Department of State Growth
MINERAL RESOURCES TASMANIA

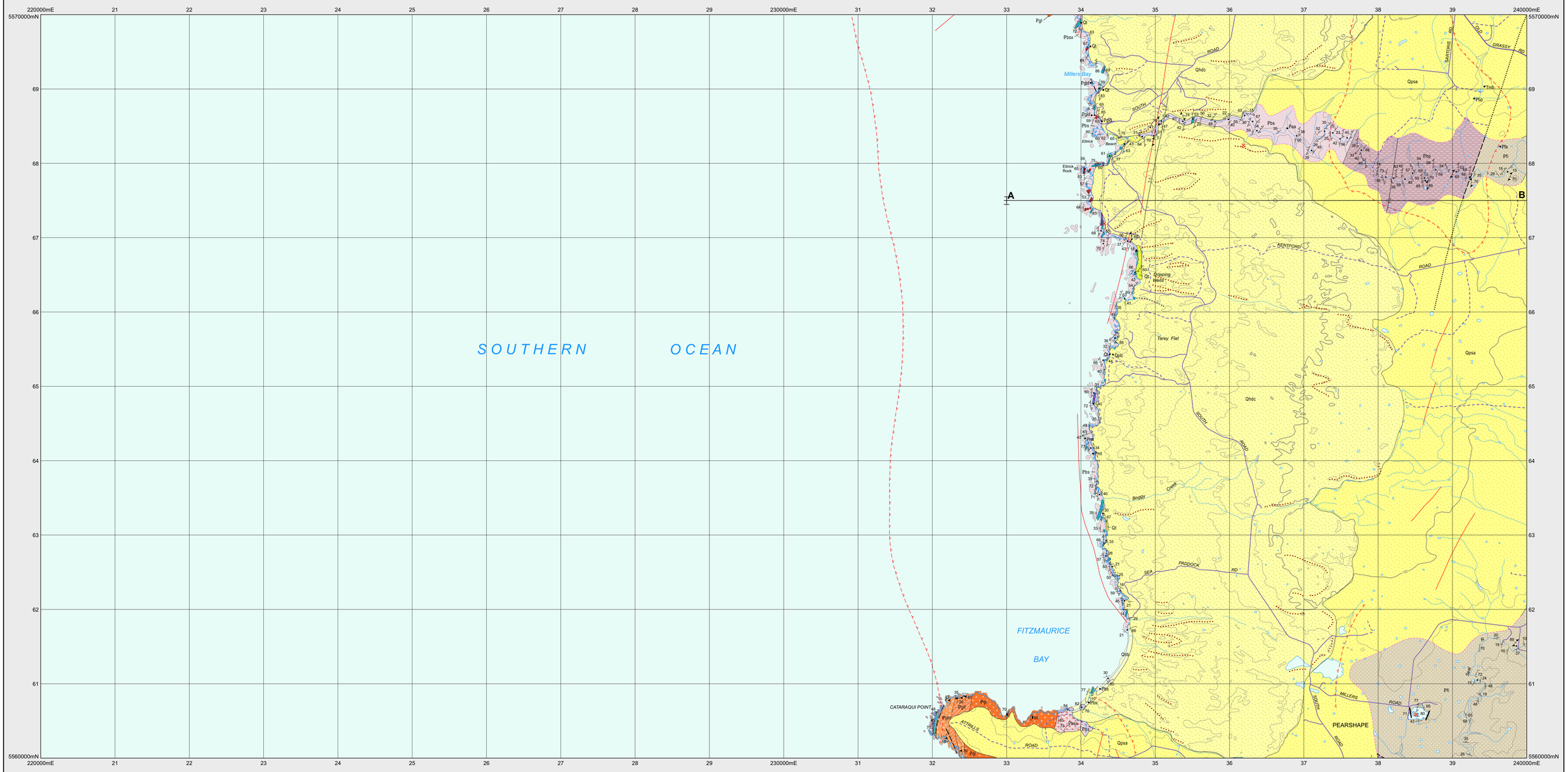
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
PEARSHAPE, SHEET 2256

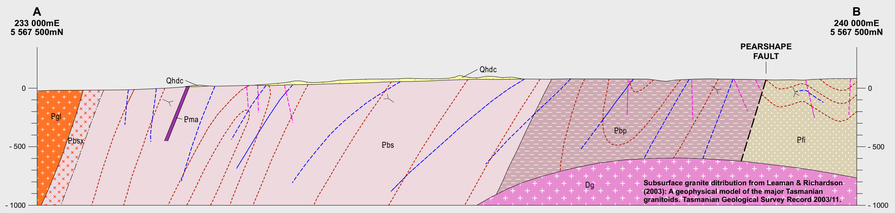
PEARSHAPE

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government





CENOZOIC

QUATERNARY

- **Qhb** — *Undifferentiated Quaternary sediments (Q). Mobile beach and dune sand (Qhb).*
- **Qhdc** — *Vegetated calcareous dune sand (Qhdc).*
- **Qt** — *Tufa spring deposits (Qt).*
- • **Qplc** — *Well-bedded aeolian calcarenite (lithified calcareous dune sand; "aeolianite") (Qplc).*
- **Qpsa** — *Stabilised aeolian sand of coastal plain (Qpsa).*

Unconformity.

- • **Tmb** — *Bioclastic shallow marine limestone (bryozoal calcarenite), probably early Miocene in age (Tmb).*

Unconformity.

MESOPROTEROZOIC

ECTASIAN

FRASER FORMATION

- **Pfi** — *Interbedded quartzose siltstone and dark grey mudstone (Pfi).*
- • **Pfa** — *Actinolite-quartz-biotite hornfels (Pfa).*

Fault.

SURPRISE BAY FORMATION

- **Pb** — *Fine-grained quartzose metasandstone, metasiltstone and quartz-mica schist; lower amphibolite facies metamorphic grade (Pb).*
  - **Pbs** — *Dominantly fine-grained quartzose sandstone in medium to thick turbidite beds, with interbedded siltstone and pelitic schist (Pbs); contact metamorphosed (Pbsx).*
  - **Pbp** — *Dominantly pelitic schist (Pbp).*
  - **Pbg** — *Schist, metasiltstone and metasandstone with metamorphic andalusite, garnet and biotite (Pbg).*
  - **Pbc** — *Strongly foliated mica schist, with local cataclasite and mylonite (Pbc).*

PALEOZOIC

CARBONIFEROUS

MISSISSIPPIAN

INTRUSIVE ROCKS

- **Dg** — *Granite (Dg) (on Cross Section only).*

NEOPROTEROZOIC

TONIAN

- **Pmt** — *Tholeiitic dolerite sills in Surprise Bay Formation; demonstrably younger than the Loorana Granite near Ettrick Rock (thickness exaggerated) (Pmt).*
- **Pma** — *Strongly fractionated dolerite sills, usually feldspar-phyric, in Surprise Bay Formation; probably younger than the Loorana Granite (thickness exaggerated) (Pma).*
- **Pgld** — *Granitic dykes, including quartz-feldspar-biotite porphyry and pegmatite (Pgld).*
- **Pgl** — *Equigranular/seriate to sparsely porphyritic (K-feldspar), fine- to medium-grained biotite monzogranite, with sparse mafic enclaves (Loorana Granite, dated at 748 ± 2 Ma at 231760mE, 5572950mN, U-Pb SHRIMP on zircon: Black et al., 1997) (Pgl).*
- **Pgf** — *Strongly foliated biotite monzogranite, commonly with seams and bands with an anastomosing sub-mylonitic grain foliation, and strongly flattened mafic enclaves (variant of Loorana Granite) (Pgf).*
- **Pglc** — *Breccia, cataclasite and mylonite, derived predominantly from the Loorana Granite, with minor interfoliated pelitic schist (Pglc).*
- **Paa** — *Amphibolite dykes and sheets of tholeiitic composition; older than Loorana Granite (thickness exaggerated) (Paa).*

Contact metamorphism associated with Cryogenian granites.

CONTACTS

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

FAULTS

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

LINEARS

- *Axial surface trace of major overturned antiform.*
- *Axial surface trace of major overturned synform.*
- *Subsurface geological boundary projected to surface.*
- *Dune crest.*
- *Lineament - visible in magnetic data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *Bedding trend line (on Cross Section only).*
- *S_1 cleavage trend line (on Cross Section only).*
- *S_2 cleavage trend line (on Cross Section only).*

- *Strike and dip of bedding - right way up; facing unknown; overturned.*
- *Strike and dip of dyke or vein, rock type or mineral unspecified.*
- *Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified.*
- *Strike and dip of cleavage - type and relative age unspecified; relative local age S_1; relative local age S_2.*
- *Strike and dip of mylonitic foliation or mylonite zone.*
- *Strike and dip of mafic schlieren associated with granitic rock.*
- *Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface; horizontal.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, vergence sinistral; with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, relative local age F_1; F_2.*
- *Direction of upward stratigraphic younging (on Cross Section only).*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Construction material/industrial mineral/gemstone location.*

REFERENCE THIS MAP AS:

EVERARD J.L. & CALVER C.R. 2012. Digital Geological Atlas 1:25 000 Scale Series. Sheet 2255 Pearshape. 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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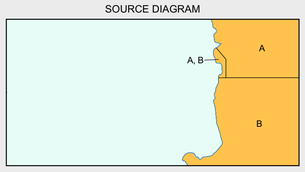
SOURCE DIAGRAM



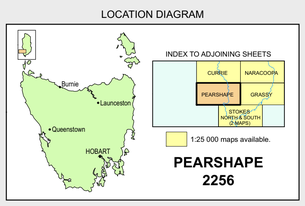
- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance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

Geology by J.L. Everard, B.Sc.(Hons) and C.R. Calver, B.Sc.(Hons), Ph.D., 2012 from the following sources (see source diagram):

A C.R. Calver 1:25 000 scale geological mapping, 2009.

B J.L. Everard 1:25 000 scale geological mapping, 2009-2010.

LOCATION DIAGRAM



Map generated: 19-OCT-2023

WARNING: INKS ARE LIGHT SENSITIVE.