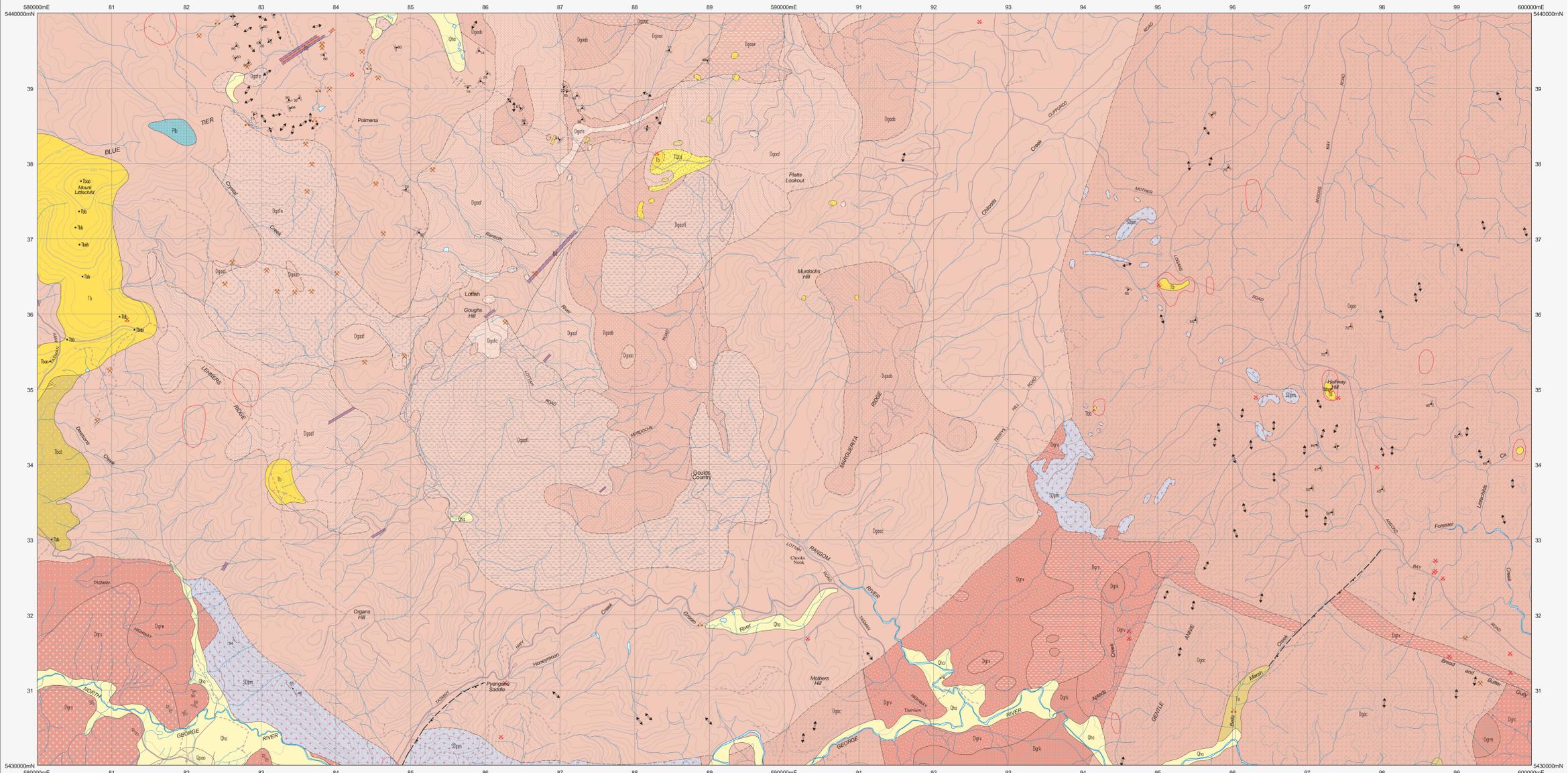


BLUE TIER

Scale: 1:25 000



CEANOZOIC	QUATERNARY
Qha	Stream alluvium, swamp and marsh deposits (Qha).
Qpac	Older alluvium of river terraces (Qpac).
T0a-d	Probably older, possible lag deposits, consisting dominantly of Jurassic dolerite boulders (T0a-d).
Ta	Gravel, sand, silt, mud and clay (Ta), where disturbed by mining (Tan). Basalt (Tb). Gray-bdy and siltstone (Tfg).
Tb	
Tfg	
PALEOZOIC	PERMIAN
Pb	Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Pb) (Lower Permian Supergroup).
30m	Unconformity
30m	Quartzite turbidite, sandstone dominant, contact metamorphosed by granitic intrusion undifferentiated Ferras Group (30m).
PALEOZOIC	DEVONIAN
NEOGENE	DEVONIAN
Tb	Basalt (Tb); alkali olivine basalt (Tba), basaltite (Tbb), basaltite with perovskite xenoliths (Tbc), nepheline trachyte (Tbd).
Tba	
Tbb	
Tbc	
Tbd	Agglomerate and tuff (Tba).
PALEOZOIC	DEVONIAN
Dd	Dolerite dykes (Dd).

MINOR GRANITIC INTRUSIONS	
Dgf	Quartz-feldspar porphyry (Dgf).
BLUE TIER BATHOLITH	
Dgaf	Fine- to coarse-grained equigranular biotite-muscovite alkali feldspar granite (Dgaf).
Dgafc	Fine- to coarse-grained equigranular alkali feldspar granite, with large brown mica aggregates and pegmatite patches (Dgafc).
DgafL	Fine-grained, variably porphyritic (feldspar), leucocratic muscovite-rich monzonite (DgafL) (granite variety of Palmyra Granite).
Dgafm	Coarse-grained equigranular biotite monzonite (Dgafm).
Dgab	Medium-grained porphyritic (K-feldspar-plagioclase-quartz) biotite-minor muscovite syenogranite/monzonite (Dgab).
Dgaol	Fine- to medium-grained porphyritic (feldspar), relatively melanocratic biotite-muscovite syenogranite/monzonite (Dgaol).
Dgac	Coarse-grained, porphyritic to equigranular biotite-minor muscovite monzonite (Dgac) (Mt Pearson Granite, l-type).
Dgvr	Coarse- to fine-grained, variably porphyritic hornblende granodiorite (Dgvr).
Dgrx	Coarse- to fine-grained, variably porphyritic hornblende granodiorite, with very abundant Mathinna Supergroup xenoliths (Dgrx).
Dgrk	Coarse- to fine-grained, porphyritic (very abundant large K-feldspar phenocrysts) granodiorite, with minor or no hornblende (Dgrk) (Dgrv, Dgrx, Dgrk - Scamander Tier Granodiorite, l-type).
Dgafte	Fine-grained equigranular biotite-muscovite granite (Dgafte).
Dgac	Coarse-grained, porphyritic to variate to equigranular biotite-minor muscovite monzonite (Dgac) (Mt Pearson Granite, l-type).
Dgrc	Coarse-grained, sparsely porphyritic biotite-hornblende granodiorite (Dgrc) (George River Granodiorite, l-type).
Dgrm	Coarse-grained monzonite/monzonite (Dgrm) ('Priory Monzonite', altered variant of George River Granodiorite).

PALEOZOIC	DEVONIAN	LOWER DEVONIAN
Dgrv	Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong grain foliation. Heavily magnetic (susceptibility < 0.0025 SI) (Dgrv).	
Dgrw	Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong grain foliation. Heavily magnetic (susceptibility < 0.0025 SI) (Dgrw).	
Dgrwb	Medium- to coarse-grained equigranular to rarely porphyritic (K-feldspar) biotite granodiorite, weakly magnetic (susceptibility < 0.0025 SI) (Dgrwb).	
	(Dgrv, Dgrw, Dgrwb - Pyengana Granodiorite, l-type).	

—	Geological boundary - position approximate.
- - -	Geological boundary - inferred.
- . - . -	Unconformable boundary - position approximate.
- - - - -	Intrusive boundary - position approximate.
- - - - -	Fault - position approximate.
- - - - -	Normal fault - position approximate.
- - - - -	Lineament visible in airborne magnetic data, defining 'dolerite' magnetic sources which may be Palaeogene-Neogene basalt dykes.
(White line)	Limit of mapping of sub-unit within undifferentiated rock unit.

↖	Strike and dip of bedding - facing unknown.
↘	Strike and dip of cleavage of unspaced type and relative age.
X	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.
⊙	Trend of preferred orientation of hornblende and/or biotite in granitic rock.
⊙	Notable small outcrop with rock unit indicated.
⊙	Field station for adjacent readings on the map.
⊙	Mineral deposit location - hardrock.
⊙	Mineral deposit location - alluvial/tailings.
⊙	Construction material/industrial mineral/gemstone location.

Compiled by M.P. McLennaghan, B.Sc. (Hons), Ph.D., 1966 from the following sources (see responsibility diagram):

A. BROWN, A.V. et al., 1977. Geological atlas 1:50 000 series, sheet 32 (B415K) (Geoscience Department of Mines, Tasmania).

B. MCLENNAGHAN, M.P., WILLIAMS, P.R. 1983. Geological atlas 1:50 000 series, sheet 33 (B515K) Blue Tier. Department of Mines, Tasmania.

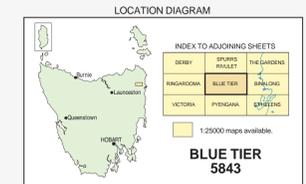
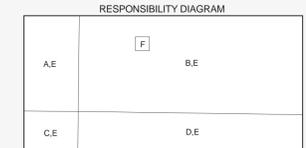
C. MCLENNAGHAN, M.P., EVERARD, J.L., GROCUMBER, B.D., FINLAY, B.M., CALVER, C.R. 1993. Geological Atlas 1:50 000 series, sheet 40 (B415S) (Alberton Department of Mines, Tasmania).

D. MCLENNAGHAN, M.P., TURNER, N.J. and WILLIAMS, P.R. 1987. Geological Atlas 1:50 000 series, sheet 41 (B515S) St Helens. Department of Mines, Tasmania.

Updated by:

E. M.P. McLennaghan 2008-09. Interpretation of airborne magnetic data particularly targeting 'dolerite' anomalies considered likely to be Palaeogene - Neogene Tertiary basalt dykes together with ground checking and mapping of small areas of basalt in some instances, as part of the Tallapoona Project.

F. J.L. Everard, field reconnaissance 2010.



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McLENNAGHAN, M.P. 2010 (compiler). Digital Geological Atlas 1:25 000 Scale Series, Sheet 5843 Blue Tier. Mineral Resources Tasmania.

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GDA84 - MGA Zone 55. Contour Interval: 20 metres.

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