Department of State Growth
MINERAL RESOURCES TASMANIA

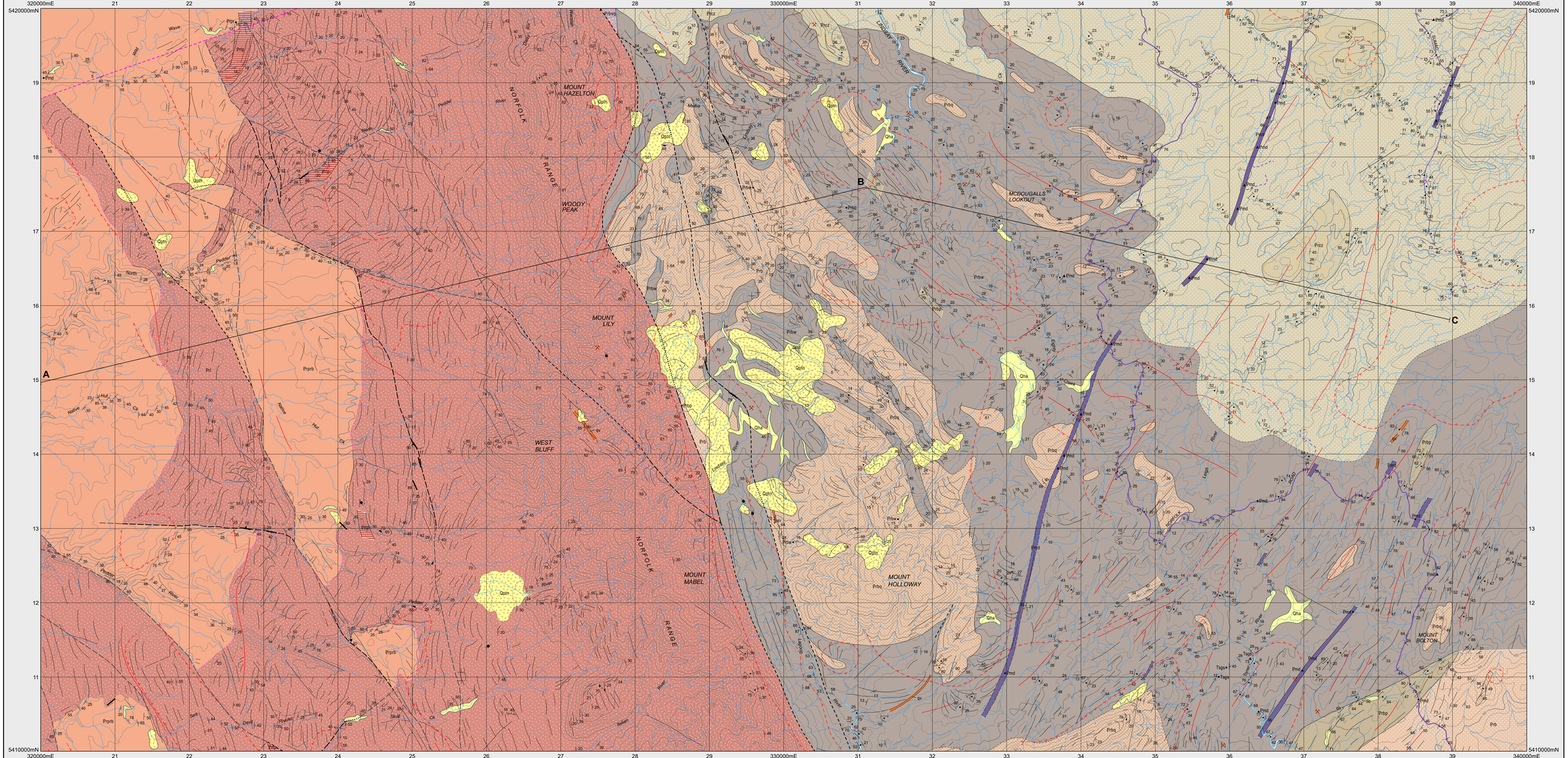
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
LILY, SHEET 3241

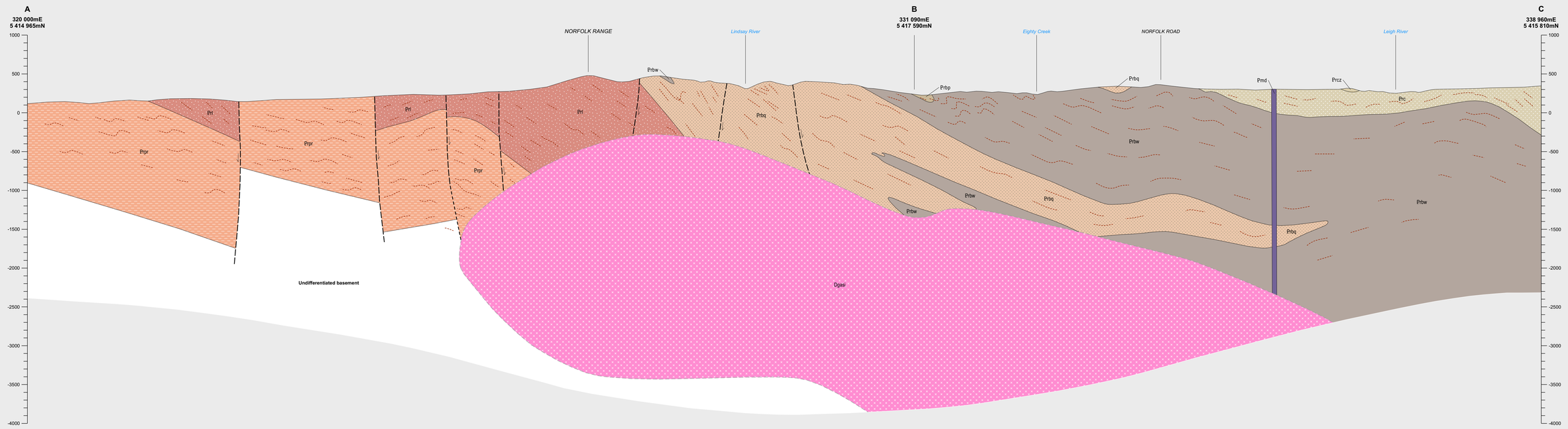
LILY

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government





SECTION V:H = 1:1

CENOZOIC

QUATERNARY — HOLOCENE

- Qha — *Stream alluvium, swamp and marsh deposits (Qha).*
- Qptn — *Talus, derived from Mesoproterozoic quartzite and sandstone (Qptn).*

PLEISTOCENE

- Tsgs — *Interbedded siliceous gravel, quartz sand and clay (Tsgs).*

Unconformity.

MESOPROTEROZOIC

ECTASIAN — ROCKY CAPE GROUP

BALFOUR SUBGROUP

- Prc — *Dominantly planar laminated, commonly carbonaceous and pyritic, black, grey or green siltstone (Prc).*
- Prcz — *Some units of thinly wavy interlaminated siltstone and fine-grained sandstone indicated (Prcz). (Prc, Prcz: correlates of Cowrie Siltstone).*
- Prbw — *Dominantly thinly ± wavy interlaminated siltstone and fine-grained sandstone (Prbw).*
- Prbp — *Dominantly thinly ± planar-laminated or bedded, grey to grey-green chloritic siltstone, with minor mudstone and fine-grained sandstone (Prbp).*
- Prbq — *Dominantly micaceous quartz sandstone and quartzite, with subordinate siltstone (Prbq).*
- Prbsq — *Pale weathering, thickly bedded, medium- to coarse-grained quartzite, interbedded with siltstone and fine-grained sandstone, locally with chlorite porphyroblasts (Prbsq).*

Prb — *Undifferentiated cross-bedded quartzarenite, micaceous quartz sandstone, planar-bedded slaty to relatively massive chloritic siltstone and minor mudstone (Prb).*

LAGOON RIVER QUARTZITE

- Pri — *Interbedded parallel- to trough cross-bedded orthoquartzite, medium-grained quartz sandstone, minor siltstone and rare quartz-pebble conglomerate and shale (Pri).*
- Prip — *Some units of dominantly laminated grey to cream siltstone indicated (Prip).*

REDDER RIVER SILTSTONE

- Prpr — *Dominantly thinly (~0.5-2mm) interlaminated dark grey to green-grey siltstone and cream to off-white very fine-grained quartz sandstone (Prpr).*
- 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).*

INTRUSIVE ROCKS

CRYOGENIAN — DEVONIAN

- qv — *Quartz veins (qv).*
- Dgasi — *Medium- to coarse-grained, generally equigranular, biotite-muscovite-bearing monzogranite/ syenogranite, with minor cordierite and rare garnet (Dgasi: Interview Granite; S-type).*
- Pmd — *Dolerite dykes (Pmd: part of Tayatea Dyke Swarm).*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Geological contact - inferred from radiometric data.*
- *Geological contact - based on interpretation of aerial photograph.*
- *Igneous intrusive contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*
- *Limit of detailed mapping.*
- *Geological contact - inferred from 3D geophysical modelling (on Cross Section only).*

FAULTS

- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*
- *Fault - inferred from radiometric data.*
- *Fault - based on interpretation of aerial photographs.*
- *Thrust fault (teeth on upper plate) - inferred.*

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 bedding.*
- *Strike and dip of cleavage of unspecified type and relative age; vertical.*
- *Strike and dip of cleavage, relative local age S_n: S_2.*
- *Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified; vertical.*
- *Strike and dip of outcrop-scale thrust fault of unspecified relative age.*
- *Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, vergence dextral; vergence sinistral.*
- *Trend and plunge of hinge line of minor fold, unspecified relative age: antiform; synform; horizontal.*
- *Trend and plunge of kink hinge line, sense of displacement unknown; with dip and dip direction of axial surface.*
- *Trend and plunge of minor conjugate fold hinge line, relative age F_2.*
- *Strike and dip of dominant joint set; vertical.*
- *Generalised paleocurrent direction, showing direction of movement.*
- *Trend and plunge of slickensides, movement sense unspecified.*
- *Trend of dyke or vein; with strike and dip indicated. Quartz-tourmaline as vein or small body (qtv).*
- *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 G.V. Cumming, B.Sc.(Hons); J.L. Everard, B.Sc.(Hons) and C.J. Jackman, B.Sc.(Hons) 2022 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 EVERARD, J.L. 1994. Geological reconnaissance map of the Leigh River - Horten River area. Mineral Resources Tasmania Report; UR1994/27.

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:

CUMMING, G.V., EVERARD, J.L. and JACKMAN, C.J. (compilers) 2024. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3241 Lily. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

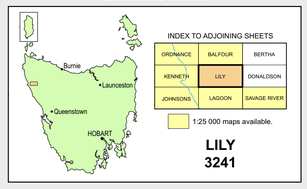
Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

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

While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data. Crown copyright reserved.

LOCATION DIAGRAM



Map generated: 14-MAR-2024

WARNING: INKS ARE LIGHT SENSITIVE.