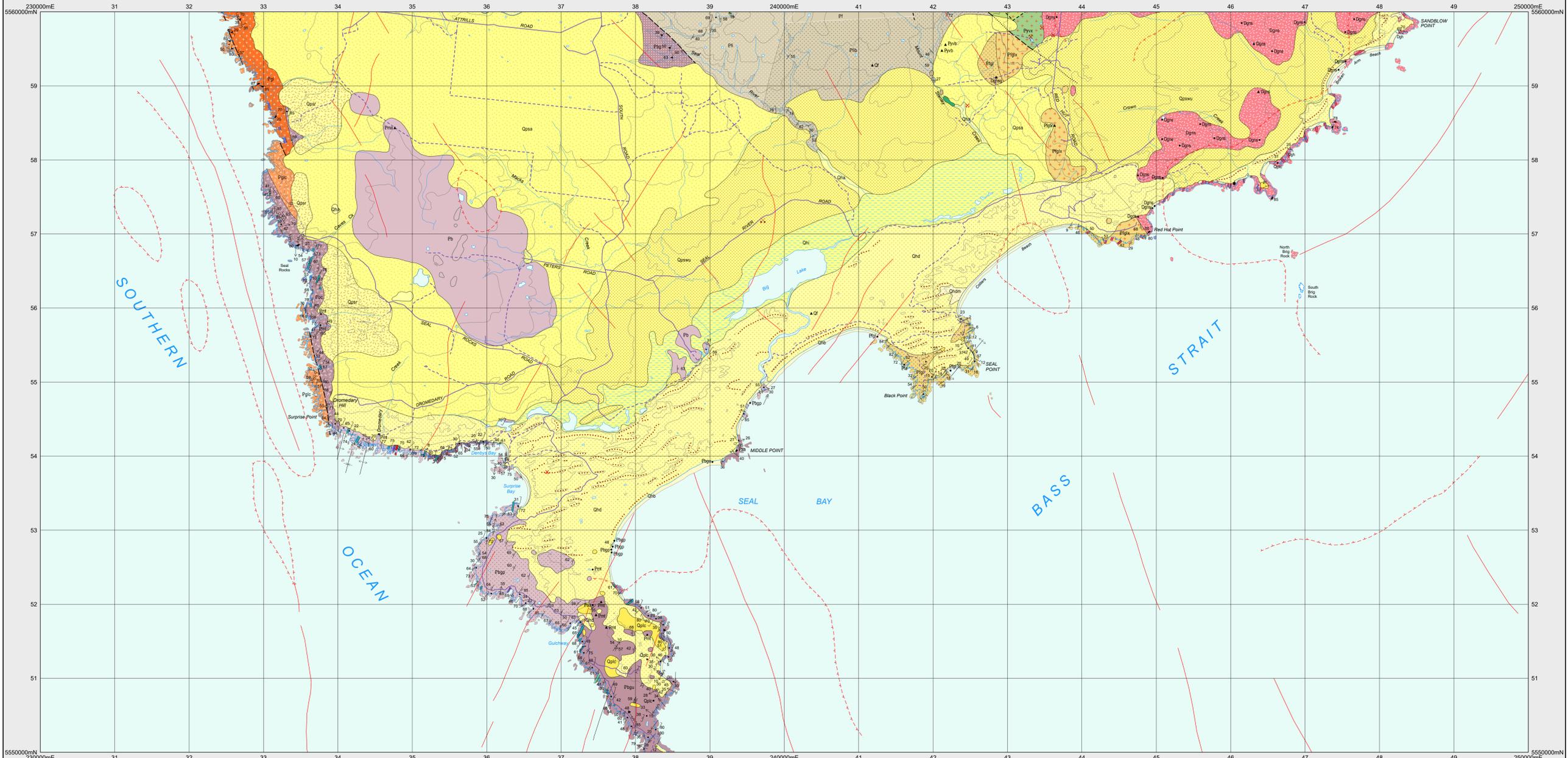


STOKES NORTH

Scale 1:25 000



COMPOSITE LEGEND FOR STOKES NORTH AND STOKES SOUTH

Geological Unit	Description
Qhb	Mobile beach and dune sand (Qhb).
Qhm	Mobile dune sand (Qhm).
Qhd	Vegetated dune sand (Qhd), vegetated calcareous dune sand (Qhd).
Qhs	Stream alluvium and freshwater swamp and marsh deposits (Qhs).
Qhr	Lagoon and paralic swamp deposits (Qhr).
Qhsr	Older calcareous dune sand with locally abundant rhizomorph fragments (Qhsr).
Qpsw	Older aeolian dune sand and minor clay, peat and gravel (Qpsw).
Qps	Stabilised aeolian sand of coastal plain (Qps).
Qpic	Well-bedded aeolian calcarenite (lithified calcareous dune sand: 'scablands') (Qpic).
Qf	Local occurrences of ironstone (Qf).
Trnb	Biohermal shallow marine limestone (truncated calcarenite) with a probable Early Miocene fauna (Trnb).
Unconformity	Unconformity.

Geological Unit	Description
Pfyx	Contact metamorphosed mafic volcanics and volcanoclastics (undifferentiated Skipworth Subgroup) (Pfyx).
Eys	Undifferentiated sedimentary rocks of Grassy Group (Eys); contact metamorphosed and metasomatised (Eys).
Unconformity	Unconformity.
Pfa	Local occurrence of massive silty metapelite with amphibole (tronite-actinolite) porphyroblasts (Pfa).
Pfg	Undifferentiated Fraser Formation (quartz siltstone and mudstone) (Pfg). Pale grey quartzose metasilts, very fine-grained metasilts and minor pelitic siltstone, laminated in most places, commonly with metamorphic chlorite, biotite and garnet (Pfg); contact metamorphosed (Pfg).
Pfb	Interbedded quartzose siltstone and dark grey siltstone, with metamorphic biotite and chlorite (Pfb).
Pfh	Interbedded quartzose siltstone and dark grey siltstone (Pfh).
Pfc	Faulted contact
Pfga	Fine-grained quartzose metasilts, metasilts and quartz-mica schist (Surprise Bay Formation) (Pfga). Strongly foliated mica schist, with local cataclasis and mylonite (Pfga).
Pfgb	Schist, metasilts and metasilts with metamorphic andalusite, garnet and biotite (Pfgb). Interbedded medium- to thick-bedded very fine-grained quartz sandstone and pelitic schist with metamorphic biotite & garnet (Pfgb). Intervals of banded schist with tremolite porphyroblasts and metamorphic garnet and biotite (Pfgb); schist with abundant aluminous concretions (2-10cm diameter) and tremolite porphyroblasts in matrix (Pfgb). (Pfga, Pfgb, Pfgc: upper sandy member of the Surprise Bay Formation).
Pfgc	Usually thin-bedded pelitic schist with metamorphic biotite, garnet and locally abundant andalusite porphyroblasts (Pfgc: middle pelitic member of the Surprise Bay Formation).
Pfgd	Thick-bedded fine-grained quartz sandstone and subordinate pelitic siltstone with metamorphic biotite & garnet and rare andalusite (Pfgd).
Pfgf	Schist, metasilts and metasilts with metamorphic biotite (Pfgf). (Pfgf, Pfgg: lower sandy member of the Surprise Bay Formation).

IGNEOUS ROCKS

Dgrng	Hornblende & biotite microgranodiorite dykes (thickness exaggerated) (Dgrng).
Dgrs	Porphyritic (K-feldspar) to equigranular hornblende-biotite monzogranite, with common mafic enclaves (Sandblow Granite; Hypo; dated at 390.8 ± 1.7 Ma, U/Pb SHRIMP on zircon) (Dgrs).
Pfyx	Mafic volcanics and volcanoclastics (Pfyx); contact metamorphosed (Pfyx).
Pfyx	(Pfyx, Pfyx - undifferentiated Skipworth Subgroup).
Pfypb	Chloritized picritic intrusion in Fraser Formation (Pfyb).
Pfyb	Metadiorite intrusions in Fraser Formation (Pfyb).
Pfmg	Tholeiitic dolerite dykes in Loarana Granite (thickness exaggerated) (Pfm).
Emt	Tholeiitic dolerite sills in Surprise Bay Formation; probably younger than Loarana Granite (thickness exaggerated) (Emt).
Pma	Strongly fractionated dolerite sills, usually feldspar-phryic, in Surprise Bay Formation; probably younger than Loarana Granite (thickness exaggerated) (Pma).
Pfgd	Granitic dykes, including quartz-feldspar-biotite porphyry and pegmatite (thickness exaggerated) (Pfgd).
Pfg	Equigranular/seriate to sparsely porphyritic (K-feldspar), fine- to medium-grained biotite monzogranite, with sparse mafic enclaves (Loarana Granite; dated at 748 ± 2 Ma, U/Pb SHRIMP on zircon) (Pfg).
Pfgc	Breccia, cataclasis and mylonite, derived predominantly from the Loarana Granite, with minor interfoliated pelitic schist (Pfgc); vergence sinistral.
Paa	Amphibolite dykes and sheets of tholeiitic composition; older than Loarana Granite (thickness exaggerated) (Paa).

CONTACTS

Geological contact
Metamorphic 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 antiform
Axial surface trace of major synform
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)

Strike and dip of bedding - right way up; vertical, facing indicated by single tic; overturned; facing unknown; vertical.
Strike and dip of dominant joint set; vertical.
Strike and dip of dyke or vein; Apilite (Dgh).
Strike and dip of cleavage; vertical; relative local age S.
Strike and dip of crenulation cleavage; vertical.
Strike and dip of cleavage parallel to bedding, facing unknown.
Strike and dip of metamorphic foliation other than cleavage.
Strike and dip of cataclastic foliation; vertical.
Strike and dip of mylonitic foliation or mylonite zone.
Strike and dip of ductile shear band; vertical.
Trend and plunge of lineation of unspecified type.
Trend and plunge of bedding/primary cleavage intersection lineation (L/L).
Trend and plunge of minor fold hinge line; with dip direction and dip of axial surface indicated; horizontal.
Trend and plunge of minor fold hinge line; unspecified relative age, vergence distal; vergence sinistral; with dip and dip direction of axial surface.
Trend and plunge of minor fold hinge line, relative local age F ₁ .
Trend and plunge of minor fold hinge line, relative local age F ₂ .
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.
Mineral deposit location - alluvial/tailings.
Construction material/industrial mineral/gemstone location.

REFERENCE THIS MAP AS:

EVERARD J.L. 2011. Digital Geological Atlas 1:25 000 Scale Series, Sheet 2355 Stokes, 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

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

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SOURCE DIAGRAM



Geology by J.L. Everard, B.Sc.(Hons), 2011 from the following sources (see source diagram):
A J.L. Everard 1:25 000 scale geological mapping, 2008-2010.
B J.N. Jennings, 1959. The coastal geomorphology of King Island, Bass Strait, in relation to changes in the relative level of the land and sea. Records of the Queen Victoria Museum, Launceston, New Series No.11.
C S.G. Brown, 1975. Progress report on the exploration of the Grassy Granite contact zone. Geoproc Limited, TCR 75-1075.

LOCATION DIAGRAM

