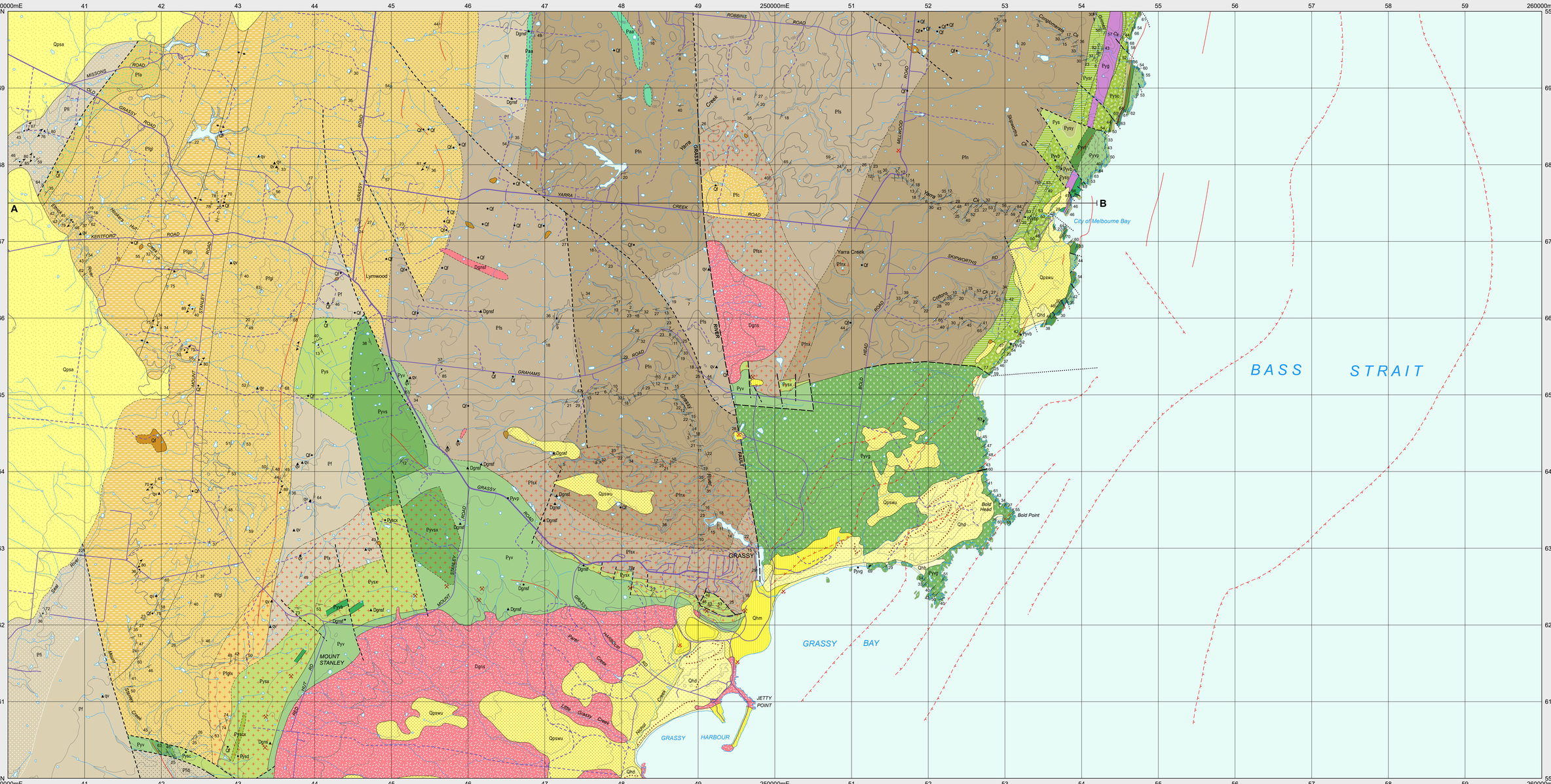
Department of State Growth
MINERAL RESOURCES TASMANIA

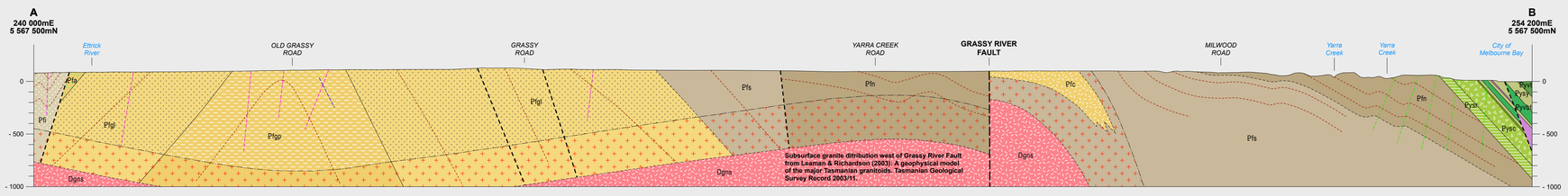
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
GRASSY, SHEET 2456

GRASSY

Scale 1:25 000

Tasmanian Government





SECTION V:H = 1:1

CENOZOIC

QUATERNARY

HOLOCENE

- **Qhm** — *Mine tailings, landfill and man-disturbed ground (Qhm).*
- **Qhbg** — *Beach shingle and gravel deposits (Qhbg).*
- **Qhb** — *Mobile beach and dune sand (Qhb).*
- **Qhd** — *Vegetated dune sand (Qhd).*

PLEISTOCENE

- **Qpswu** — *Older aeolian dune sand and minor clay, peat and gravel (Qpswu).*
- **Qpsa** — *Stabilised aeolian sand of coastal plain (Qpsa).*
- **Qf** — *Ironstone (Qf).*

Unconformity.

NEOPROTEROZOIC

EDIACARAN

Pyv

- **Pyvq** — *Undifferentiated mafic volcanics and metavolcanics (Pyv); contact metamorphosed (Pyvx). Dark grey to purplish-grey, ferruginous silty mudstone (Pyvs); contact metamorphosed (Pyvsx). Massive, tholeiitic basalt, with minor volcaniclastic conglomerate and sandstone (Grahams Road Volcanics) (Pyvg).*

Pyvs

- **Pyvp** — *Pillow lava, volcanic breccia, volcanic sandstone, and thin lava flows, all of picritic composition (Shower Droplet Volcanics) (Pyvp).*
- **Pyvt** — *Pillow lava, massive lava and volcanic breccia and sandstone, all of tholeiitic composition (City of Melbourne Volcanics) (Pyvt).*

Pys

- **Pysy** — *Undifferentiated sedimentary rocks of Grassy Group (Pys); contact metamorphosed and metasomatised (Pysx). Shale; pale yellow-green, red, or black in colour (Yarra Creek Shale) (Pysy).*
- **Pysd** — *Laminated dolostone passing up into thinly interbedded dolostone, shale and limestone (Cumberland Creek Dolostone) (Pysd).*
- **Pysc** — *Diamictite with clasts up to boulder size of dominantly limestone, dolostone and metasiltstone. Grey, carbonate-rich matrix in lower part; upper part with reddish siliciclastic matrix and beds of volcaniclastic sandstone. (Cottons Breccia) (Pysc); contact metamorphosed and metasomatised (Pyscx).*
- **Pysr** — *Laminated black shale and chloritic siltstone, including minor altered mafic lavas and local basal conglomerate (Robbins Creek Formation) (Pysr).*

GRASSY GROUP

Unconformity.

MESOPROTEROZOIC

Pf

- **Pfn** — *Undifferentiated Fraser Formation (Pf); contact metamorphosed (Pfx). Thick-bedded grey-black mudstone with minor thin beds of quartzose siltstone (Pfn); contact metamorphosed (Pfnx).*
- **Pfs** — *Thick-bedded micaceous quartzose siltstone and very fine-grained quartz sandstone with minor grey-black mudstone (Pfs); contact metamorphosed (Pfsx).*
- **Pfc** — *Cummingtonite-quartz-biotite hornfels (Pfc).*
- **Pfgl** — *Pale grey quartzose metsiltstone and minor pelitic siltstone, laminated in most places, with metamorphic chlorite, biotite and garnet (Pfgl); contact metamorphosed (Pfglx).*
- **Pfgp** — *Thinly interbedded grey silty metapelite and pale grey quartzose metasiltstone, with metamorphic chlorite, biotite and garnet (Pfgp); contact metamorphosed (Pfgpx).*
- **Pfa** — *Actinolite-quartz-biotite hornfels (Pfa).*
- **Pfib** — *Interbedded quartzose siltstone and dark grey siltstone, with metamorphic biotite and chlorite (Pfib).*
- **Pfi** — *Interbedded quartzose siltstone and dark grey mudstone (Pfi); contact metamorphosed (Pfix).*

FRASER FORMATION

INTRUSIVE ROCKS

PALEOZOIC

CARBONIFEROUS — MISSISSIPPIAN

- **Dgnsf** — *Microgranite and quartz-feldspar porphyry (Dgnsf).*
- **Dgns** — *Porphyritic (K-feldspar) hornblende-biotite monzogranite (Sandblow and Bold Head Granites). Sandblow Granite dated at 350.8 ± 1.7 Ma (SHRIMP U-Pb on zircon) (Dgns).*

NEOPROTEROZOIC

EDIACARAN

- **Pyg** — *Subvolcanic andesitic intrusive sheet in Grassy Group, amygdaloidal in places and locally with gabbroic cumulate base, dated at 575 ± 3Ma (SHRIMP U-Pb on zircon) (Grimes Intrusive Suite) (Pyg).*
- **Pyvb** — *Mafic dykes and sills in Grassy Group (Pyvb); tholeitic (Pyvbt); local occurence of picritic at 253260mE, 5567320mN (Pyvbp).*

MESOPROTEROZOIC

- **Paa** — *Hornblende amphibolite (Paa).*

▲ qv — *Notable vein quartz (qv).*

Contact metamorphism and metasomatism associated with intrusion of Early Carboniferous monzogranites. (Includes Pfglx, Pfnx, Pfsx, Pfx, Pyscx, Pysx, Pyvsx, Pyvx).

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Geological contact - inferred from magnetic data.*
- *Transitional geological contact.*
- *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 later antiform.*
- *Dune crest.*
- *Lineament - visible in magnetic data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *S_3 cleavage trend line (on Cross Section only).*
- *S_2 cleavage trend line (on Cross Section only).*
- *S_1 cleavage trend line (on Cross Section only).*
- *Bedding trend line (on Cross Section only).*

- *Strike and dip of bedding - facing known; facing unknown.*
- *Horizontal bedding.*
- *Strike and dip of primary flattening of pillows.*
- *Strike and dip of primary igneous banding or platy alignment, and schlieren in granitic rocks.*
- *Strike and dip of dyke or vein, rock type or mineral unspecified.*
- *Strike and dip of dominant joint set.*
- *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; relative local age S_3.*
- *Strike of vertical cleavage, relative local age S_3.*
- *Trend and plunge of minor fold hinge line, unspecified relative age.*
- *Trend and plunge of minor fold hinge line, vergence dextral, relative local age F_1; F_3.*
- *Direction of upward stratigraphic younging (on Cross Section only).*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence with rock unit indicated.*
- *Mineral deposit location - hardrock.*
- *Construction material/industrial mineral/gemstone location.*

REFERENCE THIS MAP AS:

CALVER, C.R. 2008. Digital Geological Atlas 1:25 000 Scale Series. Sheet 2456 Grassy. 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 C.R. Calver, B.Sc.(Hons), 2008 from the following sources (see source diagram):

A C.R. Calver 1:25 000 scale geological mapping, 2007-2008.

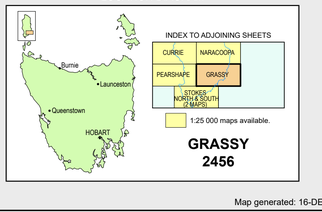
B BROWN, S.G., 1975: Progress Report on the Exploration of the Grassy Granite Contact Zone. Geopeko Ltd. TCR 75-1079.

C BROWN, S.G., 1983: Annual Report to the mines Department, E.L. 15/66. Geopeko Ltd. TCR 83-2034.

D DANIELSON, M.L., 1975. King Island scheelite deposits. In KNIGHT, C.L., (ed.): Economic Geology of Australia and Papua-New Guinea. Australian Institute of Mining and Metallurgy, Monograph 5, 592-599.

E WALDRON, H.M., and BROWN, A.V., 1993, Geological setting and petrochemistry of Eocambrian-Cambrian volcano-sedimentary rock sequences from southeast King Island, Tasmania: Mineral Resources Tasmania Report 1993/28.

LOCATION DIAGRAM



Map generated: 16-DEC-2025

WARNING: INKS ARE LIGHT SENSITIVE.