Department of State Growth
MINERAL RESOURCES TASMANIA

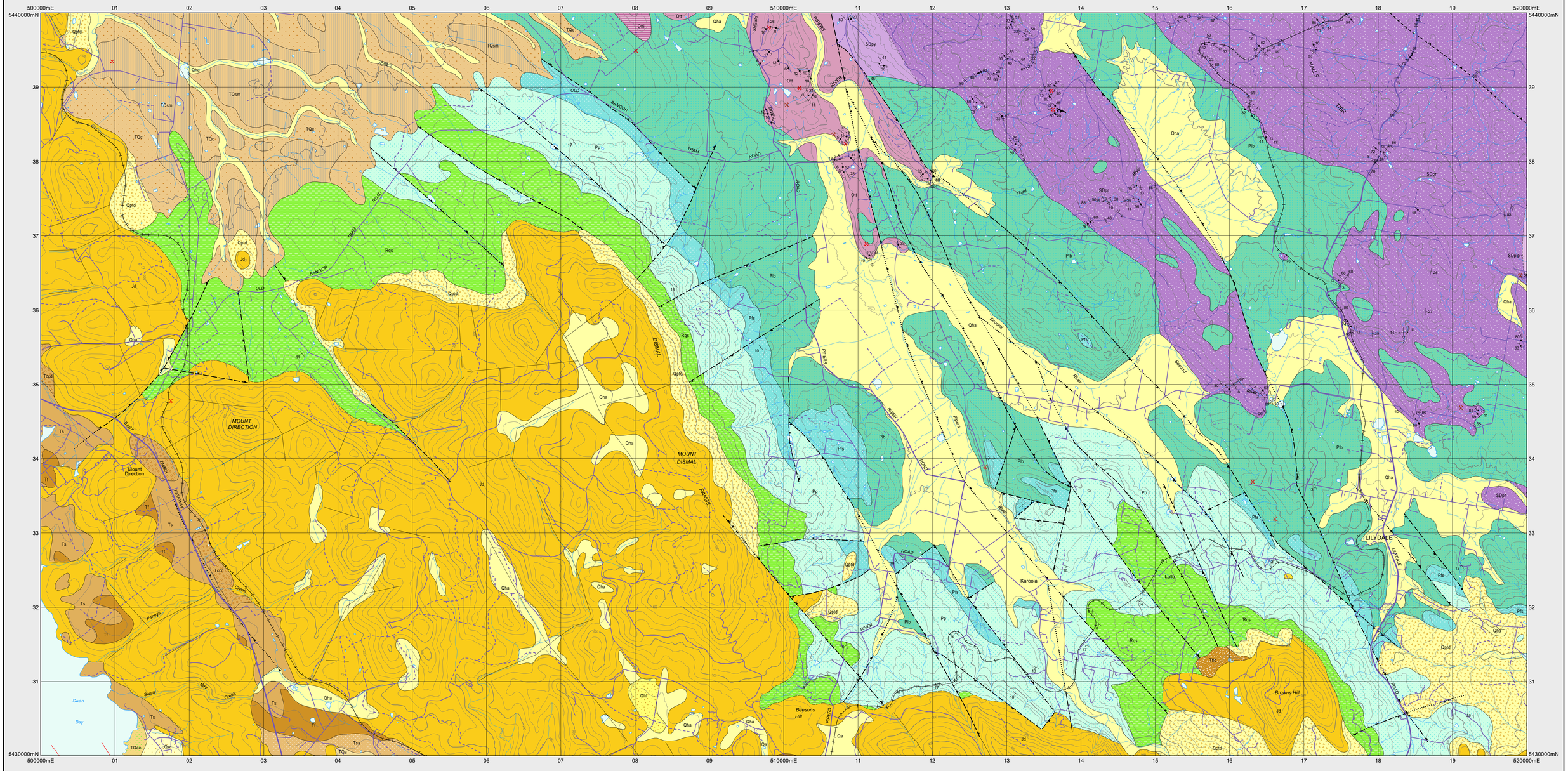
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
LILYDALE, SHEET 5043

LILYDALE

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

- **Qha** — *Undifferentiated Cenozoic sediments (TQ). Stream alluvium, swamp and marsh deposits (Qha).*
- **Qa** — *Alluvial gravel, sand and clay (Qa).*
- **Qw** — *Aeolian deposits and locally derived sand (Qw).*
- **Qptd** — *Dolerite talus (Qptd).*
- **Qhf** — *Ferricrete lag deposit (Qhf).*
- **TQae** — *Late Cenozoic terrace deposits of uncertain composition, generally <5m extending to approximately 15m above sea or river level, gravel layers above sea level (TQae).*
- **TQa** — *Late Cenozoic terrace deposits of siliceous pebble, gravel and sand, cemented by iron oxides in places (TQa).*
- **TQc** — *Silt and clay with occasional pebbles (TQc).*
- **TQgf** — *Ferruginous, pisolitic gravel with ironstone blocks (TQgf).*
- **TQsm** — *Medium-grained sand (TQsm).*

PALEOGENE - NEOGENE ?

- **Tb, Tf, Ts, Tsa, Tccd** — *Conglomerate, gravel, sand, silt, mud and clay (Ts); basaltic rock (Tb); ferricrete (Tf); poorly consolidated clay, silt and clayey labile sand with rare gravel and lignite, some iron oxide-cemented layers and concretions, and some leaf fossils (Tsa); dolerite boulder bed (Tccd).*
- **Tfld** — *Laterite derived from Jurassic Dolerite (Tfld).*

Unconformity.

PALEOZOIC

MESOZOIC ?

PERMIAN - TRIASSIC ? — PARMENER SUPERGROUP

- **Rqs** — *Cross-bedded quartz sandstone, feldspathic sandstone and shale (Rqs).*
- **Pp** — *Sandstone, siltstone and mudstone with marine fossils abundant in places (Pp).*
- **Pfs** — *Dominantly well-sorted quartz sandstone usually cross-bedded or laminated and commonly with interbedded and laminated carbonaceous shale, lesser conglomerate and rare coal (Pfs).*
- **Plb** — *Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Plb).*

Unconformity.

SILURIAN — PANAMA GROUP — MATHINNA SUPERGROUP

LUDLOW

- **SDplp** — *Basal moderately bioturbated deep marine siltstone with significant shale and mudstone. Contains Silurian (Ludlow) graptolites (Distinguished in some areas but not distinguished in metamorphosed areas) (SDplp).*
- **SDpr** — *Interbedded turbiditic medium- to very fine-grained quartz-rich sandstone and subordinate siltstone-mudstone (Retreat Formation) (SDpr).*
- **SDpy** — *Dominantly thin-bedded mudstone, with subordinate cross-laminated siltstone (Yarrow Creek Mudstone) (SDpy).*

Inferred fault.

ORDOVICIAN — TIPPOGOREE GROUP

- **Ott, Ottl** — *Dominantly dark grey phyllitic slate, with minor thin beds of quartz-rich siltstone. Contains Ordovician graptolites (Turquoise Bluff Slate) (Ott).*
  Interbedded phyllitic slate and foliated very fine-grained quartz-rich sandstone (Industry Road Member) (Ottl).

IGNEOUS ROCKS

MESOZOIC CENOZOIC

- PALEOGENE - NEOGENE — **Tb** — *Basalt (Tb).*
- JURASSIC — **Jd** — *Dolerite (Jd).*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Unconformable lithological contact.*
- *Igneous intrusive contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

FAULTS

- *Fault.*
- *Fault - concealed.*
- *Normal fault (downthrown side indicated).*
- *Normal fault (downthrown side indicated) - concealed.*
- *Thrust fault (teeth on upper plate) - inferred.*

LINEARS

- *Lineament - visible on aerial photographs.*
- *Lineament - visible in magnetic data.*

- *Strike and dip of bedding: facing known; overturned; facing unknown; vertical, facing unknown.*
- *Generalised palaeocurrent direction, showing sense of movement; polarity unspecified.*
- *Strike and dip of cleavage; type and relative age unspecified; penetrative cleavage; crenulation cleavage.*
- *Trend and plunge of hinge line of reclined minor fold, unspecified relative age, vergence sinistral.*
- *Trend and plunge of minor fold hinge line, relative local age F_L: antiform; synform.*
- *Trend and plunge of bedding/primary cleavage intersection lineation (L_I).*
- *Trend and plunge of minor fold hinge line, relative local age F_X: with dip and dip direction of axial surface.*
- *Strike and dip of outcrop-scale thrust fault of unspecified relative age.*
- *Trend and plunge of slickensides, movement sense unspecified.*
- *Strike and dip of dominant joint set.*
- *Field station for adjacent readings on the map.*
- *Mineral deposit location - hardrock.*
- *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.

Compiled by M.P. McClenaghan, B.Sc.(Hons), Ph.D. 1996 from the following sources (see source diagram):

A MARSHALL, B., BARTON, C.M., JENNINGS, D.J. and NAQVI, I.H. 1965. Geological Atlas 1:63 360 Series. Sheet 31 (8315N), Pipers River. Tasmania Department of Mines.

B LONGMAN, M.J., MATTHEWS, W.L. and ROWE, S.M. 1964. Geological Atlas 1:63 360 Series. Sheet 39 (8315S), Launceston. Tasmania Department of Mines.

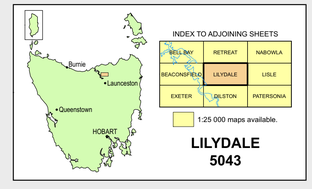
Updated by:

C D.B. Seymour 2008-2009: Stratigraphic revision and re-mapping of Mathinna Supergroup supported by interpretation of airborne geophysical data, as part of the TasExplore Project, Mineral Resources Tasmania.

D D.B. Seymour 2008-2009: Stratigraphic revision of Mathinna Supergroup, as part of the TasExplore Project, Mineral Resources Tasmania.

E SEYMOUR, D.B.; WOOLWARD, I.R.; McCLENAGHAN, M.P.; BOTTRILL, R.S. 2011. Stratigraphic revision and re-mapping of the Mathinna Supergroup between the River Tamar and the Scottsdale Batholith, northeast Tasmania. 1:25 000 Digital Geological Map Series. Explanatory Report 4.

LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

BELL BAY	RETREAT	NABOWLA
BEACONSFIELD	LILYDALE	LISLE
EXETER	DELTON	PATERSONIA

1:25 000 maps available.

LILYDALE 5043

REFERENCE THIS MAP AS:

McCLENAGHAN, M.P.,SEYMOUR, D.B., FORSYTH, S.M. and CALVER, C.R. (compilers) 2010. Digital Geological Atlas 1:25 000 Scale Series. Sheet 5043 Lilydale. 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.

Map generated: 21-MAR-2024

WARNING: INKS ARE LIGHT SENSITIVE.