

BURNIE

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION	
CENOZOIC	QUATERNARY	Qhmm	Man-made deposits (Qhmm).
		Qhd	Beach sand, sand dunes and beach gravel (Qhd).
		Qhs	Paralic clay, silt, sand and minor gravel deposits of modern salt marsh and associated tide flats (Qhs).
		Qhr	Sand of stabilised longitudinal beach ridges (Qhr).
		Qha	Stream alluvium, swamp and marsh deposits (Qha).
	PLEISTOCENE	Q	Colluvium.
		Qaf	Gravel deposits of alluvial fans (Qaf).
		Qx	Landslide deposits predominantly derived from weathered tertiary rocks (Qx).
		Qpsa	Older aeolian sand of coastal plain (Qpsa).
		Qpt	Talus (Qpt).
PALEOCENE - NEOCENE	Tw	Basalt (Tw), including local occurrences of alkali olivine basalt (Twa), nepheline basalt (Twb), and basanite (Tws). Predominantly deeply-weathered basalt (Tw).	
	Ts	Terrigenous sand, gravel and minor lacustrine deposits (Ts). Pleistocene alluvium, gravel, quartz sand and clay (Tsq).	
	Tt	Fluvial conglomerate, sandstone, siltstone and pebble conglomerate (Tt). Grey-silty and silty and including big and outcrop of silicified quartz sandstone and conglomerate (Ttb).	
	Tv	Lower valley-filling basalt. Olivine tholeiite (Tv).	
	Tb		

PERIOD	UNIT	DESCRIPTION
MESOZOIC	Om	Grey poorly sorted fine-grained sandstone, commonly bioturbated (correlate of Meira Sandstone) (Om).
	Op	Quartzite-like turbidite sequence of sandstone, siltstone and well bedded blocky mudstone (Op).
PROTEROZOIC	Pa	Pillow basalt (Pa).
	Ab	Dolerite (Ab).
DOUGALL COLEITE	Pob	Albite dolerite, melabasalt (Pob).

- Geological boundary - position accurate or approximate.
- Geological boundary - inferred.
- Axial surface trace of major antiform.
- Axial surface trace of major synform.
- Axial surface trace of major overturned synform.
- Axial surface trace of major later antiform.
- Axial surface trace of major later synform.
- Trends of older stabilised Holocene beach ridges.
- Trends of relict beach ridge related to regressive strandline of Last Interglacial Stage.
- (white line) Limit of mapping of sub-unit within undifferentiated rock unit.

- Strike and dip of bedding, right way up, facing unknown.
- Strike of vertical bedding, facing unknown.
- Strike and dip of bedding, overturned.
- Strike and dip of cleavage of unspecified type and relative age.
- Strike and dip of penetrative cleavage.
- Trend and plunge of minor fold hinge line, unspecified relative age, vergence sinistral.
- Trend and plunge of lineation of unspecified type.
- Trend and plunge of mineral elongation lineation.
- Trend and plunge of minor fold hinge, relative local age F1, horizontal.
- Trend and plunge of minor fold hinge, relative local age F2 or later.
- Trend and plunge of hinge line of minor synform, relative local age F2 or later.
- Notable small outcrop with rock unit indicated.
- Notable small fault or log occurrence, with rock type indicated.
- Field station for adjacent readings on the map.
- Mineral deposit location - hardrock.
- Construction material/industrial mineral/gemstone location.

Compiled by M.J. Vicary, B.Sc.(Hons), 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see responsibility diagram):

A GEE, R.D., GULLINE, A.B. and BRAVO, A.P. 1987. Geological Atlas 1:50 000 Series, Sheet 38 (BURNIE), Burnie, Tasmania Department of Mines.

B BURNS, K.L. 1983. Geological Atlas 1:50 000 Series, Zone 7 Sheet 29 (N8115 and IV), Devonport, Tasmania Department of Mines.

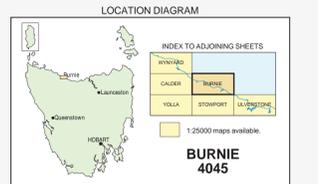
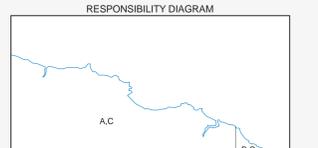
With additional information from:-

1 BERRIMAN, W. 1992. Notes on a geological reconnaissance of the Dial Range - ELN1992, Appendix B in FITZGERALD, F.G. 1993. ELN1992 Dial Range Annual Report June 1992 - June 1993. Unpublished Report, Palaeozoic Exploration, TCR 93-3447.

2 CRAWFORD, A.J. 1983. Summary and implications of petrographic work on Burnie Dial Range ELN1992, Appendix C in FITZGERALD, F.G. 1993. Palaeozoic Exploration, TCR 93-3447.

3 SPROULE, R.A. 1984. Stratigraphy and Geochemistry of the Dial Range Trough, NW Tasmania. BSc(Hons) thesis, University of Tasmania.

Updated by:
C Eward, J.L., Calver, C.R. and Ezy, A. 2006. Field checking and revision of geology as part of the Northwest Landslide Hazard Project.



REFERENCE THIS MAP AS:
VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4045, Burnie, Mineral Resources Tasmania.

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Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.
GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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