Department of State Growth
MINERAL RESOURCES TASMANIA

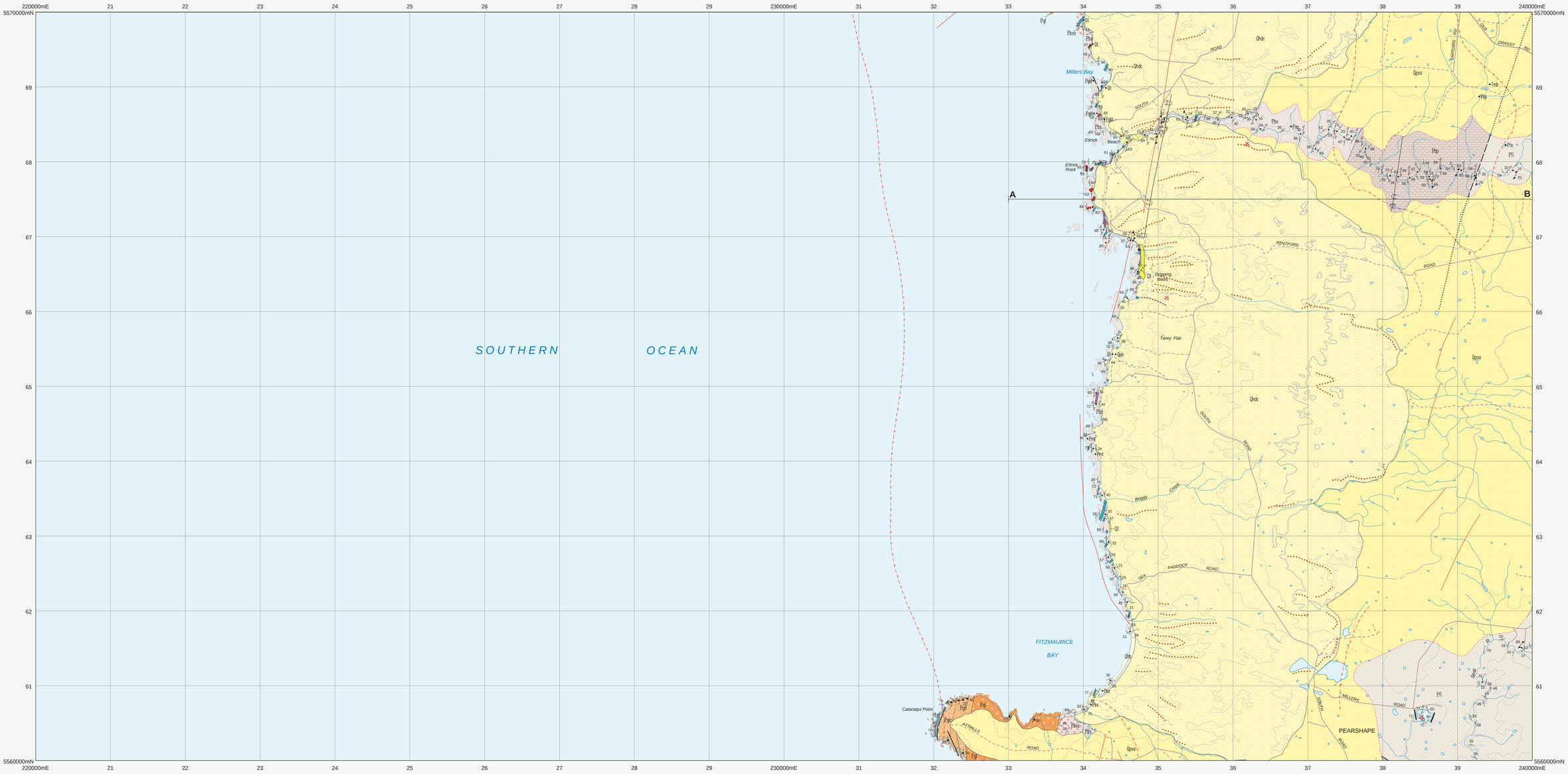
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
PEARSHAPE, SHEET 2256

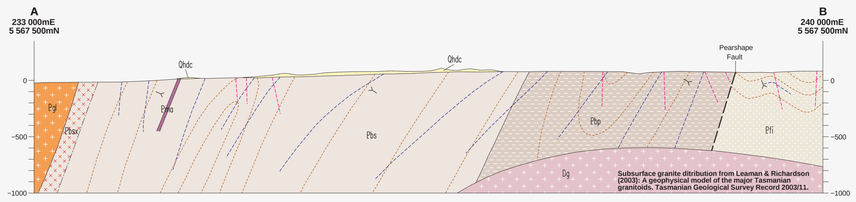
PEARSHAPE

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government





CENOZOIC — QUATERNARY (Q)

- Qhb — *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, metapsilitstone and quartz–mica schist; lower amphibolite facies metamorphic grade (Surprise Bay Formation) (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, metapsilitstone and metasandstone with metamorphic andalusite, garnet and biotite (Pbg).*
  - Pbc — *Strongly foliated mica schist, with local cataclasite and mylonite (Pbc).*

INTRUSIVE ROCKS

PALEOZOIC — CARBONIFEROUS — MISSISSIPPIAN

- Dg — *Granite (Dg) (subsurface only).*

NEO-PROTEROZOIC — CRYOGENIAN

- 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 231 760 mE, 5 572 950 mN, U–Pb SHRIMP on zircon: Black et al., 1997) (Pgl).*
- Pglf — *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) (Pglf).*
- Pglc — *Breccia, cataclasite and mylonite, derived predominantly from the Loorana Granite, with minor interfoliated pelitic schist (Pglc).*
- Pga — *Amphibolite dykes and sheets of tholeiitic composition; older than Loorana Granite (thickness exaggerated) (Pga).*

Contact metamorphism associated with Cryogenian granites.

- *Geological boundary – position accurate or approximate.*
- *Transitional boundary – position accurate or approximate.*
- *Geological boundary – concealed.*
- *Geological boundary – inferred from airborne radiometric data.*
- *Fault – unspecified type, position accurate or approximate.*
- *Fault – unspecified type, concealed.*
- *Magnetic lineament.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *Dune crest.*
- *Axial surface trace of major overturned antiform.*
- *Axial surface trace of major overturned synform.*
- *Bedding trend line (on Cross Section only).*
- *S1 cleavage trend line (on Cross Section only).*
- *S2 cleavage trend line (on Cross Section only).*
- *Limit of mapping.*
- (white line) *Limit of mapping of sub–unit within undifferentiated rock unit.*

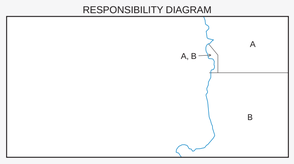
Strike and dip of bedding – right way up; facing unknown overturned.
Strike and dip of dyke or vein, rock type or mineral specified.
Strike and dip of outcrop–scale fault of unspecified relative age, type unspecified.
Strike and dip of cleavage – type and relative age unspecified; relative local age S1; relative local age S2.
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; vergence sinistral.
Trend and plunge of minor fold hinge line, relative local age F1; F2.
Direction of upward stratigraphic younging (on Cross Section only).
Notable small outcrop.
Field station for adjacent readings on the map.
Construction material/industrial – mineral/gemstone location — *Data derived from Mineral Resources Tasmania DEPOSITS database. Data point position has not been verified in every case.*

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

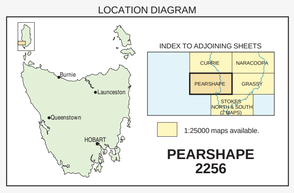
A C.R. Calver 1:25 000 scale geological mapping, 2009.

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

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

CALVER C.R. & EVERARD J.L. (compilers) 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 using G.I.S. software.

Website: www.mrt.tas.gov.au

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

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