

### Stonehenge Flood Frequency Analysis NRM Gauge Station 003203A

Annual Exceedence Probability (%)	Peak Discharge (cumecs)	Monte Carlo 90% quantile probability limits	Peak Level (m Gauge Datum)	Peak Level (m AHD)	
10.0	7420	810	11700	6.6	154.3
5.0	11300	7210	20200	7.5	155.2
2.0	17500	10300	37700	8.6	156.3
1.0	24100	12300	57500	9.4	157.1
0.5	38300	13900	84600	10.8	158.5
0.2	53100	15300	134000	12.1	159.8

Within gauged values  
Based on theoretical data ie extrapolated rating curve

- Note - Use this data with extreme caution and use in conjunction with the report:**
- 1 These estimates of flows and levels could change as a result of more detailed flood modelling and/or measurements during higher flood events.
  - 2 The levels only apply at the location of the gauging station
  - 3 The highest gauging was 9059 cumecs, so flows exceeding 9059 cumecs were estimated using an extrapolated rating curve.
  - 4 Peak Levels are to the gauge datum Gauge Zero at 147.67m AHD
  - 5 Levels estimated using Rating Curve estimated from cross-section using Manning's equation
  - 6 The flood event of 1974 has an estimated AEP of 1.3%.

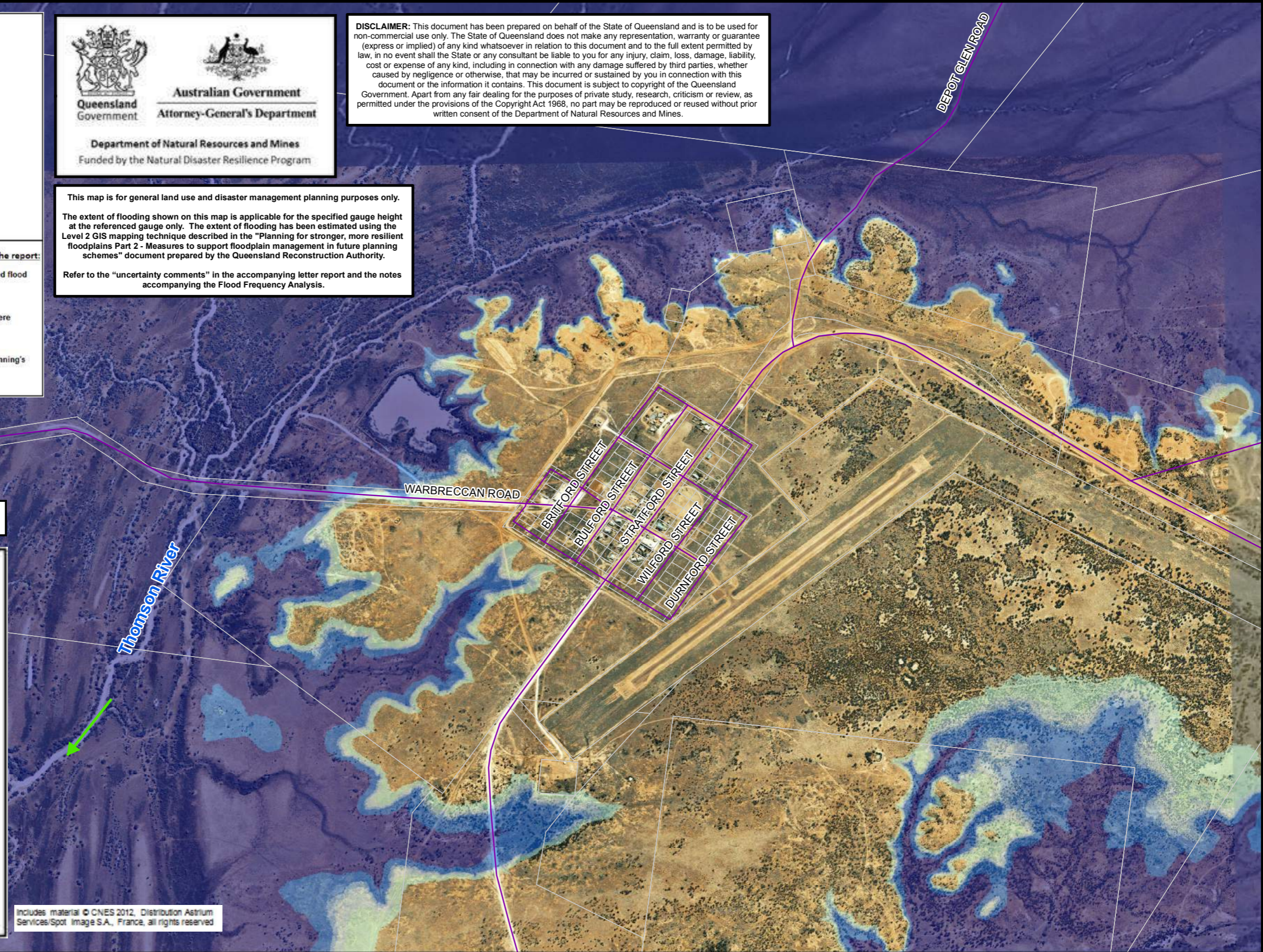
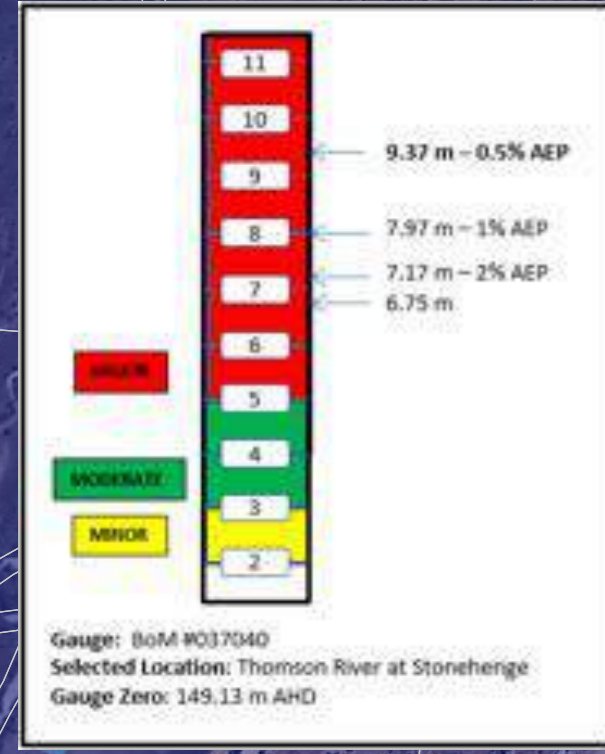


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This map is for general land use and disaster management planning purposes only. The extent of flooding shown on this map is applicable for the specified gauge height at the referenced gauge only. The extent of flooding has been estimated using the Level 2 GIS mapping technique described in the "Planning for stronger, more resilient floodplains Part 2 - Measures to support floodplain management in future planning schemes" document prepared by the Queensland Reconstruction Authority. Refer to the "uncertainty comments" in the accompanying letter report and the notes accompanying the Flood Frequency Analysis.

**NRM Gauge 003203A**  
**BoM Gauge 037040**

**Gauge Height = 9.37 m**



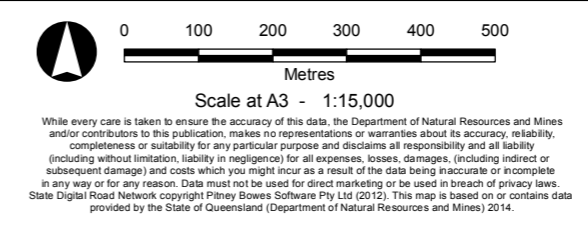
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- Points of interest
  - Roads
  - Rail
  - BoM gauging station
  - NRM gauging station
  - Cadastre
- Depth (m)**
- 0 - 0.5
  - 0.5 - 0.8
  - 0.8 - 1
  - 1-2
  - >2

Local Authority: Barcoo Shire Council  
Locality: Stonehenge  
Datum: Horizontal- Geocentric Datum of Australia 1994 (GDA94)  
Projection: Horizontal- Geocentric Datum of Australia 1994 (GDA94)

Department of Natural Resources and Mines  
13 QGOV (13 74 68)  
www.dnrm.qld.gov.au



**Stonehenge Gauge Height Map Depth and Extent Map 0.5% AEP Event 9.37 m at BoM gauge 037040 (i.e. 158.50 m AHD)**

04  
22/12/2014  
FINAL