

BURNIE

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION	
CENOZOIC	QUATERNARY	Ohmm	Man-made deposits (Ohmm).
		Ohbd	Beach sand, sand dunes and beach gravel (Ohbd).
		Ohps	Paleic clay, silt, sand and minor gravel deposits of modern salt marsh and associated tidal flats (Ohps).
		Ohst	Sand of stabilised longitudinal beach ridges (Ohst).
		Oha	Stream alluvium, swamp and marsh deposits (Oha).
	PLEISTOCENE	Q	Colluvium.
		Qaf	Gravel deposits of alluvial fans (Qaf).
		Qps	Landslide deposits predominantly derived from weathered tertiary rocks (Qps).
		Qpsa	Older aeolian sand of coastal plain (Qpsa).
		Qpsl	Talus (Qpsl).
Qpsp	Older alluvial gravels of river terraces (Qpsp).		

PERIOD	UNIT	DESCRIPTION	
CENOZOIC	TERTIARY	Tba	Basalt (Tba), including local occurrences of alkali olivine basalt (Tbaa), nepheline syenite (Tbn), and basaltite (Tbs). Predominantly deeply-weathered basalt (Tbw).
		Ts	Terrestrial sand, gravel and minor lacustrine deposits (Ts). Interbedded siliceous gravel, quartz sand and clay (Tsq). Poorly consolidated interbedded claystone, sandstone and pebble conglomerate (Tsa). Grey-silty and shaly and including lag and outcrop of silicified quartz sandstone and conglomerate (Tsq).
		Tbt	Lower valley-filling basalt, Olivine tholeiite (Tbt).
PROTEROZOIC	PALEOZOIC (EARLY CROONIAN)	Osm	Grey poorly sorted fine-grained sandstone, commonly bioturbated (correlate of Maha Sandstone) (Osm).
		Po	Quartzite turbidite sequence of sandstone, siltstone and well bedded block shaly mudstone (Po).
PROTEROZOIC	PROTEROZOIC	Pob	Pillow basalt (Pob).
		INTRUSIVE ROCKS	
JURASSIC	Jd	Dolerite (Jd).	
PROTEROZOIC	Pob	Albite dolerite, metabasalt (Pob).	

- Geological boundary - position accurate or approximate.
- Aval surface trace of major antiform.
- Aval surface trace of major synform.
- Aval surface trace of major overturned antiform.
- Aval surface trace of major later antiform.
- Aval 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.

- Strike and dip of bedding, right way up.
- Strike and dip of bedding, 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.
- 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.
- Trend of horizontal minor fold hinge line, relative local age F1.
- Trend and plunge of minor fold hinge, relative local age F2 or later.
- Trend and plunge of hinge line of minor antiform, 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 float or lag occurrence, with rock type indicated.
- Mineral deposit location - hardrock
- Mineral deposit location - alluvial
- Construction materials location - Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see Responsible Diagram):

A SEE, R.D. DULLINE, A.S. and BRAY, A.P. 1987. Geological atlas 1 mile series. Sheet 28 (8915N) Burnie. Tasmania Department of Mines.

B BURRIS, K.L. 1963. Geological atlas 1 mile series. Zone 7 Sheet 29 (8915E) and 30 (8915W) Burnie. Tasmania Department of Mines.

With additional information from:-

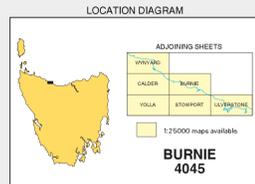
1 HERRMANN, W. 1993. Notes on a geological reconnaissance of the Dial Range - ELB 1992. Appendix B in FITZGERALD, P.G. 1993. 1:10 000 Dial Range Annual Report June 1992 - June 1993. Unpublished Report. Palaeontological Exploration. TCR 92-3-447.

2 CHAFFORD, A.J. 1993. Summary and implications of petrographic work on Palaeozoic Dial Range ELB 1992. Appendix C in FITZGERALD, P.G. 1993. ELB 1992 Dial Range Annual Report June 1992 - June 1993. Unpublished Report. Palaeontological Exploration. TCR 92-3-447.

3 SPOWELL, R.A. 1984. Stratigraphy and Geochronology of the Dial Range Trough, NW Tasmania. BSc Honors thesis, University of Tasmania.

Updated by:

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



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VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25000 Series, sheet 4045 Burnie. Mineral Resources Tasmania.

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AOD68 - AMG Zone 55. Contour Interval: 20 metres.
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