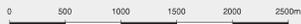


# GOULDS

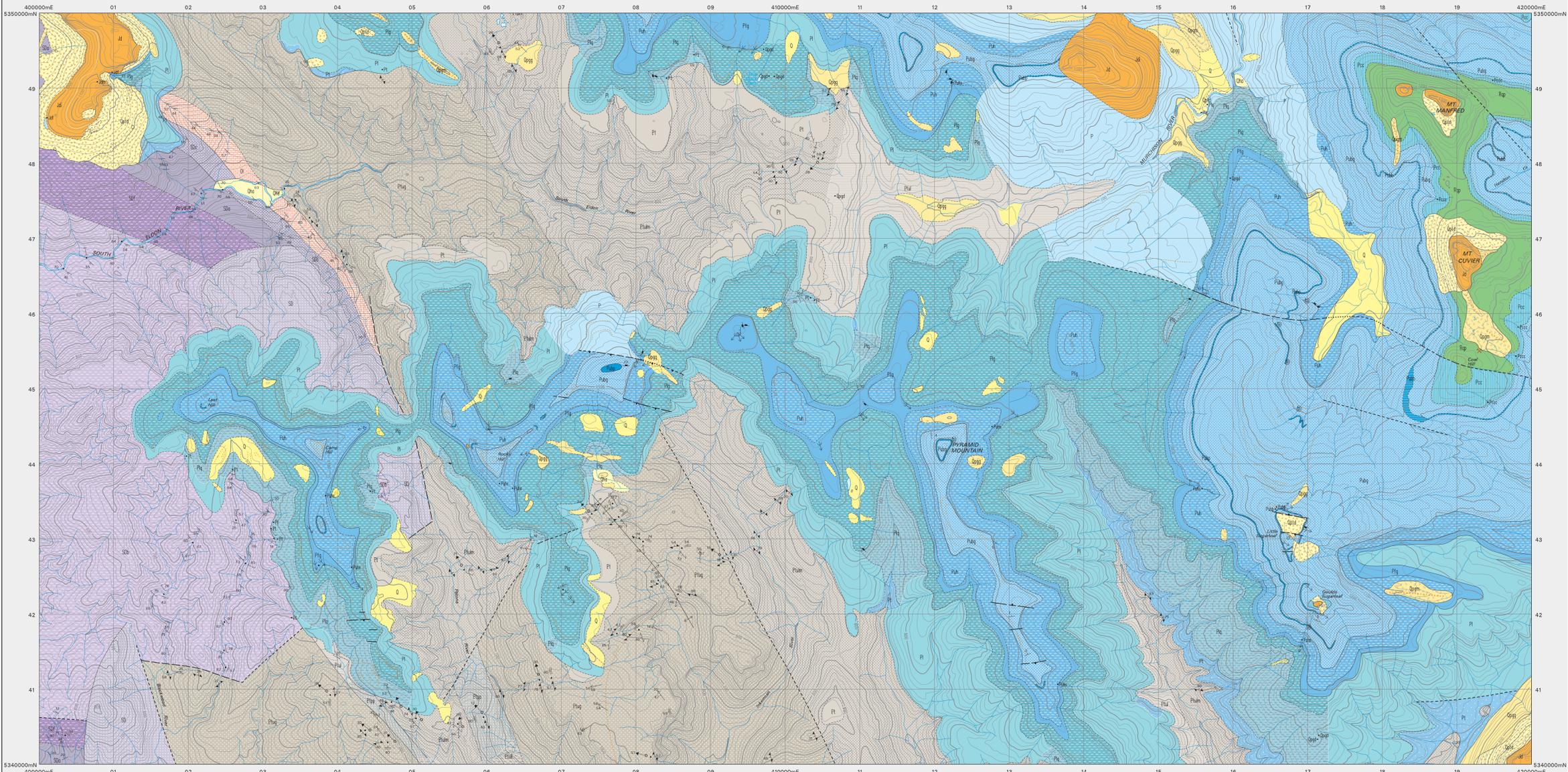
Scale: 1:25 000



MINERAL RESOURCES TASMANIA  
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES  
GOULDS, SHEET 4034



MINERAL RESOURCES  
Tasmania  
DEPARTMENT OF INFRASTRUCTURE  
ENERGY AND RESOURCES



PERIOD	UNIT	DESCRIPTION
CANGEROONIAN	Qha	Stream alluvium, swamp and marsh deposits (Qha).
	Qp	Sieve of dolerite boulders (Qprr).
	Qp	Talus consisting dominantly of dolerite boulders (Qpbd).
	Qp	Talus dominantly of Lower Permian Supergroup rocks and Jurassic dolerite (Qpdp).
MESOZOIC	Qp	Younger glacial deposits, mostly of till, unweathered or slightly weathered (Qpgr).
	Qp	Glacial and glaciolacustrine deposits (Qpgr), with isolated dolerite glacial erratics (Qpgrd).
	Qp	Moraine and associated deposits (Qpgrm).
MESOZOIC	Rap	Dominantly freshwater cross-bedded quartzose sandstone, micaceous siltstone and mudstone (correlate of Ossa Formation) (Rap).
	Pu	Freshwater feldspathic sandstone and siltstone, occasionally carbonaceous (correlate of Cygnet Coal Measures) (Pcc).
	Pu	Local occurrences of coal seams within Pcc (Pcc).
	Pu	Glacio-marine, sparsely fossiliferous, poorly-sorted mudstone, siltstone and silty sandstone with drapstones. Drapstones more common below Blackwood Conglomerate horizon (correlate of Bogan Cap Group) (PuB).
PALAEOZOIC	Pu	Quartzose pebbly sandstone, granite to pebble conglomerate and sandstone and cross-bedded sandstone (possible correlate of Blackwood Conglomerate) (PuB).
	Pu	Well-sorted medium- to coarse-grained sandstone with thin conglomerate layers (possible correlate of Palmer Sandstone) (PuB).
	Pu	Glacio-marine, generally richly fossiliferous siltstone, sandstone and subordinate conglomerate, sandstone and impure limestone (PuB).
	Pu	Dark grey siltstone with Barrowan Stage fauna (PuB).
PALAEOZOIC	Pu	Green conglomeratic sandstone (PuB).
	Pu	Cross-bedded rippled or planar bedded quartz sandstone and carbonaceous siltstone, commonly enclosing a middle interval dominantly of siltstone, locally with drapstones and bioturbated (PuB).
	Pu	Glacio-marine siltstone and very fine-grained sandstone, sparsely fossiliferous with a middle interval including well-sorted bioturbated sandstone with conglomerate lenses and some richly fossiliferous beds (correlate of Galvan Valley Group) (PuB).
	Pu	Massive to poorly bedded grey uniform fine- to medium-grained siltstone with occasional iron sulphide concretions and rare phenocrysts. Rare thin layers of fossiliferous (correlate of Quency Mudstone) (PuB).
PALAEOZOIC	Pu	Cobble and subordinate boulder tillite with intervals of laminated mudstone and fine-grained sandstone, absent in some areas (Pu).

PERIOD	UNIT	DESCRIPTION
DEVONIAN	Sdb	Mudstone, siltstone, minor fine-grained sandstone and rare limestone (correlate of Bell Formation) (Sdb).
	Sdb	Fine-grained quartz sandstone and minor siltstone and mudstone (correlate of Florence Formation) (Sdb).
	Sdb	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amber Formation) (Sdb).
SILURIAN	Sdb	Fine- to coarse-grained quartz-rich sandstone, calcareous sandstone and minor mudstone (correlate of Oatley Formation) (Sdb).
	Sdb	Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and black clay weathering products. In part fossiliferous (Gordon Group and correlates) (G).
ORDOVICIAN	Plu	Lithologically undifferentiated, commonly garnetiferous, rocks of relatively high metamorphic grade, including massive schistose quartzite and fine- to coarse-grained pelitic quartz-mica schist (Plu).
	Plu	Dominantly grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garnetiferous and relatively low metamorphic grade (Plu).
	Plu	Lithologically undifferentiated rocks of intermediate to low metamorphic grade (garnet minor to absent), including phyllite, fine-grained quartzite and dolomitic schist (Plu).
	Plu	Lithologically undifferentiated rocks of low metamorphic grade and unmetamorphosed rocks (Plu).
MESO-PROTEROZOIC	Plu	Lithologically undifferentiated rocks of low metamorphic grade including non-garnetiferous quartzite and phyllite (Plu).
	Plu	Massive, silicified and calcic dolomite and dolomitic breccia interbedded with pelitic phyllite and fine-grained phengitic quartzite (Plu).
	Plu	Intrusive rocks

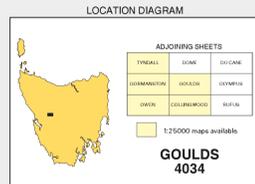
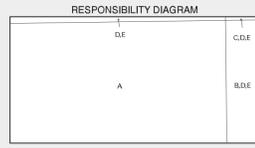
PERIOD	UNIT	DESCRIPTION
MESOZOIC	Jd	Dolerite and related rocks (Jd), including fine-grained (0.7-1.5mm) dolerite (Jd), medium-grained (1.5-3mm) dolerite (Jm), and inferred dolerite outcrop beneath surficial deposits (Jd).

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - - - -	Geological boundary - inferred.
- · - · - · -	Transitional geological boundary - position approximate.
· · · · ·	Moraine Ridge Crests.
- - - - -	Fault - unspecified type, position accurate or approximate.
- · - · - · -	Fault - unspecified type, inferred.
· · · · ·	Fault - unspecified type, concealed.
- - - - -	Normal fault (downthrown side indicated) - position accurate or approximate.
- · - · - · -	Normal fault (downthrown side indicated) - inferred.
· · · · ·	Normal fault (downthrown side indicated) - concealed.
· · · · ·	Lithological trend line.
↑	Axial surface trace of major anticline.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit ('Colour boundary').

SYMBOL	DESCRIPTION
↗	Strike and dip of bedding facing known, right way up.
↖	Strike and dip of bedding, facing unknown.
↗	Strike and dip of compositional layering.
↗	Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.
↗	Strike and dip of dominant joint set.
↗	Strike and dip of cleavage, relative local age S2, however locally S1 (in quartzite units) or S3 - dipping; vertical.
↗	Strike and dip of crenulation cleavage.
↗	Trend and plunge of lineation L2, formed by intersection of cleavages or foliations of relative local ages S1 and S2, relative local age L2.
↗	Trend and plunge of minor fold hingeline, unspecified relative age - with dip and dip direction of axial surface; with vertical axial surface.
↗	Generalised paleocurrent direction, showing sense of movement.
·	Field station for adjacent readings on the map.
·	Notable small outcrop.
⊗	Fossil location.
⊗	Mineral deposit location - hardrock
⊗	Mineral deposit location - alluvial
⊗	Construction materials location - Data derived from Mineral Resources Tasmania (MRT) DEPOSIT data base. Data point position has not been verified in every case.
⊗	Construction materials location - Data derived from Mineral Resources Tasmania (MRT) DEPOSIT data base. Data point position has not been verified in every case.

Compiled by M.J. Vucay, 2004 as part of the Western Tasmanian Regional Minerals Program. From the following sources (See Responsibility Diagram):  
A CALVER, C.R., BAILEY, P.W., EVERARD, J.L., SEYMOUR, G.R., WILLIAMS, P.F., FORSYTH, S.M., TURNER, D.J. and WILLIAMS, E. 1987. Geological atlas 1:50,000 series Sheet 0181. Tasmania Department of Mines.  
B GULLING, A.B., LONGMILL, M.J. and MATHEWS, W.L. 1962. Geological atlas 1:1 mile series. NBHS 1 and 1B Zone 7 Sheet 50 St Clair. Tasmania Department of Mines.  
C JENNINGS, I.E., MACLEOD, W.H., BURKE, K.L., JACK, R.H., MATHEWS, W.L., ROBINSON, R.G. and THREAGHER, V.M. 1980. Geological atlas 1:1 mile series. Zone 7 Sheet 53 Du Cane. Tasmania Department of Mines.  
D FORSYTH, S.M. Unpublished data.  
E Air photograph interpretation by M. Vucay.



Base data from the LIST, Copyright State of Tasmania.  
Map produced by the Data Management Branch of Mineral Resources Tasmania using GIS software.  
ADD64 - AMG 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 of 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.