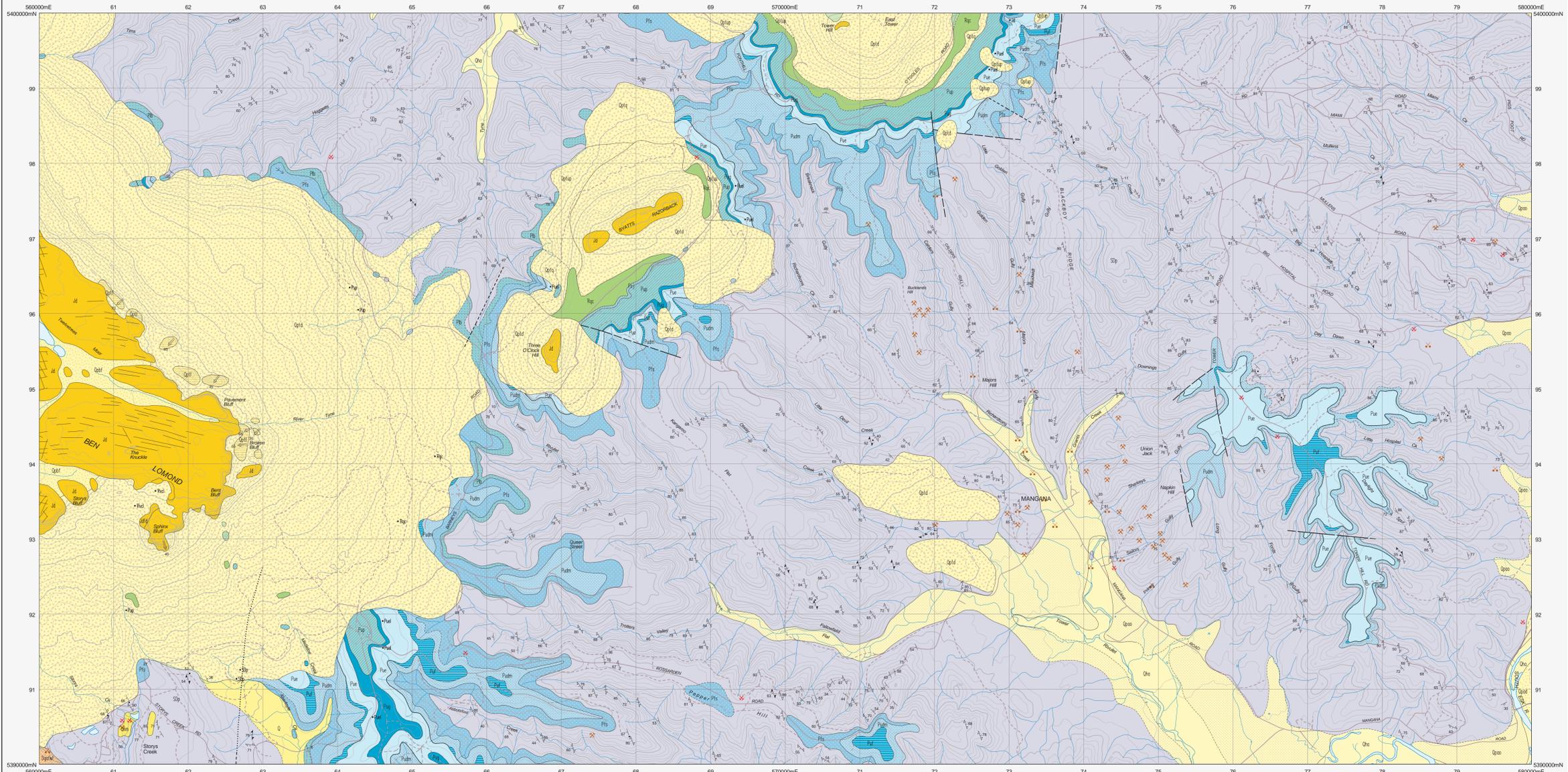
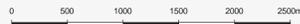


MANGANA

Scale: 1:25 000



CENOZOIC	
QUATERNARY	
Qhm	Undifferentiated deposits (Qh), Mine tailings and disturbed ground (Qhm).
Qha	Stream alluvium, swamp and marsh deposits (Qha).
Qpa	Older alluvium of river terraces (Qpa).
Qpad	Older alluvium of river terraces predominantly dolerite derived (Qpad).
Qpt	Talus, scree and rock fill (Qpt). Talus consisting dominantly of dolerite boulders (Qptd). Talus consisting of dolerite and subordinate Upper Permian rocks (Qptu). of dominantly Upper Permian quartz sandstone (Qptq).
Qpbl	Dolerite block fields, probably underlain by clay from weathered dolerite with interstitial fines (Qpbl).
Qplf	Tapped dolerite masses (>100m), coherent or partly disaggregated, produced by cliff failure (Qplf).
----- Unconformity	

MESOZOIC	
TRIASSIC	
Rvcl	Dominantly lithic sandstone with minor mudstone and coal (Rvcl).
Rvvl	Quartz-rich lithic sandstone and minor quartz sandstone (Rvvl) with mudstone and carbonaceous mudstone (Rvvlm).
Rvc	Cross-bedded quartz sandstone (Rvc).
----- Erosional surface	
Pcj	Fine-grained, slightly feldspathic quartz sandstone, micaceous shale and minor carbonaceous mudstone (Pcj).
Ppjp	Poorly-sorted grey mudstone, siltstone and rare sandstone, unconsolidated except for rare torons (Ppjp). Bed of pebbly sandstone about 9m thick (Ppjp).
Ppug	Thin-bedded, usually poorly sorted pebbly sandstone passing up into interbedded sandstone, siltstone and mudstone with marine fossils abundant in places (Ppug). (Pug: Matletoe Sandstone).
Ppue	Dominantly bioclastic limestone (Ppue). (Pue: Burnt Gully Limestone).
Ppue	Marine fossiliferous mudstone, siltstone and minor sandstone and bioclastic limestone (Ppue).
Ppue	Fine-grained pebbly sandstone with phosphatic nodules. Marine fossils present in some areas. Thin (~2m thick) unit denoted by thick line in some places. (Ppue). (Pue: Easton Sandstone Member).
Ppue	Mudstone, siltstone and minor poorly sorted sandstone. Uncommon marine fossils (Ppue). (Pue, Puf, Pum: Castle Carey Mudstone).
Ppfs	Dominantly well-sorted quartz sandstone usually cross-bedded or laminated and commonly with interbedded and laminated carbonaceous shale, lesser carbonaceous ore rare coal (Ppfs). (Pfs: Aberfayle Formation).
Ppfb	Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Ppfb). (Pfb: Strickland Gorge Formation).
----- Unconformity	
Sdp	Quartzite turbidite sequence of interbedded sandstone, siltstone and mudstone with sandstone dominant (Sdp).

IGNEOUS ROCKS	
jd	Dolerite (jd), fine-grained (0.2 - 0.7mm) dolerite (jdf), dolerite fine-grained with later very fine-grained dykes (jdfg).
BEN LOMOND BATHOLITH	
Dgplw	Fine- to medium-grained, equigranular alkali feldspar granite (Dgplw). (Dgplw): Gipps Creek Granite, S-type.

- ✕ ✕ ✕ Strike and dip of bedding - right way up; overturned, facing unknown.
- ✕ ✕ ✕ Strike of vertical bedding, facing unknown.
- ✕ ✕ ✕ Generalised paleocurrent direction, showing sense of movement.
- ✕ ✕ ✕ Strike and dip of cleavage - relative local age S1; vertical.
- ✕ ✕ ✕ Strike and dip of cleavage - relative local age S2; vertical.
- ↗ ↘ Trend and plunge of columnar jointing.
- ↗ ↘ Trend and plunge of minor fold hinge line, unspecified relative age, with vertical oval surface.
- Field station for adjacent readings on the map.
- Notable small outcrop or rock-flag occurrence.
- ✕ ✕ ✕ Mineral deposit location - hardrock
- ✕ ✕ ✕ Mineral deposit location - alluvial/tailing
- ✕ ✕ ✕ Construction material/industrial minerals/gemstone location

Compiled by M.P. McLennaghan, M.P. (Compiled) 1994 from the following sources (see responsibility diagram):
A. CALVER, C.R., EVERARD, J.L., FINDLAY, B.H. and LENDINX, P.G. 1988. Geological Atlas 1:50 000 Series. Sheet 46 (part 4) Ben Lomond. Tasmania Department of Mines.

PALEOZOIC	
DEVONIAN	
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PALEOZOIC	
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REFERENCE THIS MAP AS:
MCLLENNAGHAN, M.P. (Compiled) 1994. Digital Geological Atlas 1:25 000 Scale Series. Sheet 5639. Mangana. Mineral Resources Tasmania.
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GDAS4 - MGA Zone 55. Contour Interval: 20 metres.



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