Department of State Growth
MINERAL RESOURCES TASMANIA

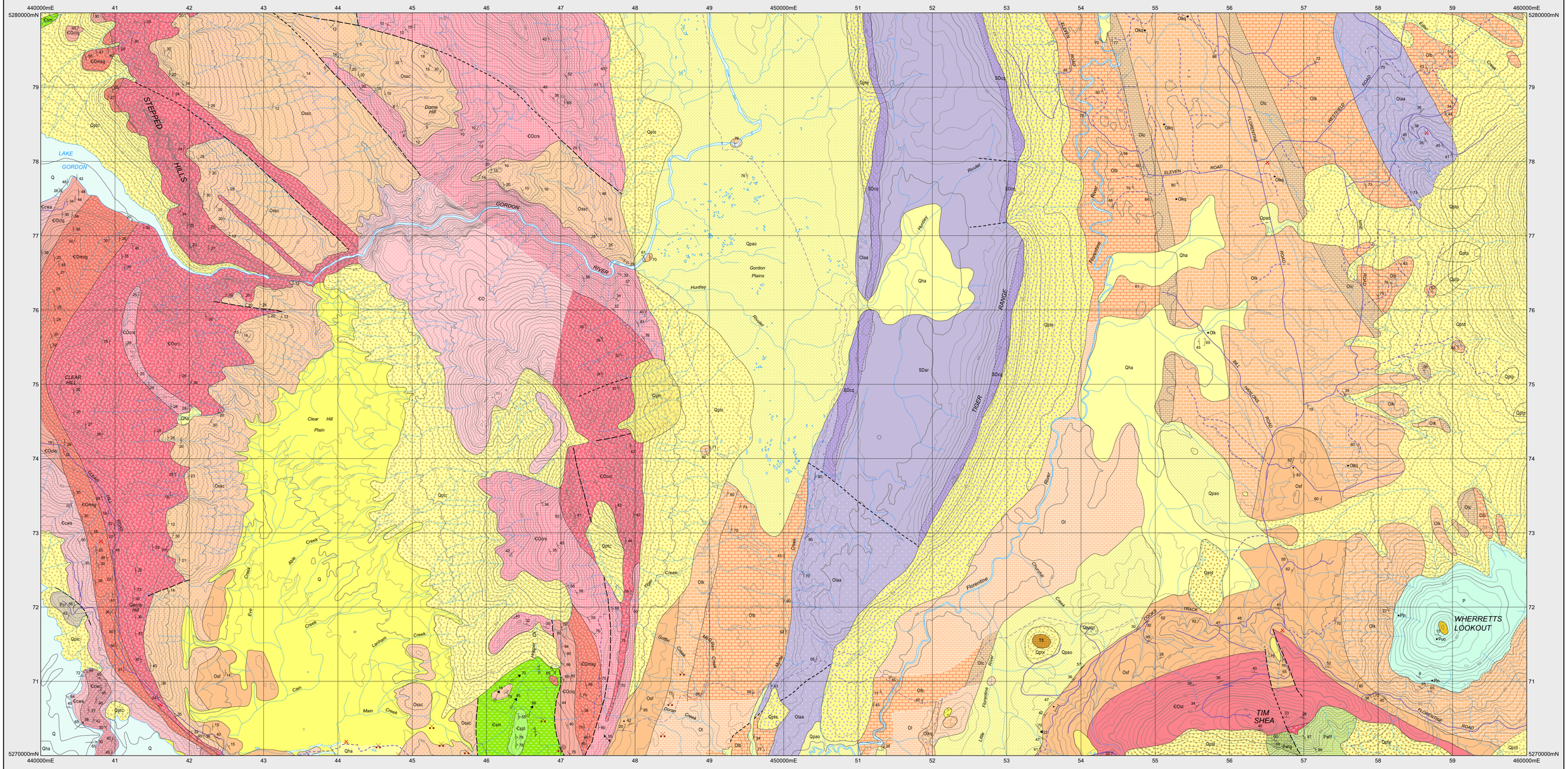
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
TIGER, SHEET 4427

TIGER

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

- **Qha** — *Undifferentiated Quaternary sediments (Q). Stream alluvium, swamp and marsh deposits (Qha).*
- **Qptx** — *Talus, till and scree of probable Pleistocene age (Qpt). Talus composed of predominantly ferricrete fragments (Qptx).*
- **Qptd** — *Talus consisting dominantly of dolerite boulders (Qptd).*
- **Qptp** — *Talus of dolerite and subordinate Lower Parmeener rocks (Qptp).*
- **Qpte** — *Scree, talus and associated colluvium - derived from Eldon Group rocks (Qpte).*
- **Qptc** — *Talus of siliceous conglomerate (Qptc).*
- **Qpts** — *Sandstone derived talus (Qpts).*
- **Qpao** — *Older alluvium of river terraces (Qpao).*
- **Qpaqc** — *Conglomerate and quartzite cobbles and boulders (Qpaqc).*
- **Qpgg** — *Pleistocene glacial and glacigene deposits (Qpgg).*
- **Qpgr** — *Erratic of Precambrian provenance (Qpgg).*

PALEOCENE-NEOGENE

- **Qpm** — *Till with moraine ridge crests (Qpm).*
- **Tfl** — *Ferricrete lag (Tfl).*

~~~~~~~~~~ *Low angle unconformity.*

PALEOZOIC

CARBONIFEROUS – PERMIAN

- **P** — *Undifferentiated Permo-Carboniferous sedimentary rocks (P).*
  - • **Puo** — *Local occurrence of undifferentiated fossiliferous glaciomarine sandstone, siltstone and limestone (Deep Bay Formation, Berriedale Limestone, Nassau Siltstone and Rayner Sandstone) (Puo).*
  - • **Pln** — *Local occurrence of sparsely to richly fossiliferous marine siltstone, mudstone, sandstone and impure limestone with lonestones (correlate of Bundella Formation) (Pln).*

~~~~~~~~~~ *Angular unconformity.*

SILURIAN

SD — TIGER RANGE GROUP (Correlate of Eldon Group)

- **SDar** — *Shallow marine quartz sandstone, siltstone and shale (Eldon Group correlates) (SD). Well-bedded, usually bioturbated, buff to grey-green micaceous siltstone with minor thin layers of fine-grained sandstone; richly fossiliferous horizons present with Late Llandovery and Wenlock faunas (Richea Siltstone) (SDar).*
- **SDcq** — *Unfossiliferous, well-sorted, fine- to very fine-grained hard quartz sandstone with common ripple marks and minor thinly interbedded micaceous mudstone (Gell Quartzite) (SDcq).*

ORDOVICIAN

Ol — GORDON GROUP

- **Olaa** — *Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone. In part fossiliferous (Ol).*
- **Olb** — *Buff-coloured micaceous very fine-grained sandstone, siltstone and mudstone, coarsening upward; richly fossiliferous with Ashgillan to Silurian faunas (Arndell Sandstone, including Westfield Beds) (Olaa).*
- **Olc** — *Dolomitic, micritic limestone (Benjamin Limestone) (Olb).*
- **Olk** — *Oncolitic calcarenite (Cashions Creek Limestone) (Olc).*
- **Olq** — *Micritic limestone, usually with chert nodules (Karmberg Limestone) (Olk). Locally indicated by Quaternary lag of chert fragments (Olkq).*

Osf — WURAWINA SUPERGROUP

- **Ossc** — *Undifferentiated shallow marine - non-marine siliciclastic conglomerate - sandstone sequence (€O). Siltstone and calcareous shale (Florentine Valley Formation and correlates, including Squirrel Creek Formation) (Osf). Upper marine shallow-water quartz sandstone with abundant worm casts, minor basal conglomerate against Cambrian basement (lower member of Florentine Valley Formation) (Ossc).*

€O — DENISON GROUP (Correlate of Owen Group)

- **€Ost** — *Quartz sandstone and chert-clast conglomerate (Tim Shea Sandstone) (€Ost).*
- **€Ocrs** — *Interbedded cross-bedded quartz sandstone, pebbly sandstone and siliceous well-sorted pebble conglomerate (€Ocrs).*
- **€Ocrc** — *Terrestrial shallow-water thickly-bedded siliceous-cobble conglomerate (€Ocrc). (€Ocrc + €Ocrs - Reeds Conglomerate)*
- **€Ocro** — *Dolomitic and siliceous breccia and sandstone, overlain by red bioturbated sandstone and mudstone (base of the Tim Shea Sandstone) (€Ostc).*
- **€Omsg** — *Lower marine shallow-water quartz sandstone with worm casts; minor basal conglomerate (Great Dome Sandstone) (€Omsg).*
- **€Oclq** — *Siliceous turbiditic quartzwacke, calcareous and micaceous sandstone and siltstone, with minor conglomerate, limestone and quartz arenite; Late Cambrian (Idamean) fossils present (Singing Creek Formation and correlates) (€Oclq).*

~~~~~~~~~~ *Angular unconformity of €O on €cw, Pw.*

CAMBRIAN

FURONGIAN

€cw — RAGGED BASIN COMPLEX

- **€cwa** — *Interbedded chert, lithic sandstone, siltstone and pyritic mudstone (€cwa).*
- **€cwc** — *Pale to dark grey or black, distinctly bedded and planar laminated to massive or brecciated chert with minor red and grey siliceous hematitic mudstone and siltstone (€cwc).*

Faulted contacts of €cw with older units.

NEO-PROTEROZOIC

CRYOGENIAN-EDIACARAN

- **Pwtg** — *Dominantly bedded, oolitic dolograinstone (Pwtg).*
- **Pwtf** — *Dominantly fine-grained dolostone (Pwtf).*

WELD RIVER GROUP

~~~~~~~~~~ *Low angle unconformity.*

MESO-PROTEROZOIC

- **Pcr** — *Red siltstone and mudstone (Pcr).* — CLARK GROUP

INTRUSIVE ROCKS

PALEOZOIC MESOZOIC

- **Jd** — *Dolerite (Jd).* — JURASSIC
- **€spl** — *Dominantly layered orthopyroxenite, olivine orthopyroxenite and dunite (€spl; probable equivalent of LPD, layered pyroxenite and dunite succession, Western Tasmania).* — CAMBRIAN, TERRENEUVIAN-CAMBRIAN SERIES 2
- **€sm** — *Massive serpentinite (€sm).* — ADAMSFIELD ULTRAMAFIC COMPLEX

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Transitional geological contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

FAULTS

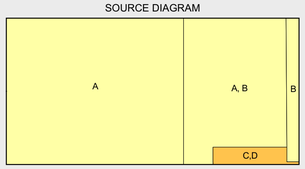
- *Fault.*
- *Fault - inferred.*

LINEARS

- *Moraine ridge crest.*

- *Strike and dip of bedding - right way up; facing unknown.*
- *Strike and dip of bedding, overturned.*
- *Strike and dip of cleavage of unspecified type and relative age; vertical.*
- *Strike and dip of cleavage, relative local age S_C; vertical.*
- *Strike and dip of cleavage, relative local age S_2.*
- *Trend and plunge of minor fold hinge line, with dip and dip direction of axial surface, unspecified relative age; F_2.*
- *Trend and plunge of minor fold hinge line, relative local age F_1, with vertical axial surface.*
- *Trend and plunge of lineation L_3, formed by intersection of cleavages or foliations of relative local ages S_1 and S_2.*
- *Strike and dip of primary igneous banding or platy alignment, and schlieren in granitic rocks.*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Macrofossil location.*
- *Mineral deposit location - hardrock.*
- *Mineral deposit location - alluvial/tailings.*
- *Construction material/industrial mineral/gemstone location.*

SOURCE DIAGRAM



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by J.L. Everard, B.Sc.(Hons), 2007 from the following sources (see source diagram):

A BROWN, A.V.; McCLENAGHAN M.P.; TURNER, N.J.; McCLENAGHAN, J.; LENNOX, P.G. & WILLIAMS, P.R. 1982. Geological Atlas 1:50 000 Series. Sheet 73 (8112N), Huntley. Tasmania Department of Mines.

B SHARPLES, C. 2002. Reconnaissance mapping of soil parent materials in the East Florentine and Upper Tyenna Valleys - report to Forestry Tasmania (Derwent Division).

C CALVER, C.R. 2006. The Geology of The Needles area and some revisions to the stratigraphy of the Clark Group. Appendix 1 in Geology of the Maydena, Skeleton, Nevada, Weld and Picton 1:25 000 sheets. Tasmanian Geological Survey Record 2006/04.

D VICARY, M.J. 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05. Mineral Resources Tasmania.

REFERENCE THIS MAP AS:

EVERARD, J.L. (compiler) 2008. Digital Geological Atlas 1:25 000 Scale Series. Sheet 4427 Tiger. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

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

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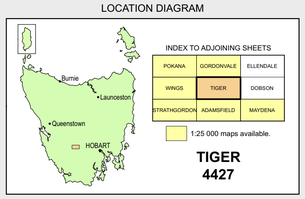
LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

POKANA	GORDONVALE	ELLENDALE
WINGS	TIGER	DOBSON
STRATHGORDON	ADAMSFIELD	MAYDENA

1:25 000 maps available.

TIGER 4427

Map generated: 11-JUN-2024

WARNING: INKS ARE LIGHT SENSITIVE.