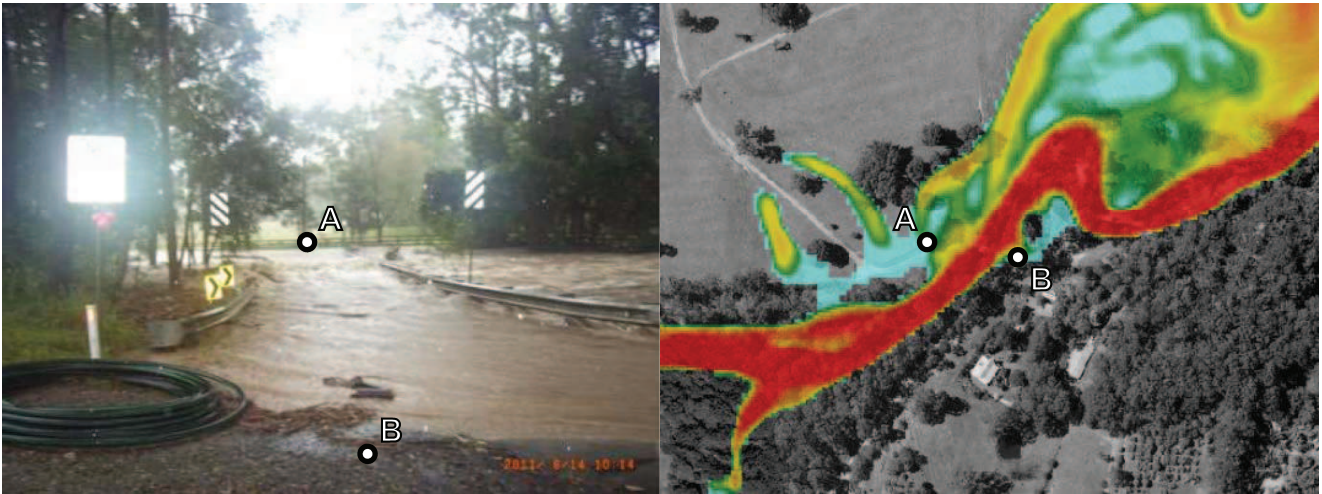
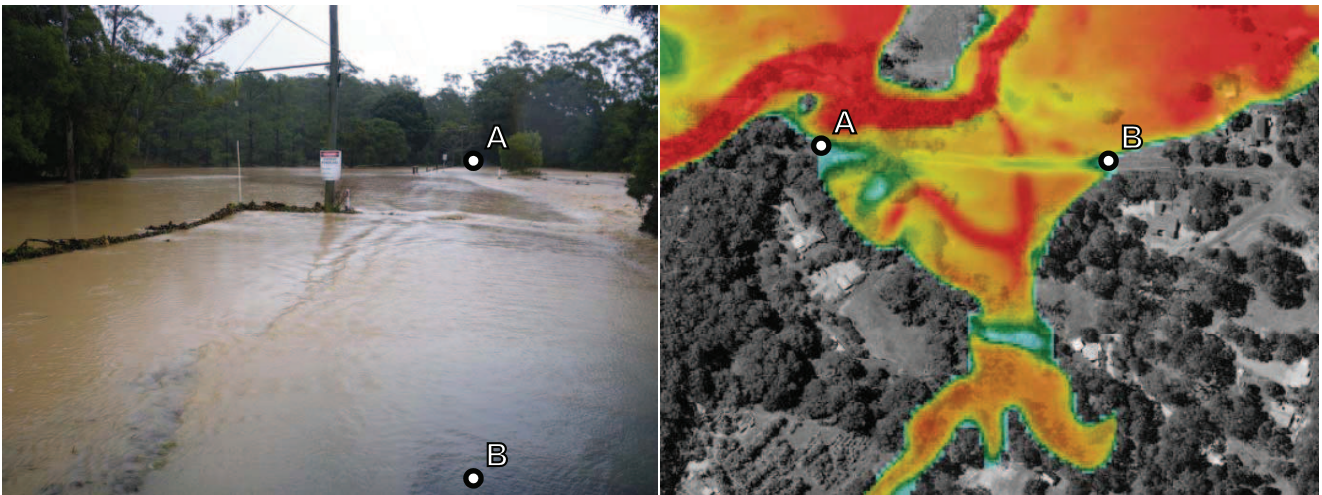
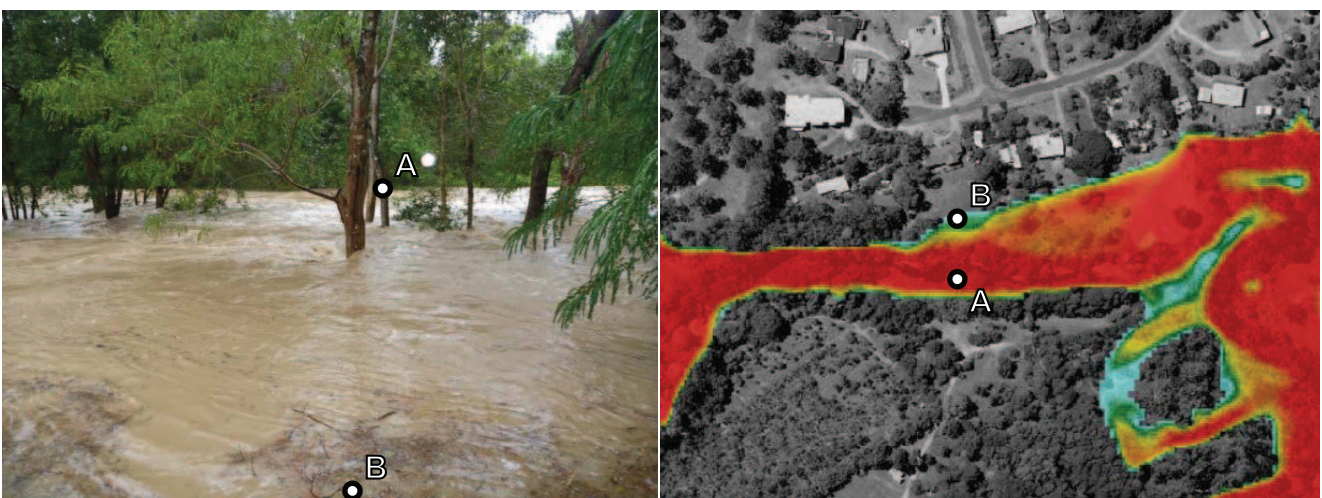

APPENDIX B: FLOOD PHOTOS FOR THE JUNE 2011 EVENT



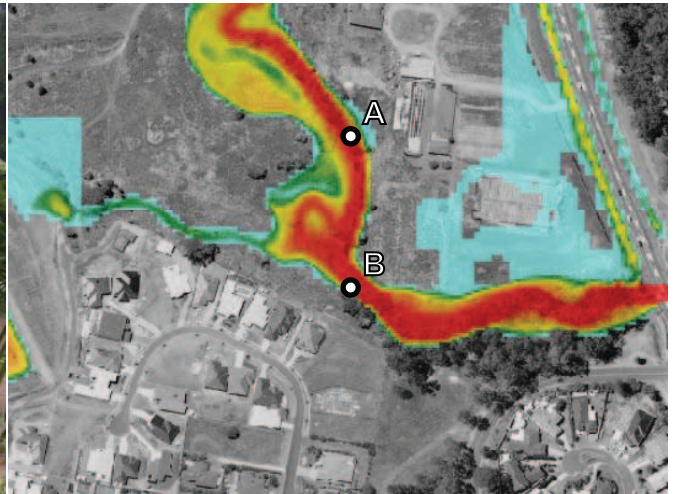
Woolgoolga Creek Road – Woolgoolga Creek can be seen overtopping the bridge just downstream of the gauging station. The deck of the bridge is estimated to be at around 19.6m AHD, with the top of the barrier at around 20.2m AHD. The peak flood level in the model is over 20.2m AHD, which matches well with the photograph.



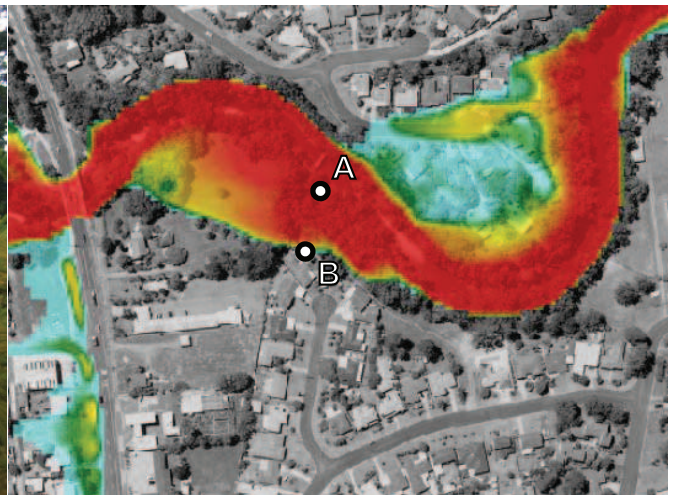
Woolgoolga Creek Road – Woolgoolga Creek Road can be seen being overtopped close to a tributary, located just upstream of the Woolgoolga Bypass alignment. The flood water in the photo can be seen flowing over the road. The model indicates a peak depth of around 0.4m flowing over the road across around a 200m length.



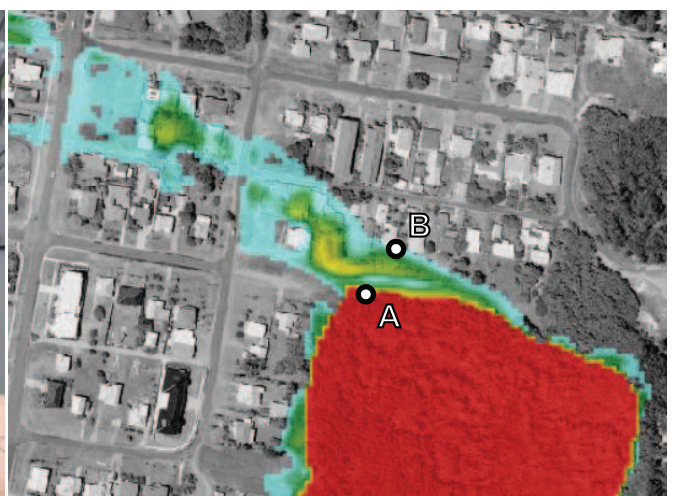
Gresham Drive – The photo shows flood flow within Woolgoolga Creek at the bottom of a property on Gresham Drive. There are a number of trees inundated on the left bank of the creek. The high velocities are evident though the turbulence on the water surface. The model results show a similar pattern of inundation and peak velocities between 1m/s and 2.5m/s.



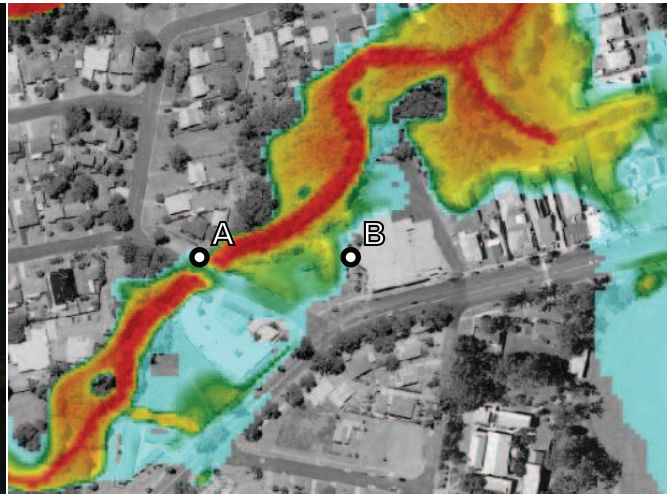
Vista Close – Pounding Creek can be seen in flood, inundating a number of trees on the creek bank. The high velocities where the creek bends can also be observed through the turbulence on the water surface. The flooding in the foreground is local runoff sitting within a small basin, with a dry creek bank located between. The model provides a similar pattern of inundation and peak velocities of over 1.5m/s round the creek bend.



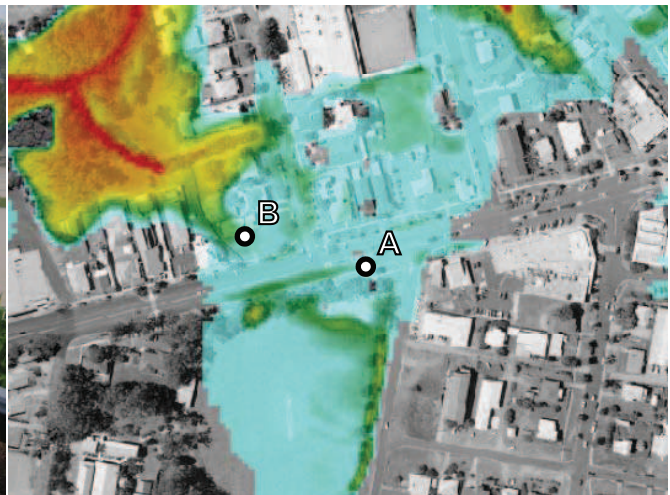
Kim Close – Woolgoolga Creek can be seen flooding the back yard of a property on Kim Close and the vegetated area beyond it. The inundation extends to the base of the steps down from the house to the yard. The model extents show a similar pattern of inundation.



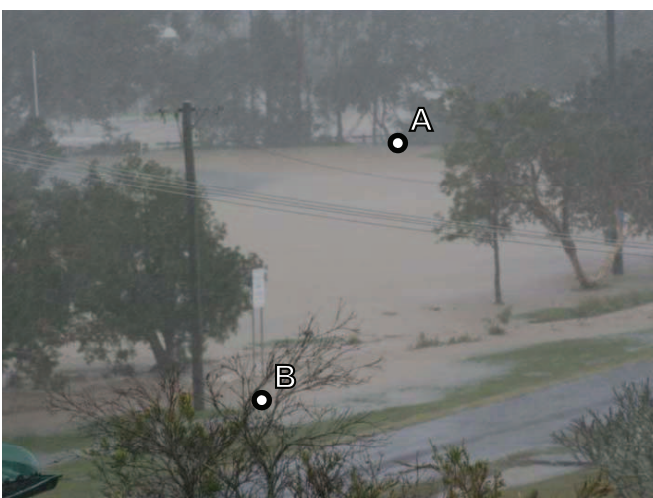
Trafalgar Street – The photograph shows flood waters from the swamp overtopping the bund on Trafalgar Street. The yards of the properties on Trafalgar Street are also flooded. The model shows a similar pattern of inundation with peak flood depths in the area of up to 0.5m.



Woolgoolga Diggers – The photo shows the car park of Woolgoolga Diggers inundated by flood waters from Jarrett Creek. The flood extents reach almost to the edge of the car park. The Bultitude Street bridge can be seen towards the background of the photo. The model provides a similar pattern of inundation with typical depths of 0.2m to 0.4m in the car park.



Beach Street – The photo shows widespread shallow inundation of the area around the Beach Street – Boundary Street intersection. The model indicates that water is flowing from the park, over Beach Street and then along Boundary Street and through surrounding properties, before reaching Jarrett Creek. The modelled widespread shallow inundation matches well with the photo.



Fawcett Street – The photo shows the park underwater and the drainage channel beside the road is flooded, but the road remains flood-free. Flooding on Beach Street can be observed in the background of the photo. The model shows extensive, shallow inundation of the area with the road remaining flood-free. This matches the evidence in the flood photo.

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 5144 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 604 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 9486 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