



CENOZOIC	
QUATERNARY	<p><b>Q</b> Undifferentiated Quaternary sediments (Q). Stream alluvium, swamp and marsh deposits (Qha). Gravels formed of well-rounded siliceous clasts in fine silt to coarse sand constituting channelised flood plain and river terrace deposits (Qhqc).</p> <p><b>TQ</b> Undifferentiated Cainozoic sediments, including bouldery slope and fan deposits (Pleistocene) - Holocene and possible Tertiary sediments at lower levels (TQ).</p>
PALEOGENE - NEOGENE	<p><b>Tcc</b> Undifferentiated Paleogene - Neogene (T).</p> <p><b>Tcqd</b> Poorly indurated siliceous pebbles to cobble conglomerate horizons containing more than 5% dolerite clasts (Tcqd).</p> <p><b>Tcc</b> Siliceous pebbles to cobble conglomerate (Tcc).</p> <p><b>Tscb</b> Fine to medium grained quartz sandstone with carbonaceous siltstone laminae commonly containing plant stems and leaf impressions (Tscb).</p> <p><b>Tscpb</b> Pebbly, calcareous sandstone commonly containing plant stems and leaf impressions (Tscpb).</p> <p><b>Tfb</b> Silcrete or ferritic breccia (Tfb).</p>

PALEOZOIC	
ORDOVICIAN	<p><b>COms</b> Undifferentiated shallow marine - non-marine siliciclastic conglomerate - sandstone sequence - Owen Group and correlative (CO).</p> <p><b>CO</b> Interbedded laminated siltstone, micaceous sandstone, graded greywacke and minor siliceous conglomerate (COms).</p> <p><b>COcl</b> Mostly gray/white to pale pink pebble-cobble conglomerate interbedded with gray sandstone (correlative of Lower Owen Conglomerate) (COcl).</p>
CAMBRIAN	<p><b>Cdc</b> Mainly volcanoclastic conglomerate and sandstone of Upper Tyndall Group (Cdc).</p> <p><b>Cdsv</b> Dominantly felsic volcano-sedimentary rocks, typically quartz-feldspar-phyric (correlative of Yolande River Sequence) (Cdc).</p>
NEOPROTEROZOIC	<p><b>Pdvl</b> Mudstone and basaltic lithicwacke sequence (Pdvl).</p> <p><b>Pdvb</b> Basalt with minor interbedded basal breccias, tufts and sedimentary rocks (Lucas Creek Volcanics) (Pdvb).</p>
NEOPROTEROZOIC	<p><b>Pdsm</b> Variably calcareous mudstone, siltstone and sandstone (Pdsm).</p>
7 MESO-PROTEROZOIC	<p><b>Pt</b> Metamorphosed interbedded orthoquartzite and mudstone/siltstone with conglomerate horizons (Pt).</p>
7 CAMBRIAN	<p><b>Cgr</b> Gabbro dykes, intrusive bodies and fault-bound units (Cgr).</p>

CONTACTS	
	Geological contact.
	Geological contact - inferred.
	Limit of mapping of sub-unit within undifferentiated rock unit.

  

FAULTS	
	Fault.
	Fault - inferred.
	Fault - concealed.
	Thrust fault (teeth on upper plate).

  

LINEARS	
	Scarp.

  

SYMBOLS	
	Strike and dip of bedding, facing known - right way up; overturned.
	Strike and dip of bedding, facing unknown - dipping; vertical.
	Strike and dip of cleavage of unspecified type and relative age.
	Strike and dip of cleavage, relative local age S <sub>1</sub> - dipping; vertical.
	Strike and dip of cleavage, relative local age S <sub>2</sub> .
	Trend and plunge of minor fold hinge-line, unspecified relative age, with dip and dip direction of axial surface.
	Trend and plunge of hinge-line of minor fold, relative local age F <sub>1</sub> , with dip and dip direction of axial surface; F <sub>2</sub> , F <sub>3</sub> with dip and dip direction of axial surface.
	Generalized palaeocurrent direction - showing sense of movement; polarity unspecified.
	Trend and plunge of palaeocurrent lineation, polarity down plunge.
	Field station for adjacent readings on the map.
	Mineral deposit location - hardrock.



Compiled by D.C. Green, B.Sc.(Hons), Ph.D., 2001 from the following sources (see source diagram):

A MacLENGHAN, M.P.; FINDLAY, R.H. 1989. Geological Atlas 1:50 000 Series. Sheet 64 (7915). Macquarie Harbour. Tasmania. Department of Mines.

B BROWN, A.V., CALVER, C.R., CORRETT, K.D., FORSYTH, S.M., GOSCOMBE, B.D., GREEN, G.R., MacLENGHAN, M.P., PEMBERTON, J., SEYMOUR, D.B. (compilation) 1995. Geological Atlas 1:250 000 Digital Series. Geology of Southwest Tasmania. Mineral Resources Tasmania.

C Mathison, J.J. 1985. Part of ES 3183 - Clark River area and Bird River area. EZ Co - unpublished report (TCR 85-246).

Updated as part of the Western Tasmanian Regional Minerals Program by:

D VICARY, M.J. 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05. Mineral Resources Tasmania.

E CORRETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics belt in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

**REFERENCE THIS MAP AS:**  
GREEN, D.C. (compiler) 2001. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3631 Philips. 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](http://www.mrt.tas.gov.au)  
GDSM - MGA Zone 55. Contour Interval: 20 metres.

While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data. Crown copyright reserved.

