

GEOLOGY OF THE KOONYA AREA

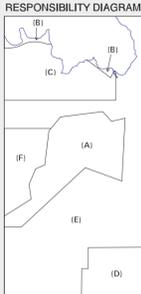
Geology by S.M. Forsyth B.Sc.



QUATERNARY	Qhbl	Beach deposits of low energy coasts, predominantly of fine-grained sand and silt and subordinate gravel near some cliffs (Qhbl).
	Qhls	Undifferentiated paralic clay silt and sand and minor gravel deposits (Qhls), estuarine deposits of silt, mud, sand and gravel in generalised tidal to shallow water sub-tidal environments (Qhls).
	Q	Aeolian and locally derived sand (Q).
	Qa	Alluvial gravel sand and clay (Qa), Holocene alluvium (Qa).
	Qpt	Talus and remobilised talus deposits (Qpt), talus dominantly of dolerite boulders and in places subordinate Permian rocks (Qpt), and talus of dolerite and subordinate Upper Permian rocks (Qpt).
TRIASSIC	Rvv	Erosional surface Dominantly siltstone, mudstone, with quartz-rich lithic sandstone and quartz sandstone, undifferentiated except for basal unit (Rvv).
	Rvp	Lenticular variable medium- to coarse-grained sandstone, generally containing quartz gravels or pebbles (Rvp).
	R	Interbedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and siltstone bedded, ripple-terminated or cross-bedded sandstone and notable thin beds of siliceous bioturbated sandstone (R).
		Freshwater predominantly cross-bedded quartzite to feldspathic sandstone commonly with overlying cross-bedding and subordinate micaceous siltstone with some red-purple beds (Rgh, Rpg, Rgp Kinlochley Formation) intervals predominantly of siltstone, shale, mudstone and sandstone indicated (Rpg), granite sandstone and pebbly sandstone indicated (Rgp).

IGNEOUS ROCKS	
JURASSIC	Jd Dolerite (Jd), with orthopyroxene (o), granophyre and pegmatite indicated (g). Dolerite of grain size 0 - 0.7mm (Jd), 0.7 - 1.5mm (Jd, Jd - 3mm (Jd), >3mm (Jd), 56mm (Jd) indicated.

- Geological boundary - position accurate or approximate.
- Geological boundary - inferred.
- Slope break.
- Scarp.
- Bedding trace interpreted from aerial photographs.
- Photo lineament.
- (white line) Limit of mapping of sub-unit within undifferentiated rock unit.
- Fault - position accurate or approx.
- Fault - inferred, downthrow side indicated.
- Small outcrop or lag occurrence.
- Spring - captured and uncaptured.
- Seepage - diffuse.
- Possible spring - photo interpreted.
- Possible spring - other.



Geology based on -
(see responsibility diagram)

A. Forsyth, S.M. 1:100,000 New mapping 2002.

B. Edwards, A.N., 1990. Regional geology of the Koonya area with emphasis on the Triassic Palaeogeography. B.Sc. (Hons.) thesis, University of Tasmania; Forsyth, S.M. 1:100,000 New mapping 2002.

C. Edwards, A.N., 1990. Regional geology of the Koonya area with emphasis on the Triassic Palaeogeography. B.Sc. (Hons.) thesis, University of Tasmania; Forsyth, S.M. Aerial photo interpretation 2002.

D. Cromer, W.C., Threader, V.M. and Knights, C.J., 1976. Geology of the Fort Arthur area. Unpublished Report Department of Mines Tasmania 1976/36; Cromer, W.C. unpublished data; Forsyth, S.M. Aerial photo interpretation 2002.

E. Cromer, W.C., Donaldson R.C., Stevenson, P.C. & Threader, V.M., 1979. Groundwater, mineral resources and land stability in the Tasman Peninsula. Unpublished Report Department of Mines Tasmania 1979/3; Forsyth, S.M. Aerial photo interpretation 2002.

F. Sloane, D.J., 1987. The potential effects of forestry operations on slope stability and springs in the Mt Clark - Mt Koonya area. Unpublished Report Department of Mines Tasmania 1987/56; Forsyth, S.M. Aerial photo interpretation 2002.

Base information from Land Information Services Division, Department of Primary Industries, Water and Environment.

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

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