Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
HARDWICKE, SHEET 3238

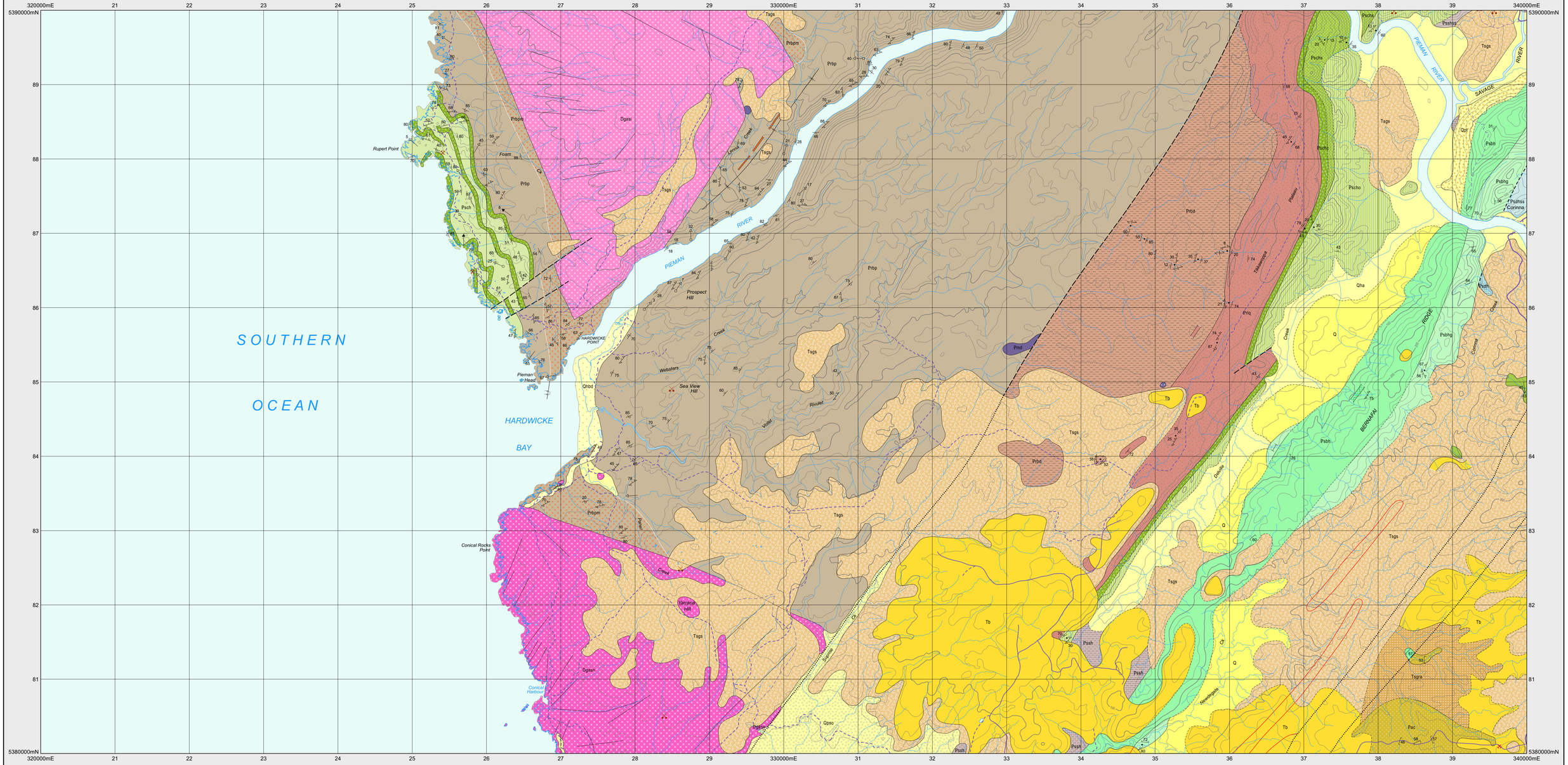
HARDWICKE

Scale 1:25 000

0 500 1000 1500 2000 2500m

INDUSTRY TOURISM RESOURCES

Tasmanian Government



CENOZOIC

QUATERNARY

HOLOCENE

Q

- **Qha** — *Undifferentiated Quaternary sediments (Q). Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhbd** — *Younger active dune, beach sand and beach gravel (Qhbd).*

PLEISTOCENE

- **Qpso** — *Older aeolian sand and sand dunes (Qpso).*
- **Qpt** — *Undifferentiated Pleistocene talus and scree deposits (Qpt).*

PALEOGENE - NEOGENE

- **Tsgs** — *Interbedded siliceous gravel, quartz sand and clay (Tsgs).*
- **Tb** — *Basalt (Tb).*
- **Tsgra** — *Minor gravel with lag of gravel and bedrock derived vein quartz (Tsgra).*

NEOPROTEROZOIC

- **Pac** — *Interbedded green to grey phyllite and fine-grained schist, usually comprising muscovite and quartz, with trace to dominant chlorite, albite and dolomite; containing scattered thin layers of actinolitic amphibolite (Pac).* — TIMBS GROUP
- *Faulted contact with Psbh*
- **Psrh** — *Grey slaty pelitic siltstone with minor banded chert and thin interlayers of silicified oolitic carbonate (Psrh).*
- *Conformable to faulted contact.*
- **Psdh** — *Pale grey and cream, fine-grained dolomite (Psdh).* — CORINNA DOLOMITE
- **Psdhss** — *Mainly lag of silicification products of dolomite (Psdh), including silica flour, commonly obscured by Tertiary derived slope wash deposits (Psdhss).* — AHRBERG GROUP

NEOPROTEROZOIC

- **Psbh** — *Interbedded metamorphosed basalt, basaltwacke, slaty to phyllitic siltstone, quartzite and minor dolomite (Psbh).*
- **Psbht** — *Interbedded slaty or phyllitic to relatively massive, green to grey, tuffaceous and pelitic, chlorite metasiltstone with minor fine-grained foliated metamorphosed basalt and basaltic wacke (Psbht).*
- **Psbhg** — *Dominantly grey tuffaceous and pelitic metasiltstone (Psbhg).*
- **Psbhd** — *Dolomite (Psbhd).* — BERNAFAI VOLCANICS
- *Conformable boundary.*
- **Pssh** — *Pale grey and cream, fine-grained dolomite, locally oolitic, with stromatolites, or interbedded with richly carbonaceous siltstone (Pssh).*
- **Psshss** — *Mainly lag of silicification products of dolomite (Pssh), including silica flour, commonly obscured by Tertiary derived slope wash deposits (Psshss).* — SAVAGE DOLOMITE
- *Conformable boundary.*
- **Pscho** — *Dominantly conglomerate, micaceous quartzwacke and slaty pelitic siltstone (Donaldson Formation-undifferentiated Pscho, Pschs, Pschc). Grey slaty pelitic siltstone with minor banded chert and thin interlayers of silicified oolitic carbonate (Pscho).*
- **Pschs** — *Micaceous quartzwacke in graded beds with interlayered slaty, locally pelitic siltstone and mudstone (Pschs).*
- **Pschc** — *Poorly sorted conglomerate, with well sorted conglomerate and sandstone near base (Pschc).* — DONALDSON FORMATION — AHRBERG GROUP
- *Inferred angular unconformity.*

?MESOPROTEROZOIC

- **Prbpm** — *Pale to medium grey-green, slaty to relatively massive planar bedded chloritic siltstone and minor mudstone (Prbp; derived from Corinna 1:50 000 and Pieman Heads 1: 63 360 sheets; includes Interview Siltstone); locally thermally metamorphosed to spotted and banded hornfels (Prbpm).*
- **Prbp**
- **Prbd** — *Dark grey, slaty to relatively massive planar-bedded carbonaceous and/or chloritic siltstone and minor mudstone (Prbd; derived from Corinna 1:50 000 sheet).*
- **Prlq** — *Common to dominant micaceous quartz sandstone and cross-bedded othoquartzite with siltstone (Prlq).* — ROCKY CAPE GROUP

INTRUSIVE ROCKS

PALEOZOIC — DEVONIAN

- **qv** — *Quartz veins (qv).*
- **Dgasi** — *Medium- to coarse-grained, generally equigranular, biotite-muscovite-bearing monzogranite/syenogranite, with minor cordierite and rare garnet, and aligned K-feldspar megacrysts in some places (Interview Granite; S-type) (Dgasi).*
- **Dgasn** — *Coarse-grained, equigranular to porphyritic (K-feldspar) biotite-muscovite-bearing syenogranite/monzogranite, with common tourmaline nodules (Conical Rocks Granite; S-type) (Dgasn).*

NEOPROTEROZOIC

- **Pmd** — *Dolerite dykes (Pmd).*
- **Pmq** — *Quartz bearing dolerite (Pmq).*

CONTACTS

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

FAULTS

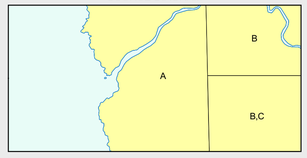
- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*

LINEARS

- *Axial surface trace of major synform.*
- *Axial surface trace of major overturned synform.*
- *Subsurface geological boundary projected to surface.*
- *Lineament - visible on aerial photographs.*
- *Lineament - visible in magnetic data.*

- *Dip of geological contact of unspecified type.*
- *Strike and dip of bedding, right way up.*
- *Strike and dip of bedding, facing unknown.*
- *Strike and dip of bedding, overturned.*
- *Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.*
- *Strike and dip of crenulation cleavage - dipping; vertical.*
- *Strike and dip of cleavage, relative local age S_1 - dipping; vertical.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, relative local age F_1; F_2.*
- *Trend and plunge of bedding/primary cleavage intersection lineation (L_1).*
- *Field station for adjacent readings on the map.*
- *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 M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see source diagram):

A GEE, R.D., GULLINE, A.B., BRAVO, A.P., LEGGE, P.J. and GROVES, D.I. 1969 Geological atlas 1 mile series. Zone 7 Sheet 42 (7814N), Pieman Heads. Tasmania Department of Mines.

B TURNER, N.J., BROWN, A.V., MCCLENAGHAN, M.P. and SOETRISNO, I. 1991 Geological atlas 1:50 000 series. Sheet 43 (7914N), Corinna. Tasmania Department of Mines.

C Air photograph and WTRMP geophysical data interpretation by M. Vicary.

REFERENCE THIS MAP AS:

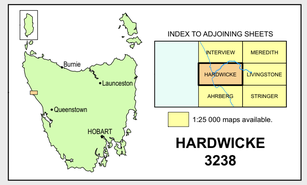
VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3238 Hardwicke. Mineral Resources Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

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

LOCATION DIAGRAM



Map generated: 07-JUN-2024

WARNING: INKS ARE LIGHT SENSITIVE.