Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

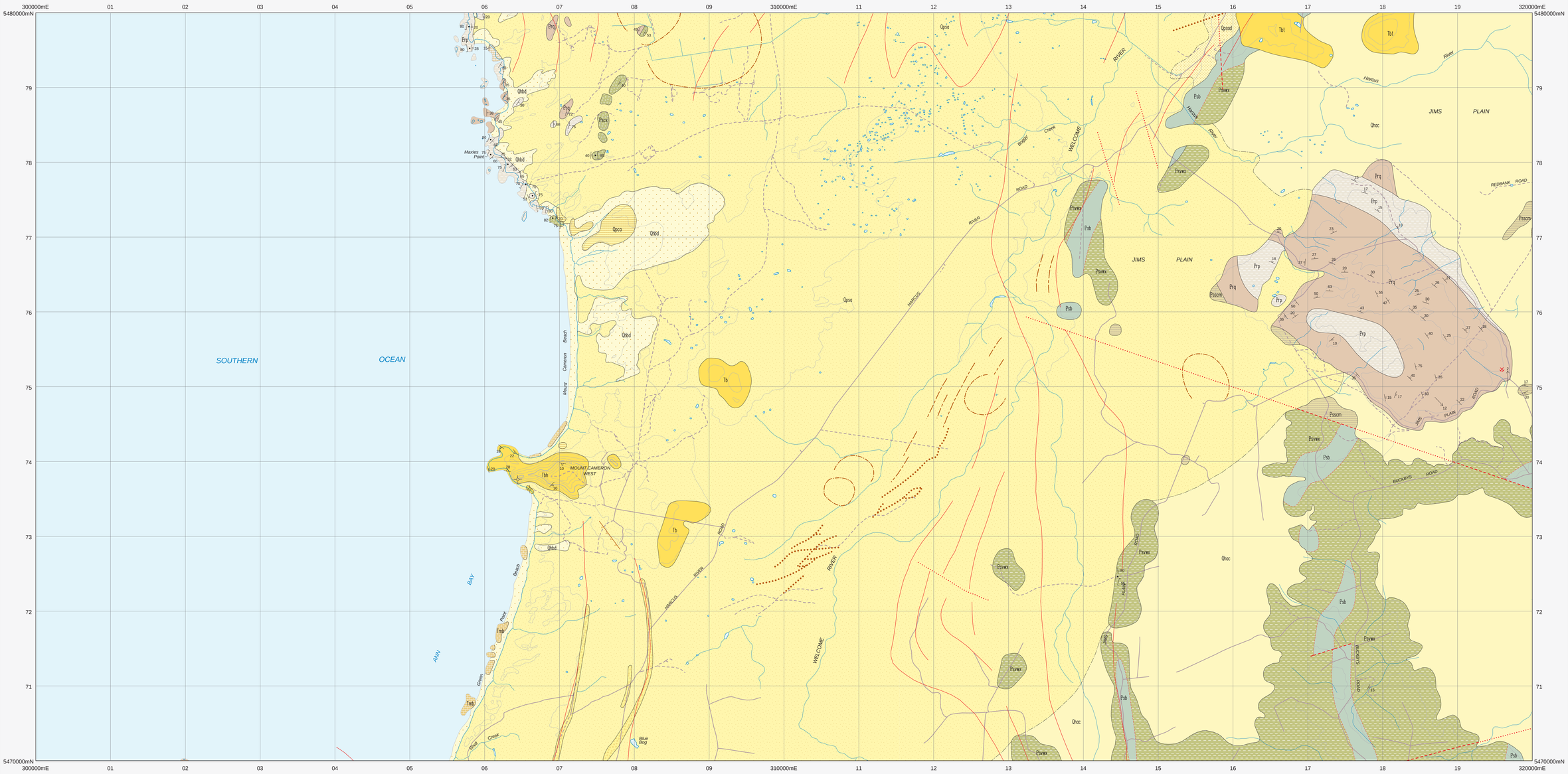
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
CAMERON, SHEET 3047

CAMERON

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmania
Explore the possibilities



CENOZOIC

QUATERNARY

HOLOCENE

Qhac — Alluvium and colluvium – including alluvial deposits of sand, clay–rich sand or gravel; talus and slope–wash deposits; swamp deposits of sand, clay and peat; and deposits rich in chert lag derived with associated soil from underlying Proterozoic dolomite sequences. (Qhac).

Qhbd — Younger active dune and beach sand and beach gravel (Qhbd).

PLEISTOCENE

Qpco — Aeolian calcarenite, partially lithified, showing dune cross–bedding (Qpco).

Qpsa / Qpsad — Older stabilised aeolian sand of predominantly coastal plain, with underlying marine sands in places; may show relict landforms including terraces, lunettes, linear or barchan dunes, and beach ridges related to regressive strandlines of Last Interglacial Stage (Qpsa); some areas with preserved relict barchan dune forms indicated (Qpsad).

Qpsg — Gravel deposits of probable strandline origin, probably related to higher sealevel during Last Interglacial Stage (Qpsg).

Erosional Surface.

PALEOGENE – NEOGENE

Tb — Basalt lava (Tb); olivine tholeiite (Tbt); hawaiite (Tbh). At Mt. Cameron West, Tbh with K–Ar geochronological age 14.5 +/– 2Ma, 15.5 +/– 2Ma overlies Tmb.

Tmb — Bioclastic shallow marine limestone, of Early Miocene (U. Longfordian to Batesfordian) biostratigraphic age (Tmb).

Angular unconformity.

NEOPROTEROZOIC

Psvwx / Psb — Interbedded lithic wacke (massive to well bedded, turbiditic and/or mafic volcaniclastic in part), laminated siltstone/mudstone, and minor polymict lithic conglomerate; includes some occurrences of coarse breccia or mixtite with clasts of mafic volcanic rocks (Psvwx). (Correlate of Keppel Creek Formation, may include some equivalents of Croles Hill Mixtite).

Massive and minor amygdaloidal, dominantly tholeiitic basalt (Psb). (Correlate of Spinks Creek Volcanics).

Pscm — Massive to banded or mottled, black, white and grey chert (after shallow marine carbonate), with subordinate interbedded laminated black mudstone, and with preserved oolitic and stromatolitic textures in places (Pscm). (Correlate of Black River Dolomite).

Psck — Monomict (with dominantly quartzarenite clasts) and minor polymict, massive coarse lithic breccia, and bedded lithic conglomerate with subordinate cross–laminated quartzarenite (Psck). (Correlate of Forest Conglomerate and Quartzite).

TOGARI GROUP

Erosional and transgressive surface; low angle unconformity at some localities.

?MESOPROTEROZOIC

Prq — Pale weathering, variably silicified quartzarenite, well bedded and commonly with cross–lamination of trough and planar–tabular types and oscillation ripple bedforms, and with minor horizons of laminated siltstone; tidal influence suggested by bed to bed reversals of cross–lamination polarity in some sections. (Prq).

Prp / Prpds — Mid to dark grey, thin–bedded laminated siltstone and mudstone, with minor thin interbeds of cross–laminated and oscillation ripple–marked quartzarenite in some places (Prp); laminated dolomitic mudstone in some areas (Prpds).

ROCKY CAPE GROUP CORRELATE

IGNEOUS ROCKS

CENOZOIC — PALEOGENE – NEOGENE

Tb — Basalt lava (Tb); olivine tholeiite (Tbt); hawaiite (Tbh).

NEOPROTEROZOIC

Psb — Massive and minor amygdaloidal, dominantly tholeiitic basalt (Psb). (Correlate of Spinks Creek Volcanics).

Geological boundary – position accurate or approximate.

Geological boundary – transitional. Position of this boundary between units Qhac and Qpsa is very approximate and indicative only.

Geological boundary, unspecified type, inferred from airborne magnetic data.

Fault, unspecified type, inferred from airborne magnetic data.

Fault, unspecified type, concealed, inferred from airborne magnetic data.

Lineament visible in airborne magnetic data.

Crest of remnant old stabilised longitudinal dune.

Margin of relict lunette and associated swamp.

Trends of relict beach ridges related to regressive strandlines of Last Interglacial Stage.

Trace of old sea–cliff related to elevated sealevel of Last Interglacial Stage.

Limit of mapping.

Strike and dip of bedding – facing known; unknown.

Strike and dip of primary igneous flow banding; vertical.

Strike and dip of cleavage, type and relative age unspecified.

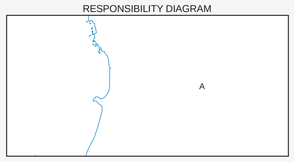
Trend and plunge of hingeline of minor fold, relative age unspecified; with dip direction and dip of axial surface; with vertical axial surface.

Construction material/industrial mineral/gemstone location – Data derived from Mineral Resources Tasmania GEPOSITS data base. Data point position has not been verified in every case.

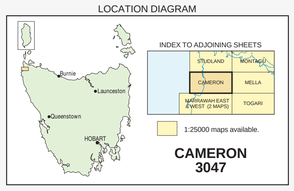
Compiled by D.B. Seymour, B.Sc.(Hons), PhD. 2001 from the following sources (see responsibility diagram):

A SEYMOUR, D.B., BAILLIE, P.W. 1992. Geological Atlas 1:50,000 Series. Sheet 7816S Woolnorth. Tasmania Department of Mines.
With modifications and additions based on interpretation of airborne magnetic and radiometric data collected under the Western Tasmanian Regional Minerals Program 2001.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

SEYMOUR, D.B. (compiler) 2001. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3047. Cameron. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.

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

GDA

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