Department of State Growth
MINERAL RESOURCES TASMANIA

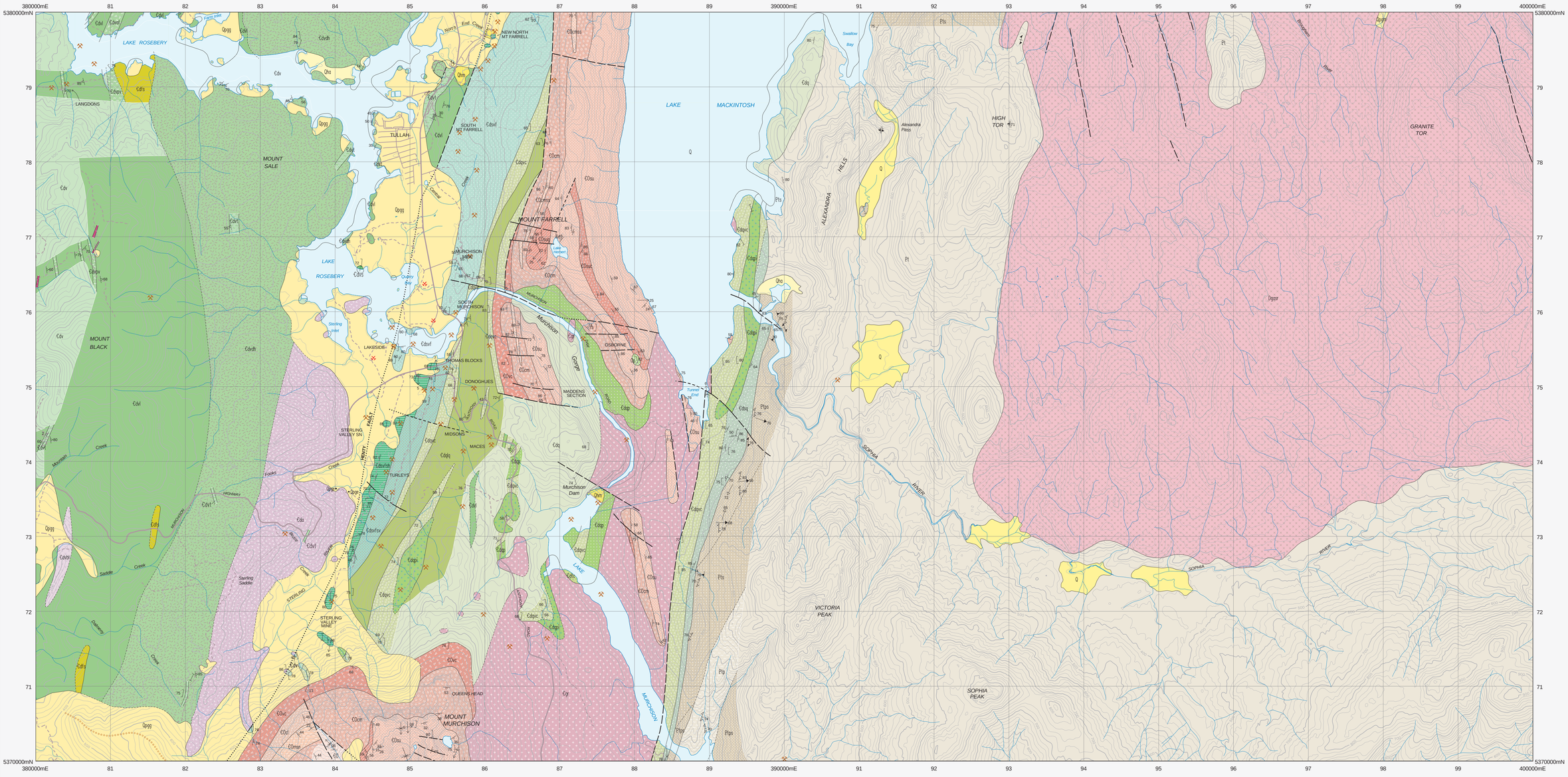
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
TULLAH, SHEET 3837

TULLAH

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC	QUATERNARY	HOLOCENE	Q	Qhm	*Cultural features – mine tailings, dams, (Qhm).*
				Qha	*Alluvium, swamp and marsh deposits (Qha).*
		PLEISTOCENE		Qpgg	*Glacial deposits, usually bouldery (Qpgg), including local occurrences of Devonian granite erratics (Qpge).*
				Qpgm	*Mostly moraine deposits (Qpgm).*
PALEOZOIC	CAMBRIAN	FURONGIAN	€O	€Osu	*Upper unit of mostly pink sandstone and granule–pebble conglomerate with subordinate siltstone. Clasts of chert common (Upper Owen Sandstone and correlates) (€Osu).*
				€Osuc	*Units of coarser pebble–cobble conglomerate (€Osuc).*
				€Osug	*Units of grey sandstone, siltstone and conglomerate (€Osug).*
				€Ocm	*Pebble–cobble to cobble–boulder conglomerate, thick–bedded to massive, with minor siltstone lenses (Middle Owen Conglomerate and correlates) (€Ocm).*
				€Ocmss	*Units of predominantly sandstone (€Ocmss).*
				€Omsn	*Interbedded micaceous sandstone–siltstone and siliciclastic pebble conglomerate, mostly grey in colour. Marine fossils in places (Newton Creek Sandstone and correlates) (€Omsn).*
				€Ocl	*Pebble–cobble to cobble–boulder conglomerate, thick–bedded to massive, with minor sandstone lenses. White to pink. (Lower Owen Conglomerate and correlates) (€Ocl).*
				€Ovc	*Volcaniclastic conglomerate, breccia and sandstone, usually at base of sequence. Includes correlate of Jukes Conglomerate (€Ovc).*
				€dtc	*Volcaniclastic conglomerate and sandstone – contains granite clasts in places (€dtc).*
		CAMBRIAN SERIES 3		€dsvf	*Volcano–sedimentary sequence of shale, slate, siltstone, volcaniclastic sandstone and breccia, siliciclastic–micaceous sandstone and minor felsic lava (€dsvf).*
				€dsvfsh	*Dominantly grey–black shale and slate with some interbedded sandstone (€dsvfsh).*
				€dsvfsv	*Dominantly volcaniclastic sandstone, with interbedded mudstone and breccia (€dsvfsv).*

OWEN GROUP; WURAWINA SUPERGROUP; TYNDALL GROUP; FARRELL SLATES

PALEOZOIC	CAMBRIAN	CAMBRIAN SERIES 3	€dq	*Interbedded volcanic and volcaniclastic rocks and intrusive porphyries, typically quartz–feldspar–phyric (€dq).*
			€dqp	*Felsic porphyry, typically quartz–feldspar–phyric, includes extrusive and intrusive bodies (€dqp).*
			€dqpi	*Mainly intrusive quartz–feldspar porphyry (€dqpi).*
			€dqlq	*Felsic lava, typically quartz–feldspar–phyric (€dqlq).*
			€dqvc	*Mainly volcaniclastic conglomerate and sandstone (€dqvc).*
			€dvl	*Feldspar +/– quartz–phyric lava (€dvl).*
			€dsq	*Siliciclastic conglomerate and sandstone with interbedded micaceous siltstone and minor volcaniclastic rocks (Sticht Range Beds) (€dsq).*
			€dv	*Dominantly feldspar–phyric volcanic and volcaniclastic rocks (€dv).*
			€dfs	*Feldspar–quartz porphyry, typically with spherulitic groundmass (€dfs).*
			€dvt	*Mainly felsic volcaniclastic and pyroclastic rocks, dominantly feldspar–phyric, including pumice–bearing units (€dvt).*
			€dvpv	*Pumice–bearing volcaniclastic rocks usually with eutaxitic texture (€dvpv).*
			€dvbf	*Block and ash flow breccia with lithic clasts and pumice fragments (€dvbf).*
			€dvs	*Units of interbedded siltstone, sandstone, shale (€dvs).*
			€dvl	*Felsic lava, typically feldspar +/– quartz–phyric, rhyolitic to dacitic (€dvl).*
			€dvdh	*Dacitic lava and breccia, usually feldspar–hornblende–phyric, epidote–altered (€dvdh).*
			€dvbl	*Basaltic lava and breccia (€dvbl).*
			€da	*Andesitic lava and breccia (€da).*

EASTERN QUARTZ–PHYRIC SEQUENCE; CENTRAL VOLCANIC COMPLEX; MOUNT READ VOLCANICS

MESOPROTEROZOIC	Pt	Pts	*Dominantly quartzite (Pts).*
		Ptp	*Dominantly phyllite (Ptp).*
		Ptps	*Interlayered phyllite and quartzite (Ptps).*

TYENNAN REGION METASEDIMENTS

INTRUSIVE ROCKS

PALEOZOIC	ORDOVICIAN DEVONIAN	Dgasr	*Medium– to coarse–grained, porphyritic (K–feldspar) to equigranular, biotite–muscovite–bearing akali feldspar (Granite Tor Granite; S–type).*
		Op	*Quartz porphyry intrusive within Owen Group (Op).*
	CAMBRIAN	€dfs	*Feldspar–quartz–porphyry, typically with spherulitic groundmass (€dfs).*
		€gr	*Granite (Murchison Granite) (€gr).*
		€dbc	*Basaltic dykes, typically chlorite–altered (€dbc).*
		€dqp	*Felsic porphyry, typically quartz–feldspar–phyric, includes extrusive and intrusive bodies (€dqp).*
		€dqpi	*Mainly intrusive quartz–feldspar porphyry (€dqpi).*

MOUNT READ VOLCANICS

Geological boundary – position approximate.
Geological boundary – inferred.
Fault – position approximate.
Fault – inferred.
Fault – concealed.
Moraine ridge crests.
Axial surface trace of major synform.

Strike and dip of bedding – right way up; overturned; facing unknown.
Strike of vertical bedding, facing unknown.
Strike and dip of cleavage of unspecified type and relative age; vertical.
Strike and dip of metamorphic foliation parallel to compositional layering; vertical; relative local age S1.
Strike and dip of cleavage or foliation, relative local age S1.
Strike and dip of cleavage or foliation, relative local age S1; S2.
Trend and plunge of bedding/primary cleavage intersection lineation (L1).
Trend and plunge of kink–fold hinge line, sense of displacement unknown.
Trend and plunge of minor fold hinge line, unspecified relative age.
Trend and plunge of minor fold hinge line, relative local age F1.
Trend and plunge of minor fold hinge line, relative local age F2.
Trend and plunge of hinge line of unspecified relative age, minor antiform; minor synform.
Strike and dip of igneous banding or platy alignment; vertical.
Strike and dip of metamorphic foliation.
Notable small outcrop or erratic boulder with rock unit indicated.
Field station for adjacent readings on the map.
Mineral deposit location – hardrock
Construction material/industrial mineral/gemstone location
Data derived from Mineral Resources Tasmania DEPOSITS database. Data point position has not been verified in every case.

In some areas lake fill is shown by water level line only, with previously mapped geology indicated. Some previously mapped structure and mineralisation sites are shown on top of subsequent lake fill.

Compiled by D.B. Seymour, B.Sc. (Hons), Ph.D., A.W. McNeill, B.Sc. (Hons), and K.D. Corbett, B.Sc. (Hons), 1995 from the following sources (see responsibility diagram).

A CORBETT, K.D. and McNEILL, A.W. 1986. Geology of the Rosebery –Mt Block area. Map 2. Mt Read Volcanics Project. Department of Mines, Tasmania.

B McNEILL, A.W. 1987. Geology of the Mt Murchison area. Map 4. Mt Read Volcanics Project. Department of Mines, Tasmania.

C BARTON, C.M., et al, 1966. Mackintosh Geological atlas 1:63,360 series sheet 44(301.4N). Department of Mines, Tasmania.

D McClenaghan, M.P. 2003. Ground truthing of Western Tasmania Regional Minerals Program geophysical data in the Granite Tor area. Tasmanian Geological Survey Record 2003/10. Mineral Resources Tasmania.

E Seymour, D.B. Air photo interpretation.

F Corbett, K.D. Air photo interpretation.

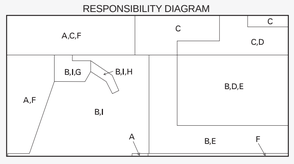
G RIVERS, W.D.M. 1975. The geology and geochemistry of the Tullah area. B.Sc. (Hons) thesis, University of Tasmania, Hobart.

H POLYA, D.A. 1981. The Geology of the Murchison George. B.Sc. (Hons) thesis, University of Tasmania, Hobart.

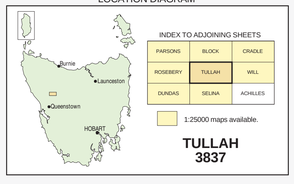
Updated by:

I K.D. Corbett, 2003 as part of the Western Tasmanian Regional Minerals Program.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

PARSONS	BLOCK	CRADLE
ROSEBERY	TULLAH	WILL
DUNDAS	SELINA	ACHILLES

1:25000 maps available.

TULLAH
3837

REFERENCE THIS MAP AS:

SEYMOUR, D.B., McNEILL, A.W. and CORBETT, K.D. (compilers) 2003. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3837 Tullah. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania using G.I.S. software.

Website: www.mrt.tas.gov.au

GDA94 – MGA Zone 55. Contour Interval: 20 metres.

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