**Department of State Growth**
MINERAL RESOURCES TASMANIA

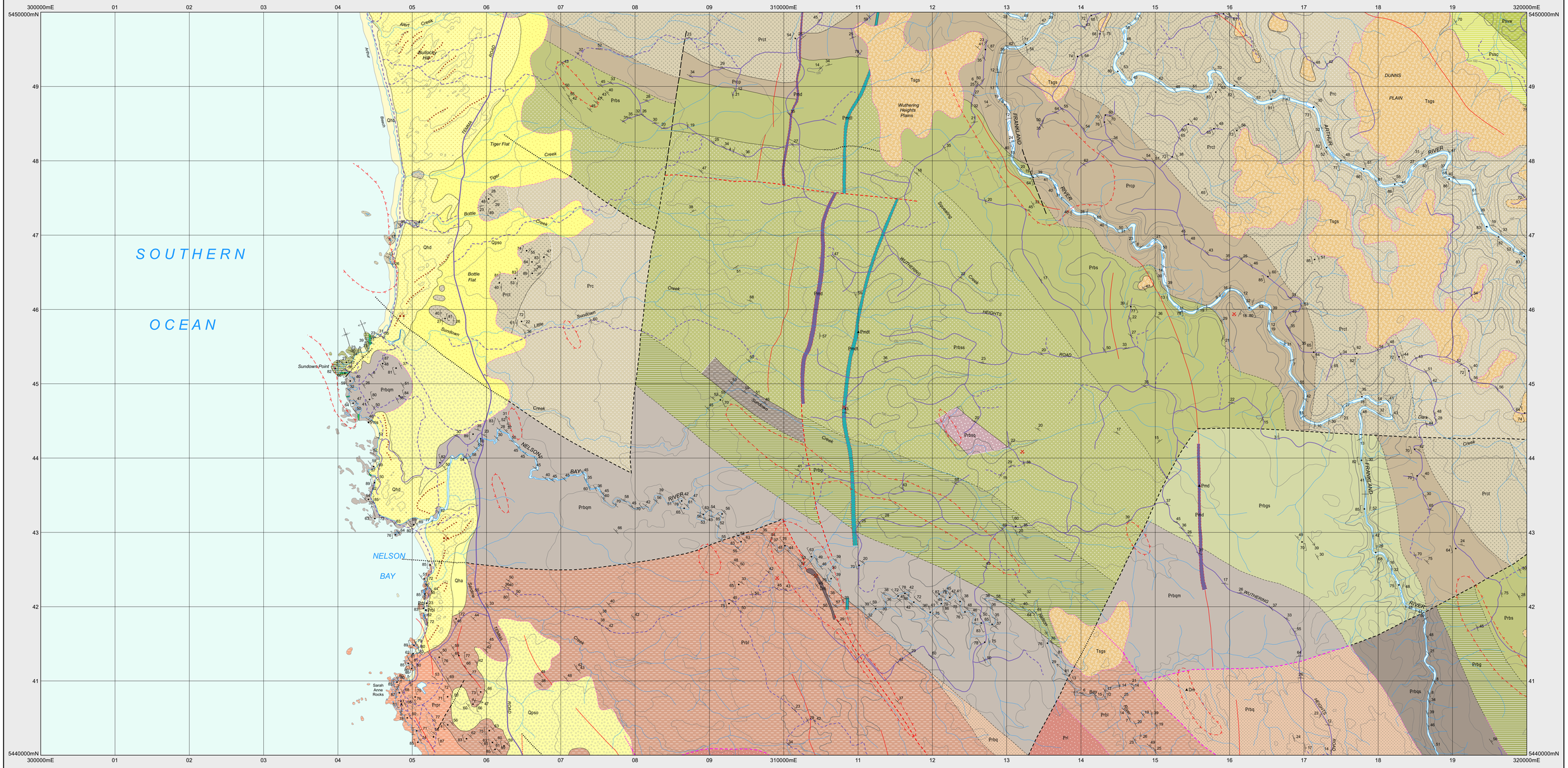
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
SUNDOWN, SHEET 3044

# SUNDOWN

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government




## CENOZOIC

### QUATERNARY

**HOLOCENE**

- **Qhb** — *Beach sand (Qhb).*
- **Qhd** — *Dune sand (Qhd).*
- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*

**PLEISTOCENE**

- **Qpso** — *Older aeolian sand and minor clay, peat and gravel (Qpso).*
- **Qpsa** — *Older stabilised aeolian sand, dominantly of coastal plains (Qpsa).*

### PALEOGENE NEOGENE ?

- **Tsgs** — *Siliceous gravels and sand, probably of fluvial origin (Tsgs).*

*Unconformity*

### CRYO- ERA- GENIAN CARAN

TOKAARI GROUP

- **Psvw** — *Interbedded laminated mudstone, siltstone and lithicwacke sandstone with mafic volcanic detritus (Psvw: Keppel Creek Formation).*
- **Pssc** — *Interbedded, massive to banded or mottled black, white and grey chert (after dolomite), laminated siltstone and minor dolomite: usually indicated by a surficial chert lag (Pssc). (Black River Dolomite).*

*Inferred low angle unconformity*

## MESOPROTEROZOIC

### ECTASIAN

COWRIE SILTSTONE

- **Prc** — *Dark grey mudstone and muddy siltstone, usually thick-bedded; minor pale siltstone laminae in places (Prc).*
- **Prct** — *Thick-bedded, very fine-grained quartz sandstone and siltstone, probably turbidites, with minor interbeds of dark grey mudstone (Prct).*
- **Prcp** — *Black mudstone, usually thin- to medium-bedded (Prcp).*

BALFOUR SUBGROUP — ROCKY CAPE GROUP

- **Prbs** — *Dominantly green planar laminated siltstone, locally with chlorite porphyroblasts (undifferentiated Prbg + Prbs) (Prbgs). Planar-laminated to thinly bedded, usually green, chloritic to siliceous siltstone and fine-grained sandstone, with locally abundant chlorite porphyroblasts (Prbs).*
- **Prbss** — *Interbedded grey to green planar-laminated siltstone and fine-grained sandstone (Prbss).*
- **Prbsq** — *Fine- to very-fine-grained quartz sandstone and orthoquartzite (Prbsq).*
- **Prbsq** — *Black, planar- and thin- to medium-bedded very fine-grained siltstone (Prbsp). (Prbs, Prbss, Prbsq, Prbsp: probable correlate of Looneys Flat Siltstone).*
- **Prbg** — *Interlaminated and thinly interbedded, pale grey-green mudstone and darker green siltstone, in places with chlorite porphyroblasts (Prbg). (Emmetts Creek Shale). (Prbgs: undifferentiated Prbg + Prbs; dominantly green planar laminated siltstone, commonly with chlorite porphyroblasts).*
- **Prbqm / Prbqs** — *Dark grey to black mudstone with lesser pale quartz siltstone as planar laminae or thin beds: contains Horodyksia (Prbqs). Dominantly grey planar-laminated mudstone and massive silty mudstone, with minor quartz siltstone as thin laminae to medium beds (Prbqm). (Prbqm, Prbqs : upper member of Cassiterite Creek Quartzite).*
- **Prbq** — *Dominantly cross-bedded orthoquartzite, with subordinate interbedded quartz siltstone and carbonaceous shale (Prbq) (lower member of Cassiterite Creek Quartzite).*
- **Prbl** — *Dominantly wavy-laminated siltstone and fine-grained sandstone (Prbl). (correlate of Skinners Flat Siltstone).*
- **Pri** — *Medium-grained quartz sandstone (Pri). (Lagoon River Quartzite).*
- **Prpr** — *Planar to slightly wavy-laminated siltstone (Prpr). (Pedder River Siltstone).*

## IGNEOUS ROCKS

### NEOPROTEROZOIC (?)

- **Pms** — *Altered metadolerite dykes, commonly containing olivine pseudomorphs and minute grains of Cr-spinel (Pms).*
- **Pmdt** — *Tholeiitic dolerite dykes (Pmdt).*
- **Pmd** — *Undifferentiated metadolerite dykes (Pmd).*

## MINERALISATION

### PALAEOZOIC (?) — DEVONIAN (?)

- **Dm** — *Magnetite skarn; usually indicated at surface by gossanous ironstone (Dm).*

## CONTACTS

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

## FAULTS

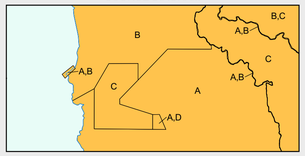
- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*
- *Fault - inferred from magnetic data.*
- *Fault - concealed, inferred from magnetic data.*
- *Fault - inferred from radiometric data.*
- *Fault - concealed, inferred from radiometric data.*

## LINEARS

- *Axial surface trace of major antiform.*
- *Axial surface trace of major synform.*
- *Dune crest.*
- *Lineament - visible in magnetic data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*

- *Strike and dip of bedding, facing known - right way up.*
- *Strike and dip of bedding, facing unknown - dipping; vertical.*
- *Horizontal bedding.*
- *Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.*
- *Trend and plunge of minor fold hinge line, unspecified relative age.*
- *Trend of horizontal minor fold hinge line, unspecified relative age.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, vergence dextral.*
- *Trend and plunge of minor hinge line, unspecified relative age, vergence sinistral, with dip and dip direction of axial surface; with vertical axial surface.*
- *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.*

## 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), C.R. Calver, B.Sc.(Hons) Ph.D. and B.S. Waining, B.Sc.(Hons). with acknowledgements to Geopeko Ltd. Compiled 2013/2014 from the following sources (see source diagram):

A J.L. Everard, new field mapping 2012/1013.

B C.R. Calver, new field mapping 2012.

C B.S. Waining, new field mapping 2012.

D Hermann, W. and Sumpton J. 1982. Progress report, Exploration Licence 1/1977, Temma area 1981. Geopeko Ltd (TCR82-1721).

**REFERENCE THIS MAP AS:**

EVERARD J.L., CALVER C.R. and WAINING B.S. 2015. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3044 Sundown. 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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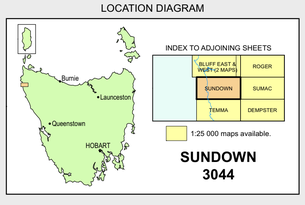
## LOCATION DIAGRAM




Map generated: 30-AUG-2023

**WARNING:** INKS ARE LIGHT SENSITIVE.