/2011 10:00:00	2036	Actual
10/01/2011 11:00:00	2049	Actual
10/01/2011 12:00:00	2061	Actual
10/01/2011 13:00:00	2074	Actual
10/01/2011 14:00:00	2085	Actual
10/01/2011 15:00:00	2094	Actual
10/01/2011 16:00:00	2160	Actual
10/01/2011 17:00:00	2280	Actual
10/01/2011 18:00:00	2403	Actual

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10/01/2011 19:00:00	2523	Actual
10/01/2011 20:00:00	2702	Actual
10/01/2011 21:00:00	2709	Actual
10/01/2011 22:00:00	2716	Actual
10/01/2011 23:00:00	2722	Actual
11/01/2011 00:00:00	2728	Actual
11/01/2011 01:00:00	2734	Actual
11/01/2011 02:00:00	2739	Actual
11/01/2011 03:00:00	2743	Actual
11/01/2011 04:00:00	2748	Actual
11/01/2011 05:00:00	2751	Actual
11/01/2011 06:00:00	2754	Projected
11/01/2011 07:00:00	2757	Projected
11/01/2011 08:00:00	2758	Projected
11/01/2011 09:00:00	2759	Projected
11/01/2011 10:00:00	2760	Projected
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11/01/2011 12:00:00	2763	Projected
11/01/2011 13:00:00	2766	Projected
11/01/2011 14:00:00	2768	Projected
11/01/2011 15:00:00	2771	Projected
11/01/2011 16:00:00	2775	Projected
11/01/2011 17:00:00	2778	Projected
11/01/2011 18:00:00	2782	Projected
11/01/2011 19:00:00	2785	Projected
11/01/2011 20:00:00	2788	Projected
11/01/2011 21:00:00	2791	Projected
11/01/2011 22:00:00	2793	Projected
11/01/2011 23:00:00	2795	Projected
12/01/2011 00:00:00	2797	Projected
12/01/2011 01:00:00	2798	Projected
12/01/2011 02:00:00	2799	Projected
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12/01/2011 04:00:00	2799	Projected
12/01/2011 05:00:00	2799	Projected
12/01/2011 06:00:00	2799	Projected
12/01/2011 07:00:00	2798	Projected
12/01/2011 08:00:00	2797	Projected
12/01/2011 09:00:00	2796	Projected
12/01/2011 10:00:00	2794	Projected
12/01/2011 11:00:00	2792	Projected
12/01/2011 12:00:00	2790	Projected
12/01/2011 13:00:00	2788	Projected
12/01/2011 14:00:00	2844	Projected
12/01/2011 15:00:00	2899	Projected
12/01/2011 16:00:00	2896	Projected
12/01/2011 17:00:00	2950	Projected
12/01/2011 18:00:00	3004	Projected
12/01/2011 19:00:00	3057	Projected
12/01/2011 20:00:00	3053	Projected
12/01/2011 21:00:00	3105	Projected
12/01/2011 22:00:00	3100	Projected
12/01/2011 23:00:00	3151	Projected

31/03/2011

13/01/2011 00:00:00	3202	Projected
13/01/2011 01:00:00	3196	Projected
13/01/2011 02:00:00	3246	Projected
13/01/2011 03:00:00	3296	Projected
13/01/2011 04:00:00	3290	Projected
13/01/2011 05:00:00	3283	Projected
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13/01/2011 07:00:00	3270	Projected
13/01/2011 08:00:00	3263	Projected
13/01/2011 09:00:00	3257	Projected
13/01/2011 10:00:00	3250	Projected
13/01/2011 11:00:00	3243	Projected
13/01/2011 12:00:00	3236	Projected
13/01/2011 13:00:00	3229	Projected
13/01/2011 14:00:00	3221	Projected
13/01/2011 15:00:00	3214	Projected
13/01/2011 16:00:00	3207	Projected
13/01/2011 17:00:00	3199	Projected
13/01/2011 18:00:00	3192	Projected
13/01/2011 19:00:00	3184	Projected
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
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14/01/2011 21:00:00	3009	Projected
14/01/2011 22:00:00	3003	Projected
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15/01/2011 01:00:00	2985	Projected
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15/01/2011 03:00:00	2973	Projected
15/01/2011 04:00:00	2966	Projected

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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
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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
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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 01:00:00	2824	Projected
16/01/2011 02:00:00	2815	Projected
16/01/2011 03:00:00	2805	Projected
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16/01/2011 05:00:00	2785	Projected
16/01/2011 06:00:00	2775	Projected
16/01/2011 07:00:00	2675	Projected
16/01/2011 08:00:00	2576	Projected
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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

Fax:

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 08:11
To: [REDACTED] Chris Lavin; Craig Logan; Do Morris; Robert McGlinn; Santina Pennisi n Carroll; Evan Caswell; James Charalambous; Ken
Subject: Actual and Projected Wivenhoe Releases
Importance: High

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

31/03/2011

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
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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
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06/01/2011 13:00:00	50	Actual
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06/01/2011 16:00:00	50	Actual
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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
07/01/2011 00:00:00	50	Actual
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07/01/2011 02:00:00	50	Actual
07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
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07/01/2011 06:00:00	50	Actual
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07/01/2011 09:00:00	50	Actual
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07/01/2011 15:00:00	102	Actual
07/01/2011 16:00:00	117	Actual
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
08/01/2011 00:00:00	525	Actual
08/01/2011 01:00:00	578	Actual
08/01/2011 02:00:00	632	Actual
08/01/2011 03:00:00	685	Actual
08/01/2011 04:00:00	738	Actual
08/01/2011 05:00:00	791	Actual
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
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08/01/2011 16:00:00	1263	Actual
08/01/2011 17:00:00	1262	Actual
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08/01/2011 19:00:00	1262	Actual
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 04:00:00	1302	Actual
09/01/2011 05:00:00	1352	Actual
09/01/2011 06:00:00	1351	Actual
09/01/2011 07:00:00	1350	Actual
09/01/2011 08:00:00	1349	Actual
09/01/2011 09:00:00	1348	Actual
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09/01/2011 14:00:00	1401	Actual
09/01/2011 15:00:00	1403	Actual
09/01/2011 16:00:00	1407	Actual
09/01/2011 17:00:00	1412	Actual
09/01/2011 18:00:00	1417	Actual
09/01/2011 19:00:00	1424	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
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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
10/01/2011 10:00:00	2031	Actual
10/01/2011 11:00:00	2043	Actual
10/01/2011 12:00:00	2054	Actual
10/01/2011 13:00:00	2067	Actual
10/01/2011 14:00:00	2079	Actual

31/03/2011

10/01/2011 15:00:00	2091	Actual
10/01/2011 16:00:00	2158	Actual
10/01/2011 17:00:00	2279	Actual
10/01/2011 18:00:00	2405	Actual
10/01/2011 19:00:00	2526	Actual
10/01/2011 20:00:00	2705	Actual
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10/01/2011 22:00:00	2721	Actual
10/01/2011 23:00:00	2728	Actual
11/01/2011 00:00:00	2735	Actual
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11/01/2011 22:00:00	3716	Projected
11/01/2011 23:00:00	3722	Projected
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12/01/2011 01:00:00	3731	Projected
12/01/2011 02:00:00	3734	Projected
12/01/2011 03:00:00	3736	Projected
12/01/2011 04:00:00	3737	Projected
12/01/2011 05:00:00	3737	Projected
12/01/2011 06:00:00	3735	Projected
12/01/2011 07:00:00	3733	Projected
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12/01/2011 09:00:00	3727	Projected
12/01/2011 10:00:00	3723	Projected
12/01/2011 11:00:00	3718	Projected
12/01/2011 12:00:00	3713	Projected
12/01/2011 13:00:00	3708	Projected
12/01/2011 14:00:00	3702	Projected
12/01/2011 15:00:00	3696	Projected
12/01/2011 16:00:00	3690	Projected
12/01/2011 17:00:00	3683	Projected
12/01/2011 18:00:00	3676	Projected
12/01/2011 19:00:00	3669	Projected

31/03/2011

12/01/2011 20:00:00	3662	Projected
12/01/2011 21:00:00	3655	Projected
12/01/2011 22:00:00	3648	Projected
12/01/2011 23:00:00	3640	Projected
13/01/2011 00:00:00	3633	Projected
13/01/2011 01:00:00	3625	Projected
13/01/2011 02:00:00	3617	Projected
13/01/2011 03:00:00	3609	Projected
13/01/2011 04:00:00	3601	Projected
13/01/2011 05:00:00	3593	Projected
13/01/2011 06:00:00	3585	Projected
13/01/2011 07:00:00	3577	Projected
13/01/2011 08:00:00	3569	Projected
13/01/2011 09:00:00	3560	Projected
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
13/01/2011 19:00:00	3481	Projected
13/01/2011 20:00:00	3473	Projected
13/01/2011 21:00:00	3464	Projected
13/01/2011 22:00:00	3455	Projected
13/01/2011 23:00:00	3446	Projected
14/01/2011 00:00:00	3437	Projected
14/01/2011 01:00:00	3429	Projected
14/01/2011 02:00:00	3420	Projected
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
14/01/2011 07:00:00	3373	Projected
14/01/2011 08:00:00	3364	Projected
14/01/2011 09:00:00	3355	Projected
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14/01/2011 13:00:00	3316	Projected
14/01/2011 14:00:00	3306	Projected
14/01/2011 15:00:00	3297	Projected
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14/01/2011 17:00:00	3277	Projected
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14/01/2011 19:00:00	3257	Projected
14/01/2011 20:00:00	3246	Projected
14/01/2011 21:00:00	3236	Projected
14/01/2011 22:00:00	3226	Projected
14/01/2011 23:00:00	3216	Projected
15/01/2011 00:00:00	3205	Projected

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15/01/2011 03:00:00	3174	Projected
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15/01/2011 06:00:00	3140	Projected
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15/01/2011 13:00:00	3058	Projected
15/01/2011 14:00:00	3046	Projected
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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
16/01/2011 01:00:00	2909	Projected
16/01/2011 02:00:00	2896	Projected
16/01/2011 03:00:00	2883	Projected
16/01/2011 04:00:00	2870	Projected
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16/01/2011 06:00:00	2844	Projected
16/01/2011 07:00:00	2831	Projected
16/01/2011 08:00:00	2818	Projected
16/01/2011 09:00:00	2804	Projected
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16/01/2011 14:00:00	2737	Projected
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16/01/2011 16:00:00	2709	Projected
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16/01/2011 19:00:00	2667	Projected
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16/01/2011 23:00:00	2610	Projected
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17/01/2011 03:00:00	2552	Projected
17/01/2011 04:00:00	2537	Projected
17/01/2011 05:00:00	2522	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
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18/01/2011 07:00:00	2091	Projected
18/01/2011 08:00:00	2069	Projected
18/01/2011 09:00:00	2044	Projected
18/01/2011 10:00:00	2002	Projected
18/01/2011 11:00:00	1962	Projected
18/01/2011 12:00:00	1923	Projected
18/01/2011 13:00:00	1884	Projected
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18/01/2011 17:00:00	1738	Projected
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18/01/2011 23:00:00	1591	Projected
19/01/2011 00:00:00	1572	Projected
19/01/2011 01:00:00	1552	Projected
19/01/2011 02:00:00	1533	Projected
19/01/2011 03:00:00	1513	Projected
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19/01/2011 23:00:00	1157	Projected
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20/01/2011 08:00:00	1018	Projected
20/01/2011 09:00:00	1003	Projected
20/01/2011 10:00:00	989	Projected
20/01/2011 11:00:00	974	Projected
20/01/2011 12:00:00	960	Projected
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21/01/2011 13:00:00	656	Projected
21/01/2011 14:00:00	646	Projected
21/01/2011 15:00:00	636	Projected

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21/01/2011 16:00:00	626	Projected
21/01/2011 17:00:00	616	Projected
21/01/2011 18:00:00	607	Projected
21/01/2011 19:00:00	597	Projected
21/01/2011 20:00:00	588	Projected
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22/01/2011 17:00:00	419	Projected
22/01/2011 18:00:00	412	Projected
22/01/2011 19:00:00	405	Projected
22/01/2011 20:00:00	399	Projected
22/01/2011 21:00:00	392	Projected
22/01/2011 22:00:00	386	Projected
22/01/2011 23:00:00	379	Projected
23/01/2011 00:00:00	373	Projected
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

Fax:

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 11:38
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

Actual and Projected Wivenhoe Releases

Source: Seqwater	11/01/2011 11:32	
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
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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

31/03/2011

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
04/01/2011 09:00:00	50	Actual
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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	319	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	527	Actual
08/01/2011 01:00:00	581	Actual
08/01/2011 02:00:00	634	Actual
08/01/2011 03:00:00	688	Actual
08/01/2011 04:00:00	741	Actual
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08/01/2011 08:00:00	952	Actual
08/01/2011 09:00:00	1005	Actual
08/01/2011 10:00:00	1058	Actual
08/01/2011 11:00:00	1112	Actual
08/01/2011 12:00:00	1166	Actual
08/01/2011 13:00:00	1218	Actual

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08/01/2011 14:00:00	1270	Actual
08/01/2011 15:00:00	1270	Actual
08/01/2011 16:00:00	1270	Actual
08/01/2011 17:00:00	1270	Actual
08/01/2011 18:00:00	1270	Actual
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09/01/2011 04:00:00	1311	Actual
09/01/2011 05:00:00	1363	Actual
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09/01/2011 21:00:00	1456	Actual
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10/01/2011 14:00:00	2089	Actual
10/01/2011 15:00:00	2100	Actual
10/01/2011 16:00:00	2167	Actual
10/01/2011 17:00:00	2288	Actual
10/01/2011 18:00:00	2413	Actual

31/03/2011

10/01/2011 19:00:00	2535	Actual
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10/01/2011 21:00:00	2722	Actual
10/01/2011 22:00:00	2729	Actual
10/01/2011 23:00:00	2736	Actual
11/01/2011 00:00:00	2742	Actual
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11/01/2011 03:00:00	2756	Actual
11/01/2011 04:00:00	2759	Actual
11/01/2011 05:00:00	2763	Actual
11/01/2011 06:00:00	2767	Actual
11/01/2011 07:00:00	2772	Actual
11/01/2011 08:00:00	2779	Actual
11/01/2011 09:00:00	3061	Actual
11/01/2011 10:00:00	3237	Actual
11/01/2011 11:00:00	3413	Actual
11/01/2011 12:00:00	3981	Projected
11/01/2011 13:00:00	3986	Projected
11/01/2011 14:00:00	3992	Projected
11/01/2011 15:00:00	3998	Projected
11/01/2011 16:00:00	4005	Projected
11/01/2011 17:00:00	4012	Projected
11/01/2011 18:00:00	4019	Projected
11/01/2011 19:00:00	4026	Projected
11/01/2011 20:00:00	4033	Projected
11/01/2011 21:00:00	4039	Projected
11/01/2011 22:00:00	4045	Projected
11/01/2011 23:00:00	4050	Projected
12/01/2011 00:00:00	4055	Projected
12/01/2011 01:00:00	4058	Projected
12/01/2011 02:00:00	4060	Projected
12/01/2011 03:00:00	4062	Projected
12/01/2011 04:00:00	4062	Projected
12/01/2011 05:00:00	4062	Projected
12/01/2011 06:00:00	4060	Projected
12/01/2011 07:00:00	4058	Projected
12/01/2011 08:00:00	4054	Projected
12/01/2011 09:00:00	4050	Projected
12/01/2011 10:00:00	4046	Projected
12/01/2011 11:00:00	4040	Projected
12/01/2011 12:00:00	4035	Projected
12/01/2011 13:00:00	4028	Projected
12/01/2011 14:00:00	4022	Projected
12/01/2011 15:00:00	4015	Projected
12/01/2011 16:00:00	4008	Projected
12/01/2011 17:00:00	4000	Projected
12/01/2011 18:00:00	3992	Projected
12/01/2011 19:00:00	3985	Projected
12/01/2011 20:00:00	3976	Projected
12/01/2011 21:00:00	3968	Projected
12/01/2011 22:00:00	3960	Projected
12/01/2011 23:00:00	3951	Projected

31/03/2011

13/01/2011 00:00:00	3942	Projected
13/01/2011 01:00:00	3934	Projected
13/01/2011 02:00:00	3925	Projected
13/01/2011 03:00:00	3916	Projected
13/01/2011 04:00:00	3906	Projected
13/01/2011 05:00:00	3897	Projected
13/01/2011 06:00:00	3888	Projected
13/01/2011 07:00:00	3878	Projected
13/01/2011 08:00:00	3868	Projected
13/01/2011 09:00:00	3859	Projected
13/01/2011 10:00:00	3849	Projected
13/01/2011 11:00:00	3839	Projected
13/01/2011 12:00:00	3832	Projected
13/01/2011 13:00:00	3824	Projected
13/01/2011 14:00:00	3815	Projected
13/01/2011 15:00:00	3805	Projected
13/01/2011 16:00:00	3796	Projected
13/01/2011 17:00:00	3786	Projected
13/01/2011 18:00:00	3776	Projected
13/01/2011 19:00:00	3766	Projected
13/01/2011 20:00:00	3756	Projected
13/01/2011 21:00:00	3745	Projected
13/01/2011 22:00:00	3735	Projected
13/01/2011 23:00:00	3725	Projected
14/01/2011 00:00:00	3714	Projected
14/01/2011 01:00:00	3703	Projected
14/01/2011 02:00:00	3693	Projected
14/01/2011 03:00:00	3682	Projected
14/01/2011 04:00:00	3671	Projected
14/01/2011 05:00:00	3660	Projected
14/01/2011 06:00:00	3649	Projected
14/01/2011 07:00:00	3638	Projected
14/01/2011 08:00:00	3627	Projected
14/01/2011 09:00:00	3616	Projected
14/01/2011 10:00:00	3604	Projected
14/01/2011 11:00:00	3593	Projected
14/01/2011 12:00:00	3581	Projected
14/01/2011 13:00:00	3570	Projected
14/01/2011 14:00:00	3558	Projected
14/01/2011 15:00:00	3546	Projected
14/01/2011 16:00:00	3534	Projected
14/01/2011 17:00:00	3522	Projected
14/01/2011 18:00:00	3510	Projected
14/01/2011 19:00:00	3498	Projected
14/01/2011 20:00:00	3486	Projected
14/01/2011 21:00:00	3474	Projected
14/01/2011 22:00:00	3462	Projected
14/01/2011 23:00:00	3449	Projected
15/01/2011 00:00:00	3437	Projected
15/01/2011 01:00:00	3424	Projected
15/01/2011 02:00:00	3411	Projected
15/01/2011 03:00:00	3399	Projected
15/01/2011 04:00:00	3386	Projected

31/03/2011

15/01/2011 05:00:00	3372	Projected
15/01/2011 06:00:00	3358	Projected
15/01/2011 07:00:00	3344	Projected
15/01/2011 08:00:00	3330	Projected
15/01/2011 09:00:00	3316	Projected
15/01/2011 10:00:00	3302	Projected
15/01/2011 11:00:00	3287	Projected
15/01/2011 12:00:00	3273	Projected
15/01/2011 13:00:00	3258	Projected
15/01/2011 14:00:00	3244	Projected
15/01/2011 15:00:00	3229	Projected
15/01/2011 16:00:00	3214	Projected
15/01/2011 17:00:00	3199	Projected
15/01/2011 18:00:00	3185	Projected
15/01/2011 19:00:00	3170	Projected
15/01/2011 20:00:00	3154	Projected
15/01/2011 21:00:00	3139	Projected
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
16/01/2011 04:00:00	3031	Projected
16/01/2011 05:00:00	3015	Projected
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16/01/2011 07:00:00	2983	Projected
16/01/2011 08:00:00	2966	Projected
16/01/2011 09:00:00	2950	Projected
16/01/2011 10:00:00	2934	Projected
16/01/2011 11:00:00	2917	Projected
16/01/2011 12:00:00	2901	Projected
16/01/2011 13:00:00	2884	Projected
16/01/2011 14:00:00	2867	Projected
16/01/2011 15:00:00	2850	Projected
16/01/2011 16:00:00	2833	Projected
16/01/2011 17:00:00	2816	Projected
16/01/2011 18:00:00	2799	Projected
16/01/2011 19:00:00	2782	Projected
16/01/2011 20:00:00	2764	Projected
16/01/2011 21:00:00	2747	Projected
16/01/2011 22:00:00	2729	Projected
16/01/2011 23:00:00	2711	Projected
17/01/2011 00:00:00	2693	Projected
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17/01/2011 02:00:00	2657	Projected
17/01/2011 03:00:00	2638	Projected
17/01/2011 04:00:00	2620	Projected
17/01/2011 05:00:00	2601	Projected
17/01/2011 06:00:00	2582	Projected
17/01/2011 07:00:00	2563	Projected
17/01/2011 08:00:00	2544	Projected
17/01/2011 09:00:00	2525	Projected

31/03/2011

17/01/2011 10:00:00	2506	Projected
17/01/2011 11:00:00	2486	Projected
17/01/2011 12:00:00	2466	Projected
17/01/2011 13:00:00	2446	Projected
17/01/2011 14:00:00	2426	Projected
17/01/2011 15:00:00	2396	Projected
17/01/2011 16:00:00	2365	Projected
17/01/2011 17:00:00	2331	Projected
17/01/2011 18:00:00	2296	Projected
17/01/2011 19:00:00	2261	Projected
17/01/2011 20:00:00	2228	Projected
17/01/2011 21:00:00	2194	Projected
17/01/2011 22:00:00	2161	Projected
17/01/2011 23:00:00	2128	Projected
18/01/2011 00:00:00	2094	Projected
18/01/2011 01:00:00	2061	Projected
18/01/2011 02:00:00	2026	Projected
18/01/2011 03:00:00	1986	Projected
18/01/2011 04:00:00	1946	Projected
18/01/2011 05:00:00	1909	Projected
18/01/2011 06:00:00	1871	Projected
18/01/2011 07:00:00	1834	Projected
18/01/2011 08:00:00	1798	Projected
18/01/2011 09:00:00	1763	Projected
18/01/2011 10:00:00	1729	Projected
18/01/2011 11:00:00	1695	Projected
18/01/2011 12:00:00	1662	Projected
18/01/2011 13:00:00	1642	Projected
18/01/2011 14:00:00	1623	Projected
18/01/2011 15:00:00	1603	Projected
18/01/2011 16:00:00	1584	Projected
18/01/2011 17:00:00	1564	Projected
18/01/2011 18:00:00	1545	Projected
18/01/2011 19:00:00	1526	Projected
18/01/2011 20:00:00	1507	Projected
18/01/2011 21:00:00	1489	Projected
18/01/2011 22:00:00	1470	Projected
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19/01/2011 02:00:00	838	Projected
19/01/2011 03:00:00	832	Projected
19/01/2011 04:00:00	826	Projected
19/01/2011 05:00:00	820	Projected
19/01/2011 06:00:00	814	Projected
19/01/2011 07:00:00	808	Projected
19/01/2011 08:00:00	802	Projected
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19/01/2011 10:00:00	790	Projected
19/01/2011 11:00:00	784	Projected
19/01/2011 12:00:00	778	Projected
19/01/2011 13:00:00	772	Projected
19/01/2011 14:00:00	766	Projected

31/03/2011

19/01/2011 15:00:00	760	Projected
19/01/2011 16:00:00	754	Projected
19/01/2011 17:00:00	749	Projected
19/01/2011 18:00:00	743	Projected
19/01/2011 19:00:00	737	Projected
19/01/2011 20:00:00	731	Projected
19/01/2011 21:00:00	726	Projected
19/01/2011 22:00:00	720	Projected
19/01/2011 23:00:00	715	Projected
20/01/2011 00:00:00	709	Projected
20/01/2011 01:00:00	703	Projected
20/01/2011 02:00:00	698	Projected
20/01/2011 03:00:00	692	Projected
20/01/2011 04:00:00	687	Projected
20/01/2011 05:00:00	681	Projected
20/01/2011 06:00:00	676	Projected
20/01/2011 07:00:00	671	Projected
20/01/2011 08:00:00	665	Projected
20/01/2011 09:00:00	660	Projected
20/01/2011 10:00:00	655	Projected
20/01/2011 11:00:00	650	Projected
20/01/2011 12:00:00	644	Projected
20/01/2011 13:00:00	639	Projected
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20/01/2011 15:00:00	629	Projected
20/01/2011 16:00:00	624	Projected
20/01/2011 17:00:00	619	Projected
20/01/2011 18:00:00	614	Projected
20/01/2011 19:00:00	609	Projected
20/01/2011 20:00:00	604	Projected
20/01/2011 21:00:00	599	Projected
20/01/2011 22:00:00	594	Projected
20/01/2011 23:00:00	589	Projected
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21/01/2011 01:00:00	579	Projected
21/01/2011 02:00:00	574	Projected
21/01/2011 03:00:00	570	Projected
21/01/2011 04:00:00	565	Projected
21/01/2011 05:00:00	560	Projected
21/01/2011 06:00:00	555	Projected
21/01/2011 07:00:00	551	Projected
21/01/2011 08:00:00	546	Projected
21/01/2011 09:00:00	542	Projected
21/01/2011 10:00:00	537	Projected
21/01/2011 11:00:00	532	Projected
21/01/2011 12:00:00	528	Projected
21/01/2011 13:00:00	523	Projected
21/01/2011 14:00:00	519	Projected
21/01/2011 15:00:00	515	Projected
21/01/2011 16:00:00	510	Projected
21/01/2011 17:00:00	506	Projected
21/01/2011 18:00:00	502	Projected
21/01/2011 19:00:00	497	Projected

31/03/2011

21/01/2011 20:00:00	493	Projected
21/01/2011 21:00:00	489	Projected
21/01/2011 22:00:00	484	Projected
21/01/2011 23:00:00	480	Projected
22/01/2011 00:00:00	476	Projected
22/01/2011 01:00:00	472	Projected
22/01/2011 02:00:00	468	Projected
22/01/2011 03:00:00	464	Projected
22/01/2011 04:00:00	460	Projected
22/01/2011 05:00:00	456	Projected
22/01/2011 06:00:00	452	Projected
22/01/2011 07:00:00	448	Projected
22/01/2011 08:00:00	444	Projected
22/01/2011 09:00:00	440	Projected
22/01/2011 10:00:00	436	Projected
22/01/2011 11:00:00	432	Projected
22/01/2011 12:00:00	429	Projected
22/01/2011 13:00:00	425	Projected
22/01/2011 14:00:00	421	Projected
22/01/2011 15:00:00	417	Projected
22/01/2011 16:00:00	414	Projected
22/01/2011 17:00:00	410	Projected
22/01/2011 18:00:00	406	Projected
22/01/2011 19:00:00	403	Projected
22/01/2011 20:00:00	399	Projected
22/01/2011 21:00:00	395	Projected
22/01/2011 22:00:00	392	Projected
22/01/2011 23:00:00	388	Projected
23/01/2011 00:00:00	385	Projected
23/01/2011 01:00:00	382	Projected
23/01/2011 02:00:00	378	Projected
23/01/2011 03:00:00	375	Projected
23/01/2011 04:00:00	371	Projected

Duty Engineer
Flood Operations Centre

Phone 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 12:11
To: [REDACTED] P
 [REDACTED] Rohan Thorogood; 'Tony Jacobs (private)'; [REDACTED]
 [REDACTED] Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan;
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Subject: 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.

1. 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.
2. 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.

North Pine

Inflows and outflows are increasing very rapid and will exceed 2,000m³/s.

Duty Engineer
 Flood Operations Centre

Phone: [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 13:28
To: [REDACTED]
Cc: [REDACTED]
Subject: Request for Scenario

Peter Borrowws has asked the FOC to request BOM to considered the height for Brisbane City if Wivenhoe is releasing 9,000m3/s.

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 13:32
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases - Note that is our worst case for the next 12 hours

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
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

31/03/2011

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
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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
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
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07/01/2011 03:00:00	50	Actual
07/01/2011 04:00:00	50	Actual
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31/03/2011

08/01/2011 14:00:00	1271	Actual
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31/03/2011

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31/03/2011

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23/01/2011 04:00:00	195	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 14:19
To: [REDACTED]
Cc: David Roberts; [REDACTED] n
Thorogood; 'Tony Jacobs (private)'; [REDACTED]
Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED]
Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED]
Doug Grigg; [REDACTED]; Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Update
Importance: High

Somerset/Wivenhoe

Our strategy revolves ensuring dam security and is 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 10,000m³/s at the time. Sluices have been closed at Somerset and this will result in high upstream water levels affecting Kilcoy.

Wivenhoe Dam is rising very quickly and rapid gate openings are required to manage this increase. Based on the current rate of rise, inflow rate is in excess of 12,000m³/s. The situation is being revised constantly and releases will be increased hourly until the water level starts to stabilize. It is possible that the releases will be as high as 10,000m³/s in the next few hours. Heavy rainfall continues in the catchment especially around the dam.

It should be noted that the flow in the lower Brisbane R in 1974 was about 9,500m³/s

North Pine

Inflows and outflows are at record levels and increasing within inflows nearing 3,000m³/s, and is approaching an extreme event (possibly as high as 1 in 10,000 AEP)

Terry Malone
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 14:26
To: [REDACTED] Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe ALERT level

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: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 15:43
To: [REDACTED]
Cc: [REDACTED]
Subject: Projected Wivenhoe Outflows

Peter

As you recently discussed with Barry Dineen can you please provide advice as to the height of the Brisbane City gauge will reach if Wivenhoe releases 10,000m³/s.

Thanks

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 16:52
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Actual and Projected Releases

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
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12:00:00	50	Actual
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13:00:00	50	Actual
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14:00:00	50	Actual
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16:00:00	50	Actual
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17:00:00	50	Actual
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18:00:00	50	Actual
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19:00:00	50	Actual
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08:00:00	50	Actual
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09:00:00	50	Actual
03/01/2011		
10:00:00	50	Actual

31/03/2011

03/01/2011		
11:00:00	50	Actual
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12:00:00	50	Actual
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31/03/2011

22:00:00	50	Actual
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09:00:00	50	Actual

31/03/2011

06/01/2011		
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09:00:00	50	Actual
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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

31/03/2011

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		
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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

31/03/2011

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
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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
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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

31/03/2011

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
11/01/2011		
02:00:00	2756	Actual
11/01/2011		
03:00:00	2761	Actual
11/01/2011		
04:00:00	2765	Actual
11/01/2011		
05:00:00	2770	Actual
11/01/2011		
06:00:00	2775	Actual
11/01/2011		
07:00:00	2781	Actual
11/01/2011		
08:00:00	2787	Actual
11/01/2011		
09:00:00	3012	Actual
11/01/2011		
10:00:00	3363	Actual
11/01/2011		
11:00:00	3542	Actual
11/01/2011		
12:00:00	3665	Actual
11/01/2011		
13:00:00	4242	Actual
11/01/2011		
14:00:00	4540	Actual
11/01/2011		
15:00:00	5132	Actual
11/01/2011		
16:00:00	5743	Actual
11/01/2011		
17:00:00	6382	Projected
11/01/2011		
18:00:00	7054	Projected
11/01/2011		
19:00:00	7625	Projected
11/01/2011		
20:00:00	7633	Projected
11/01/2011		
21:00:00	7640	Projected
11/01/2011		
22:00:00	7645	Projected
11/01/2011		
23:00:00	7646	Projected
12/01/2011		
00:00:00	7645	Projected
12/01/2011		
01:00:00	7641	Projected
12/01/2011		
02:00:00	7633	Projected
12/01/2011		
03:00:00	7623	Projected
12/01/2011		
04:00:00	7610	Projected
12/01/2011		
05:00:00	7595	Projected
12/01/2011		
06:00:00	7577	Projected
12/01/2011		
07:00:00	7557	Projected

31/03/2011

12/01/2011		
08:00:00	7536	Projected
12/01/2011		
09:00:00	7513	Projected
12/01/2011		
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12/01/2011		
11:00:00	7462	Projected
12/01/2011		
12:00:00	7435	Projected
12/01/2011		
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12/01/2011		
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12/01/2011		
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12/01/2011		
16:00:00	7314	Projected
12/01/2011		
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12/01/2011		
18:00:00	7248	Projected
12/01/2011		
19:00:00	7213	Projected
12/01/2011		
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12/01/2011		
21:00:00	7142	Projected
12/01/2011		
22:00:00	7105	Projected
12/01/2011		
23:00:00	7068	Projected
13/01/2011		
00:00:00	7030	Projected
13/01/2011		
01:00:00	6991	Projected
13/01/2011		
02:00:00	6951	Projected
13/01/2011		
03:00:00	6911	Projected
13/01/2011		
04:00:00	6870	Projected
13/01/2011		
05:00:00	6837	Projected
13/01/2011		
06:00:00	6804	Projected
13/01/2011		
07:00:00	6770	Projected
13/01/2011		
08:00:00	6735	Projected
13/01/2011		
09:00:00	6700	Projected
13/01/2011		
10:00:00	6664	Projected
13/01/2011		
11:00:00	6627	Projected
13/01/2011		
12:00:00	6590	Projected
13/01/2011		
13:00:00	6552	Projected
13/01/2011		
14:00:00	6514	Projected
13/01/2011		
15:00:00	6474	Projected
13/01/2011		
16:00:00	6435	Projected
13/01/2011		
17:00:00	6382	Projected
13/01/2011		
18:00:00	6323	Projected

13/01/2011

31/03/2011

19:00:00	6241	Projected
13/01/2011		
20:00:00	6159	Projected
13/01/2011		
21:00:00	6075	Projected
13/01/2011		
22:00:00	5991	Projected
13/01/2011		
23:00:00	5903	Projected
14/01/2011		
00:00:00	5817	Projected
14/01/2011		
01:00:00	5728	Projected
14/01/2011		
02:00:00	5639	Projected
14/01/2011		
03:00:00	5552	Projected
14/01/2011		
04:00:00	5459	Projected
14/01/2011		
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14/01/2011		
06:00:00	5267	Projected
14/01/2011		
07:00:00	5171	Projected
14/01/2011		
08:00:00	5076	Projected
14/01/2011		
09:00:00	4983	Projected
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10:00:00	4892	Projected
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11:00:00	4802	Projected
14/01/2011		
12:00:00	4714	Projected
14/01/2011		
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14/01/2011		
14:00:00	4542	Projected
14/01/2011		
15:00:00	4458	Projected
14/01/2011		
16:00:00	4376	Projected
14/01/2011		
17:00:00	4295	Projected
14/01/2011		
18:00:00	4215	Projected
14/01/2011		
19:00:00	4138	Projected
14/01/2011		
20:00:00	4061	Projected
14/01/2011		
21:00:00	3986	Projected
14/01/2011		
22:00:00	3912	Projected
14/01/2011		
23:00:00	3840	Projected
15/01/2011		
00:00:00	3769	Projected
15/01/2011		
01:00:00	3699	Projected
15/01/2011		
02:00:00	3631	Projected
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03:00:00	3563	Projected
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15/01/2011		
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15/01/2011		
06:00:00	3369	Projected

31/03/2011

15/01/2011		
07:00:00	3307	Projected
15/01/2011		
08:00:00	3246	Projected
15/01/2011		
09:00:00	3186	Projected
15/01/2011		
10:00:00	3127	Projected
15/01/2011		
11:00:00	3069	Projected
15/01/2011		
12:00:00	3012	Projected
15/01/2011		
13:00:00	2957	Projected
15/01/2011		
14:00:00	2902	Projected
15/01/2011		
15:00:00	2849	Projected
15/01/2011		
16:00:00	2796	Projected
15/01/2011		
17:00:00	2745	Projected
15/01/2011		
18:00:00	2694	Projected
15/01/2011		
19:00:00	2645	Projected
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20:00:00	2596	Projected
15/01/2011		
21:00:00	2549	Projected
15/01/2011		
22:00:00	2502	Projected
15/01/2011		
23:00:00	2456	Projected
16/01/2011		
00:00:00	2411	Projected
16/01/2011		
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16/01/2011		
02:00:00	2324	Projected
16/01/2011		
03:00:00	2282	Projected
16/01/2011		
04:00:00	2240	Projected
16/01/2011		
05:00:00	2200	Projected
16/01/2011		
06:00:00	2160	Projected
16/01/2011		
07:00:00	2121	Projected
16/01/2011		
08:00:00	2082	Projected
16/01/2011		
09:00:00	2045	Projected
16/01/2011		
10:00:00	2008	Projected
16/01/2011		
11:00:00	1972	Projected
16/01/2011		
12:00:00	1936	Projected
16/01/2011		
13:00:00	1902	Projected
16/01/2011		
14:00:00	1868	Projected
16/01/2011		
15:00:00	1834	Projected
16/01/2011		
16:00:00	1802	Projected
16/01/2011		
17:00:00	1770	Projected

16/01/2011

31/03/2011

18:00:00	1738	Projected
16/01/2011		
19:00:00	1708	Projected
16/01/2011		
20:00:00	1677	Projected
16/01/2011		
21:00:00	0	Projected
16/01/2011		
22:00:00	0	Projected
16/01/2011		
23:00:00	0	Projected
17/01/2011		
00:00:00	0	Projected
17/01/2011		
01:00:00	929	Projected
17/01/2011		
02:00:00	0	Projected
17/01/2011		
03:00:00	0	Projected
17/01/2011		
04:00:00	0	Projected
17/01/2011		
05:00:00	0	Projected
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

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).

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 18:00
To: David Roberts; [REDACTED] P
 [REDACTED] Rohan Thorogood; 'Tony Jacobs (private)' [REDACTED] Doug Grigg;
 [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly; Tony Trace; Chris Lavin;
 Craig Logan; Don Carroll; [REDACTED] ous; Ken Morris; Robert
 McGlinn; Santina Pennisi; [REDACTED]
 [REDACTED]
 [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian
Subject: Situation Report 1800 12 Janauary 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 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: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 18:07
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

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
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31/03/2011

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Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 20:15
To: [REDACTED]
Subject: Brisbane R Estimates

This is my best estimate for the lower Brisbane for your consideration.

 LOWER BRISBANE RIVER
 LOWER BRISBANE RIVER (no forecast rainfall)
 RUN DATED: Tue Jan 11 2011 19:59
 FORECAST RUN FROM Sun Jan 02 2011 09:00
 DATA PARAMETERS : Locations = 18 Values = 393 Data Interval = 1.000 hours
 MODEL PARAMETERS: alpha = 0.1700 m = 0.80 beta = 3.000 IL = 10.0 CL = 2.00

LOCATION	Time of Peak	Peak Discharge cumecs	Peak Height metres	
WD_OUTFLOW	Tue Jan 11 2011 23:00	7438.00	N/A	*
OREILLYS_WEIR	Tue Jan 11 2011 23:00	3811.81	27.13	
L_PUMP_STN	Wed Jan 12 2011 13:00	11257.03	52.41	
SAVAGES_XING	Wed Jan 12 2011 15:00	11274.15	27.50	
MT_CROSBY_WEIR	Wed Jan 12 2011 23:00	11322.15	29.96	
IPSWICH	Thu Jan 13 2011 04:00	2098.22	22.52	
MOGGILL	Thu Jan 13 2011 07:00	11840.39	22.22	
JINDALEE	Thu Jan 13 2011 11:00	11841.99	16.02	
BRISBANE	Thu Jan 13 2011 16:00	11824.91	6.19	*
BAR	Mon Jan 03 2011 09:00	N/A	2.45	*

Please note that this is a personal email from me and does not reflect official Seqwater position.

Terry

From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 21:11
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

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

02/01/2011		
09:00:00	50	Actual
02/01/2011		
10:00:00	50	Actual
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31/03/2011

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31/03/2011

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17/01/2011		
07:00:00	779	Projected
17/01/2011		
08:00:00	740	Projected

Duty Engineer
Flood Operations Centre

Phone: 

Fax: 

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 11 January 2011 22:02
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases (Updated)

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
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14:00:00	50	Actual
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15:00:00	50	Actual
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16:00:00	50	Actual
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17:00:00	50	Actual
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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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04:00:00	50	Actual
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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

31/03/2011

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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15:00:00	50	Actual
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22:00:00	50	Actual

04/01/2011

31/03/2011

23:00:00	50	Actual
05/01/2011		
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08:00:00	50	Actual
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09:00:00	50	Actual
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10:00:00	50	Actual

31/03/2011

06/01/2011		
11:00:00	50	Actual
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12:00:00	50	Actual
06/01/2011		
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14:00:00	50	Actual
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17:00:00	50	Actual
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18:00:00	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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03:00:00	50	Actual
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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

31/03/2011

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		
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22:00:00	1280	Actual
08/01/2011		
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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

31/03/2011

09/01/2011		
10:00:00	1374	Actual
09/01/2011		
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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		
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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

31/03/2011

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		
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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

31/03/2011

12/01/2011		
09:00:00	5492	Projected
12/01/2011		
10:00:00	5485	Projected
12/01/2011		
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12/01/2011		
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12/01/2011		
13:00:00	5463	Projected
12/01/2011		
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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
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23:00:00	5349	Projected
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00:00:00	5335	Projected
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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

31/03/2011

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
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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
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14/01/2011		
12:00:00	4652	Projected
14/01/2011		
13:00:00	4629	Projected
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14:00:00	4605	Projected
14/01/2011		
15:00:00	4582	Projected
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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

31/03/2011

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		
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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		
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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
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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

31/03/2011

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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 01:24
To: [REDACTED] D [REDACTED] is; Jayam
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive #29 at 01:15 on Tuesdya 12 January 2011
Attachments: OPS_Directive_Wivenhoe #29.doc

Please find attached a copy of Directive #29 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 03:38
To: [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam
Tennakoon; Matthew O'Reilly; [REDACTED]
[REDACTED]
Subject: Wivenhoe Directive #30
Attachments: OPS_Directive_Wivenhoe #30.doc

Please find attached a copy of the latest directive for Wivenhoe Dam

Duty Engineer
Flood Operations Centre

Phone [REDACTED]
Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 03:48
To: 'Duty Engineer'; [REDACTED] Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases (Updated)

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 12/01/2011 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
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02/01/2011 16:00:00	50	Actual
02/01/2011 17:00:00	50	Actual
02/01/2011 18:00:00	50	Actual
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03/01/2011 03:00:00	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

31/03/2011

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
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05/01/2011 18:00:00	50	Actual
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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

31/03/2011

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
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06/01/2011 15:00:00	50	Actual
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07/01/2011 00:00:00	50	Actual
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07/01/2011 19:00:00	270	Actual
07/01/2011 20:00:00	320	Actual
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07/01/2011 22:00:00	421	Actual
07/01/2011 23:00:00	475	Actual
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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
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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

31/03/2011

08/01/2011 14:00:00	1274	Actual
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10/01/2011 00:00:00	1480	Actual
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10/01/2011 05:00:00	1763	Actual
10/01/2011 06:00:00	1832	Actual
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10/01/2011 08:00:00	1971	Actual
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10/01/2011 18:00:00	2424	Actual

31/03/2011

10/01/2011 19:00:00	2545	Actual
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10/01/2011 23:00:00	2745	Actual
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11/01/2011 23:00:00	7071	Actual
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12/01/2011 04:00:00	4888	Projected
12/01/2011 05:00:00	4889	Projected
12/01/2011 06:00:00	4309	Projected
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12/01/2011 09:00:00	3734	Projected
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12/01/2011 23:00:00	2558	Projected

31/03/2011

13/01/2011 00:00:00	2558	Projected
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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
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15/01/2011 00:00:00	3521	Projected
15/01/2011 01:00:00	3514	Projected
15/01/2011 02:00:00	3507	Projected
15/01/2011 03:00:00	3499	Projected
15/01/2011 04:00:00	3492	Projected

31/03/2011

15/01/2011 05:00:00	3485	Projected
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15/01/2011 07:00:00	3470	Projected
15/01/2011 08:00:00	3463	Projected
15/01/2011 09:00:00	3455	Projected
15/01/2011 10:00:00	3448	Projected
15/01/2011 11:00:00	3440	Projected
15/01/2011 12:00:00	3432	Projected
15/01/2011 13:00:00	3425	Projected
15/01/2011 14:00:00	3417	Projected
15/01/2011 15:00:00	3409	Projected
15/01/2011 16:00:00	3401	Projected
15/01/2011 17:00:00	3393	Projected
15/01/2011 18:00:00	3385	Projected
15/01/2011 19:00:00	3377	Projected
15/01/2011 20:00:00	3369	Projected
15/01/2011 21:00:00	3360	Projected
15/01/2011 22:00:00	3352	Projected
15/01/2011 23:00:00	3344	Projected
16/01/2011 00:00:00	3336	Projected
16/01/2011 01:00:00	3327	Projected
16/01/2011 02:00:00	3319	Projected
16/01/2011 03:00:00	3310	Projected
16/01/2011 04:00:00	3302	Projected
16/01/2011 05:00:00	3293	Projected
16/01/2011 06:00:00	3285	Projected
16/01/2011 07:00:00	3276	Projected
16/01/2011 08:00:00	3268	Projected
16/01/2011 09:00:00	3259	Projected
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16/01/2011 11:00:00	3242	Projected
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17/01/2011 06:00:00	3061	Projected
17/01/2011 07:00:00	3049	Projected
17/01/2011 08:00:00	3037	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 05:49
To: [REDACTED] Paul Bird; Peter Allen;
 [REDACTED] Rohan Thorogood; 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox;
 Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Cas [REDACTED]; James
 [REDACTED] Robert McGlinn; Santina Pennisi; [REDACTED]
 [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan;
 Nev Ablitt; [REDACTED]
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Subject: 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.

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: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 05:54
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC 12/01/2011 5:51

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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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
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03/01/2011 09:00:00	50	Actual
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04/01/2011 04:00:00	50	Actual
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08/01/2011 08:00:00	956	Actual
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08/01/2011 13:00:00	1222	Actual

31/03/2011

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31/03/2011

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12/01/2011 23:00:00	2565	Projected

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14/01/2011 03:00:00	3429	Projected
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16/01/2011 20:00:00	3174	Projected
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17/01/2011 08:00:00	3050	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [redacted]
Sent: Wednesday, 12 January 2011 05:58
To: [redacted]
Subject: FW: River Levels at Mt Crosby Weir

FYI

Duty Engineer
 Flood Operations Centre

Phone [redacted]

Fax: [redacted]

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From: Duty Engineer [redacted]
Sent: Wednesday, 12 J
To: 'Brett Myatt'
Subject: RE: River Levels at Mt Crosby Weir

Thanks.

Duty Engineer
 Flood Operations Centre

Phone [redacted]

Fax: [redacted]

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From: Brett Myatt [redacted]
Sent: Wednesday, 1
To: Duty Seq
Subject: FW: River Levels at Mt Crosby Weir

12/1/2011

0430 25.4m

From: Brett Myatt
Sent: Wednesday, 12 January 2011 3:52 AM
To: Duty Seq
Subject: River Levels at Mt Crosby Weir

11/1/2011
 1845 21.6m
 1915 21.75m

31/03/2011

2000 22 m
2050 22.4m
2150 22.75m
2300 23.2m

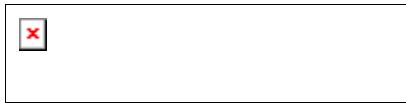
12/1/2011
0140 24.4
0245 24.8m
0340 25.1m

Regards
Brett

Brett Myatt

Manager Water Treatment Operations South

QLD Bulk Water Supply Authority trading as Seqwater



Level 3, 240 Margaret St, Brisbane City QLD 4000 Australia
PO Box 16146, City East QLD 4002
Website | www.seqwater.com.au

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31/03/2011

[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 07:36
To: [REDACTED]
Cc: [REDACTED]
Subject: Flow Gauging at Jindalee

Ali

I asked Paul to consider getting you guys to take a flow measurement at Jindalee during the next 24 hours. Best estimate is that the peak will be at Jindalee tonight around 10pm.

Terry Malone
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 07:57
To: 'Duty Engineer'; David Roberts; [REDACTED] Paul Bird; Peter Allen; [REDACTED] Rohan Thorogood; 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED] Al Navaruk; Bill Stephens; David [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
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: [REDACTED]

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31/03/2011

[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 08:00
To: 'Cameron Alasdair'
Cc: [REDACTED]
Subject: Flow Gauging at Jindalee

Ali

I asked Paul to consider getting you guys to take a flow measurement at Jindalee during the next 24 hours. Best estimate is that the peak will be at Jindalee tonight around 10pm.

Terry Malone
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 09:40
To: [REDACTED]
Subject: For your consideration

To achieve this result I've reduced the outflows from Wivenhoe by 0.15 (loss=0.15)

 LOWER BRISBANE RIVER
 LOWER BRISBANE RIVER (no forecast rainfall)
 RUN DATED: Wed Jan 12 2011 09:03
 FORECAST RUN FROM Sun Jan 02 2011 09:00
 DATA PARAMETERS : Locations = 18 Values = 407 Data Interval = 1.000 hours
 MODEL PARAMETERS: alpha = 0.1300 m = 0.80 beta = 3.000 IL = 10.0 CL = 2.00

LOCATION	Time of Peak	Peak Discharge cumecs	Peak Height metres	
WD_OUTFLOW	Tue Jan 11 2011 21:00	7416.00	N/A	*
OREILLYS_WEIR	Wed Jan 12 2011 05:00	3272.60	23.96	
L_PUMP_STN	Wed Jan 12 2011 03:00	8231.07	39.33	
SAVAGES_XING	Wed Jan 12 2011 04:00	8295.82	24.23	
BURTONS_BR	Wed Jan 12 2011 06:00	8380.03	25.14	
L_MANCHESTER	Tue Jan 11 2011 17:00	N/A	53.43	
L_MANCHESTER	Tue Jan 11 2011 17:00	390.76	53.45	
KHOLO_BR	Wed Jan 12 2011 09:00	8494.16	28.10	
MT_CROSBY_WEIR	Wed Jan 12 2011 11:00	8479.41	27.32	
COLLEGES_XING	Wed Jan 12 2011 11:00	8482.12	30.54	
WALLOON	Tue Jan 11 2011 22:00	1654.60	11.77	
AMBERLEY	Wed Jan 12 2011 07:00	757.57	9.09	
LOAMSIDE	Tue Jan 11 2011 21:00	170.11	7.67	
ONE_MILE_BR	Wed Jan 12 2011 00:00	2573.66	22.29	
HANCOCKS_BR	Wed Jan 12 2011 00:00	2600.05	20.05	
IPSWICH	Wed Jan 12 2011 15:00	2598.47	20.57	
MOGGILL	Wed Jan 12 2011 16:00	9563.23	20.01	
JINDALEE	Wed Jan 12 2011 19:00	9577.34	13.88	
BRISBANE	Thu Jan 13 2011 02:00	9556.60	5.23	*
BAR	Mon Jan 03 2011 09:00	N/A	2.45	*

Terry

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 15:18
To: 'Duty Engineer'; David Roberts; [REDACTED] Paul Bird; Peter Allen; [REDACTED] Rohan Thorogood; 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED] vid Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: [REDACTED]
Subject: 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 in 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: [REDACTED]

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31/03/2011

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 17:57
To: [REDACTED]
 'Armina Roberts (priv [REDACTED] Bird
 (Private)'; Peter A [REDACTED] rogood; [REDACTED] 'Tony
 Jacobs (private)'; [REDACTED] Al Navaruk; Bill S
 John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED]
 Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Cc: [REDACTED] 'Robert Drury'
Subject: 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 in 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 maintained at this level to drain the flood storage component within the required 7 days. The releases will not result in any renewed rises at downstream locations.

The combined flood event volume in Somerset and Wivenhoe Dams is estimated to be 2.6 million megalitres.

North Pine

At 17:00 North Pine Dam was 39.74 mAHD steady 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 Friday.

Strategy

The Flood Operations Centre is continuing to monitor rainfalls and water levels through the Brisbane and Pine catchments and reviewing operating strategy [regularly](#). The FOC is maintaining close contact with warning agencies and local councils.

The next report will be issued at 06:00 13 January 2011.

Regards

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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31/03/2011

From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 18:07
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Dam Projected Releases - 1800 at Wednesday 12 January 2011

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
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17:00:00	50	Actual
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18:00:00	50	Actual
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31/03/2011

12:00:00	50	Actual
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14:00:00	50	Actual
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31/03/2011

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31/03/2011

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14:00:00	50	Actual
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15:00:00	65	Actual
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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

31/03/2011

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
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12:00:00	1170	Actual
08/01/2011		
13:00:00	1222	Actual
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17:00:00	1276	Actual
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19:00:00	1276	Actual
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04:00:00	1321	Actual
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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

31/03/2011

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
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02:00:00	1558	Actual
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03:00:00	1625	Actual
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04:00:00	1693	Actual
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05:00:00	1763	Actual
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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

31/03/2011

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	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

31/03/2011

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
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31/03/2011

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15/01/2011

31/03/2011

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16/01/2011		
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31/03/2011

16/01/2011 20:00:00	3187	Projected
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16/01/2011 22:00:00	3169	Projected
16/01/2011 23:00:00	3160	Projected
17/01/2011 00:00:00	3150	Projected
17/01/2011 01:00:00	3140	Projected
17/01/2011 02:00:00	3130	Projected
17/01/2011 03:00:00	3119	Projected
17/01/2011 04:00:00	3109	Projected
17/01/2011 05:00:00	3098	Projected
17/01/2011 06:00:00	3086	Projected
17/01/2011 07:00:00	3074	Projected
17/01/2011 08:00:00	3062	Projected

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 12 January 2011 20:15
To: 'Duty Engineer'; [REDACTED] Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Wivenhoe Dam Projected Releases - 20:00 at Wednesday 12 January 2011

Wivenhoe Dam Actual and Projected Releases

12/01/2011

Source: Seqwater FOC 20:10

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
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17:00:00	50	Actual
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11:00:00	50	Actual
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03/01/2011		

31/03/2011

13:00:00	50	Actual
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31/03/2011

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06/01/2011

31/03/2011

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09/01/2011

31/03/2011

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31/03/2011

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07:00:00	3123	Actual
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12/01/2011		
09:00:00	2534	Actual

12/01/2011

31/03/2011

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12/01/2011		
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12/01/2011		
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12/01/2011		
14:00:00	2544	Actual
12/01/2011		
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12/01/2011		
16:00:00	2547	Actual
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17:00:00	2548	Actual
12/01/2011		
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13/01/2011		
21:00:00	2696	Projected

31/03/2011

13/01/2011		
22:00:00	2693	Projected
13/01/2011		
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23:00:00	3163	Projected
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07:00:00	2016	Projected

18/01/2011

31/03/2011

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18:00:00	0	Projected
19/01/2011		
19:00:00	0	Projected

31/03/2011

John Ruffini
Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 05:45
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul Bird (Private)'; Peter A [REDACTED] rogood; [REDACTED] 'Tony Jacobs (private)'; [REDACTED] avid Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: FOC 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 in 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: [REDACTED]

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31/03/2011

[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 06:09
To: [REDACTED]
Subject: Gauge Height Measurement

FYI

John Tibaldi waded into the Botanic Gardens this morning and measured the highest water level reached on the 1974 memorial as 1.4 metres below the top of the mark. This gives a peak of 4.05 m AHD.

All good news!

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 08:00
To: [REDACTED]
Subject: Brisbane City Staff Gauge Reading

John Ruffini and Rob Ayre have just taken a reading at the staff gauge at Thornton St 4.15m at 07:50 13/1/2011

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 11:14
To: [REDACTED] 'Flood Information Centre'; [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly;
[REDACTED] Murray Dunstan; Rob Gorian
Subject: Comms Restored

Comms has been restored in the FOC

Terry Malone

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 14:32
To: [REDACTED] 'Flood Information Centre'
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
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10:00:00	50	Actual
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08/01/2011

31/03/2011

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01:00:00	1272	Actual
09/01/2011		
02:00:00	1318	Actual
09/01/2011		
03:00:00	1318	Actual
09/01/2011		
04:00:00	1317	Actual
09/01/2011		
05:00:00	1369	Actual
09/01/2011		
06:00:00	1368	Actual
09/01/2011		
07:00:00	1368	Actual
09/01/2011		
08:00:00	1367	Actual
09/01/2011		
09:00:00	1366	Actual
09/01/2011		
10:00:00	1366	Actual
09/01/2011		
11:00:00	1366	Actual

31/03/2011

09/01/2011		
12:00:00	1419	Actual
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
10/01/2011		
00:00:00	1474	Actual
10/01/2011		
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

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31/03/2011

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
11/01/2011		
09:00:00	2996	Actual
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		
15:00:00	5097	Actual
11/01/2011		
16:00:00	5701	Actual
11/01/2011		
17:00:00	6330	Actual
11/01/2011		
18:00:00	6661	Actual
11/01/2011		
19:00:00	7339	Actual
11/01/2011		
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
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03:00:00	5427	Actual
12/01/2011		
04:00:00	4842	Actual
12/01/2011		
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07:00:00	3123	Actual
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08:00:00	2531	Actual
12/01/2011		
09:00:00	2534	Actual
12/01/2011		
10:00:00	2537	Actual

31/03/2011

12/01/2011		
11:00:00	2539	Actual
12/01/2011		
12:00:00	2541	Actual
12/01/2011		
13:00:00	2543	Actual
12/01/2011		
14:00:00	2544	Actual
12/01/2011		
15:00:00	2546	Actual
12/01/2011		
16:00:00	2547	Actual
12/01/2011		
17:00:00	2548	Actual
12/01/2011		
18:00:00	2548	Actual
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19:00:00	2549	Actual
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20:00:00	2549	Actual
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21:00:00	2549	Actual
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22:00:00	2549	Actual
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23:00:00	2549	Actual
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05:00:00	2545	Actual
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06:00:00	2544	Actual
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07:00:00	2543	Actual
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08:00:00	2542	Actual
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10:00:00	2539	Actual
13/01/2011		
11:00:00	2538	Actual
13/01/2011		
12:00:00	2537	Actual
13/01/2011		
13:00:00	2595	Actual
13/01/2011		
14:00:00	2654	Actual
13/01/2011		
15:00:00	2653	Projected
13/01/2011		
16:00:00	2772	Projected
13/01/2011		
17:00:00	2830	Projected
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18:00:00	2888	Projected
13/01/2011		
19:00:00	2944	Projected
13/01/2011		
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13/01/2011		
21:00:00	3057	Projected

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31/03/2011

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
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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	3487	Projected
14/01/2011		
06:00:00	3539	Projected
14/01/2011		
07:00:00	3590	Projected
14/01/2011		
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14/01/2011		
13:00:00	3609	Projected
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14:00:00	3602	Projected
14/01/2011		
15:00:00	3596	Projected
14/01/2011		
16:00:00	3589	Projected
14/01/2011		
17:00:00	3582	Projected
14/01/2011		
18:00:00	3575	Projected
14/01/2011		
19:00:00	3568	Projected
14/01/2011		
20:00:00	3561	Projected
14/01/2011		
21:00:00	3554	Projected
14/01/2011		
22:00:00	3547	Projected
14/01/2011		
23:00:00	3540	Projected
15/01/2011		
00:00:00	3532	Projected
15/01/2011		
01:00:00	3525	Projected
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02:00:00	3518	Projected
15/01/2011		
03:00:00	3510	Projected
15/01/2011		
04:00:00	3502	Projected
15/01/2011		
05:00:00	3495	Projected
15/01/2011		
06:00:00	3487	Projected
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07:00:00	3480	Projected
15/01/2011		
08:00:00	3472	Projected
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09:00:00	3464	Projected

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15/01/2011		
10:00:00	3456	Projected
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11:00:00	3448	Projected
15/01/2011		
12:00:00	3440	Projected
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13:00:00	3432	Projected
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14:00:00	3424	Projected
15/01/2011		
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15/01/2011		
16:00:00	3408	Projected
15/01/2011		
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19:00:00	3383	Projected
15/01/2011		
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15/01/2011		
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15/01/2011		
22:00:00	3358	Projected
15/01/2011		
23:00:00	3350	Projected
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00:00:00	3342	Projected
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12:00:00	3236	Projected
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16/01/2011		
14:00:00	3216	Projected
16/01/2011		
15:00:00	3205	Projected
16/01/2011		
16:00:00	3195	Projected
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

31/03/2011

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
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08:00:00	3006	Projected
17/01/2011		
09:00:00	2993	Projected
17/01/2011		
10:00:00	2980	Projected
17/01/2011		
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13:00:00	2940	Projected
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15:00:00	2914	Projected
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16:00:00	2857	Projected
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17:00:00	2802	Projected
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18:00:00	2662	Projected
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19:00:00	2565	Projected
17/01/2011		
20:00:00	2469	Projected
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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
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04:00:00	1835	Projected
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05:00:00	1787	Projected
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06:00:00	1694	Projected
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07:00:00	1642	Projected
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18/01/2011		
09:00:00	1497	Projected
18/01/2011		
10:00:00	1447	Projected
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13:00:00	1249	Projected
18/01/2011		
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15:00:00	1108	Projected
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18/01/2011		
17:00:00	1008	Projected
18/01/2011		
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00:00:00	516	Projected
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01:00:00	467	Projected
19/01/2011		
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04:00:00	283	Projected
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08:00:00	49	Projected
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09:00:00	0	Projected
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11:00:00	0	Projected
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12:00:00	0	Projected
19/01/2011		
13:00:00	0	Projected
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14:00:00	0	Projected
19/01/2011		
15:00:00	0	Projected
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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

31/03/2011

Duty Engineer
Flood Operations Centre

Phone

Fax:

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From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 18:43
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul
 [REDACTED] ob D (Private)'; Rohan
 [REDACTED] 'Tony Jacobs (private)' [REDACTED]
 [REDACTED] k; Mark Tan;
 [REDACTED] Glenn Patterson; [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis;
 Jayam Tennakoon; Matthew O'Reilly
Subject: Situation Report 1830 13 January 2011

Rainfall

There has been no significant rainfall in the last 12 hours and none is expected for the next 5 days.

Somerset/Wivenhoe

Somerset Dam peaked at 105.11 mAHD at 18:00 on Wednesday 12 January 2011. The current level is 103.60 mAHD and falling. Four sluices are open and the dam is currently discharging 1,528 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. Wivenhoe Dam was 74.5 mAHD at 18:00 and continuing to fall slowly.

The releases from Wivenhoe Dam are currently 2,888 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 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 18:00 North Pine Dam was 39.60 mAHD and falling with 5 gates open, releasing about 151 m3/s. 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.

All gates will be closed at 05:00 Friday to enable MMRC to consider reopening Youngs Crossing.

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 06:00 on Friday 14 January 2011.

Terry Malone
 Duty Engineer
 Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 20:22
To: [REDACTED] Doug Grigg; [REDACTED] ham
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive # 38 for Wivenhoe Dam at 20:15 on Thursday 13 January 2011
Attachments: OPS_Directive_Wivenhoe #38.doc

Please find attached a copy of Directive #38 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Thursday, 13 January 2011 20:32
To: [REDACTED] Doug Grigg; [REDACTED] am
[REDACTED]
[REDACTED]
Subject: Somerset Dam Directive # 11 at 20:30 on 13 January 2011
Attachments: OPS_Directive_Somerset #11.doc

Please find attached a copy of Directive # 11 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Friday, 14 January 2011 02:04
To: [REDACTED] Gle nn Patterson; [REDACTED] Murray
[REDACTED]
Subject: North Pine Dam Directive # 30 at 02:00 on Friday 14 January 2011
Attachments: OPS_Directive_NorthPine #30.doc

Please find attached Directive # 30 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Friday, 14 January 2011 05:35
To: 'Arminda Roberts (priv [REDACTED] Paul Bird; 'Paul Bird [REDACTED] 'Rob D (Private)'; Rohan Thorogood; [REDACTED] Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED] id Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] son; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: FOC Situation Report at 06:00 on Friday 14 January 2011

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 74.74.08 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: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Friday, 14 January 2011 05:45
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul Bird
 [REDACTED] 'Rob D (Private)'; Rohan Thorogood; [REDACTED]
 [REDACTED] 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig
 Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina
 Pennisi; [REDACTED] Pokarier; John
 [REDACTED]
 [REDACTED] Glenn Patterson;
 [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg;
 [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly

Subject: FOC Situation Report at 06:00 on Friday 14 January 2011

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: [REDACTED]

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31/03/2011

[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Friday, 14 January 2011 19:29
To: [REDACTED] Doug Gri [REDACTED] Graham Francis;
Jayam Tennakoon; Matthew O'Reilly; [REDACTED]
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive # 39

Please find attached a copy of Directive #39.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Friday, 14 January 2011 20:17
To: [REDACTED] Doug Grigg; [REDACTED] am
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive # 39
Attachments: OPS_Directive_Wivenhoe #39.doc

Please find attached a copy of Directive #39.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Saturday, 15 January 2011 02:06
To: [REDACTED] Doug Grigg; [REDACTED] Graham
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive #40
Attachments: OPS_Directive_Wivenhoe #40.doc

Please find attached a copy of Directive # [40](#).

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Saturday, 15 January 2011 06:36
To: 'Arminda Roberts (priv (Private)'; Peter Allen; [REDACTED] 'Rob D (Private)'; Rohan Thorogood; [REDACTED] 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; [REDACTED] ous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly

Subject: Situation Report 0630 Saturday 15 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 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: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Saturday, 15 January 2011 10:02
To: [REDACTED]
Subject: Brisbane R model

Any chance of pushing last Brisbane R model run to web-I'd like to compare flood vols. I will discuss prior to comment.

Terry

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Sunday, 16 January 2011 06:09
To: 'Duty Engineer'; 'Arminda Roberts (pri [REDACTED] Paul
 [REDACTED] 'Rob D (Private)'; Rohan Thorogood;
 [REDACTED] Tony Jacobs (private)'; Andy Bickerton; Deb Chandler;
 Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James
 Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; [REDACTED]
 [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev
 [REDACTED]
 [REDACTED] Murray
 Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam
 Tennakoon; Matthew O'Reilly
Subject: Situation Report 0600 Sunday 16 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 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: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 16 January 2011 06:51
To: [REDACTED]
Glenn [REDACTED]; Murray Dunstan; Rob Gorian; [REDACTED] Doug
Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: [REDACTED]
Subject: Message from the Senior Flood Operations Engineer

You, more than most, know the magnitude and severity of this current event. Our current preliminary assessment suggests that the rainfall totals and runoff volumes make this event larger than the January 1974 flood for the dams. It also approaches the magnitude of the 1893 event.

Certain elements of the media have made assertions about the adopted operational strategy which was used to manage it. It is unfortunate that these reports have removed the focus from the recovery effort.

I can assure you that the adopted strategy was performed in accordance with the Manuals of Operational Procedures and that the affected communities were afforded the highest level of protection available under the circumstances. The magnitude of the event meant that the security of the dams had to be considered in selecting the releases that were required.

You should all be proud of your efforts to date.

I also wish to remind you that we are still operational and will be until at least Wednesday. So let's finish the job in the same way we started.

Thanks and Regards

Rob Ayre, John Ruffini, John Tibaldi, and Terry Malone

Duty Engineers
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 16 January 2011 08:37
To: [REDACTED]
[REDACTED] Doug Grigg; [REDACTED] Graham
Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive # 45 at 08:30 on Sunday 16 January 2011
Attachments: OPS_Directive_Wivenhoe #45.doc

Please find attached Directive # 45 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 16 January 2011 12:16
To: [REDACTED]
[REDACTED] Doug Grigg; [REDACTED] Graham
Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive #46 at 12:15 on Sunday 16 January 2011
Attachments: OPS_Directive_Wivenhoe #46.doc

Please find attached a copy of Directive #46 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 16 January 2011 15:18
To: [REDACTED] Doug Grigg; [REDACTED] Graham
[REDACTED]
[REDACTED]
Subject: Wivenhoe Dam Directive # 47 at 15:15 on Sunday 16 January 2011
Attachments: OPS_Directive_Wivenhoe #47.doc

Please find attached a copy of Directive # 47 for your action

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Sunday, 16 January 2011 18:45
To: [REDACTED]
[REDACTED] Doug Grigg; [REDACTED] Graham
Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive # 48 at 18:45 on Sunday 16 January 2011
Attachments: OPS_Directive_Wivenhoe #48.doc

Please find attached Directive # 48 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Monday, 17 January 2011 16:56
To: 'Duty Engineer'; 'Arminda Roberts (priv [REDACTED]'; 'Paul [REDACTED]'; 'Rob D (Private)'; 'Rohan Thorogood'; [REDACTED]'; 'Tony Jacobs (private)'; 'Andy Bickerton'; 'Deb Chandler'; 'Mailbox'; 'Tony Trace'; 'Chris Lavin'; 'Craig Logan'; 'Don Carroll'; [REDACTED] on Centre'; 'James Charalambous'; 'Ken Morris'; 'Robert McGlinn'; 'Santina Pennisi'; [REDACTED] lerk'; 'Mark Tan'; [REDACTED]'; 'Glenn Patterson'; [REDACTED]'; 'Murray Dunstan'; 'Rob Gorian'; [REDACTED]'; 'Doug Grigg'; [REDACTED]'; 'Graham Francis'; 'Jayam Tennakoon'; 'Matthew O'Reilly'
Subject: Situation Report 1700 Monday 16 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 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: [REDACTED]

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31/03/2011

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 06:17
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul [REDACTED] b D (Private)'; Rohan Thorogood; [REDACTED] Tony Jacobs (private); Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; E [REDACTED] Centre'; James [REDACTED] Robert McGlinn; Santina Pennisi; [REDACTED]; Mark Tan; [REDACTED]; Glen [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; M [REDACTED]

Subject: Situation Report 0615 Tuesday 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.

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]

31/03/2011

Fax: 

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 08:20
To: [REDACTED] Doug Grigg; [REDACTED] Graham
Francis; Jayam Tennakoon; Matthew O'Reilly; [REDACTED]
[REDACTED]

Subject: Wivenhoe Dam Directive # 55 at 8:30 on Tuesday 18 January 2011

Attachments: OPS_Directive_Wivenhoe #55.doc

Please find attached Directive # 55 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 12:07
To: [REDACTED] Doug Grigg; [REDACTED] am
[REDACTED]
[REDACTED]
Subject: Wivenhoe Directive #56 at 12:15 on Tuesday 18 January 2011
Attachments: OPS_Directive_Wivenhoe #56.doc

Please find attached a copy of Directive #56 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 13:29
To: [REDACTED] Chris Lavin; Craig Logan; Do n Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and predicted Release - Wivenhoe Dam at 13:00 on Tuesday 18 January 2011

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		

31/03/2011

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		
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20/01/2011		
06:00:00	139	Projected
20/01/2011		
07:00:00	93	Projected
20/01/2011		
08:00:00	47	Projected
20/01/2011		
09:00:00	47	Projected

Duty Engineer
Flood Operations Centre

Phone 

Fax: 

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 15:03
To: [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive #57 at 15:15 on Tuesday 18 January 2011

Please find attached a copy of Directive # 57 for your action.

Regards

Rob Ayre

Duty Engineer
Flood Operations Centre

Phone: [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 17:40
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul Bird (Private)'; Peter Allen; [REDACTED] 'Rob D (Private)'; Rohan T [REDACTED] Tony Jacobs (private); [REDACTED] k; Mark Tan; [REDACTED] Glenn [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: FOC Situation Report at 18:00 on Tuesday 18 January 2011

Rainfall

Severe thunderstorms are passing over Wivenhoe, Somerset and North Pine Dams this afternoon. To 17:00 falls of 20 to 30 mm were 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

31/03/2011

Phone

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 20:42
To: [REDACTED]; Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive #58
Attachments: OPS_Directive_Wivenhoe #58.doc

Please find attached a copy of Directive # 58 for your action.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 21:38
To: [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive #59
Attachments: OPS_Directive_Wivenhoe #59.doc

Please find attached a copy of Directive # [59](#) for your action.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Tuesday, 18 January 2011 22:42
To: [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive #60
Attachments: OPS_Directive_Wivenhoe #60.doc

Please find attached a copy of Directive # [60](#) for your action.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 19 January 2011 05:28
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul [REDACTED] ob D (Private)'; Rohan T [REDACTED] 'Tony Jacobs (private)'; [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: FOC Situation Report at 06:00 on Wednesday 19 January 2011

Rainfall

Severe thunderstorms passed over the Wivenhoe, Somerset and North Pine dam catchments yesterday afternoon and evening. Falls of 20mm to 30mm were 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

Fax:

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Wednesday, 19 January 2011 05:29
To: [REDACTED] Doug Grigg;
[REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Wivenhoe Dam Directive #61
Attachments: OPS_Directive_Wivenhoe #61.doc

Please find attached a copy of Directive # 61 for your action.

John Tibaldi
Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Duty Engineer [REDACTED]
Sent: Wednesday, 19 January 2011 13:45
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul [REDACTED] ob D (Private)'; Rohan Thorogood; [REDACTED] 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James [REDACTED] Robert McGlinn; Santina Pennisi; [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Situation Report 1345 Wednesday 2011

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.

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 Thursday.

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: [REDACTED]

31/03/2011

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[REDACTED]

From: Duty Engineer [REDACTED]
Sent: Wednesday, 19 January 2011 13:51
To: David Roberts; [REDACTED]
[REDACTED] Paul Bird; 'Paul Bird (Private)'; Peter Allen;
[REDACTED] ogood;
[REDACTED] 'Tony Jacobs (private)'; Andy
[REDACTED] in; Craig Logan; Don Carroll;
Evan Caswell; 'Flood Infor
McGlinn; Santina Pennisi; [REDACTED] Al
[REDACTED] tt;
[REDACTED]
[REDACTED] Glenn Patterson;
[REDACTED] n; Rob Gorian; [REDACTED]
Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew
O'Reilly
Subject: Recall: Situation Report 1345 Wednesday 2011

Duty Engineer would like to recall the message, "Situation Report 1345 Wednesday 2011".

From: Duty Engineer [REDACTED]
Sent: Wednesday, 19 January 2011 13:57
To: 'Arminda Roberts (private)'; David Roberts; [REDACTED] Paul Bird; 'Paul Bird (Private)'; Peter Allen; [REDACTED] 'Rob D (Private)'; Rohan Thorogood; [REDACTED] 'Tony Jacobs (private)'; Andy Bickerton; Deb Chandler; Mailbox; Tony Trace; Chris Lavin; Craig Logan; Don Carroll; E [REDACTED] Centre'; James [REDACTED] Robert McGlinn; Santina Pennisi; [REDACTED] k; Mark Tan; Nev Ablitt; [REDACTED] Glenn Patterson; [REDACTED] Murray Dunstan; Rob Gorian; [REDACTED] Doug Grigg; [REDACTED] Graham Francis; Jayam Tennakoon; Matthew O'Reilly
Subject: Situation Report 1400 Wednesday 19 January 2011

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

A decision was made at 1900 Tuesday to drain the dam down to 39.40m AHD overnight to cater for the inflow resulting from Tuesday's storms and ensure that Youngs Crossing remains open during the day Wednesday. All gates were closed at 0500 Wednesday 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 Tuesday. The dam level was 99.00 m AHD at 0700 Wednesday 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 Wednesday, 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.

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 Thursday.

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]

31/03/2011

Fax: [REDACTED]

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  From	Subject	Received	 Si...	
Date: Older				
 Peter Baddiley	RE: SitRep Clarification [SEC=UNCLASSIFIED]	Fri 7/01/2011 20:57	4 KB	
 Peter Baddiley	RE: Actual and Projected Wivenhoe Releases [SEC=UNCLASSIFIED]	Sun 9/01/2011 21:08	6 KB	
  Peter Baddiley	URGENT ATTENTION: Helidon to Gatton FLASH FLOOD [SEC=UNCLASSIFI...	Mon 10/01/2011 17:31	223...	
 James Stuart	RE: For your consideration [SEC=UNCLASSIFIED]	Wed 12/01/2011 09:43	12 KB	
 James Stuart	RE: Brisbane R model [SEC=UNCLASSIFIED]	Sat 15/01/2011 11:45	4 KB	
 Peter Baddiley	Post-fitting to Brisbane River flood - estimation of peak flows [SEC=UNCLA...	Sun 16/01/2011 07:57	9 KB	
 Peter Baddiley	RE: FOC Situation Report at 06:00 on Wednesday 19 January 2011 [SEC=...	Wed 19/01/2011 05:42	12 KB	

[REDACTED]

From: Peter Baddiley
Sent: Friday, 7 Janua
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: SitRep Clarification [SEC=UNCLASSIFIED]

Thank you for advice. The protocol needs some tweaking. The Bureau is constantly being asked by BCC to approve information that they are proposing to release. My understanding is that there was an explicit intention not to have this occur ... that the technical staff would agree in principle & each agency would develop its own messages.

For further discussion when things quieten

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

[REDACTED]

EMAIL for flood matters: [REDACTED] WWW : www.bom.gov.au

From: Duty Engineer [REDACTED]
Sent: Friday, 7 Janu
To: [REDACTED]
Cc: [REDACTED]
Subject: SitRep Clarification

BCC pointed out that they have not done any analysis and do not necessarily agree with the 50 to 100mm but have accepted the BoM and Seqwater estimate.

Terry Malone

Duty Engineer
Flood Operations Centre

Phone: [REDACTED]

Fax: [REDACTED]

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[REDACTED]

From: Peter Baddiley
Sent: Sunday, 9 January 2011 21:08
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Actual and Projected Wivenhoe Releases [SEC=UNCLASSIFIED]

Tks Terry

I am just having a bit of look from home - getting interesting, so I will go to bed & sleep thru it :-)

Rainband doesn't look like going away anytime soon.

Jimmy will start at about 04-30 in the morning.

cheers, peter

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

EMAIL for flood matters: [REDACTED] WWW : www.bom.gov.au

From: Duty Engineer [REDACTED]
Sent: Sunday, 9 Janu
To: [REDACTED]; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC

9/01/2011 20:52

02/01/2011 09:00:00

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Actual

02/01/2011 10:00:00

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Actual

02/01/2011 11:00:00

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02/01/2011 12:00:00

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Duty Engineer
Flood Operations Centre

Phone:



Fax:

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[REDACTED]

From: Peter Baddiley
Sent: Sunday, 9 January 2011 21:08
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Actual and Projected Wivenhoe Releases [SEC=UNCLASSIFIED]

Tks Terry

I am just having a bit of look from home - getting interesting, so I will go to bed & sleep thru it :-)

Rainband doesn't look like going away anytime soon.

Jimmy will start at about 04-30 in the morning.

cheers, peter

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

EMAIL for flood matters: [REDACTED] WWW : www.bom.gov.au

From: Duty Engineer [REDACTED]
Sent: [REDACTED]
To: [REDACTED] Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi
Subject: Actual and Projected Wivenhoe Releases

Wivenhoe Dam Actual and Projected Releases

Source: Seqwater FOC

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Duty Engineer
Flood Operations Centre

Phone:



Fax:

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[REDACTED]

From: Peter Baddiley
Sent: Monday, 10 January 2011 17:32
To: [REDACTED]
Cc: [REDACTED] Rob Vertessy; Dasarath Jayasuriya; Jim Elliott; 'Duty Engineer'
Subject: URGENT ATTENTION: Helidon to Gatton FLASH FLOOD [SEC=UNCLASSIFIED]
Importance: High
Attachments: Helidon_to_Gatton map.jpg
Security Classification: UNCLASSIFIED

Serious flash flooding at Toowooba this afternoon - only seen images on tv !

Rapid rise in Lockyer Creek at Helidon between 2pm to 3pm; auto gauge indicates it rose about 8 metres. Accuracy unknown.

Flash flood arriving in Gatton area now. Has now risen 2 metres in one hour and continuing.

Helidon catchment area 440km²; Gatton catchment 1500 km² creek at Gatton is larger, so impact at Gatton should be less, but how high Gatton will get is UNKNOWN.

Highway is immediately downstream of Gatton need closing or Police attention.

Fast rises will extend along Lockyer Creek from Gatton to Glenore Grove/Lyons Bridge tonight - magnitude unknown at this stage but will model once we see Gatton rises.

Map attached.

See flash flood warning at http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDQ20780.html

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

[REDACTED]

EMAIL for flood matters: [REDACTED]
WWW : [www.bom.gov.a](http://www.bom.gov.au)

From: James Stuart
Sent: Wednesday, 12 January 2011 09:43
To: 'Duty Engineer'
Cc: Peter Baddiley
Subject: RE: For your consideration [SEC=UNCLASSIFIED]
Security Classification: UNCLASSIFIED

cheers, Terry! This was our latest - looks similar... Peak stage says higher though so we're running with that.

jimmy

 LOWER BRISBANE RIVER
 LOWER BRISBANE R (no forecast rainfall)
 RUN DATED:Wed Jan 12 09:22:49 2011
 FORECAST RUN FROM Sat Jan 1 09:00:00 2011 N/A
 DATA PARAMETERS : Locations = 16 Values = 877,528 Data Interval = 0.500 hours N/A
 MODEL PARAMETERS: alpha = 0.1400 m = 0.80 beta = 2.500 IL = 15.0 CL = 2.00

LOCATION	Time of Peak	Peak Discharge cumecs	Peak Height metres
UPPER	Tue Jan 11 21:00:00	7416.00	N/A
WIVENHOE	Tue Jan 11 21:00:00	7416.00	67.56
OREILLYS	Wed Jan 12 17:00:00	2221.10	16.90
LOWOOD	Tue Jan 11 21:00:00	9494.59	23.14
LOWOOD_A	Tue Jan 11 21:00:00	9494.59	23.46
SAVAGES	Wed Jan 12 01:30:00	8111.00	24.11
MT_CROSB	Wed Jan 12 09:00:00	8117.85	26.44
AMBER_TM	Wed Jan 12 08:00:00	810.32	9.25
WALLOON_	Tue Jan 11 20:00:00	1603.05	11.65
THREE_MI	Tue Jan 11 21:00:00	1612.73	22.16
LOAMSIDE	Tue Jan 11 18:30:00	133.68	7.53
ONE_MILE	Tue Jan 11 23:00:00	2489.04	21.96
HANCOCKS	Tue Jan 11 23:30:00	2509.10	19.66
IPSWICH	Wed Jan 12 10:00:00	2511.06	20.94
MOGGILL	Wed Jan 12 10:30:00	10277.39	20.28
JINDALEE	Wed Jan 12 21:00:00	10109.42	13.96
BRISBANE	Thu Jan 13 12:30:00	9681.31	5.21
BAR	Wed Jan 19 09:00:00	N/A	2.94

From: Duty Engineer [mai
Sent: Wednesday, 12 January 2011 9:40 AM
To:
Subject: For your consideration

To achieve this result I've reduced the outflows from Wivenhoe by 0.15 (loss=0.15)

 LOWER BRISBANE RIVER
 LOWER BRISBANE RIVER (no forecast rainfall)
 RUN DATED:Wed Jan 12 2011 09:03
 FORECAST RUN FROM Sun Jan 02 2011 09:00
 DATA PARAMETERS : Locations = 18 Values = 407 Data Interval = 1.000 hours
 MODEL PARAMETERS: alpha = 0.1300 m = 0.80 beta = 3.000 IL = 10.0 CL = 2.00

LOCATION	Time of Peak	Peak Discharge cumecs	Peak Height metres
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1/04/2011

WD_OUTFLOW	Tue	Jan	11	2011	21:00	7416.00	N/A	*
OREILLYS_WEIR	Wed	Jan	12	2011	05:00	3272.60	23.96	
L_PUMP_STN	Wed	Jan	12	2011	03:00	8231.07	39.33	
SAVAGES_XING	Wed	Jan	12	2011	04:00	8295.82	24.23	
BURTONS_BR	Wed	Jan	12	2011	06:00	8380.03	25.14	
L_MANCHESTER	Tue	Jan	11	2011	17:00	N/A	53.43	
L_MANCHESTER	Tue	Jan	11	2011	17:00	390.76	53.45	
KHOLO_BR	Wed	Jan	12	2011	09:00	8494.16	28.10	
MT_CROSBY_WEIR	Wed	Jan	12	2011	11:00	8479.41	27.32	
COLLEGES_XING	Wed	Jan	12	2011	11:00	8482.12	30.54	
WALLOON	Tue	Jan	11	2011	22:00	1654.60	11.77	
AMBERLEY	Wed	Jan	12	2011	07:00	757.57	9.09	
LOAMSIDE	Tue	Jan	11	2011	21:00	170.11	7.67	
ONE_MILE_BR	Wed	Jan	12	2011	00:00	2573.66	22.29	
HANCOCKS_BR	Wed	Jan	12	2011	00:00	2600.05	20.05	
IPSWICH	Wed	Jan	12	2011	15:00	2598.47	20.57	
MOGGILL	Wed	Jan	12	2011	16:00	9563.23	20.01	
JINDALEE	Wed	Jan	12	2011	19:00	9577.34	13.88	
BRISBANE	Thu	Jan	13	2011	02:00	9556.60	5.23	*
BAR	Mon	Jan	03	2011	09:00	N/A	2.45	*

Terry

[REDACTED]

From: James Stuart
Sent: Saturday, 15 January 2011 11:45
To: 'Duty Engineer'
Subject: RE: Brisbane R model [SEC=UNCLASSIFIED]
Security Classification: UNCLASSIFIED

All done Terry,

jimmy

From: Duty Engineer [ma [REDACTED]
Sent: Saturday, 15 January 2011 10:02 AM
To: [REDACTED]
Subject: Brisbane R model

Any chance of pushing last Brisbane R model run to web-I'd like to compare flood vols. I will discuss prior to comment.

Terry

Duty Engineer
Flood Operations Centre

Phone [REDACTED]

Fax: [REDACTED]

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From: Peter Baddiley
Sent: Sunday, 16 January 2011 07:57
To: 'Duty Engineer'; [REDACTED]
Subject: Post-fitting to Brisbane River flood - estimation of peak flows [SEC=UNCLASSIFIED]
Importance: High
Security Classification: UNCLASSIFIED

Terry, John and others

Hope this adds some value ... I think it is getting closer

Effectively a Muskingum channel routing model with timing adjusted to get a close? approximation to storage in play. Needs further refinemnt re hydrograph shapes etc but for a later time.

If we match (accept these hydrographs/ratings) on:

Rifle Range Road (my confidence is lowest here - but it is in the ballpark)
Wivenhoe releases (? others to say)
Walloon (confidence quite high - we have done a lot of modelling for this location over the years)
Amberley (confidence quite high - we have done a lot of modelling for this location over the years)

and, importantly, adjust channel routing such that timings of rises/peaks are fitting this 2011 flood

(this should get close to effect of storage, although other refinements involving shape fitting are required, which we had to do for the Balonne R model recently to good effect)

then the peak flows are modelled as in this table (but disregard peak heights as this now throws into question the accepted ratings to date):

```
-----
---
LOWER BRISBANE RIVER
LOWER BRISBANE R (no forecast rainfall)
RUN DATED:Sun Jan 16 07:35:56 2011
FORECAST RUN FROM Sat Jan 1 09:00:00 2011 N/A
DATA PARAMETERS : Locations = 16 Values = 1063,715 Data Interval = 0.500
hours N/A
MODEL PARAMETERS: alpha = 0.1300 m = 0.80 beta = 2.500 IL = 15.0 CL = 2.00
-----
```

```
---
LOCATION                Time of Peak          Peak Discharge
                        cumecs
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---
UPPER      Tue Jan 11 21:00:00      7342.00      N/A
WIVENHOE  Tue Jan 11 21:00:00      7342.00      67.17      N/A
OREILLYS  Tue Jan 11 15:00:00      2263.04      17.03      N/A
LOWOOD     Tue Jan 11 21:00:00      9347.46      23.03      Major
LOWOOD_A   Tue Jan 11 21:00:00      9347.46      23.33      Major
SAVAGES    Wed Jan 12 00:30:00      9651.43      25.65      Major
MT_CROSB   Wed Jan 12 09:30:00      9483.25      28.08      Major
AMBER_TM   Wed Jan 12 10:00:00      814.80       9.27      Major
WALLOON_   Tue Jan 11 19:00:00      1436.58      11.27      Major
THREE_MI   Tue Jan 11 21:00:00      1423.90      21.53      Major
LOAMSIDE   Tue Jan 11 18:30:00      133.64       7.53      Moderate
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ONE_MILE	Tue	Jan	11	23:00:00	2299.72	21.20	Major
HANCOCKS	Tue	Jan	11	23:30:00	2320.65	18.86	Major
IPSWICH	Wed	Jan	12	14:30:00	2323.09	21.47	Major
MOGGILL	Wed	Jan	12	15:00:00	10926.84	20.93	Major
JINDALEE	Wed	Jan	12	20:30:00	10850.33	14.76	Major
BRISBANE	Thu	Jan	13	01:30:00	10794.94	5.71	Major
BAR	Fri	Jan	21	11:00:00	N/A	3.03	

Just another input to the many others. No doubt we will work together on Brisbane R modelling & do a round with the BCC 2d inundation modelling.

regards, peter

Peter Baddiley

Regional Hydrology Manager

Climate & Water Division

Bureau of Meteorology

Level 21, 69 Ann Street

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Phone:

EMAIL

EMAIL for flood matters:

WWW : www.bom.gov.au

From: Peter Baddiley
Sent: Wednesday, 19 January 2011 05:42
To: 'Duty Engineer'
Subject: RE: FOC Situation Report at 06:00 on Wednesday 19 January 2011 [SEC=UNCLASSIFIED]
Security Classification: UNCLASSIFIED

Thanks JT hope you have had the best sleep

regards, peter

Peter Baddiley
Regional Hydrology Manager
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GPO Box 413, BRISBANE, QLD, AUSTRALIA 4001
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EMAIL: [REDACTED]
EMAIL for flood matters: [REDACTED]
WWW : www.bom.gov.au

From: Duty Engineer [ma [REDACTED]]
Sent: Wednesday, 19 January 2011 5:28 AM
To: 'Arminda Roberts (private)'; David Roberts; flood [REDACTED]; 'Paul Bird (Private)'; Peter Allen; rdru [REDACTED] ob D (Private)'; Rohan Thorogood; s [REDACTED] y Jacobs (private)'; K [REDACTED] Al Navaruk; Bill Stephens; David Pokarier; John West; Lou van Blerk; Mark Tan; Nev Ablitt; j [REDACTED] Glenn Patterson; ml [REDACTED] Dunstan; R [REDACTED] ob Gorian; [REDACTED] g Grigg; [REDACTED] Francis; Jayam Tenn [REDACTED] akoon; Matthew O'Reilly
Cc: Andy Bickerton; Deb Chandler; Mailbox; Chris Lavin; Craig Logan; Don Carroll; Evan Caswell; 'Flood Information Centre'; James Charalambous; Ken Morris; Robert McGlinn; Santina Pennisi; Tony Trace
Subject: FOC Situation Report at 06:00 on Wednesday 19 January 2011

Rainfall

Severe thunderstorms passed over the Wivenhoe, Somerset and North Pine dam catchments yesterday afternoon and evening. Falls of 20mm to 30mm were 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

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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: 

Fax: 

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