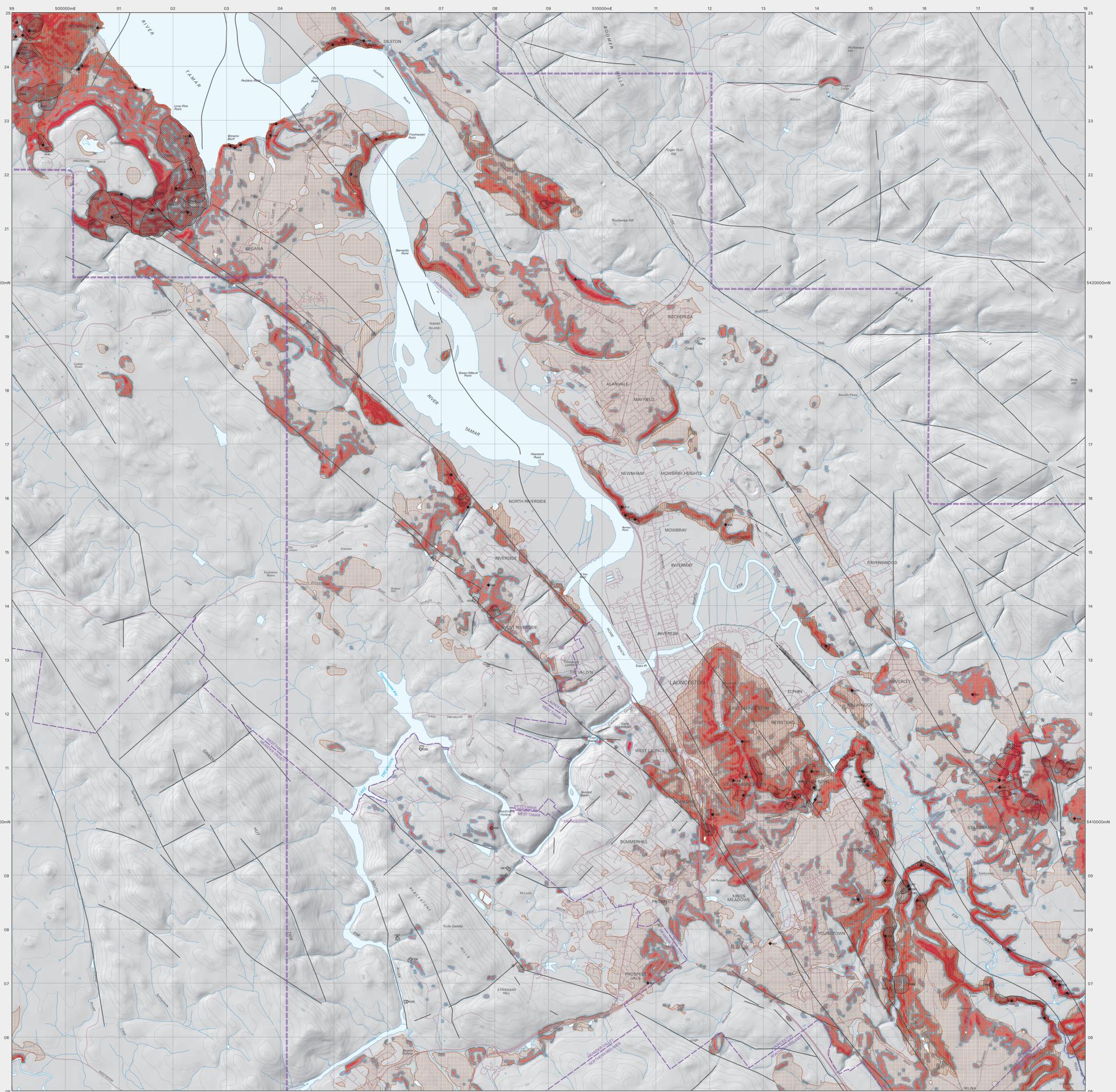


TASMANIAN LANDSLIDE HAZARD SERIES  
**LAUNCESTON – POTENTIAL LANDSLIDE HAZARDS**  
MAP 5 OF 5



**Landslide Hazard**

**Background, Aim and Purpose**

Large areas of land throughout Tasmania are subject to slope instability and about 60 hazards have been identified to date. The majority of these hazards are in the Launceston area. This map is intended to provide a visual overview of the potential for landslides in the Launceston area and to provide a basis for further assessment and planning.

**Hazard and Risk**

According to the joint Australian-New Zealand Standard (AS/NZS 4360:1999) risk is defined as the chance of something happening that will impact upon objectives. It is measured in terms of consequences and likelihood.

**Method**

A methodology has been developed for these maps and will be used for other urban areas of Tasmania. It can be downloaded from the MRT website.

**Conclusions**

The landslide hazard map has identified a number of areas, mainly within the urban development, that may have the potential for instability. Tertiary sedimentary rock units are much more prone to failure than surrounding units. The stability of the Tertiary units is expected to vary from site to site depending on a number of factors such as soil profile, slope, and structural integrity.

**Threshold values (degrees) for selected rock units:**

Unit	Ta angle	Ts angle
Weathered dolerite	12	15
Tertiary sediments and residual deposits	7	12
Unweathered dolerite and basalt	50	

The model has a number of inherent limitations and should be regarded purely as an indication of likely stability from a regional perspective. The model does not account for spatial variation in ground water levels, cover processes, geomorphology, lithology, fractures, structural orientation etc. all of which may have a significant effect on local stability.

**Other Potential Hazard Zones**

- Younger slopes on Tertiary sediments from Geology map
- Tertiary sediments derived from Geology map

**Modelled Landslide Hazard Zones**

- Area above 100% threshold (Td)
- Area above 50% threshold (Ta)
- Buffer zone

**Landslide Polygons**

- Recent or active shallow failure slope
- Recent or active medium slope
- Recent or active deep seated landslide
- Recent or active shallow failure slope
- Recent or active medium slope
- Recent or active deep seated landslide

**Landslide Points**

- Recent or active shallow failure slope
- Recent or active medium slope
- Recent or active deep seated landslide
- Recent or active shallow failure slope
- Recent or active medium slope
- Recent or active deep seated landslide

**Conceptual Diagram Illustrating Modelling Techniques for Identifying Landslide Hazard Zones**



**Examples of Landslides Depicted on the Map**



**LOCATION DIAGRAM**



**LANDSLIDE HAZARD SERIES**

Scale: 1:25 000  
AGDS86 - AMG Zone 55, Contour Interval 20m

**Citation:** West Tamar Council, 2004. Map 5, Launceston - Potential Landslide Hazard. Geographical Information System, Mineral Resources Tasmania, Department of Infrastructure, Energy and Resources, Hobart.

**Acknowledgements:** Landslide data entry and capture by N. Latham. Field checking by C. Calver, A. Egan, R. Hennessey, S. Johnson, C. Thompson and J. Siskin-Sell. Landslide modelling and map by G. M. M. M. M.

Map produced by the Data Management Branch, Mineral Resources Tasmania using GIS software.

**Disclaimer:** While every care has been taken in the preparation of this data, no warranty is given as to the completeness of the information and no liability is accepted for any statement or omission of fact or for any error or inaccuracy. The user of this data is advised to verify the accuracy of the data for their own purposes. The user of this data is advised to verify the accuracy of the data for their own purposes. The user of this data is advised to verify the accuracy of the data for their own purposes.

Copyright reserved.