Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

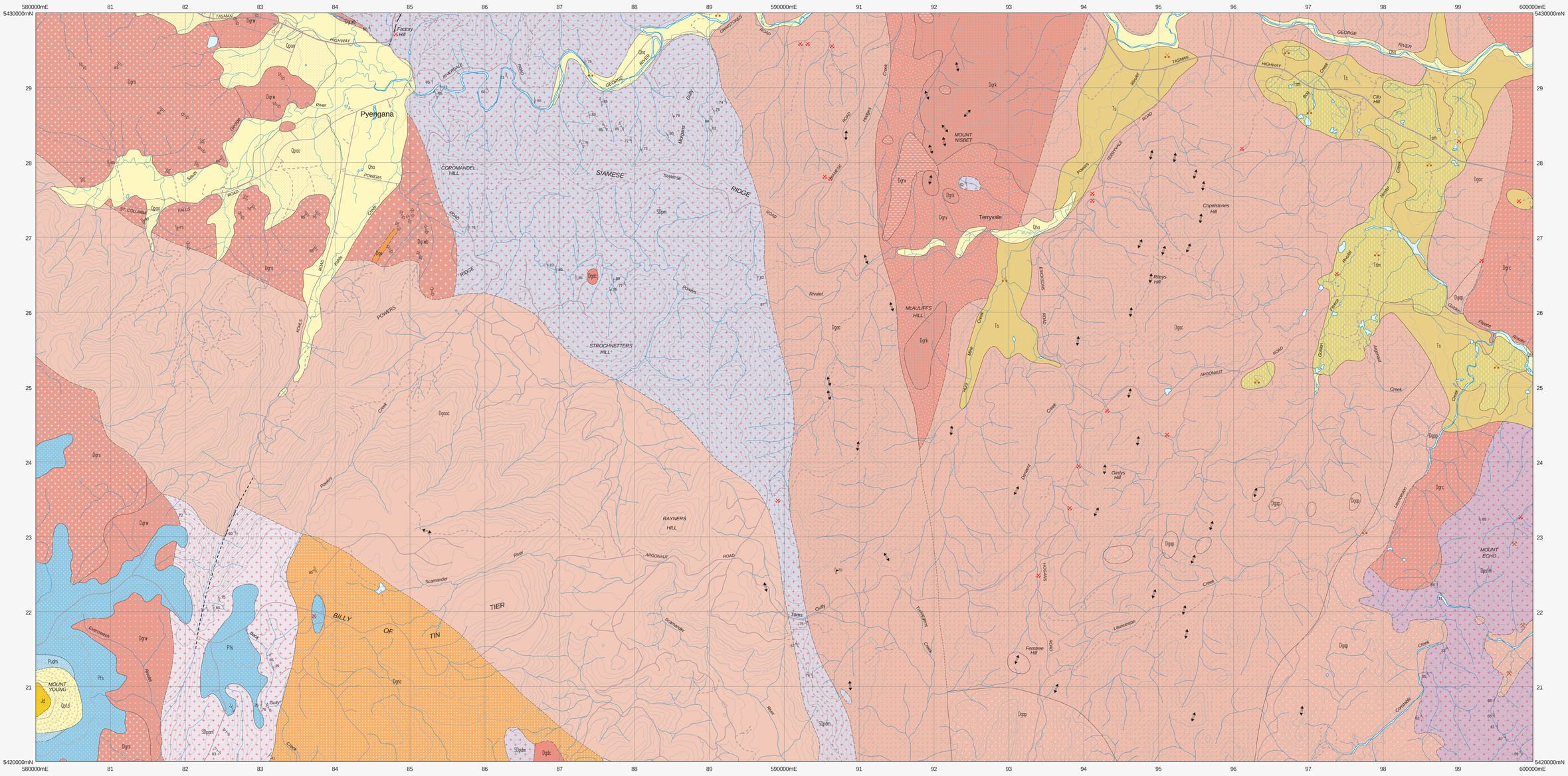
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
PYENGANA, SHEET 5842

PYENGANA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmania
Explore the possibilities



CENOZOIC

QUATERNARY

- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qpao** — *Older alluvium of river terraces (Qpao).*
- **Qptd** — *Talus consisting dominantly of dolerite boulders (Qptd).*

PALEOGENE – NEOGENE

- **Tsm** — *Gravel, sand, silt, mud and clay disturbed by mining (Tsm).*
- **Ts** — *Gravel, sand, silt, mud and clay (Ts).*

Unconformity

PALEOZOIC

PERMIAN

LOWER PARMENIER SUPERGROUP

- **Pudm** — *Mudstone siltstone and poorly sorted sandstone. Uncommon marine fossils (Pudm).*
- **Pfs** — *Dominantly well sorted quartz sandstone, usually cross-bedded and commonly with interbedded and interlaminated carbonaceous shale lesser conglomerate and rare coal (Pfs).*

Unconformity

SILURIAN(?) – DEVONIAN

LUDLOW(?) – EARLY DEVONIAN

MATHINNA SUPERGROUP

- **Dpsfm** — *Contact-metamorphosed turbidite succession dominated by quartz-rich sandstones with minor siltstone and mudstone. Current related sedimentary structures abundant. Contains Devonian marine macrofossils, graptolites and vascular plant fossils. (Dpsfm: Scamander Formation).*
- **SDpm** — *Quartzwacke turbidite, sandstone dominant, contact metamorphosed by granitic intrusion undifferentiated Panama Group (SDpm).*
- **SDpdm** — *Undifferentiated Upper Panama Group sandstone, siltstone, and mudstone, primarily turbidific in origin. Contains late Silurian (late Ludlow) graptolites. Metamorphosed by granitoid intrusion (SDpdm). Turbidite succession of fine-grained sandstone and cleaved siltstone, contact metamorphosed by granitic intrusion (SDpdm). (SDpm, SDpdm, SDpdm: Panama Group).*

IGNEOUS ROCKS

MESOZOIC

JURASSIC

- **Jd** — *Dolerite (Jd).*

PALEOZOIC

DEVONIAN

MINOR GRANITIC INTRUSIONS

- **Dge** — *Aplitic granite (Dge).*

BLUE TIER BATHOLITH

MIDDLE DEVONIAN

- **Dgoac** — *Coarse-grained porphyritic (K-feldspar) to equigranular, biotite-minor muscovite monzogranite (Dgoac – Poimena Granite, I-type).*
- **Dgnc** — *Coarse-grained, equigranular to porphyritic (K-feldspar) biotite +/- hornblende monzogranite/granodiorite (Dgnc – Halkys New Country Granodiorite; I-type).*
- **Dgrv** — *Coarse- to fine-grained, variably porphyritic biotite-hornblende granodiorite (Dgrv).*
- **Dgrx** — *Coarse- to fine-grained, variably porphyritic biotite-hornblende granodiorite, with very abundant Mathinna Supergroup xenoliths (Dgrx).*
- **Dgrk** — *Coarse- to fine-grained biotite granodiorite with very abundant large K-feldspar phenocrysts, and minor or no hornblende (Dgrk). (Dgrv, Dgrx, Dgrk – Scamander Tier Granodiorite; I-type).*
- **Dgac** — *Coarse-grained, porphyritic to seriate to equigranular biotite-minor muscovite monzogranite (Dgac – main phase of Mt Pearson Granite; I-type).*
- **Dgap** — *Generally pink, coarse-grained porphyritic to seriate to equigranular biotite-minor muscovite syenogranite/alkali feldspar granite, with abundant minor intrusions of fine-grained pink biotite granite (Dgap – Constables Creek phase of Mt Pearson Granite; I-type).*

LOWER DEVONIAN

- **Dgrc** — *Coarse-grained, sparsely porphyritic biotite-hornblende granodiorite (Dgrc – George River Granodiorite; I-type).*
- **Dgrm** — *Coarse-grained monzodiorite to monzonite (Dgrm – "Priory Monzonite", abilised George River Granodiorite).*
- **Dgrs** — *Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong grain foliation. Variable but usually strongly magnetic (susceptibility typically .002 to .008 SI) (Dgrs).*
- **Dgrw** — *Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong grain foliation. Weakly magnetic (susceptibility < .0005 SI) (Dgrw).*
- **Dgrwb** — *Medium- to coarse-grained equigranular to rarely porphyritic (K-feldspar) biotite granodiorite weakly magnetic (susceptibility <.0005 SI) (Dgrwb). (Dgrs, Dgrw, Dgwb – Pyengana Granodiorite; I-type).*
- **Dgdc** — *Coarse-grained diorite, consisting of amphibole, biotite +/- plagioclase +/- clinopyroxene +/- orthopyroxene +/- olivine or quartz, occurring with SDpdm as possible rafts in Dgnc (Dgdc – Hogans Road Diorite).*

- *Geological boundary – position approximate.*
- *Geological boundary – position inferred.*
- *Unconformable boundary – position accurate or approximate.*
- *Intrusive boundary – position accurate or approximate*
- *Fault – position approximate.*
- *Fault – position inferred.*

- *Strike and dip of bedding – right way up; overturned; facing unknown.*
- *Generalised palaeocurrent direction, showing sense of movement.*
- *Strike and dip of cleavage – relative local age S1 vertical.*
- *Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock.*
- *Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.*
- *Strike and dip of foliation due to alignment of hornblende and/or biotite in granitic rock; vertical.*
- *Trend of preferred orientation of hornblende and/or biotite in granitic rock.*
- *Field station for adjacent readings on the map.*
- *Mineral deposit location – alluvial/tailings*
- *Construction material/industrial mineral/gemstone location*

Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

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

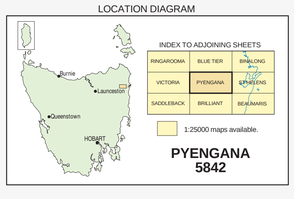
A McCLENAGHAN, M.P., TURNER, N.J. and WILLIAMS, P.R. 1987. Geological Atlas 1:50 000 Series. Sheet 41 (8515S) St. Helens.

B McCLENAGHAN, M.P., EVERARD, J.L.E., GOSCOMBE, B.D., FINDLAY, R.H. and CALVER, C.R. 1993. Geological Atlas 1:50 000 Series. Sheet 40 (8415S) Alberton.

RESPONSIBILITY DIAGRAM

B	A

LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

RINGAROOMA	BLUE TIER	BINALONG BAY
VICTORIA	PYENGANA	ST HELENS
SADDLEBACK	BRILLIANT	BEAUMARIS

1:25000 maps available.

PYENGANA
5842

REFERENCE THIS MAP AS:

McCLENAGHAN, M.P. 1996 (compiler). Digital Geological Atlas 1:25 000 Scale Series. Sheet 5842 Pyengana. 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.

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