

Queensland Floods Commission of Inquiry**Technical Report on the December
2010 and January 2011 Flooding within
Western Downs Regional Council**

Prepared for Local Government Association of
Queensland Ltd

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Queensland Floods Commission of Inquiry

Technical Report on the December 2010 and January 2011 Flooding within Western Downs Regional Council

Prepared for Local Government Association of Queensland Ltd

April 2011

Prepared For: Local Government Association of Queensland Limited

Prepared By: BMT WBM Pty Ltd (Member of the BMT group of companies)

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GLOSSARY

ARI	Average Recurrence Interval is the measure of the rarity of the event; it is the estimate of the interval of time between events. For a 100 year ARI event, there is a 1% chance that this event can occur in any given year. However it should be noted that planning for a 1 in 100 ARI event does not guarantee immunity for the next 100 years.
backwater effect	The effect which an obstruction has in raising the surface water upstream of it.
catchment	The catchment at a particular point is the area of land that drains to that point.
design flood	The hypothetical flood used for planning and floodplain management investigations. It is defined by the probability of its occurrence and represents a flood which has a particular chance of happening in any year.
hydrograph	A graph showing how a river or creek's discharge changes with time.
probable maximum flood (PMF)	An extreme flood deemed to be the maximum flood likely to occur.
runoff	The amount of rainfall from a catchment that actually ends up as flowing water in the river or creek.
stream gauge	A site along a stream where measurements of water surface elevation and or volumetric discharge (flow) are made.
velocity	The speed at which the flood waters are moving. Typically, modelled velocities in a river or creek are quoted as the depth and width averaged velocity, i.e. the average velocity across the whole river or creek section.

1 INTRODUCTION

1.1 Purpose of the Report

BMT WBM Pty Ltd was commissioned by LGAQ on behalf of Western Downs Regional Council (WDRC) to provide expert advice on flooding in relation to flooding which took place across the area in December 2010 and January 2011. This technical report provides information on:

- details of what occurred in the floods;
- previous flood studies carried out in the catchment;
- flood warning and emergency management effectiveness.

The report examines three distinct areas within the WDRC area; Dalby, Chinchilla and Condamine and considers the series of flood events which occurred during the period of December 2010 to January 2011.

The Report is being specifically prepared to assist the Queensland Floods Commission of Inquiry.

The Report has been prepared by Neil Collins, Principal Hydraulic Engineer with BMT WBM Pty Ltd, a firm of specialist water and environmental professionals. Neil specialises in water, in particular, flooding and stormwater management. A copy of Neil's CV is included as Appendix A to this Report. Neil has been assisted by senior BMT WBM staff, including Flood Group Manager, Jo Tinnion.

In preparing this report, key BMT WBM staff have drawn upon a range of technical sources and have visited the affected area.

1.2 Structure of the Report

The report is structured into the following remaining sections:

- Section 2 provides background information on the affected towns, including historical floods and gives details of rainfall events leading up to the flood events;
- Section 3 presents an analysis of the rainfall and resulting floods;
- Section 4 summaries previous flood investigations within the WDRC area;
- Section 5 summaries flood warnings; and
- Section 6 provides a summary of findings.

2 BACKGROUND

2.1 Catchment and Creek Description

Western Downs Regional Council covers an area of around 38,000km² and has a population of 30,000. Dalby is the principal town in the district with a population of 12,000. Other main towns include Chinchilla and Condamine. The region has large reserves of coal and gas and also has one of the largest regional industrial and agricultural manufacturing sectors. Several major flooding events occurred across the area from the period of 20 December 2010 to 17 January 2011.

The region falls within the wider catchment area of the Murray/Darling basin and is shown in Figure 2-1. The key and notable watercourses that flow within Councils area are:

- Myall Creek (Dalby)
- Condamine River

Myall Creek

The catchment area of Myall Creek is approximately 1,375km² and extends from the Great Dividing Range towards Dalby and eventually joining the Condamine River west of Dalby. Myall Creek drains the south west facing slopes of the Great Dividing Range and the Bunya Range. The catchment is characterised by a steep upper catchment, with the town of Dalby located on the lower catchment which is characterised by a very low grade slope. Dalby lies in the floodplain of the Myall Creek.

Condamine River

The catchment of the Condamine River extends from the Border Ranges near Killarney through to Chinchilla and is approximately 500km long and has an area of approximately 2.75 million hectares. The Condamine is a tributary of the Darling River and is one of the most important rivers in Queensland in terms of agriculture. Tributaries of the Condamine River flow through relatively narrow valleys at the headwaters, with a gradual broadening to wide alluvial plains near the Condamine River. These tributaries include Myall Creek and Charley's Creek.

2.2 Historic Flooding

Dalby

The town of Dalby dates back to the early 1840s from a place known locally as the "The Crossing" on Myall Creek. The arrival of the railway in 1868 ensured that the area progressively developed. The town is located in an area of fertile volcanic soil and is surrounded by fields growing a variety of crops. The entire town lies in the floodplain of the Myall Creek and has been subject to multiple flood events in the past. Records indicate nine major floods have occurred in the catchment prior to the events in December 2010 and January 2011, the largest occurring during 1981. The 1981 flood rose to a height of 4.50m on the flood gauge at Patrick Street, resulting in 700 homes and 140 businesses being inundated and damage to 25,000 ha of agricultural land.

Chinchilla and Condamine town

The area around Chinchilla was first explored in 1827 but it wasn't until the 1848 that it was settled with the establishment of Chinchilla Station. The railway arrived in 1878 making Chinchilla an important depot. The highest recorded flood in the town was in 1942, with a level of 7.95m and in 1983 the flood level was recorded as 6.75m. Charley's Creek flows through Chinchilla to the Condamine River.

In 1827 first European's passed through the Condamine area. Following this, the town of Condamine developed on the banks of the Condamine River as a stopping place for the teams which moved through the area on their way to the larger centres of Roma and Longreach.

Table 2-1 summarises previous flood events prior to December 2010 for locations along the Condamine River from between Dalby and Condamine. Figure 2-2 indicates the locations of the various gauges (both river gauges and rainfall gauges).

Table 2-1 Summary of Condamine River Flood History gauge height in metres.

River Height Station	Feb 1942	Jan/Feb 1956	Feb 1976	May 1983	May 1996	Feb 2001	Jan 2004
Loudoun Bridge (Dalby)	-	10.67	10.89	10.28	10.32	-	8.40
Chinchilla Weir	-	13.87	13.90	13.51	13.32	3.44	7.41
Condamine Town	14.25	14.14	12.74	14.05	13.40	3.60	5.20

Data sourced from BoM

Figure 2-3 contains extracts from the flood warning systems in place for Myall Creek and the Condamine River at Condamine. They indicate all the previous floods, their maximum gauge height and classify them according to minor, moderate and major. For Myall Creek any flood with a gauge height at the Patrick Street gauge greater than 3.5m is classified as major. At the Condamine gauge, any flood exceeding a gauge height of 8m is classified as major.

2.3 Antecedent Conditions

In 2010 Queensland experienced substantial rainfall including the wettest December on record. This was in large part due to the influence of a strong La Niña event. Previous strong La Niña events such as those of 1974 and 1955 were associated with widespread and severe flooding.

In December 2010 south east Queensland in particular received rainfall totals significantly above the December average. Figure 2-2 illustrates the locations of the rain gauges and Figures 2-4 and 2-5 show the above average rainfall for the Dalby and Chinchilla areas respectively. In addition to the plots of the December and January daily rainfall totals, Figures 2-4 and 2-5 also present a comparison of December 2010 totals to the long term December average total. It can clearly be seen that the totals recorded in December 2010 were very significant and they resulted in saturated catchments and flooding. Of particular note are the daily totals recorded on 27 and 28 December which resulted in flooding. The Western Downs LGA had been activated as a Disaster Area since September 2010.

3 DECEMBER 2010 AND JANUARY 2011 FLOOD ANALYSES

There were several localities within the WDRC boundaries that experienced flood events during the period of December 2010 and January 2011 resulting in approximately 220 homes and nearly 90 businesses being flooded. The three principal towns impacted by the flooding events of Dalby, Chinchilla and Condamine are described below. The events have been classified using the system described in Figure 2-3 from BoM's flood warning systems.

3.1 Dalby Floods

The town of Dalby was subject to several flood events from December 2010 and January 2011. The event on 11 January 2011 was severe and was the third highest flood on record in Dalby (the highest being in 1981). On each occasion the flooding was due to Myall Creek rather than backwater flooding from the Condamine River. In each event the timing of the flood peak and the area inundated, were different. Figures 3-1 to 3-3 illustrate three hydrographs for the Patrick Street gauge for the three most significant flood events affecting Dalby in December 2010 and January 2011.

Event 1

The Myall Creek catchment experienced a series of minor events preceding a *moderate* flood event of 2.94m on 20 December 2010. These minor to moderate events resulted in several road closures and some property inundations from the creek as well as stormwater surcharging in varying degrees. Figure 3-1 shows the hydrograph for this event. As can be seen the flood waters rose steadily over 24 hours, peaking and remaining at or around the peak for around 12 hours before receding and the creek returning it is "normal" level of 0.18m.

Event 2

In the lead up to Christmas more rain fell and the creek rose again causing more significant flooding occurred on 27 December 2010, reaching a height of 3.54m. This level is classified as *major* in terms of previous records for Dalby. This event also caused a greater number of properties to be affected in the north west of Dalby which had previously only experienced minor disruptions due to floodway road closures. The water in the north west area of town peaked several hours before the recorded peak and was sustained for much of this event. The hydrograph presented in Figure 3-2 shows the floodwaters rising and peaking, remaining at peak for around 8 hours before retreating.

28 December 2010 to 9 January 2011 there were further minor to moderate events. Most notable during this time was the fact that the Condamine River rose to such a level that Dalby's water treatment plant was inundated by floodwaters on 28 December 2010. The town was put on Level 6 water restrictions and water had to be brought in by road to supplement supplies. The water treatment plant did not return to full operations until after 15 January 2011.

Event 3

The 10 January 2011 event was recorded as 3.74m, the third highest recorded flood event since records began and was classified as *major*. The north west area rose to a lesser height than what was experienced on 27 December and this time peaked several hours after the recorded peak. The flood hydrograph for this event in Figure 3-3. The hydrograph indicates that the flood waters rose

steadily over 24 hours, peaking at 3.74m around 5pm on 10 January. This event was made even more significant by the second peak of 3.49m which occurred on the 12 January 2011 at 3.30am. The extent of the flooding in this event broadly matched the 100 year ARI outline produced in the Myall Creek Flood Study (SKM, 2007).

In total over 90 residential properties were inundated and more than a dozen businesses flooded.

3.2 Chinchilla Floods

There were two separate flood events that impacted Chinchilla, one on the 28 December 2010, where the gauge height at Charley's Creek bridge measured 7.25m with 50 homes being inundated and the second on 12 January 2011 where the gauge height recorded was 7.45m. These events are the second and third highest flood levels recorded in Chinchilla's history. Over 50 homes were flooded and 71 businesses as a result of the two flood events in Chinchilla.

3.3 Condamine Floods

Condamine Town was affected by two flood events. The first of 1 January 2011 resulted in the entire town being evacuated by helicopter before the flood waters from the Condamine River encircled the town. 42 homes and 12 businesses were inundated. The peak flood height recorded on 1 January was 15.25m measured at the Condamine gauge which represents the highest recorded level ever.

The second flood event occurred on 16 January 2011. The Condamine River rose to 14.67m, the second highest recorded level ever, resulting in 12 homes and seven businesses being flooded.

4 PREVIOUS INVESTIGATIONS

A number of previous investigations have been carried out in the past and the key studies are summarised below.

Myall Creek Flood Study, Dalby (2007)

This study assessed areas at risk of flood inundation in Dalby both from Myall Creek and the Condamine River. It identified depths, velocities and flood hazards for flood events in Dalby, including the 100 year ARI flood and the probable maximum flood. This study was used to derive the design flood level for planning purposes within Dalby. The study calculated that the flood event in 1981 which resulted in a peak flood level of 4.5m at the Patrick Street gauge represented a 350 year ARI event.

Myall Creek at Dalby: Flood Impact Assessment, Proposed Redevelopment of Dalby Central Shopping Centre (2004)

This study assessed the potential change in flooding in Myall Creek in response to the proposed redevelopment of the Dalby shopping area.

Dalby Flood Mitigation Update Study (2002)

This study was an update of the Dalby Region Flood Management Study (1987) which examined floodplain management measures and developments in the floodplain and recommended a program of short and long term proposals which conform to an overall floodplain management policy. The 2002 study, based on previous analysis, updated the 1987 study.

To put these studies into context, requirements under the Planning Scheme are discussed as follows. The Dalby Planning Scheme utilises the 100 year flood level plus an additional 300mm freeboard for the habitable level of houses.

Within Chinchilla and Condamine, no flood studies exist at present. There is a program of flood analyses currently underway to determine the defined flood event (100 year ARI)). Until that is completed, current guidance is based on the 1942 flood level plus 300mm for both Chinchilla and Condamine

5 FLOOD WARNINGS

In order for flood warnings to be effective, they must be issued sufficiently early so that appropriate authorities can make informed decisions as to appropriate actions or emergency responses to take place. There will be a delay between the warning being initiated and it being received by the emergency responders and the general public. It is generally understood that for flood warnings and any associated response to be effective, a minimum of two hours lead time is needed. Research has shown that up to six hours is optimal.

The Bureau of Meteorology (BoM) provides a Flood Warning Service Program for most major river systems in Australia. This service is provided in cooperation with SES, water agencies and local Councils. The Bureau delivers this service through Flood Warning Centres and Regional Forecasting Centres in Bureau Regional Offices in each State.

5.1 Flood Warnings for Dalby

A flood warning system is operated by the BoM and WDRC for the Myall Creek catchment that is based on rainfall and river height observations from an established network. The network consists mainly of automatic telemetry stations as well as volunteer rainfall and river height observers. The automatic network sends data directly to a base station located in WDRC's offices in Dalby. The BoM issue flood warnings and river height bulletins whenever the creek height is expected to exceed the minor flood level at Dalby which is above 2.0m.

As can be seen from the hydrographs presented in Figure 3-1 to Figure 3-3, the Myall Creek is a slow responding catchment that, combined with the extensive network of telemetry and volunteers, enables flood warnings to be issued in sufficient time for Council, the SES and public to take appropriate action.

During the first event in December, the flood warning was issued by BoM 4.5 hours before the peak occurred on the 20 December. The initial flood warning stated level at the Patrick Street gauge of 3.0m and the actual peak gauge height was 2.94m. The flood warning was later escalated to 3.5m although, ultimately, that level was not reached.

Similarly, during the second event in December, the flood warning was issued by BoM 15.5 hours before the peak. The level in the warning was 2.5m, which was later escalated to >3m 11 hours before the peak, and again to 4m five hours before the peak, with the actual measured peak being 3.54m.

The flood warning for the event that occurred on 9 January was issued 19.5 hours before the peak, with no specific level provided. The actual measured peak was 3.74m.

In addition, there are a series of gauge boards placed strategically around Dalby. In particular, these are located close to the creek so that once flood warnings are issued, the public are able to interpret the data and determine the impact on their property.

As a result of the flood warning systems in place for Dalby, people were warned in sufficient time. There was no loss of life in Dalby.

Appendix B contains copies of Media Alerts issued by Western Downs Regional Council issued for the flooding in Dalby and the wider Western Downs area. These Media Alerts were typically issued within an hour of the flood warnings being issued by BoM.

A number of SMS alerts were also issued.

5.2 Flood Warnings for Chinchilla and Condamine

The flood warning system for the Condamine River to Cotswold is operated by BoM and is based on a network of rainfall and river height observations. Flood warnings are issued whenever river heights are expected to reach minor flood levels within Condamine town. The minor flood level is above 5.0m at the Condamine gauge.

The entire population of Condamine was evacuated by 30 December 2010 based on the predictions and flood warnings that BoM were able to give in anticipation of the first event which peaked on 1 January 2011. In addition, the town was evacuated again on the 13 January in anticipation of the predicted flood height of 14.8m. The actual flood height recorded at the peak was 14.67m.

There are no automatic telemetry stations for Charley's Creek. Data is gathered by a team of volunteers and relayed to BoM to assist with the issuing of flood warnings to Chinchilla. During the flood events described in this report, the data was gathered in sufficient time to warn the residents of the town of the possible need to evacuate. The police issued a media release urging residents of Chinchilla to evacuate as a result of the flood warning predictions made two days before the event on 12 January 2011.

Media alerts were also issued by Western Downs Regional Council as well as SMS alerts to residents, including those of Chinchilla on 10 January in relation to evacuation. Copies of these alerts are included in Appendix B.

As a result of the flood warning systems in place for Chinchilla and Condamine, evacuations were planned and executed effectively, people were warned in sufficient time and there was no loss of life in either town.

6 SUMMARY OF FINDINGS

In summary, our investigation has found the following:

- Significant flooding at Dalby occurred on 20, 27 December and 10 January. Two of the floods were categorised as major under the flood warning system. The event on 10 January was the third highest ever recorded. This flood appears to be equivalent to an ARI 100 year event.
- Significant flooding in Chinchilla occurred on 28 December and 12 January. These events were the second and third highest flooding events recorded at Chinchilla.
- Significant flooding in Condamine town occurred on 1 and 16 January. The event on 1 January was the highest recorded flood level ever.
- Evacuations were undertaken for the entire population of Condamine during both flood events.
- Due to available flood warning time and the systems in place, evacuations were carried out and there was no loss of life as a result of flooding within the three communities.

7 REFERENCES

SKM 2007, Myall Creek Flood Study, Dalby, prepared for Dalby Town Council

Chronicle 2011, The 2010-2011 Flood Crisis Special Commemorative Publication, February 2011

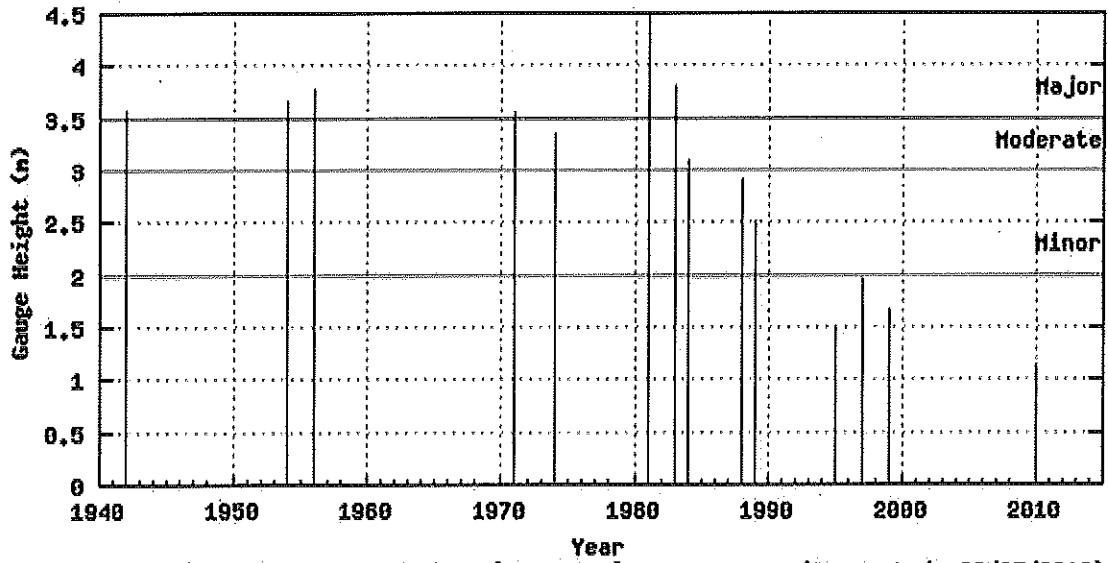
BOM, Flood Warning System for Myall Creek to Dalby

BOM, Flood Warning System for the Condamine River to Cotswold

WDRC 2010, Myall Creek Flood Alert System, Response Manual, Draft A

8 FIGURES

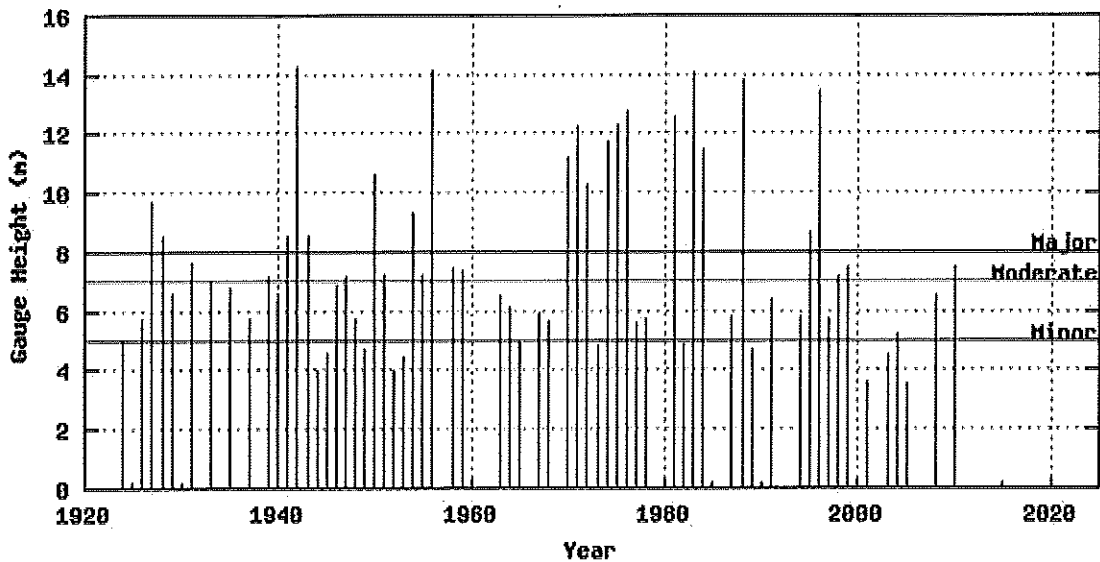
**Myall Ck at Dalby
Highest Annual Flood Peaks**



Australian Government Bureau of Meteorology

(Generated: 28/05/2010)

**Condamine R at Condamine
Highest Annual Flood Peaks**



Australian Government Bureau of Meteorology

(Generated: 28/05/2010)

Title:
Flood Warning Systems

Figure:
2-3

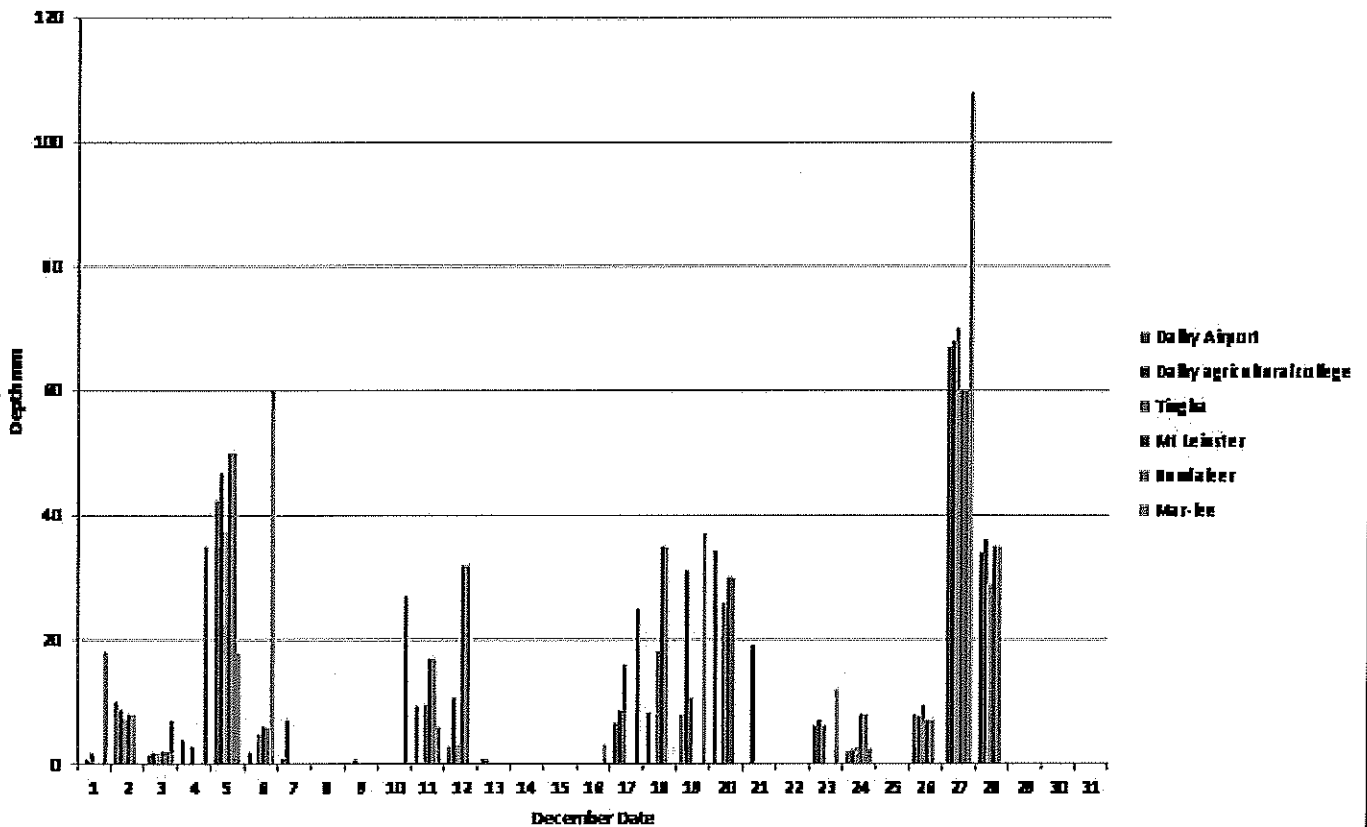
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Dalby - December 2010 Daily Rainfall



Title:

Dalby Daily Rainfall: December 2010

Figure:

2-4a

Rev:

A

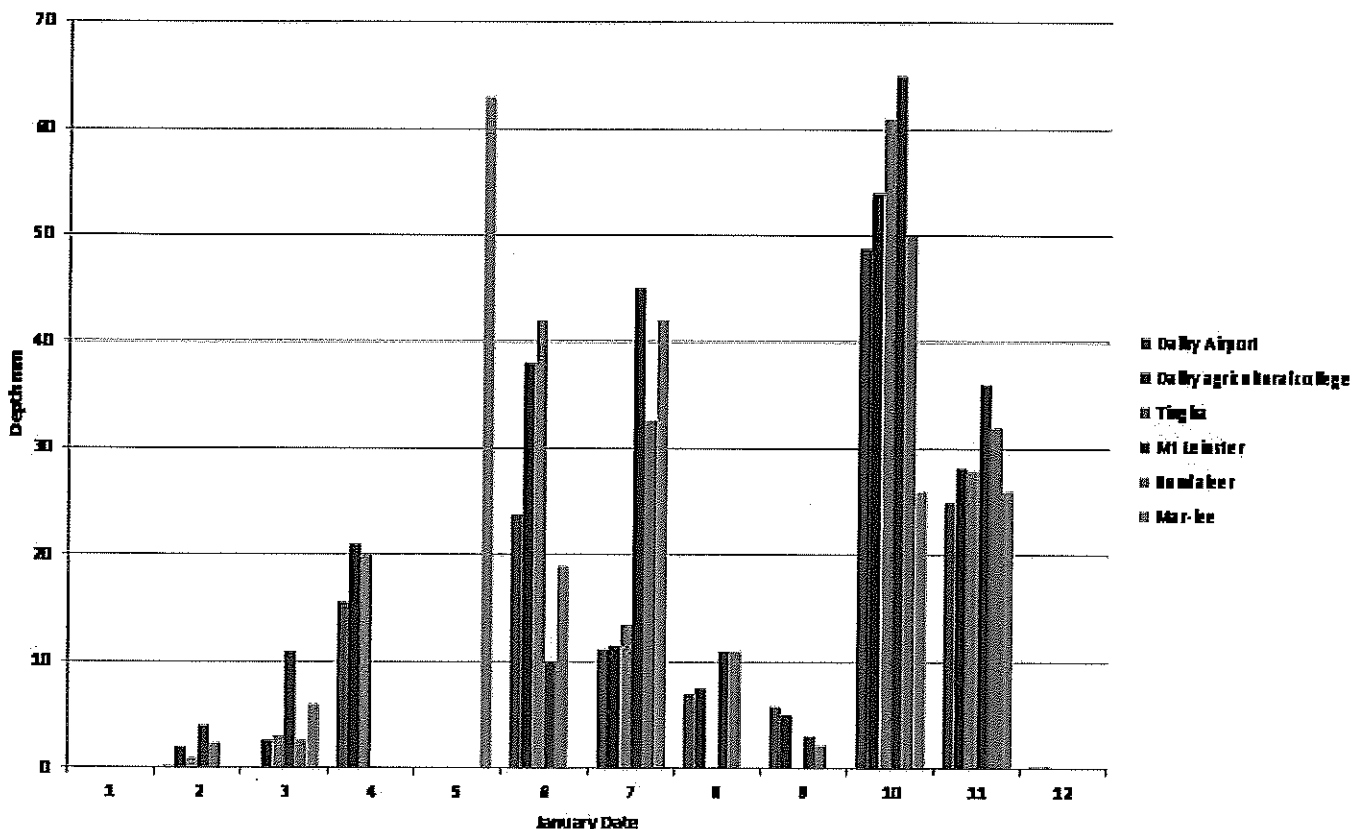
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Dalby - January 2011 Daily Rainfall



Title:

Dalby Daily Rainfall: January 2011

Figure:

2-4b

Rev:

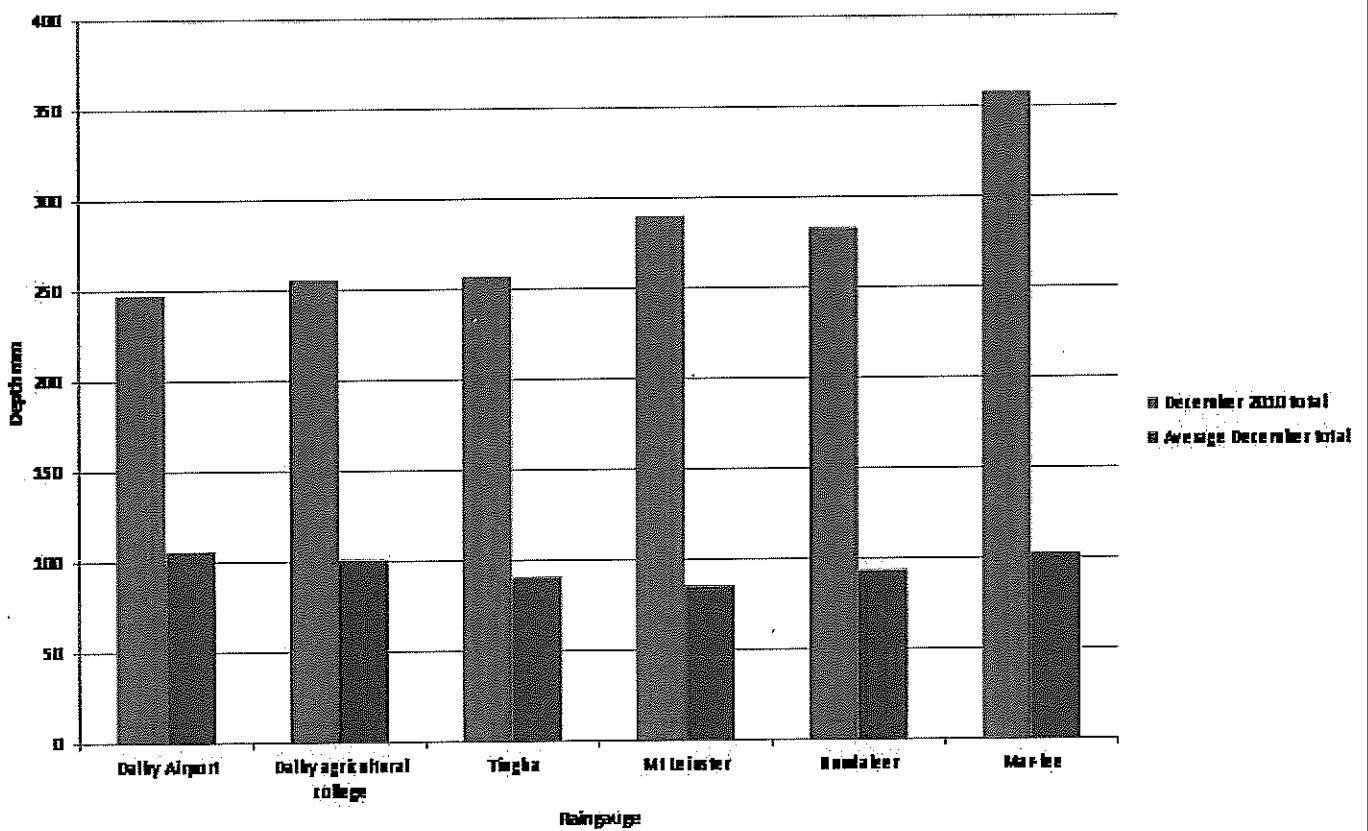
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Dalby - December 2010 daily rainfall totals



Title:

Dalby Daily Rainfall Totals: December 2010

Figure:

2-4c

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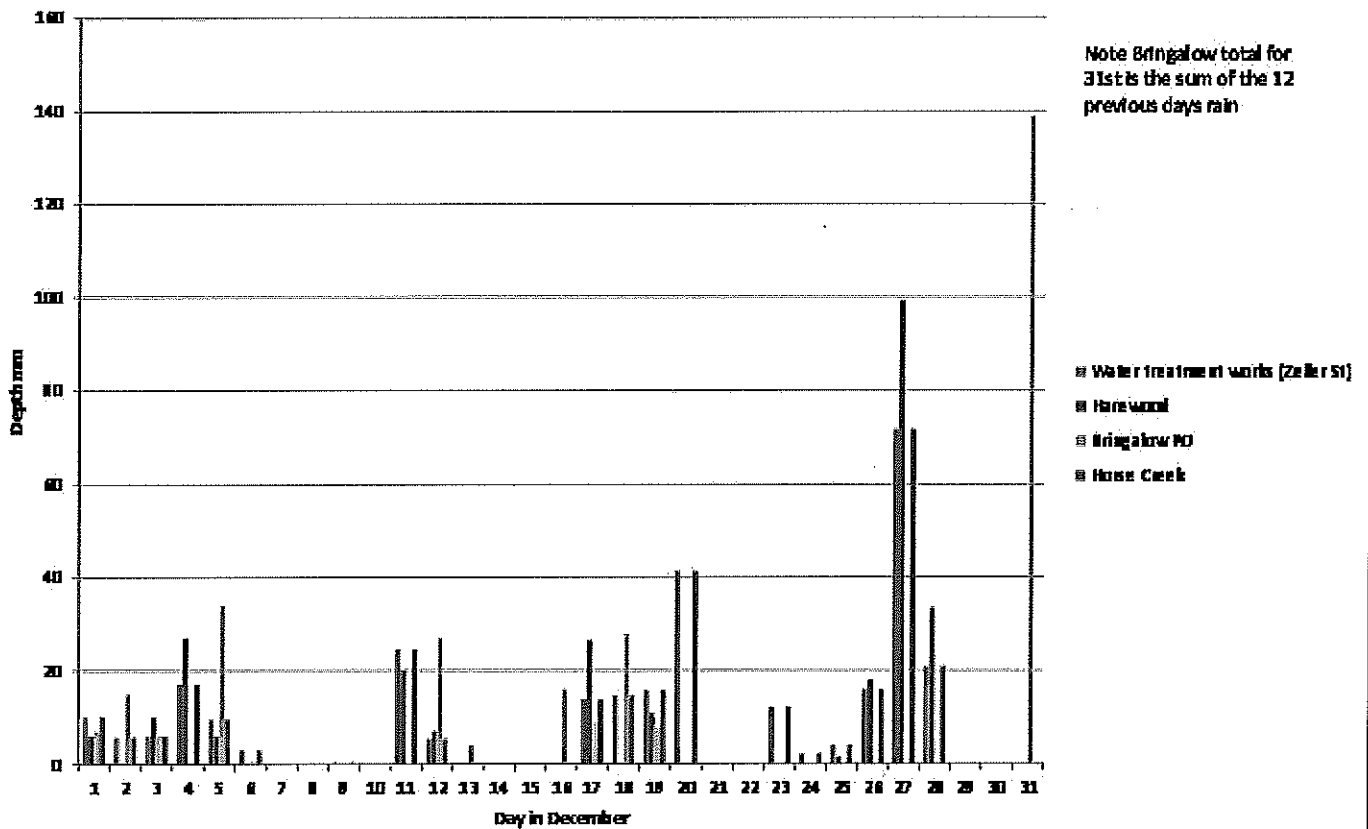
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Chinchilla - December 2010 daily rainfall



Note Bringalow total for 31st is the sum of the 12 previous days rain

- Water treatment works (Zeller St)
- Horsewood
- Bringalow PD
- Horse Creek

Title:

Chinchilla Daily Rainfall: December 2010

Figure:

2-5a

Rev:

A

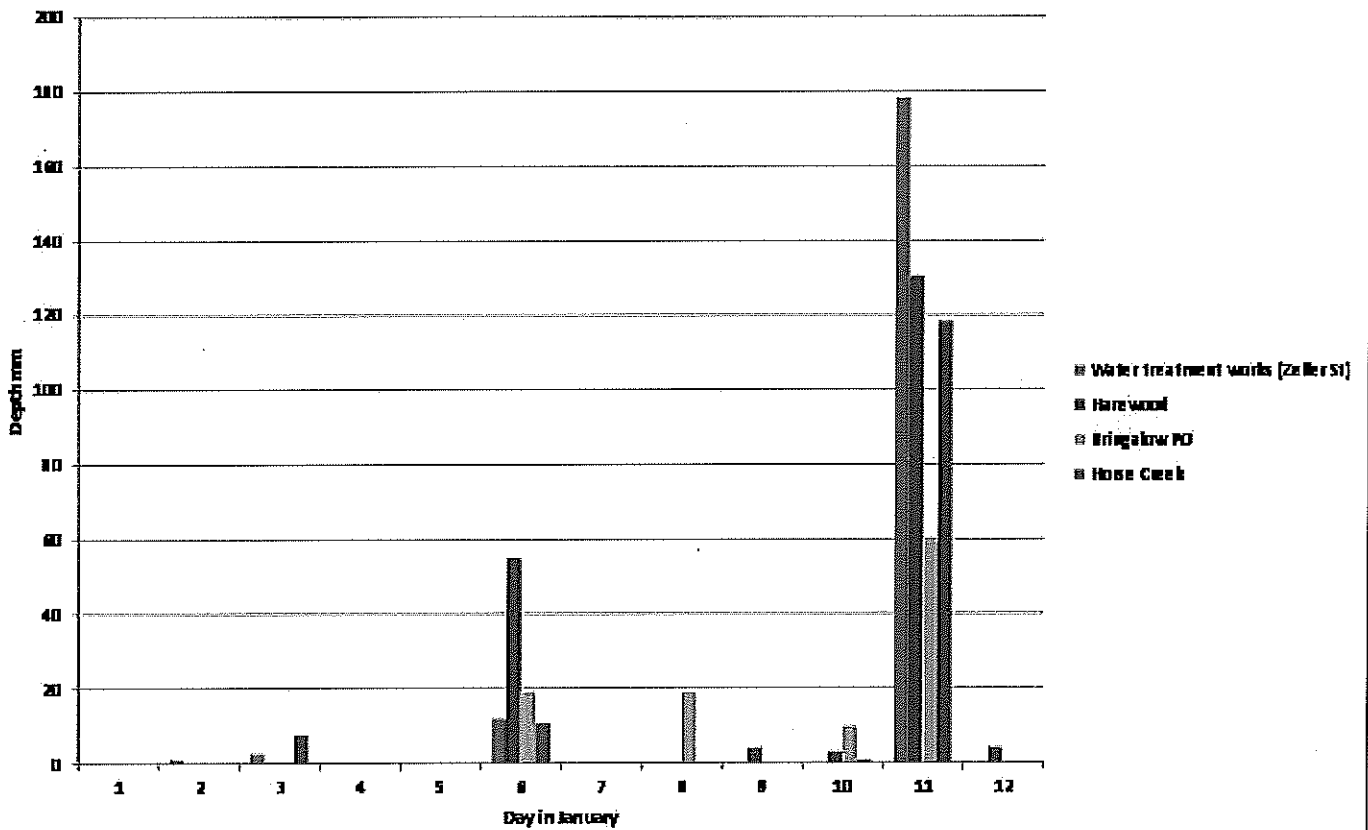
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Chinchilla - January 2011 daily rainfall



Title:

Chinchilla Daily Rainfall: January 2011

Figure:

2-5b

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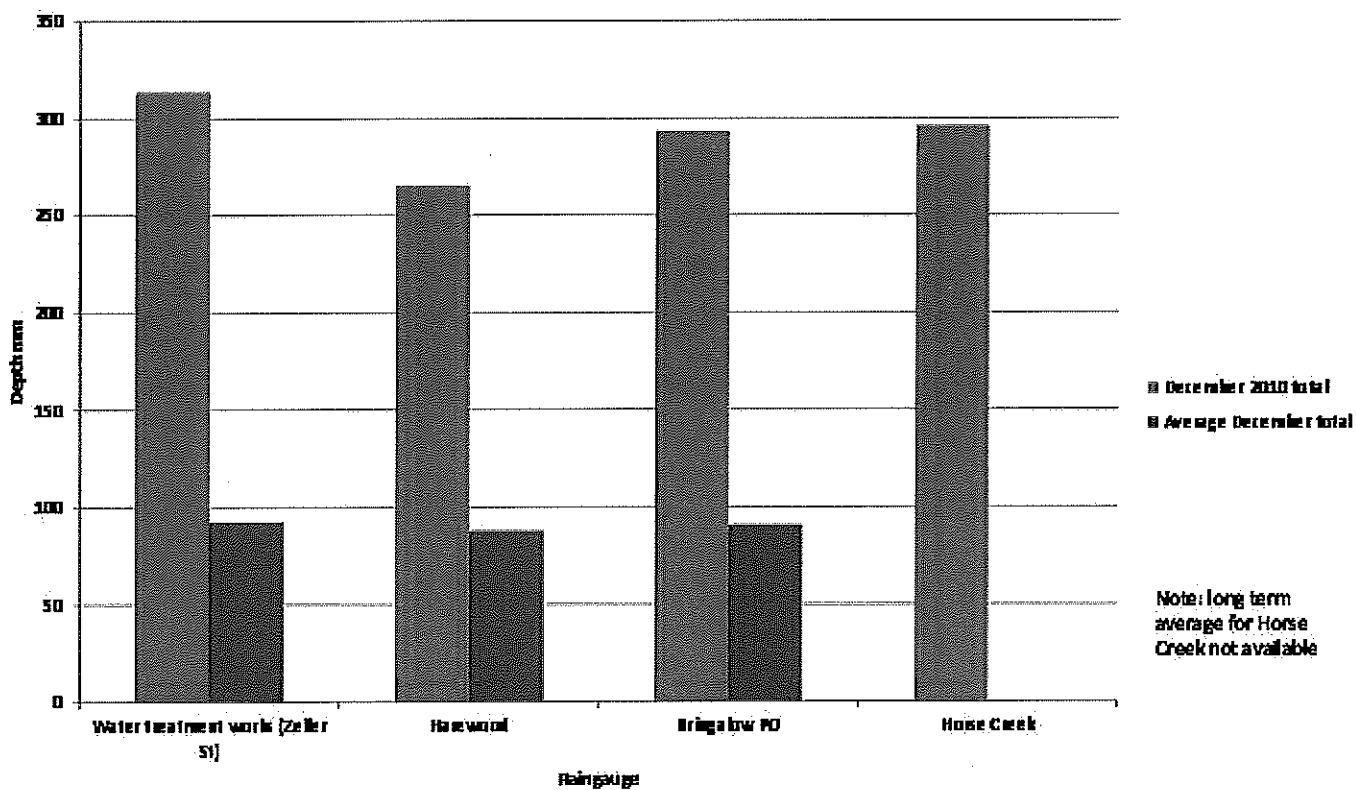
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Chinchilla - December 2010 daily rainfall totals



Title:

Chinchilla Daily Rainfall Totals: December 2010

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2-5c

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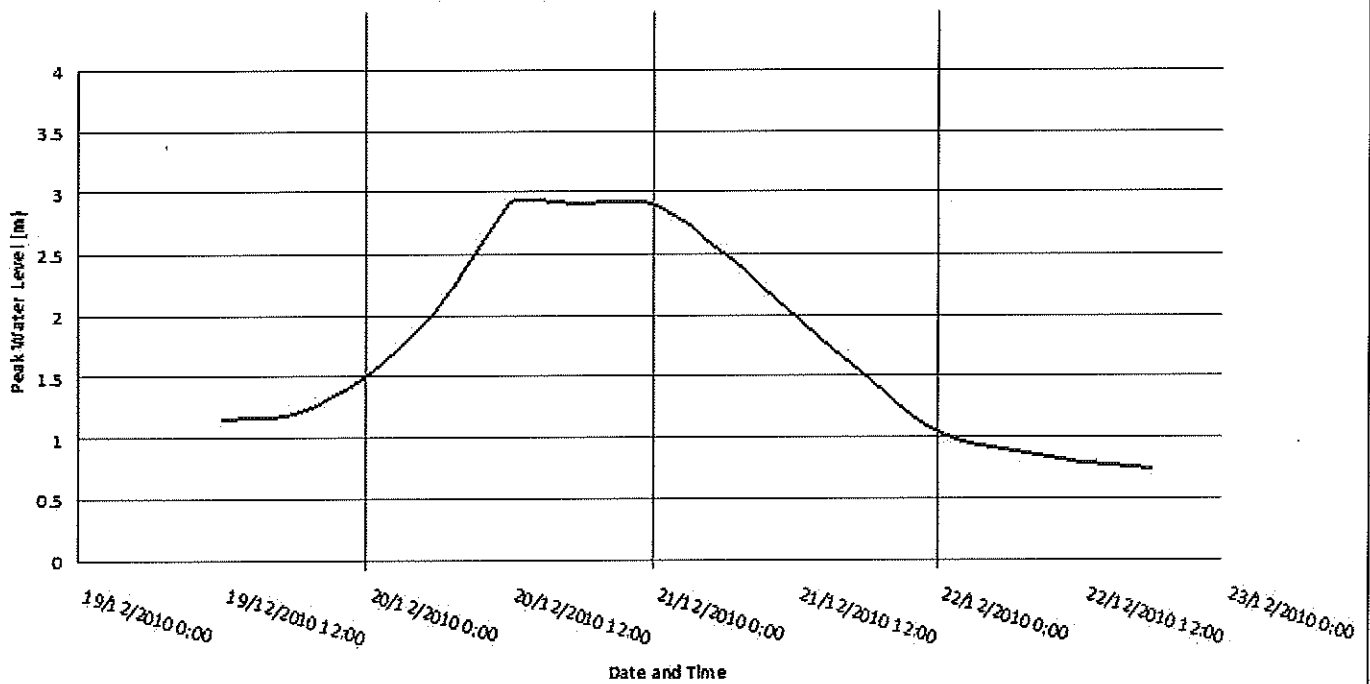
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Flood Hydrograph for Dalby: 20 December 2010



Title:

Flood Hydrograph for Dalby (Event 1), 20 December 2010

Figure:

3-1

Rev:

A

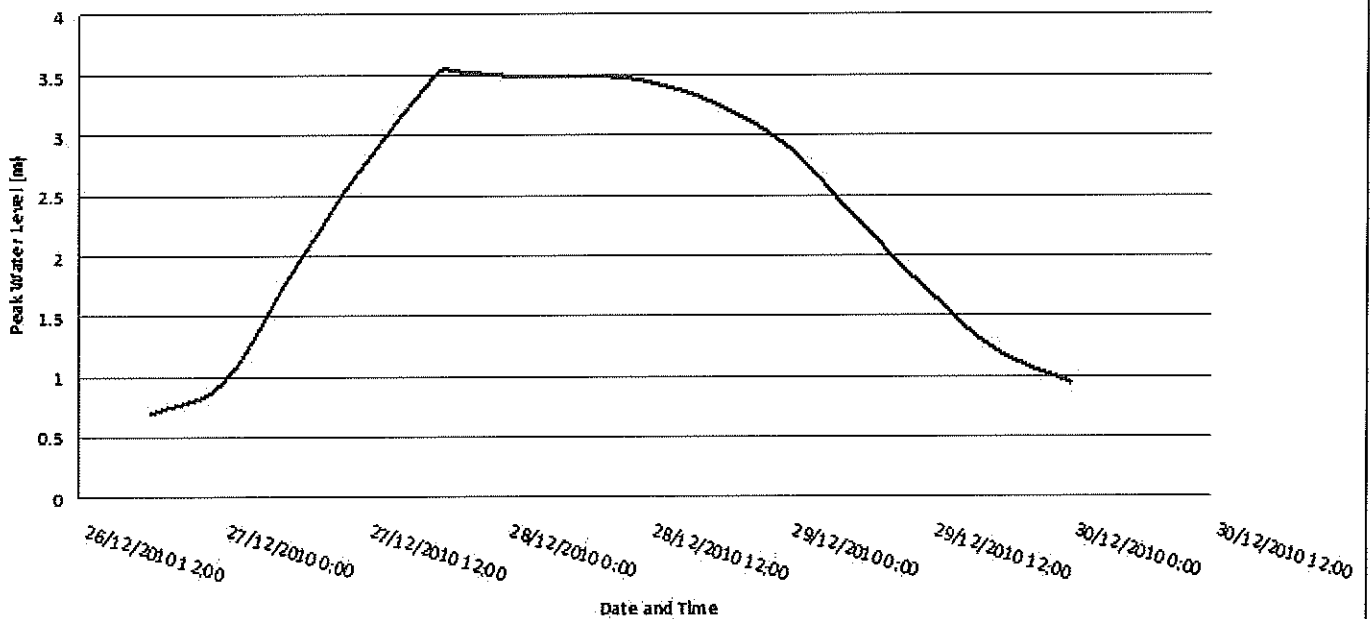
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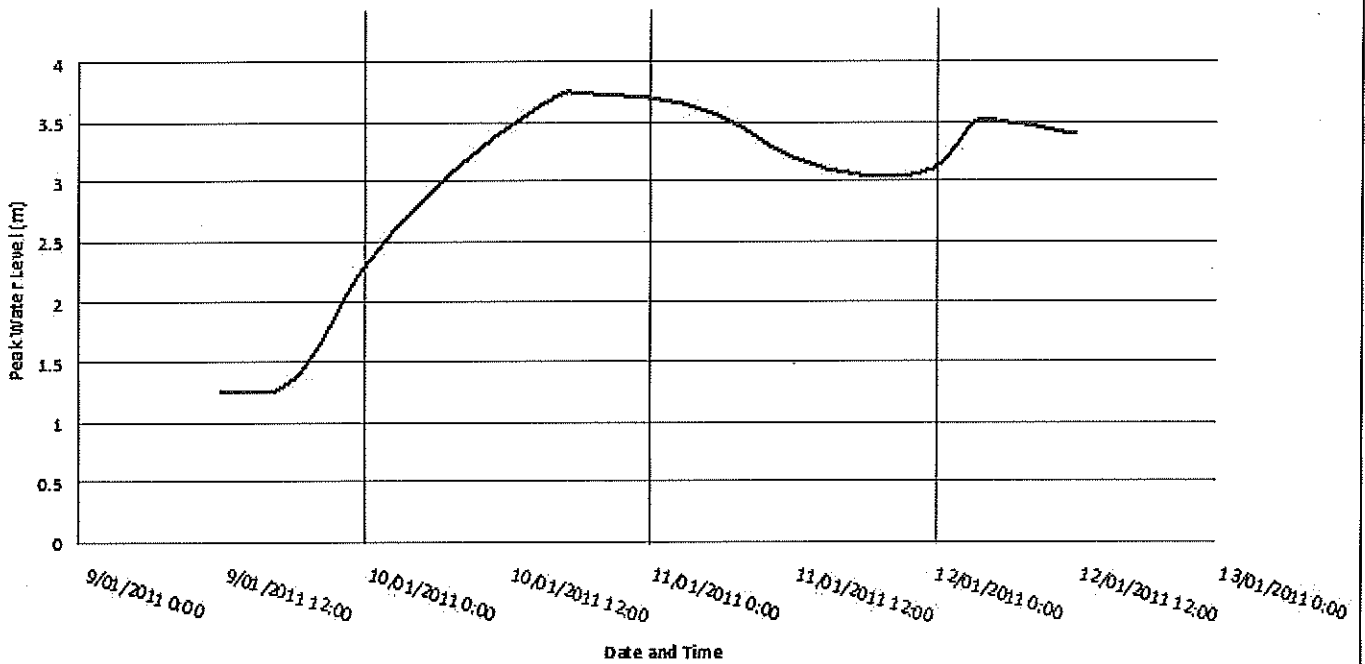
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Flood Hydrograph for Dalby: 27 December 2010



<p>Title: Flood Hydrograph for Dalby (Event 2), 27 December 2010</p>	<p>Figure: 3-2</p>	<p>Rev: A</p>
<p>BMT WBM endeavours to ensure that the information provided in this map is correct at the time of publication. BMT WBM does not warrant, guarantee or make representations regarding the currency and accuracy of information contained in this map.</p>	 <p>BMT WBM www.bmtwbm.com.au</p>	
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Flood Hydrograph for Dalby: 10 January 2011



Title:

Flood Hydrograph for Dalby (Event 3), 10 January 2011

Figure:

3-3

Rev:

A

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APPENDIX A: CURRICULUM VITAE OF NEIL IAN COLLINS

Neil Ian Collins

Position	Principal Hydraulic Engineer – Expert Services
Years of Experience	31
Professional Affiliations	PIANC NPER-3 RPEQ
Qualifications	Master of Science Engineering, University of Queensland Bachelor of Engineering (Civil) University of Queensland
Recent Employment Profile	<p>2010 to Present BMT WBM Pty Ltd – <i>Principal Hydraulic Engineer - Expert Services</i></p> <p>2007 to 2010 Gilbert & Sutherland Pty Ltd – <i>Principal Hydraulic and Water Resources Engineer</i></p> <p>2004 to 2007 Cardno Lawson Treloar – <i>Director, Queensland Manager</i></p> <p>1993 to 2004 Lawson Treloar - <i>Director</i></p>

Career Overview

Neil is BMT WBM's Principal Hydraulic Engineer; part of the Expert Services team, based in our Brisbane office. He has 31 years experience and is an acknowledged expert in the P+E, Land Court and Supreme Court of Queensland in flooding, water quality and coastal processes. He was also the independent hydraulic expert to the Queensland Government for the North Bank project. Neil has worked on major infrastructure projects as an Hydraulic Specialist including Sydney Third Runway, Sydney Harbour Tunnel, Gateway Bridge and Arterial and several coal ports in Queensland and in Indonesia, power stations in Queensland and Thailand, hydro-electric schemes in PNG and port dredging management at Cairns, Townsville, Weipa and Mackay.

Areas of Expertise

Hydraulics, Hydrology and Water Resources

Provision of Expert Witness Services in Flooding, Stormwater, Quality Control and Coastal Engineering

Summary of Major Projects

- Lauderdale Quay, Hobart – Coastal Hydraulics, Water Sediment Quality for IIS on a Major Marina Residential Reclamation Project.
- Brisbane Airport - International Terminal Drainage Design.
- Sydney Harbour Tunnel - Hydraulics Engineer for Immersed Tube Tow and Placement.
- Sydney Third Runway - Hydraulic Model Testing, Sea Wall Design and Environmental Management.
- Gateway Arterial - South East Freeway to Lytton Road - Civil and Hydraulic Design Manager.
- Gateway Bridge - Hydraulics and Approaches Services Relocations.
- Trade Coast Central - Flooding Review for BCC.
- Oak Flats to Yallah RTA Freeway Hydraulics.
- Kedron Brook Flood Impacts due to Airtrain.
- Tully and Murray River Floodplains Hydraulic Analysis and Modelling, for Drainage Scheme Design includes Large MIKE11 Modelling, with over 40 Bridges and 200 Channels.
- Expert Review - Mossman Daintree Road, Saltwater Creek Crossing: Independent Review of the Hydraulic Design of two Large Bridges.
- Hydraulic Design of Rock Armouring Works for the Barron River Bend at Cairns Airport.
- Eastern Corridor Study - Hydraulics and Hydrology investigation for Department of Transport.
- Relief Drainage Scheme Design for Albion Windsor Area Brisbane (Capital cost \$2 million).
- Tarong Power Station - Design of Earthfill Dam (max. 23m height), Ash trench, Stormwater Diversion Channels.

Professional History

BMT WBM Pty Ltd

Principal Hydraulic Engineer providing expert witness services in flooding, stormwater, quality control and coastal engineering.

Gilbert & Sutherland Pty Ltd

Wet 'n' Wild, Sunshine Coast – site and soil assessments, input to and review of AGE groundwater assessment, conceptual stormwater quality assessment, hydraulic and flooding assessments including yield, medli modelling for onsite and input to S&B water balance, contamination investigation.

- Stockland, Twin Waters – Flooding Assessment
- Mackay Boat Harbour – Wave Investigation
- Bourton Road, Alkira – Flooding and Stormwater Management Plan
- The Glades, Robina – Water Quality Compliance and Inspection Report

Expert Services:

2007: Truloff Pty Ltd -v- Gold Coast City Council
2008: Jimboomba Turf Co Pty Ltd -v- Logan City Council
2008: Lechaim -v- Gold Coast City Council
2008: Sunnyside International Pty Ltd -v- Brisbane City Council
2008: Bon Accord -v- Brisbane City Council
2008: Blue Eagle -v- Beaudesert Shire Council
2008: Brian Paddison -v- Redland Bay Shire Council
2008: Monarch Nominees -v- Brisbane City Council
2008: Kunda Park Pty Ltd -v- Maroochy Shire Council
2008: Owl Projects & Hyder -v- Gold Coast City Council
2008: Port Pacific Estates Pty Ltd -v- Cairns Regional Council
2008: Joanne Shepherd & Ors -v- Brisbane City Council
2009: Lenthalls Dam, Hervey Bay
2009: Testarossa -v- Brisbane City Council
2009: Heritage Properties & Ausbuild -v- Redland City Council
2009: Samantha Skippen -v- Miriam Vale Shire Council
2009: Anthony Wan Pty Ltd -v- Brisbane City Council
2010: Over 25 appeals in progress this year

Professional History (cont)

Cardno Lawson Treloar

Sovereign Waters, Wellington Point - flooding, tidal exchange and water quality management.

EMP Water Quality Management Plan preparation and site stormwater management, including hydrodynamic, advection/ dispersion and catchment pollutant yield modelling for:

- Emerald Lakes Project, Carrara
 - Glenwood Estate, Mudgeeraba
 - 'The Glades' (Greg Norman Design Course), at Robina
 - Sovereign Waters, Wellington Point
 - Pacific Palisades, Gavin
 - Freshwater Valley Estate, Cairns
 - Carrara Golf Course Re-development, Carrara
 - The Broadwater Development, Mudgeeraba
 - Over a Dozen Major Residential Development Projects.
-
- Full Two-dimensional (MIKE 21) Floodplain Modelling for Cairns Airport Inundation, Nerang River Floodplain and Martins Creek, Maroochydore.
 - Noosa River System Flood Study: Includes full G.I.S. Interfacing, Colour Inundation Plan Production and MIKE11 Modelling.
 - Detention Basin Design for Development Consulting, Calamvale, Brisbane: Hydrologic and Hydraulic Design using RAFTS.
 - Hydraulic and Water Quality Design, Lucinda Drive Main Drain, Port of Brisbane, including Catchment Pollutant Runoff Management.
 - Moreton Bay College Flood Investigation: MIKE11 Analysis of Flooding, Including Culvert and Channel Diversion Options.
 - Input on EIS Report on Water Quality for Freshwater Valley Development, including EMP.
 - Townsville Port Road and Rail Access Study - Hydraulics.
 - Freshwater Creek Flooding, for Main Roads, included Bridge and Culvert Sizing and Positioning of Channel Training Works. (RORB/RUBICON).
 - Mountain Creek Flooding Investigation Examination of 1992 Floods using detailed Hydrologic/Hydraulic Modelling and Design of Mitigation Works.

Expert Services:

- 2004: T.M. Burke Appeal
- 2004: East Point Mackay
- 2004: Dore Appeal
- 2004: 900 Hamilton Road, McDowall
- 2004: Milton Tennis Centre
- 2005: P&E Appeal Mount Samonsvale
- 2005: BCC & George Pasucci
- 2005: P&E Appeal 48 Comley Street Sunnybank
- 2005: P&E Appeal 398 Wondall Road, Tingalpa
- 2005: Cabbage Tree Creek Appeal
- 2006: 35 Suscatand Street, Rocklea Appeal
- 2006: Leong - v- Redland Shire Council Appeal
- 2006: Barry Hilson & Bach Pty Ltd - v- GCCC Appeal
- 2006: 57 Longhill Road Appeal
- 2006: 699 Bargara Road Appeal
- 2006: Chevellum Road Appeal
- 2006: 10 Karridawn Street, Nudgee Appeal
- 2006: Australian Hardboards Limited Appeal
- 2006: Dell Road and Hawkin Drive, St Lucia Appeal
- 2006: 106 Munro Street, Auchenflower Appeal
- 2006: 10 Adsett Road, P&E Appeal
- 2006: Saunders Creek Appeal
- 2006: 64, 70 & 74 Washington Avenue, Tingalpa

Professional History (cont)

Lawson Treloar

- Coastal Data Gathering and Analysis for Projects in Bali, Lombok and Malaysia.
- Pandorah Gas Project, Gulf of Papua. Neil was Responsible for Project Management of all Coastal and Oceanographic Aspects of this Project, including Preparation of the Relevant Components of EIS. This included Extreme Climate, Wind/Wave and Current Modelling.

Chevron PNG to Cape York Gas Pipeline Project, Gulf of Papua

Neil Carried out Project Management for all Coastal/Oceanographic Components of this Project, including:

- Wind/Wave Modelling
- Extremal Climate
- Bed Current Prediction
- Kumul Platform Berthing
- Endeavor Passage Landfall
- Wave, Current and Wind Data Gathering.
- Tidal Lagoon, Breakwater/Groynes, Water Quality and Quantity Management at Pecatu Indah Resort, Lombok.
- Marina and Reclamation, S-W Bali, (Putri Nyale) including Coastal Investigations and Hydraulic Design of Breakwaters and Revetments.
- Sediment Sampling and Monitoring Program for the Albatross Bay Dumpsite, Weipa, for Dept. of Transport. Job Manager for this Investigation which includes Monitoring of Movement of Material Following Dumping, and its Impact on Water Quality and Benthic Communities.
- Wellington Point Canal Estate - Coastal Hydraulic Investigation of Proposed Marina and Dredged Channel.
- Weipa, Embley Inlet Environmental Monitoring: Review and Planning for Long Term Monitoring and Assessment of Water Quality (for Comalco).
- Full 2D flooding assessments for Dept of Main Roads using MIKE 21 on Yarrabah, Cairns and Warrego Highway at Marburg.
- Current Profiling, Warrego River (1994).
- Sovereign Waters, Wellington Point - Flooding, Tidal Exchange and Water Quality Management.
- Responsible for all Flood and Water Quality aspects for several Gold Coast Projects, including Emerald Lakes, Nifsan's Glenwood and Broadlakes, including Lake, Wetland and EMP Design.
- Stream Diversion, including Sloping Drop Structure, Hydraulic Design, at 'Coops' Development, Brisbane (1993).
- Northumbria Lakes Estate, Flooding, Drainage, Gross Pollutant Trap and Trash Rack Modelling and Design (1994).
- Barron River Delta Prawn Farm I.A.S., including Flooding and Water Quality Monitoring and Modelling, using MIKE11 (1995).
- Hydraulic Manager for Cairns Airport Master Drainage Study, 1995, including Complex Hydrodynamic Flow and Catchment Management Analysis.

Expert Services:

- 1993: for Mulgrave Shire Council; Land Resumption Compensation Case in Land Court. (Flooding)
- 1993: for Mulgrave Shire Council; Development Appeal (Kamerunga Villas) in Planning and Environmental Court. (Flooding)
- 1994: for Pullenvale Residents Action Group, on Rezoning Appeal. (Flooding and Water Quality)
- 1994: for Development Consulting, on Rezoning Appeal for a Development with a Large Detention Basin at Calamvale. (Flooding and Drainage)
- 1994: for an Earthworks Contractor Regarding a Disputed Claim Over Levee Bank Construction at Mungindi. (Flooding)
- 1995: for a Developer on Bohle River Works. (Flooding and Water Quality)
- 1995: for Residents on Flooding, Murrumba Downs. (Flooding)
- 1995: for Residents on Flooding, Dayboro. (Flooding)

Connell Wagner

- Current Profiling, Warrego River (1994).
- Sovereign Waters, Wellington Point - Flooding, Tidal Exchange and Water Quality Management.
- Responsible for all Flood and Water Quality Aspects for several Gold Coast Projects, including Emerald Lakes, Nifsan's Glenwood and Broadlakes, including Lake, Wetland and EMP Design.
- Stream Diversion, including Sloping Drop Structure, Hydraulic Design, at 'Coops' Development, Brisbane (1993).
- Northumbria Lakes Estate, Flooding, Drainage, Gross Pollutant Trap and Trash Rack Modelling and Design (1994).
- Barron River Delta Prawn Farm I.A.S., including Flooding and Water Quality Monitoring and Modelling, using MIKE11 (1995).
- Hydraulic Manager for Cairns Airport Master Drainage Study, 1995, including Complex Hydrodynamic Flow and Catchment Management Analysis.
- Tarong Power Station. Design of earthfill dam (max. 23m height), Ash trench, Stormwater Diversion Channels.
- Callide B Power Station. Evaporation Ponds Simulation; Hydraulic Design and Stormwater Bypass Channel. Design of (25m) Ash Dam.
- Hay Point Multi-User Coal Export Facility. Design of Dams, Stormwater Drainage, Water Supply and General Civil.
- Townsville Container Terminal. Design of Stormwater Drainage and General Civil.
- Abbot Point Coal Terminal. Design of an Offshore Causeway.
- Subdivisional Design and Supervision, on over a dozen Projects.
- Bulk Sugar Terminal - Brisbane. Feasibility Studies, including Flooding.
- Gladstone Power Station. Ash Handling including Piping.
- Stanwell Power Station. Design Check on General Civil.
- Patrick Container Terminal - Port of Brisbane. Flooding and General Civil.

Expert Services:

- 1993: for Mulgrave Shire Council; Land Resumption Compensation Case in Land Court. (Flooding)
- 1993: for Mulgrave Shire Council; Development Appeal (Kamerunga Villas) in Planning and Environmental Court. (Flooding)
- 1994: for Pullenvale Residents Action Group, on Rezoning Appeal. (Flooding and Water Quality)
- 1994: for Development Consulting, on Rezoning Appeal for a Development with a Large Detention Basin at Calamvale. (Flooding and Drainage)
- 1994: for an Earthworks Contractor Regarding a Disputed Claim Over Levee Bank Construction at Mungindi. (Flooding)
- 1995: for a Developer on Bohle River Works. (Flooding and Water Quality)
- 1995: for Residents on Flooding, Murrumba Downs. (Flooding)
- 1995: for Residents on Flooding, Dayboro. (Flooding)
- Expert Services for Phillips Fox; Caboolture Shopping Centre Extension Appeal in Planning and Environment Court. (Flooding)
- Expert Services for Mulgrave Shire Council; Land Resumption Compensation Case in Land Court. (Flooding)
- Expert Services for Mulgrave Shire Council; Development Appeal (Kamerunga Villas) in Planning and Environmental Court. (Flooding).

Papers/Publications

May 2007 QELA Conference Presentation – The Approval and Appeal Process in QLD and NSW, Experts view on soil and water issues.

Nov 2004 Publication - 'Application of Australian Runoff Quality Draft Chapter 6 – A model approach', Water Sensitive Urban Design Conference, 2004, Adelaide.

Jul 2004 'Integrated High Order Water Quality and Hydrodynamic Analysis', 8th National Conference on Hydraulics in Water Engineering, July 2004.

Nov 2002 Publication - 'Hervey Bay Storm Surge', 30th PIANC Congress, Sydney 2002.

Nov 2001 'The Use of Runoff Event Monitoring in Validating Sediment Control Measures', 9th Annual Conference, International Erosion Control Association, Nov 2001.

Nov 2001 'Specialist 2D Modelling in Floodplains with Steep Hydraulic Gradients', 6th Conference on Hydraulics in Civil Engineering, Nov 2001.

Mar 2001 'Planning Implications of New Technology in Floodplains', RAPI Conference, Gold Coast, 2001.

Nov 1999 'Best Management Practices for Water Quality Control', and 'Zero Flooding Impact Assessments; the need for full two dimensional analysis', 8th International Conf. on Urban Stormwater Drainage, 1999.

Jul 1999 'Desktop Ship Simulation for a new Port Facility in The Gulf of Papua', Coasts and Port '99.

Mar 1997 'Implications of the Nifsan -v- G.C.C.C. ruling on floodplain hydraulics', Qld Envir. Law Assoc., 1997.

Jul 1994 'What the Community Needs to Know – Approaches to Community Construction for Water Engineering Projects', I.E. Aust., Queensland Division, 1994.

Nov 1993 'Hydraulic Assessment of Floodplain Development: Case Studies', The Institute of Municipal Engineering, Goondiwindi, 1993.

Jul 1993 'Long Term Environmental Planning – Weipa Port Dredging', 11th Australasian Conf on Coastal and Ocean Engineering. Townsville, 1993.

Mar 1993 Integrated Hydrologic and Hydraulic Modelling', WATERCOMP '93. The Second Australasian Conference on Technical Computing.

Mar 1992 'Russell and Mulgrave River Catchment Management', Invited Guest speaker for Queensland River Trusts Conference, Cairns, 1992.

Nov 1990 'Recent Studies of Port Dredging and Offshore Spoil Dumps', Third Australasian Port and Harbour Conference 1990, IE Aust.

Aug 1990 'Barron River Airport Bend Study - An Exercise in Joint Numerical and Physical Modelling', Conf. on Hyd. in Civil Eng., 1990, IE Aust.

May 1989 'Comparison and Evaluation of Current Dynamic Flow Models', WATERCOMP '89. The First Australasian Conference on Technical Computing in the Water Industry, Melbourne, 1989.

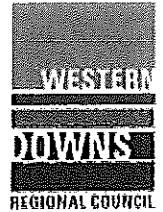
May 1989 Publication - Dynamic Flow Modelling : Comparison and Evaluation of Current Models - final Report', ACADS International publication No. U-249, May 1989.

May 1988 'Comparison of Dynamic Flow Models', ACADS 2D Modelling of Flood Plains, Melbourne, 1988.

Jun 1985 'ACADS Project on Comparison of Unsteady Flow Models', ACADS workshop, Brisbane 1985.

APPENDIX B: MEDIA ALERTS

Customer Service 1300 728 500
www.wdro.qld.gov.au
info@wdrc.qld.gov.au



Media Release 20 December 2010

Flood waters to peak at 3 metres in Dalby

Dalby's Myall Creek is expected to peak at three metres this morning between 10am and 12pm causing moderate flooding to the town.

"Flood waters are currently at 2.4 metres and on the rise. At a peak of three metres the water will be one metre over the Patrick Street Bridge which is already cut. However, the flood waters are not expected to affect the Charles Drew Bridge," said Western Downs Regional Mayor Ray Brown.

"At this stage no homes will require evacuation; however residents living along the Myall Creek are encouraged to move vehicles to the Dalby Showgrounds to avoid flood damage.

"Motorists are urged check Council's and the Main Roads websites for road closures before travelling and asked not to attempt to cross flooded roadways," he said.

Council has activated its Flood Coordination Centre, residents seeking more information can call 4662 6666.

The next flood update will be issued at 10.30am.

Media Contact:

[REDACTED] Strategy and Communications Manager [REDACTED]

Media Alert

20 December 2010 – Issued 2.30pm

New Flood Peak Prediction for Dalby

Western Downs Regional Council confirms that Dalby town remains on flood alert with the latest Bureau of Meteorology warning predicting a 3.5 metre peak of the Myall Creek.

"The Myall Creek is currently at 2.6 metres and is expected to rise rapidly as it heads toward a peak of 3.5 metres at 3pm this afternoon," said Council's spokesperson for Community Services Cr Charlene Hall.

"At the peak, water will be 1.5 metres over the Patrick Street Bridge, and homes in low lying areas along Myall Creek are now on evacuation alert.

"Residents living along the Myall Creek are encouraged to move vehicles to the Dalby Showgrounds to avoid flood damage and motorists are asked to adhere to signed road closures for their safety," Cr Hall said.

Council is working closely with local Police and SES to monitor the flood conditions and will keep the community updated with regular media updates.

Residents are urged not to enter flood waters due to the extreme danger of swift water, debris and snakes

With flood waters affecting the region, levels of the Condamine River and Charleys Creek in Chinchilla are also under observation with further updates expected later this afternoon.

- Dalby services currently affected by flooding include:

All Dalby and District Landfills are closed to all access
Both Dalby Shoppingworld car parks are closed

- Current Dalby and District road closures:

Branch Creek Road
Edward Street Weir
Patrick Street Bridge
Dalby Cooyar (Myall Creek, Smoothies Bridge)
Dalby Cecil Plains (Ashall Creek)
Dalby Jandowae (Jimbour Creek)
Wilds Road
Blaxland Irvingdale Road (Myall Creek)
Dalby Nungil Road (Irvingdale Road, Myall Creek)

- The next flood update will be issued at 2.30pm

For further information or assistance residents can contact the Western Downs Disaster Coordination Centre on 4662 6666.

Media Alert

21 December 2010 – Issued 5pm

Chinchilla on flood alert

With clean up efforts well underway in Dalby, Western Downs Regional Council is now preparing for predicted record flood levels in Chinchilla.

"The Myall Creek continues to fall with current levels at 1.69 metres, however further downstream flood waters are continuing along the Condamine River towards Chinchilla," said Council's spokesperson for Utilities Cr Bill McCutcheon.

"The latest flood warning from the Bureau of Meteorology predicts a peak this Friday at Charleys Creek similar to levels recorded back in the 1981 floods with a 10 metre peak at the Chinchilla Weir.

"Charleys Creek is currently at 4.5 metres and has been rising steadily since yesterday, while the Chinchilla Weir is currently at 8.8 metres. The Condamine River at Loudoun Bridge is currently holding steady at 9.1 metres.

"Residents living on the northern side of Chinchilla are encouraged to prepare for increased flood levels by the end of the week. Council will continue to monitor water levels overnight and issue an updated status in the morning.

Meanwhile, Council is urging Dalby residents to strictly adhere to road closure signs while work crews continue to repair flood damaged roads.

"Council asks residents to remain patient as work crews focus their efforts to restore safety to flood damage roads," said Council's spokesperson for Community Services Cr Charlene Hall.

"The Patrick Street Bridge will remain closed until a structural inspection determines the extent of damage and it can be safely reopened to traffic.

"In the CBD Marble Street from Stuart Street to Finks Lane remains closed due to a road collapse and Patrick Street is closed from the Dalby Shoppingworld to Sydney Street.

"To assist residents clean up, Council has reopened the Dalby Landfill and have eased water restrictions to allow the use of hand-held hoses until Friday 24 December," Cr Hall said.

Council will continue to work closely with local SES and Emergency Management Queensland to monitor overland flows throughout the region and provide assistance to the community as required.

For a current list of road closures in the Dalby, Chinchilla, Miles and Wandoan districts please see overleaf.

Residents in need of flood assistance or information are asked to call the Western Downs Local Disaster Coordination Centre on 4662 6666 which will reopen at 7.30am Wednesday morning.

- Dalby services currently affected by flooding include:

Ergon Energy advises power outages to 3 customers at James Cook Drive
Both Dalby Shoppingworld car parks are closed

- The next flood update will be issued at 9am Wednesday 22 December

Media Contact:

Strategy and Communications Manager

▪ Current Dalby and District road closures:

Branch Creek Road
Edward Street Weir
Patrick Street Bridge
Dalby Cecil Plains (Ashall Creek)
Wilds Road
Blaxland Irvingdale Road (Myall Creek)
Jimbour – Cooranga North Road (Bowen Creek)
Condamine Highway (Condamine to Kogan closed)
Hillmead Road
Ranges Bridge

* Chinchilla and District road closures

Red Hill Road
Clarkes Road
Burnt Bridge Road
Greenswamp Road
Banana Bridge Road
Eihma Boundary Road
Monmouth Road
Avenue Road
Burncluith Road
Chinchilla Wondai Road
Chinchilla Kogan Road

▪ Current Miles and Wandoan District road closures:

Leichhardt Hwy (Miles to Taroom) - Open with caution
Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Condamine Meandarra Road - Forthingham Gully
Kogan Condamine Road - Weimambilla Creek
Roma Condamine Road - Dogwood Creek - Open with caution
Freemans Road - Columboola Creek
Geldards Road - Columboola Creek
Harphams Road - Dogwood Creek
Yulabilla Road - Condamine River
Hookswood Road - Dogwood Creek
Myall Park Road - Wallen Creek
Goonalah Extension Road - Closed to Heavy Vehicles
Wallen Creek Road - Wallen Creek - Open with caution
Harrison Road - Dulacca Creek
Coates Road - Wallen Creek
Glenubyn Road - Wallen Creek
Willetts Road - Tchanning Creek
Clarke Creek Road - Tchanning Creek
Dulacca North Hall Road - Tchanning Creek
Butlers Extension Road - Dulacca Creek
Yeovil Road - Juandah Creek
Booral Road - Jaundah Creek
Ryals Roads
Bundi Road
Horse Creek Road
Clifford Road
Pine Hills Road
Nathan Road – Open with caution

- The next flood update will be issued at 9am Wednesday 22 December

Media Contact:

Strategy and Communications Manager

Media Alert

22 December 2010 – Issued 10am

Disaster Coordination Centre Opens in Chinchilla

Western Downs Regional Council confirms that Chinchilla is on flood alert with the latest Bureau of Meteorology warning predicting moderate flooding with a peak of six metres in Charleys Creek by Friday.

"The Warrego Highway remains open with Charleys Creek currently at 4.85 metres, 100 millimetres under Charleys Creek Bridge and is expected to rise steadily over the next few days," said Council's spokesperson for Utilities Cr Bill McCutcheon.

"With predicted levels similar to the 1981 flood, Council activated its Local Disaster Coordination Centre in Chinchilla this morning in preparation for rising flood levels.

"Residents and commercial properties in low lying areas adjacent to Charleys Creek are now on evacuation alert and encouraged to move vehicles to the Chinchilla Showgrounds to avoid flood damage," said Cr McCutcheon.

Council is working closely with local Police and SES to monitor flood levels along the Condamine River and will keep the community updated with regular media updates.

In Dalby, the clean up continues with the Myall Creek now a metre below the Patrick Street Bridge.

"This morning Council is conducting a structural inspection of the bridge, however it will remain closed until it can be opened safely," said Council's spokesperson for Community Services Cr Charlene Hall.

"Works crews continue to focus their efforts on repairing flood damaged roads and residents can assist by obeying road closure signage.

"Residents are taking full advantage of access to the Dalby Landfill while the weather holds to clean up flood affected properties.

"Council is doing its best to determine a seven day weather forecast which has been downgraded to a prediction of 50 millimetres of rain expected over the Myall Creek catchment area," said Cr Hall.

For a current list of road closures in the Chinchilla, Dalby, Miles and Wandoan districts please see overleaf.

Residents in need of flood assistance or information are asked to call the Western Downs Local Disaster Coordination Centre on 4662.7056.

The next flood update will be issued at 2pm today.

Media Contact:

Strategy and Communications Manager

▪ Current Chinchilla and District road closures:

Chinchilla Wondai Road
Chinchilla Kogan Road
Chinchilla Tara Road
Red Hill Road
Clarkes Road
Burnt Bridge Road
Greenswamp Road
Banana Bridge Road
Eihma Boundary Road
Monmouth Road
Avenue Road
Burncluith Road

▪ Current Dalby and District road closures:

Branch Creek Road
Edward Street Weir
Patrick Street Bridge
Dalby Cecil Plains (Ashall Creek)
Warra Canaga Creek Road
Wilds Road
Blaxland Irvingdale Road (Myall Creek)
Jimbour – Cooranga North Road (Bowen Creek)
Condamine Highway (Condamine to Kogan closed)
Hillmead Road
Ranges Bridge

▪ Current Miles and Wandoan District road closures:

Leichhardt Hwy (Miles to Taroom) - Open with caution
Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Condamine Meandarra Road - Forthingham Gully
Kogan Condamine Road - Weimambilla Creek
Roma Condamine Road - Dogwood Creek - Open with caution
Freemans Road - Columboola Creek
Geldards Road - Columboola Creek
Harphams Road - Dogwood Creek
Yulabilla Road - Condamine River
Hookwood Road - Dogwood Creek
Myall Park Road - Wallen Creek
Goonalah Extension Road - Closed to Heavy Vehicles
Wallen Creek Road - Wallen Creek - Open with caution
Harrison Road - Dulacca Creek
Coates Road - Wallen Creek
Glenaubyn Road - Wallen Creek
Willets Road Road - Tchanning Creek
Clarke Creek Road - Tchanning Creek
Dulacca North Hall Road - Tchanning Creek
Butlers Extension Road - Dulacca Creek
Yeovil Road - Juandah Creek
Booral Road - Jaundah Creek
Ryals Roads
Bundi Road
Horse Creek Road
Clifford Road
Pine Hills Road
Nathan Road – Open with caution

Media Alert

22 December 2010 – Issued 4.15pm

Chinchilla prepares for overnight flood peak

Chinchilla's Charleys Creek is predicted to peak at just over six metres overnight causing moderate flooding to the town in the early hours of Thursday morning.

"Flood waters are currently at 4.9 metres and steadily rising. At a peak of six metres the water will be half a metre over Charleys Creek Bridge cutting the Warrego Highway between Chinchilla and Miles," said Council's spokesperson for Utilities Cr Bill McCutcheon.

"At its peak, predicted flood waters will affect approximately 50 premises however no evacuations of homes are expected. Doorknocking of premises within the flood zone commenced earlier today to ensure residents have plenty of time to move vehicles and valuables.

"Council has transferred the Western Downs Local Disaster Coordination Centre to Chinchilla where local knowledge of similar flood levels during the 1981 floods is invaluable to preparations.

"Flood levels of the Condamine River upstream from Charleys Creek are being closely monitored as a short peak is expected which should see water fall away quickly.

"Council is also monitoring predictions of a major flood peak of the Condamine River at Condamine over the weekend and will issue further information as soon as it comes to hand," said Cr McCutcheon.

Chinchilla residents are advised that Council's garbage and recycling collection service will proceed as normal this week with the exception of circumstances where access is blocked due to flooding.

Residents are also able to access the Chinchilla Landfill which remains open.

Weather forecasts for the Christmas period are yet to be confirmed and Council will provide information as soon as possible. Residents requiring updates on road conditions should contact Main Roads on 13 19 40.

In Dalby, the clean up continues with the Patrick Street Bridge now reopened to traffic.

For a current list of road closures in the Chinchilla, Dalby, Miles and Wandoan districts please see overleaf.

Residents in need of flood assistance or information are asked to call the Western Downs Local Disaster Coordination Centre on 4662 7056.

The next flood update will be issued at 9am Thursday 23 December.

Media Contact:

██████████ Strategy and Communications Manager ██████████

▪ Current Chinchilla and District road closures:

Burra Burri Creek Road
Chinchilla Wondai Road
Chinchilla kogan Road
Chinchilla Tara Road
Red Hill Road
Clarkes Road
Burnt Bridge Road
Greenswamp Road
Banana Bridge Road
Ehlma Boundary Road
Monmouth Road
Avenue Road
Burncluith Road
Warra Kogan Road
Pelican Back Road

▪ Current Dalby and District road closures:

Branch Creek Road
Edward Street Weir
Dalby Cecil Plains (Ashall Creek)
Warra Canaga Creek Road
Wilds Road
Jimbour – Cooranga North Road (Bowen Creek)
Condamine Highway (Condamine to Kogan closed)
Ranges Bridge (Kogan Road)

▪ Current Miles and Wandoan District road closures:

Leichhardt Hwy (Miles to Taroom) - Open with caution
Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Condamine Meandarra Road - Forthingham Gully
Kogan Condamine Road - Weimambilla Creek
Roma Condamine Road - Dogwood Creek - Open with caution
Freemans Road - Columboola Creek
Geldards Road - Columboola Creek
Harphams Road - Dogwood Creek
Yulabilla Road - Condamine River
Hookswood Road - Dogwood Creek
Myall Park Road - Wallen Creek
Goonalah Extension Road - Closed to Heavy Vehicles
Wallen Creek Road - Wallen Creek - Open with caution
Harrison Road - Dulacca Creek
Coates Road - Wallen Creek
Glenaubyn Road - Wallen Creek
Willets Road Road - Tchanning Creek
Clarke Creek Road - Tchanning Creek
Dulacca North Hall Road - Tchanning Creek
Butlers Extension Road - Dulacca Creek
Yeovil Road - Juandah Creek
Booral Road - Jaundah Creek
Ryals Roads
Bundi Road
Horse Creek Road
Clifford Road
Pine Hills Road
Nathan Road – Open with caution

Media Alert

22 December 2010 – Issued 4.15pm

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"Flood levels of the Condamine River upstream from Charleys Creek are being closely monitored as a short peak is expected which should see water fall away quickly.

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In Dalby, the clean up continues with the Patrick Street Bridge now reopened to traffic.

For a current list of road closures in the Chinchilla, Dalby, Miles and Wandoan districts please see overleaf.

Residents in need of flood assistance or information are asked to call the Western Downs Local Disaster Coordination Centre on 4662 7056.

The next flood update will be issued at 9am Thursday 23 December.

Media Contact:

Strategy and Communications Manager

▪ Current Chinchilla and District road closures:

Burra Burri Creek Road
Chinchilla Wondai Road
Chinchilla kogan Road
Chinchilla Tara Road
Red Hill Road
Clarkes Road
Burnt Bridge Road
Greenswamp Road
Banana Bridge Road
Ehima Boundary Road
Monmouth Road
Avenue Road
Burncluith Road
Warra Kogan Road
Pelican Back Road

▪ Current Dalby and District road closures:

Branch Creek Road
Edward Street Weir
Dalby Cecil Plains (Ashall Creek)
Warra Canaga Creek Road
Wilds Road
Jimbour – Cooranga North Road (Bowen Creek)
Condamine Highway (Condamine to Kogan closed)
Ranges Bridge (Kogan Road)

▪ Current Miles and Wandoan District road closures:

Leichhardt Hwy (Miles to Taroom) - Open with caution
Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Condamine Meandarra Road - Forthingham Gully
Kogan Condamine Road - Weimambilla Creek
Roma Condamine Road - Dogwood Creek - Open with caution
Freemans Road - Columboola Creek
Geldards Road - Columboola Creek
Harphams Road - Dogwood Creek
Yulabilla Road - Condamine River
Hookwood Road - Dogwood Creek
Myall Park Road - Wallen Creek
Goonalah Extension Road - Closed to Heavy Vehicles
Wallen Creek Road - Wallen Creek - Open with caution
Harrison Road - Dulacca Creek
Coates Road - Wallen Creek
Glenaubyn Road - Wallen Creek
Willetts Road Road - Tchanning Creek
Clarke Creek Road - Tchanning Creek
Dulacca North Hall Road - Tchanning Creek
Butlers Extension Road - Dulacca Creek
Yeovil Road - Juandah Creek
Booral Road - Jaundah Creek
Ryals Roads
Bundi Road
Horse Creek Road
Clifford Road
Pine Hills Road
Nathan Road – Open with caution

Media Alert

23 December 2010 – Issued 10.00am

Peak not reached in Chinchilla

The six metre peak predicted in Chinchilla's Charleys Creek last night was not reached with the creek currently at 5.15 metres and steadily rising.

"This morning the water is 200 millimetres under the Charleys Creek Bridge and is unlikely to cut the Warrego Highway to Miles before this afternoon," said Council's spokesperson for Utilities Cr Bill McCutcheon.

"The Condamine River continues to rise steadily and the George Gray Bridge on the Chinchilla Tara Road remains closed, with water 750 millimetres over the bridge.

"With the already saturated catchment area upstream of Chinchilla receiving heavy rain last night, Council is working closely with the Bureau of Meteorology to monitor predicted impacts to the town over the weekend.

"At this stage, the threat of major flooding to the town seems unlikely unless the catchment area receives sustained heavy rain over the Christmas period.

"In any event, business owners and residents are well prepared and Council appreciates their quick response to move valuables and sandbag known flood areas," said Cr McCutcheon.

The latest weather forecasts are for the current rain in Chinchilla to disperse by lunchtime with possible thunderstorms this evening. An updated forecast for the Christmas period will be issued later this afternoon.

Residents seeking information or flood assistance can call the Western Downs Local Disaster Coordination Centre in Chinchilla on 4662 7056.

Alternatively, a pre-recorded Flood Information Line is available on 4662 7440 providing regular updates on river levels within the Condamine River and Charleys Creek catchment.

For a current list of road closures in the Chinchilla, Dalby, Miles and Wandoan districts please see overleaf.

The next flood update will be issued at 2pm Thursday 23 December.

Media Contact:

Strategy and Communications Manager

▪ Current Chinchilla and District road closures:

Burra Burri Creek Road
Chinchilla Wondai Road
Chinchilla Kogan Road
Chinchilla Tara Road
Red Hill Road
Clarkes Road
Burnt Bridge Road
Greenswamp Road
Banana Bridge Road
Ehima Boundary Road
Monmouth Road
Avenue Road
Burncluith Road
Warra Kogan Road
Pelican Back Road

▪ Current Dalby and District road closures:

Branch Creek Road
Edward Street Weir
Dalby Cecil Plains (Ashall Creek)
Warra Canaga Creek Road
Wilds Road
Jimbour – Cooranga North Road (Bowen Creek)
Condamine Highway (Condamine to Kogan closed)
Ranges Bridge (Kogan Road)

▪ Current Miles and Wandoan District road closures:

Leichhardt Hwy (Miles to Taroom) - Open with caution
Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Condamine Meandarra Road - Forthingham Gully
Kogan Condamine Road - Weimambilla Creek
Roma Condamine Road - Dogwood Creek - Open with caution
Freemans Road - Columboola Creek
Geldards Road - Columboola Creek
Harphams Road - Dogwood Creek
Yulabilla Road - Condamine River
Hookwood Road - Dogwood Creek
Myall Park Road - Wallen Creek
Goonalah Extension Road - Closed to Heavy Vehicles
Wallen Creek Road - Wallen Creek - Open with caution
Harrison Road - Dulacca Creek
Coates Road - Wallen Creek
Glensubyn Road - Wallen Creek
Willetts Road - Tchanning Creek
Clarke Creek Road - Tchanning Creek
Dulacca North Hail Road - Tchanning Creek
Butlers Extension Road - Dulacca Creek
Yeovil Road - Juandah Creek
Booral Road - Jaundah Creek
Ryals Roads
Bundi Road
Horse Creek Road
Clifford Road
Pine Hills Road
Nathan Road – Open with caution

Media Alert

23 December 2010 – Issued 2.20pm

Flood waters still on the rise in Chinchilla

Western Downs Regional Council confirms that Chinchilla remains on flood alert with levels of the Condamine River and Charleys Creek still rising steadily.

"The Condamine River is currently 7.3 metres at the Condamine Bridge and Charleys Creek is now 5.22 metres with water lapping the bridge," said Council's spokesperson for Utilities Cr Bill McCutcheon.

"The Bureau of Meteorology has not ruled out a six metre peak which would see half a metre of water over Charleys Creek Bridge, cutting the Warrego Highway between Chinchilla and Miles.

"With the information at hand it seems likely that the Warrego Highway will remain open until later this afternoon.

"Rain in Chinchilla is now breaking up and the likelihood of thunderstorms this afternoon has diminished, however more rain is forecast over the Christmas period.

"Council strongly urges motorists to adhere to road closure signage for their own safety and drive to the conditions as wet roads can be extremely dangerous," said Cr McCutcheon.

Council is working closely with local Police and SES to prepare businesses and residents in affected areas for rising flood levels.

Residents seeking information or flood assistance can call the Western Downs Local Disaster Coordination Centre in Chinchilla on 4662 7056.

Alternatively, a pre-recorded Flood Information Line is available on 4662 7440 providing regular updates on river levels within the Condamine River and Charleys Creek catchment.

Residents requiring updates on road conditions should contact Main Roads on 13 19 40 or visit the website www.131940.qld.gov.au.

For a current list of road closures in the Chinchilla, Dalby, Miles and Wandoan districts please see overleaf.

The next flood update will be issued at 5pm Thursday 23 December.

Media Contact:

Strategy and Communications Manager

▪ **Main Roads Closures**

Chinchilla Wondai Road
Chinchilla Kogan Road
Chinchilla Tara Road
Jimbour – Cooranga North Road (Bowen Creek)
Condamine Highway - Condamine to Dalby closed
Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Condamine Meandarra Road - Forthingham Gully
Condamine-Roma Road - Dogwood Creek
Condamine-Kogan Road - Weimbilla Creek
Leichhardt Hwy (Miles to Taroom) - Open with caution

▪ **Current Chinchilla and District road closures:**

Burra Burri Creek Road
Red Hill Road
Clarkes Road
Burnt Bridge Road
Greenswamp Road
Banana Bridge Road
Ehlma Boundary Road
Monmouth Road
Avenue Road
Burncluith Road
Warra Kogan Road
Pelican Back Road

▪ **Current Dalby and District road closures:**

Branch Creek Road
Edward Street Weir
Dalby Cecil Plains (Ashall Creek)
Warra Canaga Creek Road
Warra – Kogan Road
Dalby – Kogan Road - Rangers Bridge
Dalby – Cecil Plains Road – Ashall Creek
Wilds Road
Bunya Mountains Road
Old Warrego Highway – Rangers Gully
Jinghi Jinghi Creek Road – Off Jandowae Connection Road

▪ **Current Miles and Wandoan District road closures:**

Roma Taroom Road
Jackson Wandoan Road - Tchanning Creek
Freemans Road - Columboola Creek
Geldards Road - Columboola Creek
Harphams Road - Dogwood Creek
Yulabilla Road - Condamine River
Hookwood Road - Dogwood Creek
Myall Park Road - Wallen Creek
Harrison Road - Dulacca Creek
Coates Road - Wallen Creek
Glenaubyn Road - Wallen Creek
Willetts Road - Tchanning Creek
Clarke Creek Road - Tchanning Creek
Dulacca North Hall Road - Tchanning Creek
Butlers Extension Road - Dulacca Creek
Yeovil Road - Juandah Creek
Booral Road - Jaundah Creek
Ryals Roads
Bundi Road
Horse Creek Road
Clifford Road
Pine Hills Road
Fotheringham's Gully
Goonalah Extension Road - Closed to Heavy Vehicles
Wallen Creek Road - Wallen Creek - Open with caution
Nathan Road – Open with caution

Media Alert

27 December 2010 – Issued 8am

Widespread flooding on the Western Downs

An average rainfall of 60 millimetres across the Western Downs in the last 24 hours has resulted in major flooding in Chinchilla overnight, moderate flooding in the Miles District and moderate flooding is predicted for Dalby this afternoon.

“At 6.30am this morning Charleys Creek in Chinchilla was at 6.40 metres and rising,” said Western Downs Regional Council Deputy Mayor Mick Cosgrove.

“With water now a metre over Charleys Creek Bridge the Warrego Highway is cut to all traffic between Chinchilla and Miles. The Warrego Highway is also cut between Dalby and Chinchilla due to flooding.

“In the last 24 hours Miles received an average rainfall of 90 millimetres and flood waters are rising very quickly. The RJ Simmons Bridge over the Warrego in Miles is likely to be cut later this afternoon, while the Condamine Bridge at Condamine is already closed to all traffic and the Leichhardt Highway north of Miles is also closed.

“The Myall Creek in Dalby is rising quickly with a peak of at least 2.5 metres predicted this afternoon and the Patrick Street Bridge is already closed to all traffic.

“Chinchilla and Dalby’s Local Disaster Management Groups have been activated, enforcing road closures, keeping the community informed and closely monitoring the rising flood levels.

“It’s been a long time since the Western Downs has received such widespread rain and like the rest of Queensland there’s more to come over the next few days. The prediction is that flood levels will continue to rise and residents in low lying areas should make appropriate arrangements to ensure they are flood prepared.

“Residents are also advised that garbage collection services in Condamine, Kogan, Miles and Wandoan are cancelled today due to flooding. Use of the region’s landfills should be restricted to emergency use only.

“Council asks that residents stay indoors and restrict road travel to a minimum as flooding has caused considerable road damage. For their own safety it’s vital that motorists strictly adhere to road closure signage and do not attempt to cross flooded waterways.

“Council will continue to work closely with the SES, Police and local emergency services to ensure residents are keep informed and safe,” said Cr Cosgrove.

Residents requiring updates on road conditions should contact Main Roads on 13 19 40, visit the website www.131940.qld.gov.au or contact the RACQ on 1300 130 595. Residents can also monitor weather forecasts at the Bureau of Meteorology’s website www.bom.gov.au.

For flood and storm assistance contact the SES on 132 500 and in a life-threatening emergency which includes people becoming trapped in floodwaters call triple zero (000) immediately.

Media Contact:

Strategy and Communications Manager

Media Alert

27 December 2010 – Issued 12.15pm

Western Downs Region on Flood Alert

Western Downs Regional Council confirms that the region remains on flood alert with river heights along the Condamine River and associated catchment areas still rising due to continued rain.

Deputy Mayor Mick Cosgrove strongly urges motorists to restrict road travel where possible with the majority of roads throughout the region cut due to flooding.

“Road travel throughout the region has been brought to a standstill due to rising flood levels and significant road damage. Council cannot insist strongly enough that motorists stay off the roads due to the danger of driving on flood affected roads.

“The latest update from the Bureau predicts further widespread rain with moderate to heavy falls locally. Council will continue to monitor the situation and work closely with local emergency services to keep the community informed.

“Council asks that residents stay at home and prepare for localised flooding in all low lying areas of the region,” said Cr Cosgrove.

Chinchilla Update

Charleys Creek is currently at 6.7 metres and still rising with flood levels now exceeding the 1983 flood and heading toward a possible record peak.

All roads to and from Chinchilla are now closed and residents are strongly urged to stay out of flood waters due to health concerns.

At this stage there has been 10 voluntary evacuations, however more are expected if flood levels continue to rise.

Ergon Energy is taking the safety precaution of cutting power to homes already evacuated or as water reaches floorboards. Residents requiring assistance from Ergon Energy should call 13 10 46.

Residents in the Chinchilla district in need of flood assistance or information are asked to call the Western Downs Disaster Coordination Centre on 4662 7056.

Dalby Update

Dalby's Myall creek is currently 2.69 metres and predicted to reach at least a 3 metre peak this afternoon, the same flood level the town experienced on Monday last week.

At this stage no homes will require evacuation; however residents in low lying areas along Myall Creek are encouraged to move valuables off ground level and relocate vehicles to the Dalby Showgrounds or Dalby Leagues Ground to avoid flood damage.

Access to Dalby from Brisbane is now cut with water closing the Warrego Highway at Jondaryan and Oakey.

While access to the Dalby Landfill remains open, due to the wet conditions residents are asked to restrict use to emergencies only.

Residents in the Dalby district in need of flood assistance or information are asked to call the Western Downs Disaster Coordination Centre on 4662 6666.

Miles and Wandoan Update

All roads to and from Miles are now closed with the Condamine River and Dogwood Creek still rising and bridges cut in both Miles and Condamine.

At this stage no homes in Miles will require evacuation; however residents in low lying areas are encouraged to move valuables and vehicles to higher ground to avoid flood damage.

Residents are also advised that garbage collection services in Condamine, Kogan, Miles and Wandoan are cancelled due to flooding.

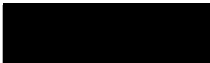
Tara and District Update

All roads to and from Tara are now closed, however at this stage the township of Tara is not expected to require evacuations.

Residents requiring updates on road conditions should contact Main Roads on 13 19 40, visit the website www.131940.qld.gov.au or contact the RACQ on 1300 130 595. Residents can also monitor weather forecasts at the Bureau of Meteorology's website www.bom.gov.au.

For flood and storm assistance contact the SES on 132 500 and in a life-threatening emergency which includes people becoming trapped in floodwaters call triple zero (000) immediately.

Media Contact:



Strategy and Communications Manager



Media Release

9 January 2011 – Issued 9.10pm

Residents warned to brace for more floods

Residents of the Western Downs town of Dalby have been warned to brace for more flash flooding today with river catchments swollen by heavy rain that lashed the district yesterday yet to reach their peaks.

With continued thunderstorms and rain expected across much of the Dalby district today, Western Downs Regional Council and emergency services crews are bracing for the Myall Creek to peak.

Western Downs Mayor Ray Brown said Council will continue to monitor river heights in the upper catchment area throughout the day and would advise residents if conditions change due to further rain.

"I stress there is no expectation at this time that nearby houses will be inundated with water.

"The extent of the current rain situation could mean localised flooding in low lying areas will occur."

Cr Brown advises residents who experienced flooding previously to move vehicles and other property such as boats and caravans to higher ground out of the path of encroaching water on their property.

The Weather Bureau has advised that falls may be heavier than predicted and information via press releases will be forthcoming as the situation continues to be monitored.

"Council is working closely with the Weather Bureau to ascertain likely water levels and as that information comes to hand we will keep the general public informed and up-to-date on the flood situation," Cr Brown said.

Residents requiring flood assistance or information are asked to call the SES on 132 500.

To monitor weather forecasts visit the Bureau of Meteorology's website www.bom.gov.au

For updates on road conditions contact Main Roads on 13 19 40, visit the website www.131940.qld.gov.au or contact the RACQ on 1300 130 595.

Media Contact:

Media Officer

Media Release

10 January 2011 – Issued 7.10pm

New flood peak of 3.8 metres later tonight in Dalby

Residents of Dalby escaped major flooding at the weekend, but are now preparing to endure their fifth and biggest flood event in almost two weeks.

Western Downs Mayor Ray Brown said Myall Creek is currently at 3.74 metres and anticipates it to peak at 3.8 metres later this evening.

"Our latest indication from the Bureau of Meteorology is that the Creek will reach a new flood peak of 3.8 metres at some stage this evening.

"The Myall Creek water level is rising rapidly after heavy rainfall yesterday dumped a large amount of water in the upper Clydesdale and Moffatt catchments.

"The Bureau say this heavy rain will see fast river rises move downstream which will result in moderate to major flash flooding along the Myall Creek."

Mayor Brown encourages residents living along Myall Creek to remain cautious and to move their vehicles and valuables to higher ground immediately.

"At the new peak of 3.8 metres and with water levels predicted to further rise, some houses in close proximity to the Myall Creek are expected to be inundated. I advise residents living in low lying areas to evacuate to higher ground as a precaution.

"An emergency SMS alert was sent to residents this afternoon urging residents to self-evacuate to family and friends or to an evacuation centre.

"The Charles Drew Bridge has been closed to all east and west bound traffic. The bridge is open to emergency services vehicles only.

"The Edward Street Weir, Patrick Street Bridge to Cunningham Street, Marble Street and Jimbour Street remain closed."

Cr Brown said Council will continue to monitor river heights in the upper catchment area throughout the evening and will advise residents if conditions change.

"Council is working closely with local police and SES to monitor the flood conditions and will keep the community updated with regular updates," he said.

Any concerned residents with enquiries should contact the Dalby Disaster Coordination Centre on telephone 07 4662 6666.

Chinchilla District Update

Heavy rainfall in the northern catchment has triggered a flood watch for Charley's Creek in Chinchilla. Emergency services personnel have activated anticipating a flood event to develop during the night.

Condamine District Update

A significant downpour of rain has occurred this afternoon in Condamine adding to the frustration of the clean up crews. Residents of Condamine are recommended to boil their water until a clean bill of health in relation to a potable water supply is confirmed. This is also the case for the township of Warra.

Residents requiring flood assistance or information are asked to call the SES on 132 500.

To monitor weather forecasts visit the Bureau of Meteorology's website www.bom.gov.au

For updates on road conditions contact Main Roads on 13 19 40, visit the website www.131940.qld.gov.au or contact the RACQ on 1300 130 595

Media Contact:



Media Officer



Media Release

11 January 2011 – Issued 12.35pm

Myall Creek holds steady this morning

The Myall Creek in Dalby was hovering steady at 3.5 metres this morning after reaching its highest peak since the Christmas flood of 3.8 metres last night.

"Water levels have fallen slightly and are currently holding at around 3.5 metres since 6am this morning," Western Downs Mayor Ray Brown said.

"However with more rain forecast by the Bureau further rises are predicted where levels could reach a renewed peak of 3.8 metres during tonight or early tomorrow morning."

Western Downs Regional Council will continue to monitor the steadily flowing Myall Creek throughout the day in anticipation of further rises following overnight storms in the local area.

Charles Drew Bridge remains closed to all east and west bound traffic. The bridge is open to Emergency and Council vehicles only.

Any concerned residents with enquiries should contact the Dalby Disaster Coordination Centre on telephone 07 4662 6666.

Dalby District Update

As of yesterday evening 200 evacuees are now residing at evacuation centres set up in Dalby. Currently there are 80 evacuees at the Dalby Agricultural College, 20 evacuees at the Dalby Showgrounds and 100 evacuees at Dalby South School.

Loudoun Bridge is at 9.94 metres and rising. Causeway at Water Treatment Plant is 0.38 metres over. Downstream one lane of Loudoun Bridge is submerged.

Alarming heights are being recorded at the Condamine River at the Dalby Water Treatment Plant. This will severely impact upon the town's water supply. Council advises residents that Level Six restrictions remain in force and are asked to limit as much as they can their use of water.

Chinchilla District Update

Heavy rainfall of up to 200 millimetres was reported in Charley Creek catchment yesterday just upstream of the Chinchilla area. The Bureau of Meteorology estimate fast rises will continue during today with levels at 6.1 metres and rising.

Condamine Update

The Condamine River is showing alarming rises at this time with flood levels are forecast to reach the high levels of late December 2010 at Condamine. Fast rises and major flooding are expected in the Condamine River downstream during today and Wednesday. Major flooding continues with renewed rises expected during the next several days.

Residents of Condamine are recommended to boil their water until a clean bill of health in relation to a potable water supply is confirmed. This is also the case for the township of Warra.

Residents requiring flood assistance or information are asked to call the SES on 132 500. To monitor weather forecasts visit the Bureau of Meteorology's website www.bom.gov.au

For updates on road conditions contact Main Roads on 13 19 40, visit the website www.131940.qld.gov.au or contact the RACQ on 1300 130 595.

Media Contact:

Media Officer



BMT WBM Brisbane
Level 8, 200 Creek Street Brisbane 4000
PO Box 203 Spring Hill QLD 4004
Tel +61 7 3831 6744 Fax +61 7 3832 3627
Email bmtwbm@bmtwbm.com.au
Web www.bmtwbm.com.au

BMT WBM Denver
14 Inverness Drive East, #B132
Englewood Denver Colorado 80112 USA
Tel +1 303 792 9814 Fax +1 303 792 9742
Email denver@bmtwbm.com
Web www.bmtwbm.com.au

BMT WBM Mackay
Suite 1, 138 Wood Street Mackay 4740
PO Box 4447 Mackay QLD 4740
Tel +61 7 4953 6144 Fax +61 7 4953 5132
Email mackay@bmtwbm.com.au
Web www.bmtwbm.com.au

BMT WBM Melbourne
Level 5, 99 King Street Melbourne 3000
PO Box 804 Collins Street West VIC 8007
Tel +61 3 8620 6100 Fax +61 3 8620 6105
Email melbourne@bmtwbm.com.au
Web www.bmtwbm.com.au

BMT WBM Newcastle
126 Belford Street Broadmeadow 2292
PO Box 266 Broadmeadow NSW 2292
Tel +61 2 4940 8882 Fax +61 2 4940 8887
Email newcastle@bmtwbm.com.au
Web www.bmtwbm.com.au

BMT WBM Perth
Suite 3, 1161 Hay Street West Perth 6005
Tel +61 8 9328 2029 Fax +61 8 9484 7588
Email perth@bmtwbm.com.au
Web www.bmtwbm.com.au

BMT WBM Sydney
Level 1, 256-258 Norton Street Leichhardt 2040
PO Box 194 Leichhardt NSW 2040
Tel +61 2 9713 4836 Fax +61 2 9713 4890
Email sydney@bmtwbm.com.au
Web www.bmtwbm.com.au

BMT WBM Vancouver
401 611 Alexander Street Vancouver
British Columbia V6A 1E1 Canada
Tel +1 604 683 5777 Fax +1 604 608 3232
Email vancouver@bmtwbm.com
Web www.bmtwbm.com.au