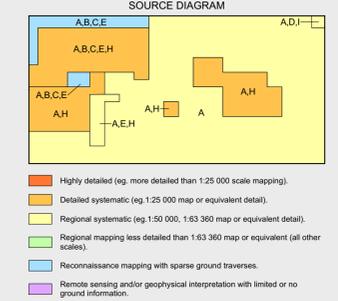


PERIOD	UNIT	DESCRIPTION	
CENOZOIC	QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).
		Qpbl	Basalt talsus (Qpbl).
		Qpdt	Undifferentiated talus deposits (Qpdt).
		Qpdt	Talus consisting dominantly of dolerite boulders (Qpdt).
		Qpdt	Tal. Talus and alluvial gravels (Qpdt).
	PLEISTOCENE - HOLOCENE	Qpvc	Fluvio-glacial and lacustrine deposits (Qpvc).
		Qpvc	Varved clay deposits (Qpvc).
		Qpvc	Glacial and glaciogenic deposits (Qpvc).
		Tb	Basalt (Tb).
		Tk	Undifferentiated Tertiary sediments: dominantly non-marine sequence of quartz sand, silt, clay and regolith (Tk).
MESOZOIC	TRIASSIC - NEOGENE	Rqs	Cross bedded quartz sandstone, feldspathic sandstone and shale (Rqs).
		Puqgm	Unfossiliferous pebbly siltstone, siltstone and sandstone (correlate of Rogers Gap Group but including the Garcia Sandstone) (Puqgm).
	PERMIAN	Puqgm	Sandstone, mudstone and pebbly mudstone with marine fossils (correlate of Poatina Group but excluding the Garcia Sandstone) (Puqgm).
		Pfs	Dominantly well-sorted quartz sandstone, normally cross-bedded or laminated and commonly with interbedded and laminated carbonaceous shale, lesser conglomerate and rare coal (Lilly Sandstone) (Pfs).
		Pks	Interbedded conglomerate, pebbly sandstone and siltstone, and richly fossiliferous limestone (Kansas Creek beds) (Pks).
SILURIAN - ORDOVICIAN/DEVONIAN	SD	Quartz sandstone, laminated siltstone and shale (SD).	
	Oi	Dark grey limestone, dolomite, calcareous mudstone and minor quartz sandstone. In part fossiliferous (correlate of Gordon Group) (Oi).	
	Osm	Modular micritic limestone and bioturbated pyritic mudstone. Sparsely fossiliferous (Eggenra Formation) (Osm).	

PERIOD	UNIT	DESCRIPTION
MESO-PROTEROZOIC	Cdgbp	Interbedded pale grey vitric (s crystals) epiclastic siltstone and sandstone with dark grey cherty siltstone. Some mass flow deposits (Back Peak Beds) (Cdgbp).
	Pfs	Dominantly quartzite (Pfs).
INTRUSIVE ROCKS	Jd	Dolerite and related rocks (Jd).
	Cdgbp	Quartz-feldspar ± biotite ± hornblende porphyry (Cdgbp).
PALEOZOIC	Cdgbm	Fine-grained oligoclase equi-granular biotite ± hornblende-bearing micro-granite (Cdgbm).
	Cdgsn	Medium-grained hypsidiomorphic equi-granular muscovite-bearing syeno-granite, strongly silica and sericite altered (Cdgsn).

SYMBOL	DESCRIPTION
—	Geological contact.
- - -	Geological contact - inferred.
- · - · -	Geological contact - inferred from radiometric data.
- · - · -	Unconformable lithological contact.
- · - · -	Igneous intrusive contact.
- · - · -	Limit of mapping of sub-unit within undifferentiated rock unit.
- · - · -	Limit of detailed mapping.
- - -	Fault.
- - -	Fault - inferred.
- - -	Axial surface trace of major antiform.
- - -	Lineament - visible on aerial photographs.

SYMBOL	DESCRIPTION
↗	Strike and dip of bedding, facing unknown; vertical.
↘	Strike and dip of compositional layering; vertical.
↗ ↘	Strike and dip of cleavage of unspecified type and relative age.
↗ ↘	Strike and dip of metamorphic foliation other than cleavage.
↗ ↘	Strike and dip of metamorphic foliation other than cleavage, relative local age S <sub>1</sub> , S <sub>2</sub> .
↗ ↘	Trend and plunge of mineral elongation lineation.
↗ ↘	Horizontal lineation L <sub>1</sub> formed by intersection of cleavages or foliations of relative local ages S <sub>1</sub> and S <sub>2</sub> .
↗ ↘	Trend and plunge of crenulation lineation.
↗ ↘	Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface.
↗ ↘	Trend and plunge of minor fold hinge line, unspecified relative age, vergence sinistral.
↗ ↘	Trend and plunge of minor fold hinge line, relative local age F <sub>1</sub> .
*	Field station for adjacent readings on the map.
*	Mineral deposit location - hardrock.
*	Mineral deposit location - alluvial/alluvial.
*	Construction material/industrial mineral/gastone location.



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

A JENNINGS, I.B. and BURNS, K.L. 1968. Geological Atlas 1 Mile Series, Zone 7 Sheet 45, Middlesex, Tasmania Department of Mines.

B HERRMANN, W. 1989. Notes on Reconnaissance Stream Sediment Sampling in the Mona-Lortina Area, NW Tasmania. RGC Exploration Pty Ltd, Appendix F in TCR 89-3028.

C AUSTIN, G., SERIM, S. and WALSHAM, B.T. 1973. Exploration for Porphyry Copper, the Dove Granite area, Tasmania. Preliminary Report Curditt Minerals and Associates Pty Ltd, Fremont of Australia Incorporated.

D BURFETT, C., BANKS, H., CLUTA, G. and SEYMOUR, D. 1989. Lithostratigraphy of the Ordovician Gordon Group, Mole Creek Tasmania. Rec. Queen Victoria Museum, No. 96.

E Air photograph and WTRMP geophysical data interpretation by M. Vicary.

F PEMBERTON, J. and VICARY, M.J. 1985. Mt Read Volcanics Project Map 8, Tasmania Department of Mines.

G BARTON, C.M., BURNS, K.L., GEE, R.D., GROVES, D.I., GULLINE, A.B., JENNINGS, D.J., LONGMAN, M.J., MARSHALL, B., MATTHEWS, W.L., MOORE, W.R., NAGY, I.H., THREADER, V.M. and UPODHART, G. 1969. Geological Atlas 1 Mile Series, 80/AN 1 & 2 Zone 7 Sheet 44, Macdonald, Tasmania Department of Mines.

Updated by:

H D.C. Green, 2007 as part of the TasExplore Project.

I C.R. Calver and B.S. Wainwright 2013. Mapping and air photo interpretation.

REFERENCE THIS MAP AS:  
VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4239 LiENA, Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.  
Map produced by Spatial Information Services, Mineral Resources Tasmania.  
Website: www.mrt.tas.gov.au

GD494 - MGA Zone 55. Contour Interval: 20 metres.

