MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
LODDON, SHEET 4032

LODDON

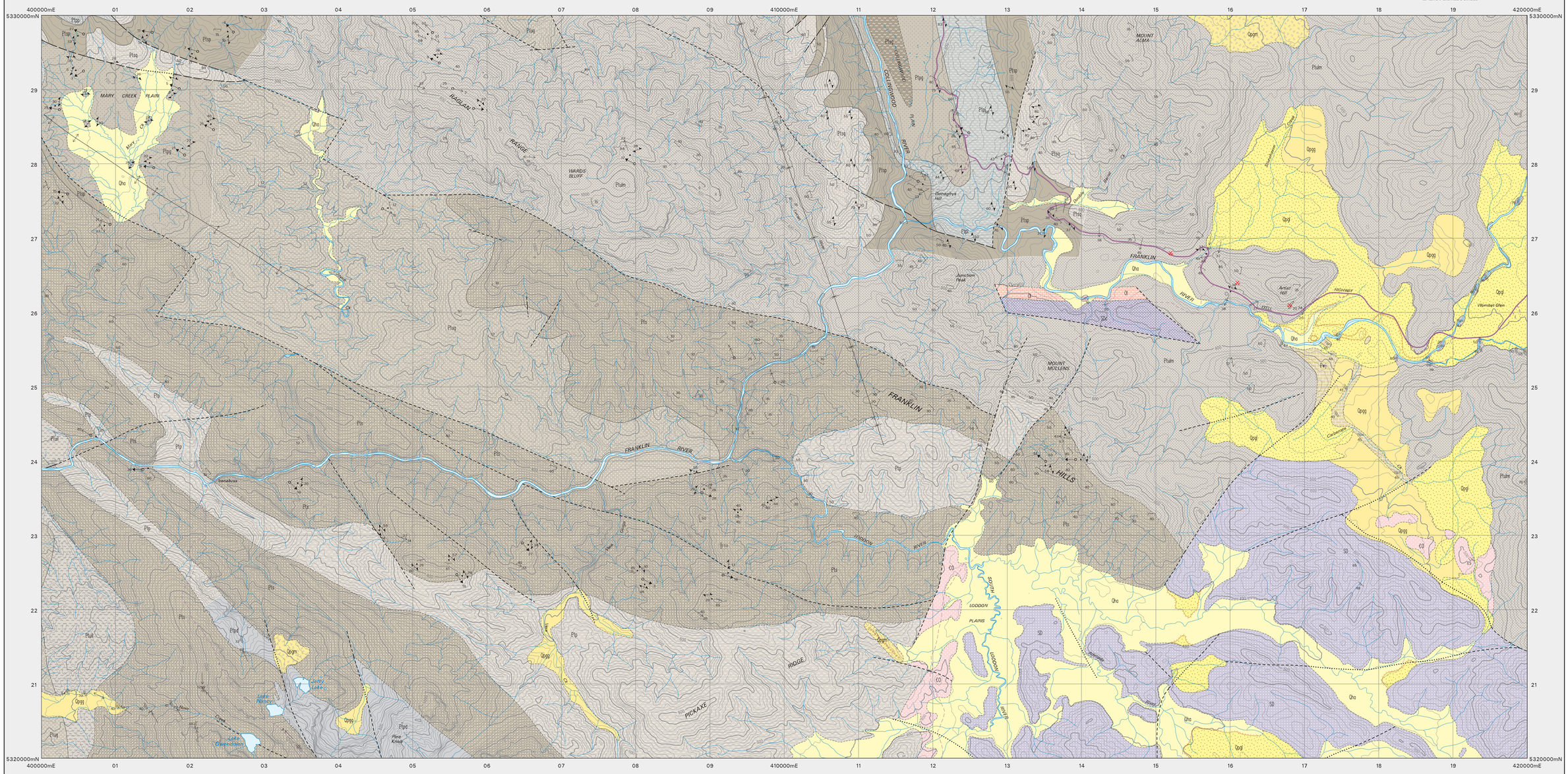
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC	QUATERNARY	HOLOCENE	Qha	Stream alluvium, swamp and marsh deposits (Qha).
		PLEISTOCENE	Qpgg	Glacial and glacigene deposits (Qpgg).
			Qpgl	Fluvioglacial and lacustrine deposits (Qpgl).
			Qpgm	Moraine and associated deposits (Qpgm).
PALAEOZOIC	DEVONIAN		SD	Shallow marine quartz sandstone, siltstone and shale (Eldon Group and correlates) (SD).
			SDc	Fine–to coarse–grained quartz–rich sandstone, calcareous sandstone and minor mudstone (correlate of Crotty Formation) (SDc).
	ORDOVICIAN		Ol	Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and black clay weathering products. In part fossiliferous (Ol).
	LATE CAMBRIAN - ORDOVICIAN		€O	Undifferentiated shallow marine – non–marine siliceous conglomerate–sandstone (€O).
PROTEROZOIC	NEOPROTEROZOIC		Ewj	Fine–grained, poorly bedded, white to pale grey dolostone and minor dolomitic breccia (Jane Dolomite) (Ewj).

Note: Quaternary geology has been omitted in some areas of thin cover or areas of complex bedrock geology.

PROTEROZOIC	MESOPROTEROZOIC	Ptug	Ptpg	Fine–to coarse–grained, often thinly banded, pelitic, garnetiferous quartz–mica and mica–quartz schist, commonly containing phengite, biotite, almandine, albite and chlorite. Relatively high metamorphic grade (Ptpg).
			Ptug	Lithologically undifferentiated, commonly garnetiferous, rocks of relatively high metamorphic grade, including massive schistose quartzite and fine–to coarse–grained pelitic quartz–mica schist (Ptug).
			Ptsg	Massive and schistose quartzite, fine to coarse grained, commonly containing phengite, almandine and chlorite (Ptsg).
		Ptul	Ptpi	Dominantly dark grey carbonaceous quartz–mica phyllite, sometimes porphyroblastic and occasionally containing albite, biotite, phengite, chlorite and minor garnet; fine–grained quartzite frequently present. Intermediate metamorphic grade (Ptpi).
				Lithologically undifferentiated rocks of intermediate to low metamorphic grade (garnet minor to absent), including phyllite, fine–grained quartzite and dolomitic schist (Ptul).
		Ptp	Ptpp	Dominantly grey to green carbonaceous pelitic quartz–phengite phyllite. Non–garnetiferous and relatively low metamorphic grade (Ptpp).
			Ptpd	Dominantly grey to green carbonaceous pelitic quartz–phengite phyllite, with interbanded black dolomitic schist. Non–garnetiferous and relatively low metamorphic grade (Ptpd).
				Dominantly phyllite (Ptp).
		Ptul		Lithologically undifferentiated rocks of low metamorphic grade and unmetamorphosed rocks (Ptul).
			Ptsp	Interbanded fine–grained phengitic quartzite, green phengite–quartz phyllite, and grey to green carbonaceous pelitic quartz–phengite phyllite. Non–garnetiferous and relatively low metamorphic grade (Ptsp).
		Pts		Dominantly quartzite (Pts).
		Ptulm	Ptsq	Fine–grained, thickly foliate, phengitic quartzite and subordinate fine–grained massive quartzite. Non–garnetiferous and relatively low metamorphic grade (Ptsq).

Tyennan region metasediments

- Geological boundary – position accurate or approximate.
- Geological boundary – inferred.
- (white line) Limit of mapping of sub–unit within undifferentiated rock unit ("Colour boundary").
- Moraine Ridge Crests.
- Fault – unspecified type, position accurate or approximate.
- Fault – unspecified type, inferred.
- Fault – unspecified type, concealed.
- Scarp.
- Axial surface trace of major antiform.
- Axial surface trace of major synform.

- Strike and dip of bedding facing known, right way up; overturned.
- Strike and dip of bedding, facing unknown.
- Strike and dip of compositional layering – dipping; vertical.
- Strike and dip of cleavage, type and relative age unspecified.
- Strike and dip of cleavage, relative local age S2, however locally S1 (in quartzite units) or S3.
- Strike and dip of crenulation cleavage.
- Trend and plunge of lineation of unspecified type.
- Trend and plunge of lineation L2, formed by intersection of cleavages or foliations of relative local ages S1 and S2, relative local age F2.
- Trend and plunge of minor fold hingeline, unspecified relative age – with dip and dip direction of axial surface; with vertical axial surface.
- Trend of horizontal minor fold hingeline, unspecified relative age – with dip and dip direction of axial surface.
- Field station for adjacent readings on the map.
- 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 Responsibility Diagram):

A CALVER, C.R., BAILLIE, P.W., EVERARD, J.L., SEYMOUR, D.B., WILLIAMS, P.R., FORSYTH, S.M., TURNER, N.J. and WILLIAMS, E. 1997. Geological atlas 1:50,000 series. Sheet 8013N Lyell. Tasmania Department of Mines.

B GULLINE, A.B., LONGMAN, M.J., and MATHEWS, W.L. 1963. Geological atlas 1 mile series. N8113 I and III Zone 7 Sheet 59 St Clair. Tasmania Department of Mines.

C SPRY, A.H. 1957. The Precambrian rocks of Tasmania, Part II. The Mt Mary area. Pap. Proc. R.Soc.Tasm. 91: 81-93.

D SPRY, A.H. and ZIMMERMAN, D. 1959. The Precambrian rocks of Tasmania, Part IV. The Mt Mullens area. Pap. Proc. R.Soc.Tasm. 91: 1-9.

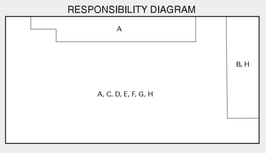
E DUNCAN, D.McP. 1974. Reconnaissance geology of the Frenchmans Cap National Park. Pap. Proc. R.Soc.Tasm. 107: 191-195.

F PETERSON, J.A. 1966. Glaciation of the Frenchmans Cap National Park. Pap. Proc. R.Soc.Tasm. 100: 117-129.

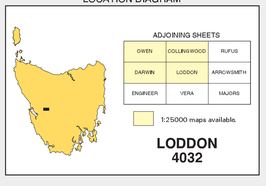
G HALL, W.D.M., McINTYRE, M.H., CORBETT, E.B., McGREGOR, P.W., FENTON, G.R., ARNDT, C.D., and BLIMSTEAD, E.D. 1969. Report on Field Work EL 13/1965 South West Tasmania 1967-68 Unpublished report, broken Hill Pty. Co. Ltd Expl. Dept. TCR 69_0555.

H Air photograph interpretation by M. Vicary.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



Base data from the LIST, Copyright State of Tasmania.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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