Department of State Growth
MINERAL RESOURCES TASMANIA

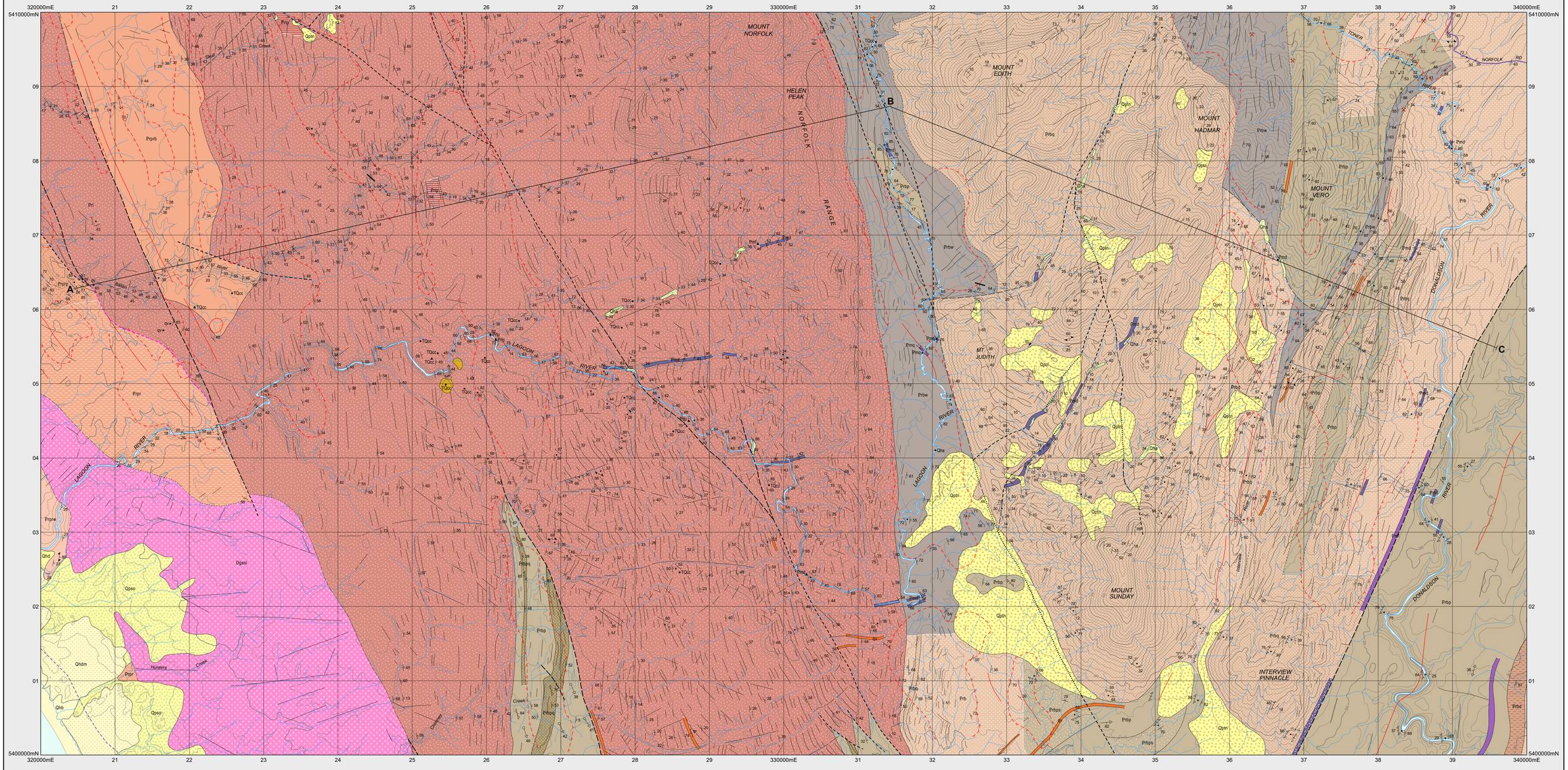
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
LAGOON, SHEET 3240

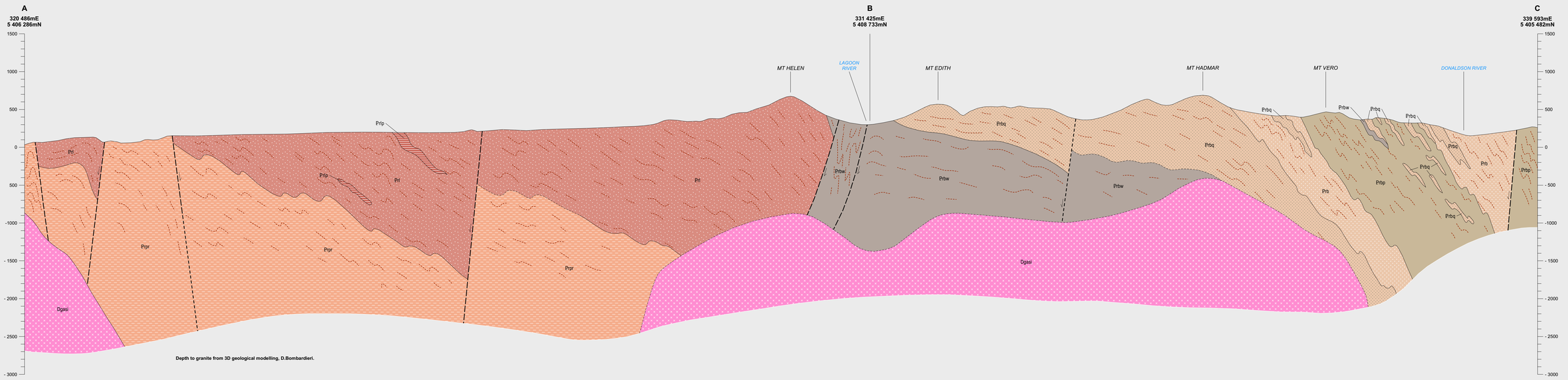
LAGOON

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government





Depth to granite from 3D geological modelling, D.Bombardieri.

SECTION V:H = 1:1

CENOZOIC

QUATERNARY

HOLOCENE

- Qhb — *Beach sand (Qhb).*
- Qhd / Qhdm — *Dune sand (Qhd). Mobile dune sand indicated (Qhdm).*
- Qha — *Stream alluvium, swamp and marsh deposits (Qha).*
- Qpso — *Older aeolian windblown and dune sand (Qpso).*
- Qptn — *Talus derived from Mesoproterozoic quartzite and sandstone (Qptn).*

? PLEISTOCENE ?

- TQcc — *Poorly bedded to massive, poorly sorted, clast-supported pebble-cobble conglomerate, consisting of disoriented quartzite clasts (~20-200mm) in a sparse siliceous matrix (TQcc).*

~~~~~~~~~~~~ *Unconformity*

MESOPROTEROZOIC

ECTASIAN

ROCKY CAPE GROUP

BALFOUR S.GROUP (INCLUDES INTERVIEW SILTSTONE)

- Prbd — *Dark grey, slaty to relatively massive planar-bedded carbonaceous and/or chloritic siltstone and minor mudstone (Prbd; derived from Corinna 1:50 000 map).*
- Prbp — *Pale to medium grey-green, slaty to relatively massive planar bedded chloritic siltstone and minor mudstone (Prbp; derived from Corinna 1:50 000 and Pieman Heads 1:63 360 sheets; includes Interview Siltstone) (Prbp).*
- Prbpq — *Quartzite beds, interbedded with thinly laminated siltstone and mudstone (Prbpq; derived from Pieman Heads 1:63 360 sheet).*
- Prbps — *Grey siltstone, with thin commonly lenticular graded beds of pale siltstone and sandstone, on scoured bases (Prbps; derived from Corinna 1:50 000 map).*
- Prbq — *Dominantly micaceous quartz sandstone and quartzite, with subordinate siltstone (Prbq).*
- Prbw — *Dominantly thinly ± wavy interlaminated siltstone and fine-grained sandstone (Prbw).*

Prb — *Dominantly wavy cross-laminated siltstone, consisting of alternating thin laminae of pale siliceous and dark carbonaceous laminae, with local chlorite porphyroblasts and subordinate planar laminated grey or green siltstone (Prb).*

- Prl — *Interbedded parallel- to trough cross-bedded orthoquartzite, medium-grained quartz sandstone, minor siltstone and rare quartz-pebble conglomerate and shale (Prl).*
- Prlp — *Some units of dominantly laminated grey to cream siltstone (Prlq). (Prl, Prlp: Lagoon River Quartzite).*

PEDDER RIVER SILTSTONE

- Prprw — *Dominantly thinly (~0.5-2mm) interlaminated dark grey to green-grey siltstone and cream to off-white very fine-grained quartz sandstone (Prpr); moderately wavy to convolute lamination; interbeds (~50-100mm) of quartz sandstone and orthoquartzite locally present; pyrite crystals locally abundant (Prprw).*
- Prprp — *Dominantly planar laminated, locally pyritic, dark grey siltstone; lenses and guttercasts of cream quartz sandstone locally present (Prprp).*
- Prprb — *Dominantly "banded", thickly laminated to thinly interbedded (~5-20mm) dark-medium grey siltstone and cream fine-grained sandstone; lamination and bedding broadly undulose to ± planar (Prprb).*

Prpr

INTRUSIVE ROCKS

NEOPROTEROZOIC

DEVONIAN

- qv — *Quartz veins (qv).*
- Dgasi — *Dominantly medium- to coarse-grained equigranular, biotite-muscovite monzogranite/ syenogranite, with minor cordierite and rare garnet (Dgasi: Interview Granite; S-type).*

CRYOGENIAN

- Pmd — *Dolerite dykes (Pmd).*
- Pmf — *Dolerite dyke - foliated variety (Pmf).*
- Pmq — *Dolerite dyke - quartz-bearing variety (Pmq). (Pmd, Pmf, Pmq: part of Tayatea Dyke Swarm).*

CONTACTS

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

FAULTS

- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*
- *Fault - inferred from radiometric data.*
- *Fault - based on interpretation of aerial photographs.*

LINEARS

- *Axial surface trace of major antiform.*
- *Axial surface trace of major synform.*
- *Lineament - visible on aerial photographs.*
- *Lineament - visible in magnetic data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *Bedding trend line (on Cross Section only).*

- *Strike and dip of bedding, right way up; facing unknown; horizontal.*
- *Strike and dip of cleavage of unspecified type and relative age; vertical.*
- *Strike and dip of cleavage, relative local age S_C, S_D, S_B*
- *Strike of vertical cleavage, relative local age S_C, S_D.*
- *Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified; vertical.*
- *Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface; vergence dextral.*
- *Trend and plunge of hinge line of minor fold, unspecified relative age: antiform; synform.*
- *Trend of horizontal minor fold hinge line, unspecified relative age.*
- *Trend and plunge of minor fold hinge line, relative local age F_D, with dip and dip direction of axial surface; horizontal.*
- *Trend and plunge of kink-fold hinge line, with sense of displacement viewed down-plunge: dextral.*
- *Generalised paleocurrent direction, showing sense of movement.*
- *Trend and plunge of lineation of unspecified type lineation (L_t).*
- *Strike of vertical kink band, movement sense unspecified.*
- *Strike and dip of dominant joint set.*
- *Strike and dip of primary igneous banding or platy alignment, and schlieren in granitic rocks.*
- *Strike and dip of cataclastic foliation; vertical.*
- *Trend of dyke or vein with rock unit indicated; with strike and dip indicated.*
- *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.*

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.

Compiled by J.L. Everard, B.Sc.(Hons); C.J. Jackman, B.Sc.(Hons) and G.V. Cumming, B.Sc.(Hons) 2019 from the following sources (see source diagram):

A G.V. Cumming field mapping 2018-2019.

B C.J. Jackman field mapping 2018-2019.

C J.L. Everard field mapping 2018-2019.

D J.L. Everard field mapping 2003.

E TURNER, N.J., BROWN, A.V., MCCLENAGHAN, M.P. and SOETRISNO, I. 1991. Geological Atlas 1:50 000 series. Sheet 43 (7914N) Corinna. Tasmanian Department of Mines.

F GEE, R.D., GULLINE, A.B., BRAVO, A.P., LEGGE, P.J. and GROVES, D.I. 1969. Geological Atlas 1 mile series. Zone 7 Sheet 42 (7814N) Pieman Heads. Tasmanian Department of Mines.

Updated by:

Bombardieri, D., Duffett, M., Everard, J.L., Cumming, G.V., (2023). Lily-Lagoon 3D model, Geological Survey Explanatory Notes, Report No.: TR35.

REFERENCE THIS MAP AS:

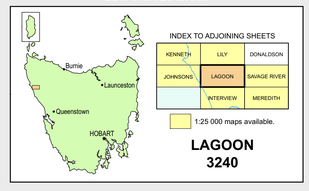
EVERARD, J.L., JACKMAN, C.J. and CUMMING, G.V. (compilers) 2022. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3240 Lagoon. Mineral Resources Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

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

LOCATION DIAGRAM



LAGOON 3240

Map generated: 14-MAR-2024

WARNING: INKS ARE LIGHT SENSITIVE.
~~~~~~~~~~~~