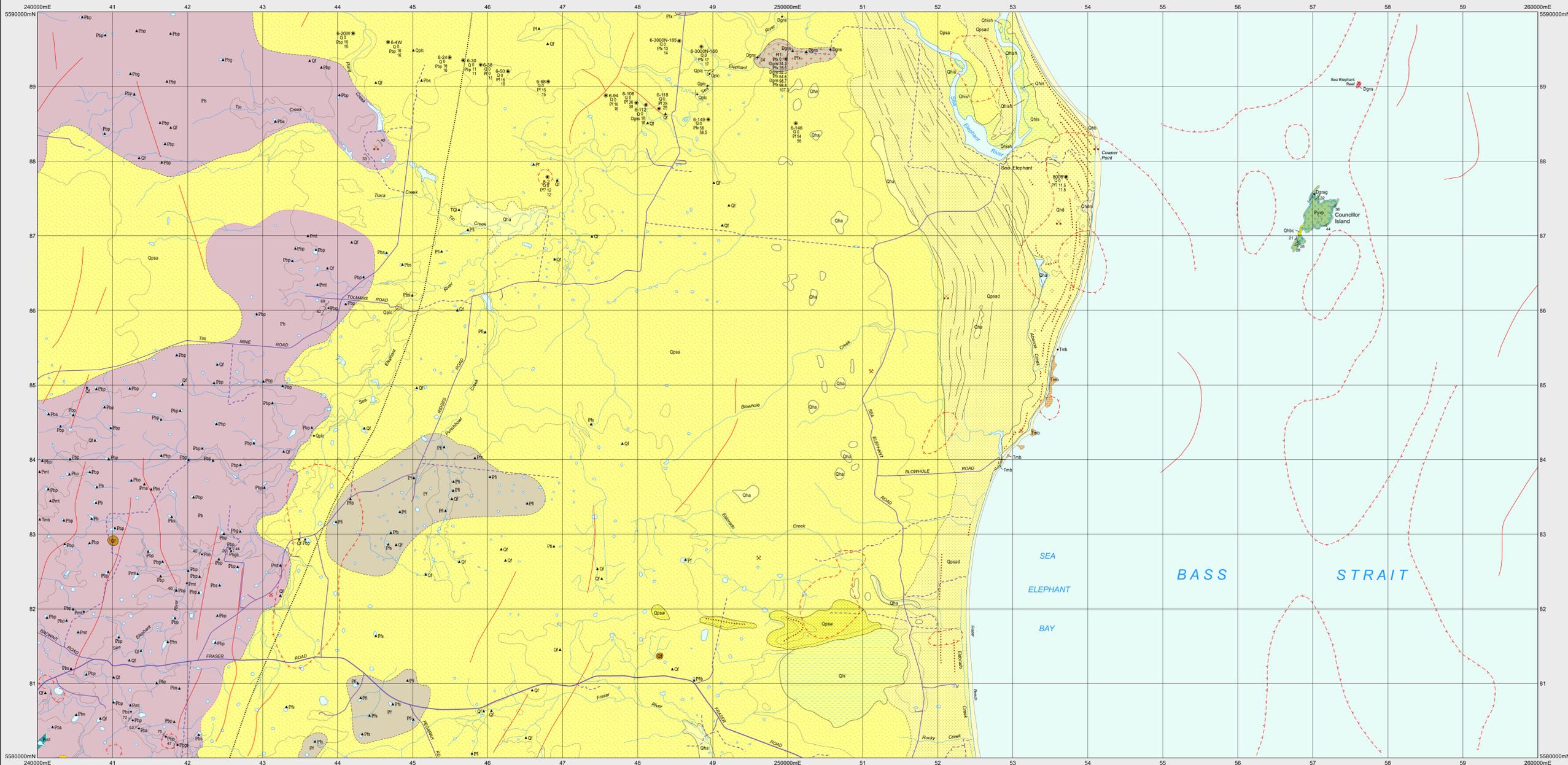


# SEA ELEPHANT

Scale 1:25 000



CENOZOIC	QUATERNARY
Qhb	Beach sand (Qhb).
Qhbc	Cobble beach deposits (Qhbc).
Qhdm	Mobile dune sand (Qhdm).
Qhd	Dune sand (Qhd).
Qhi	Paralic deposits of clay, silt, sand and minor gravel (Qhi), of modern saltmarsh and tidal flats (Qhi); of unvegetated modern tidal flats (Qhi).
Qha	Stream alluvium, swamp and marsh deposits (Qha).
Qf	Ironstone (Qf).
Qpic	Well-bedded aeolian calcarenite (identified calcareous dune sand, "aeolianite") (Qpic).
Qpsw	Older aeolian dune sand (Qpsw).
Qpsa	Stabilised aeolian sand of coastal plain, with underlying marine sand in places (Qpsa).
Qpsad	Aeolian and marine sand (unit Qpsa), with preserved relict dune landforms in places (Qpsad).
TQ1	Silicstone (at 245620mE, 5587350mN) (TQ1).
Tmb	Bioclastic shallow marine limestone (bryozoal calcarenite) (Tmb).
Tb	Basalt (Tb).

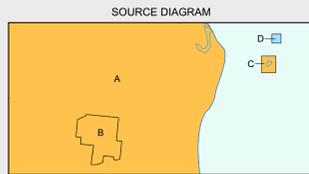
NEO-PROTEROZOIC	EDJACAPON
Eypv	Pillowed and tabular lava flows of picritic composition (Shower Droplet Volcanics) (Eypv).
Unconformity (not exposed on this sheet).	
PI	Micaceous quartzose siltstone, very fine-grained quartz sandstone and grey-black mudstone (PI), some localities with dominantly sandstone-siltstone (PI); and dominantly siltstone-mudstone (PI); siltstone-mudstone with metamorphic biotite (PIb). (PI, PIa, PIb - Fraser Formation, poorly exposed on this sheet).
PIa	Contact metamorphosed Fraser Formation (PIa).
Inferred faulted contact.	
PIb	Fine-grained quartzite metasediments, metasilstone, quartz-mica schist and phyllite with lower amphibolite facies metamorphic grade (PIb); dominantly metasediments and metasilstone (PIb); dominantly pelitic schist or phyllite (PIb); some localities with metamorphic biotite (PIb); garnet + biotite (PIg); and staurolite + garnet (PIsg) indicated. (PIb, PIa, PIb, PIg, PIsg - Surprise Bay Formation).

NEOPROT-ERZOIC (?)	EARLY CARBONIFEROUS
Dgns	Hornblende-phyric microgranodiorite porphyry (on Councilor Island at 257020mE, 5587560mN) (Dgns).
Dgns	Medium-grained equigranular biotite + minor hornblende monzogranite (Sea Elephant Granite) (Dgns).
Pmt	Tholeiitic metadolerite dykes in Surprise Bay Formation (Pmt).
Pma	Strongly fractionated plagioclase-phyric metadolerite in Surprise Bay Formation (Pma).

### INTRUSIVE ROCKS

CONTACTS	FAULTS
Geological contact.	Fault - concealed.
Geological contact - inferred.	Dune crest.
Geological contact - inferred from magnetic data.	Lineament - visible on aerial photographs.
Geological contact - inferred from radiometric data.	Lineament - visible in magnetic data.
Geological contact - based on interpretation of aerial photograph.	Magnetic gradient or lineament (direction towards lower values indicated).
Limit of mapping of sub-unit within undifferentiated rock unit.	
Limit of detailed mapping.	

Strike and dip of bedding, facing unknown; horizontal bedding.	Strike and dip of plane of primary flattening of pillow.
Strike and dip of cleavage of unspecified type and relative age; vertical; parallel to bedding, facing unknown.	Strike and dip of primary igneous banding or platy alignment, and schlieren in granite rocks.
Strike and dip of primary igneous banding or platy alignment, and schlieren in granite rocks.	Strike and dip of kink band, movement sense unspecified.
Borehole location with name, depth of rock units encountered, and final depth. Undifferentiated Quaternary sediments (Q).	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/alluvial.
Construction material/industrial mineral/gemstone location.	



Geology by J.L. Everard, B.Sc.(Hons), 2022 from the following sources (see source diagram):  
 A J.L. Everard, 1:25 000 scale geological mapping, 2020-2021.  
 B G.V. Cumming, 1:25 000 scale geological mapping, 2021.  
 C Everard, J.L., Calver, C.R., Pemberton, J., Taheri, J. & Dixon, G., 1997. Geology of the islands of southwestern Bass Strait, Tasmanian Geological Survey Record 1997/03.  
 D Twelvetrees, W.H., 1917. Phosphate deposits in Tasmania. Geological Survey Mineral Resources 1.

### REFERENCE THIS MAP AS:

EVERARD J.L. 2022. Digital Geological Atlas 1:25 000 Scale Series, Sheet 2458 Sea Elephant, Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

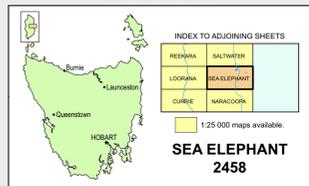
Website: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)

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

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### LOCATION DIAGRAM



1:25 000 maps available.

**SEA ELEPHANT**  
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