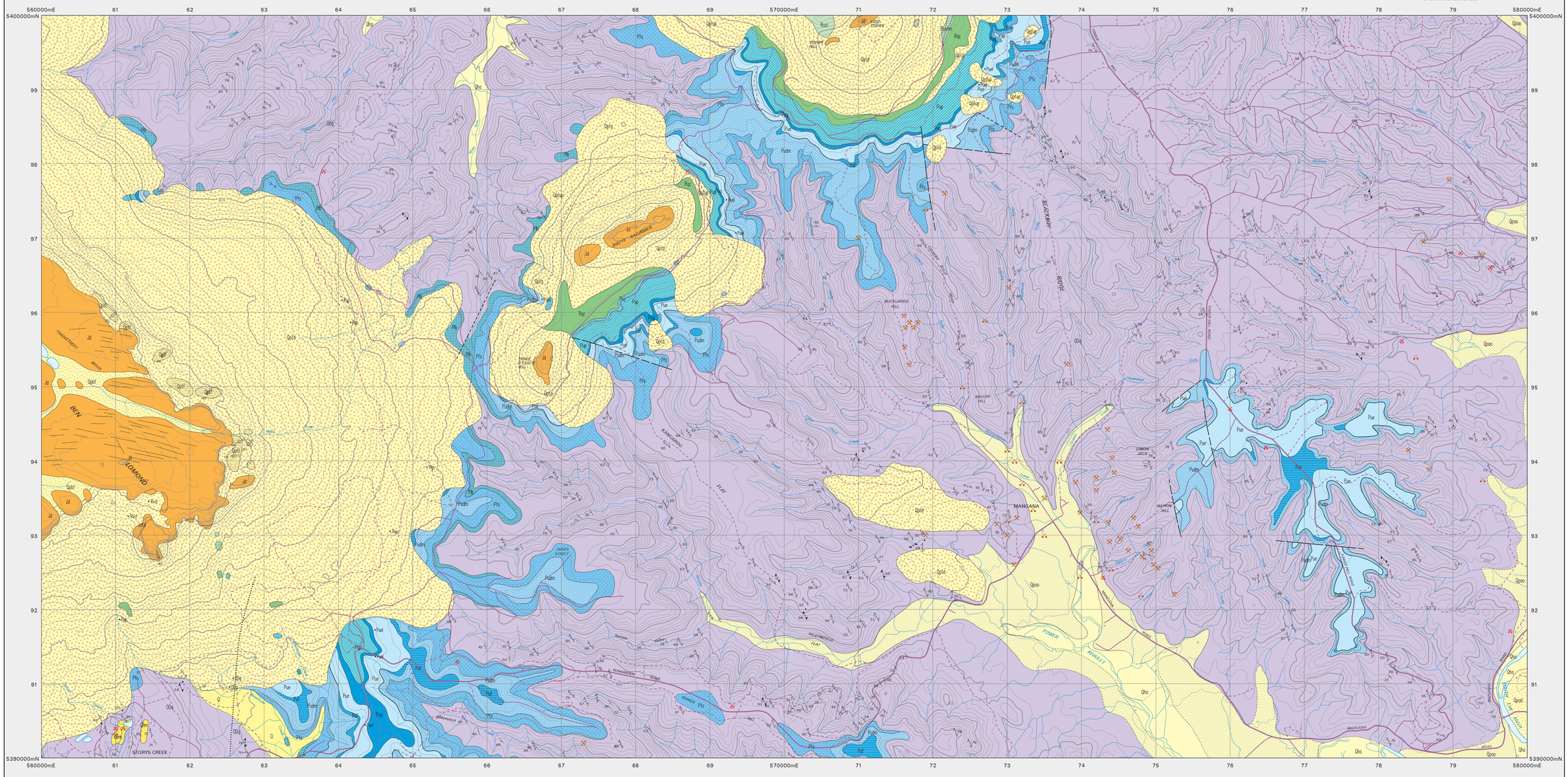
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
MANGANA, SHEET 5639

MANGANA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



Geology based on:
CALVER, C.R.; EVERARD, J.L.; FINDLAY, R.H.; LENNOX, P.G. 1988.
Geological atlas 1:50 000 series, sheet 48 (8414N). Ben Lomond.
Department of Mines, Tasmania.

Compiled by M.P. McClenaghan.

QUATERNARY

HOLOCENE

- **Qu** — Qhm: *Undifferentiated deposits (Qu).Mine tailings and disturbed ground (Qhm).*
- Qha: *Stream alluvium, swamp and marsh deposits (Qha).*
- Qpao: *Older alluvium of river terraces (Qpao).*
- Qpad: *Older alluvium of river terraces predominantly dolerite derived (Qpad).*

PLEISTOCENE

- Qpt: *Talus, scree and rare till (Qpt). Talus consisting dominantly of dolerite boulders (Qptd). Talus consisting of dolerite and subordinate Upper Parmeener rocks (Qptup); of dominantly Upper Parmeener quartz sandstone (Qptq).*
- Qpbf: *Dolerite block fields, probably underlain by clay from weathered dolerite with interstitial fines (Qpbf).*

Unconformity

TRIASSIC — UPPER PARMEENER SUPERGROUP

- Rvcl: *Dominantly lithic sandstone with minor mudstone and coal (Rvcl).*
- Rvvt: *Quartz-rich lithic sandstone and minor quartz sandstone (Rvvt), with mudstone and carbonaceous mudstone (Rvvtm).*
- Rqc: *Cross-bedded quartz sandstone (Rqc).*

Erosional surface.

PERMIAN — LOWER PARMEENER SUPERGROUP

- Pcj: *Fine-grained, slightly feldspathic quartz sandstone, micaceous shale and minor carbonaceous mudstone (Pcj).*
- Pup, Pupp: *Poorly-sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare forams (Pup). Beds of pebbly sandstone about 1m thick (Pupp). (Pup: Prospect Creek Mudstone).*
- Pug: *Thick-bedded, usually poorly sorted pebbly sandstone passing up into interbedded sandstone, siltstone and mudstone with marine fossils abundant in places (Pug). (Pug: Mistletoe Sandstone).*
- Puel: *Dominantly bioclastic limestone (Puel). (Puel: Burnt Gully Limestone).*
- Pue: *Marine fossiliferous mudstone, siltstone and minor sandstone and bioclastic limestone (Pue).*
- Puf: *Fine-grained pebbly sandstone with phosphatic nodules. Marine fossils present in some areas (Puf). (Puf: Fonthill Sandstone Member).*
- Pudm: *Mudstone, siltstone and minor poorly sorted sandstone. Uncommon marine fossils (Pudm). (Pue, Puf, Pudm: Castle Carey Mudstone).*
- Pfs: *Dominantly well-sorted quartz sandstone usually cross-bedded or laminated and commonly with interbedded and laminated carbonaceous shale, lesser conglomerate are rare coal (Pfs). (Pfs : Aberfoyle Formation).*
- Pb: *Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Pb). (Pb: Strickland Gorge Formation).*

Unconformity

ORDOVICIAN - SILURIAN (?) - EARLY DEVONIAN

- ODq: *Quartzwacke turbidite sequence of interbedded sandstone, siltstone and mudstone with sandstone dominant (ODq).*

IGNEOUS ROCKS

JURASSIC

- Jd: *Dolerite (Jd), fine-grained (0.2 – 0.7mm) dolerite (Jdf), dolerite fine-grained with later very fine-grained dykes (Jdfd).*

BEN LOMOND GRANITE

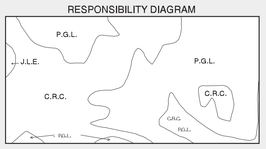
DEVONIAN

- Dgafwf: *Equigranular, fine- to medium-grained alkali feldspar granite (Dgafwf).*

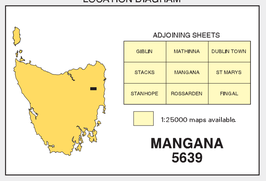
Geological boundary – position approximate
Geological boundary – inferred
Geological boundary – transitional
Fault – position approximate
Fault – inferred
Fault – concealed
Scarp at edge of basalt plateau
Airphoto lineament
Notable small outcrop or float / lag occurrence

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 axial surface.
Field station for adjacent readings on the map.
Mineral deposit location – hardrock
Mineral deposit location – alluvial
Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



ADJOINING SHEETS

GIBLIN	MATHINNA	DUBLIN TOWN
STACKS	MANGANA	ST MARYS
STANHOPE	ROSSARDEN	FINGAL

1:25000 maps available.

MANGANA
5639

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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