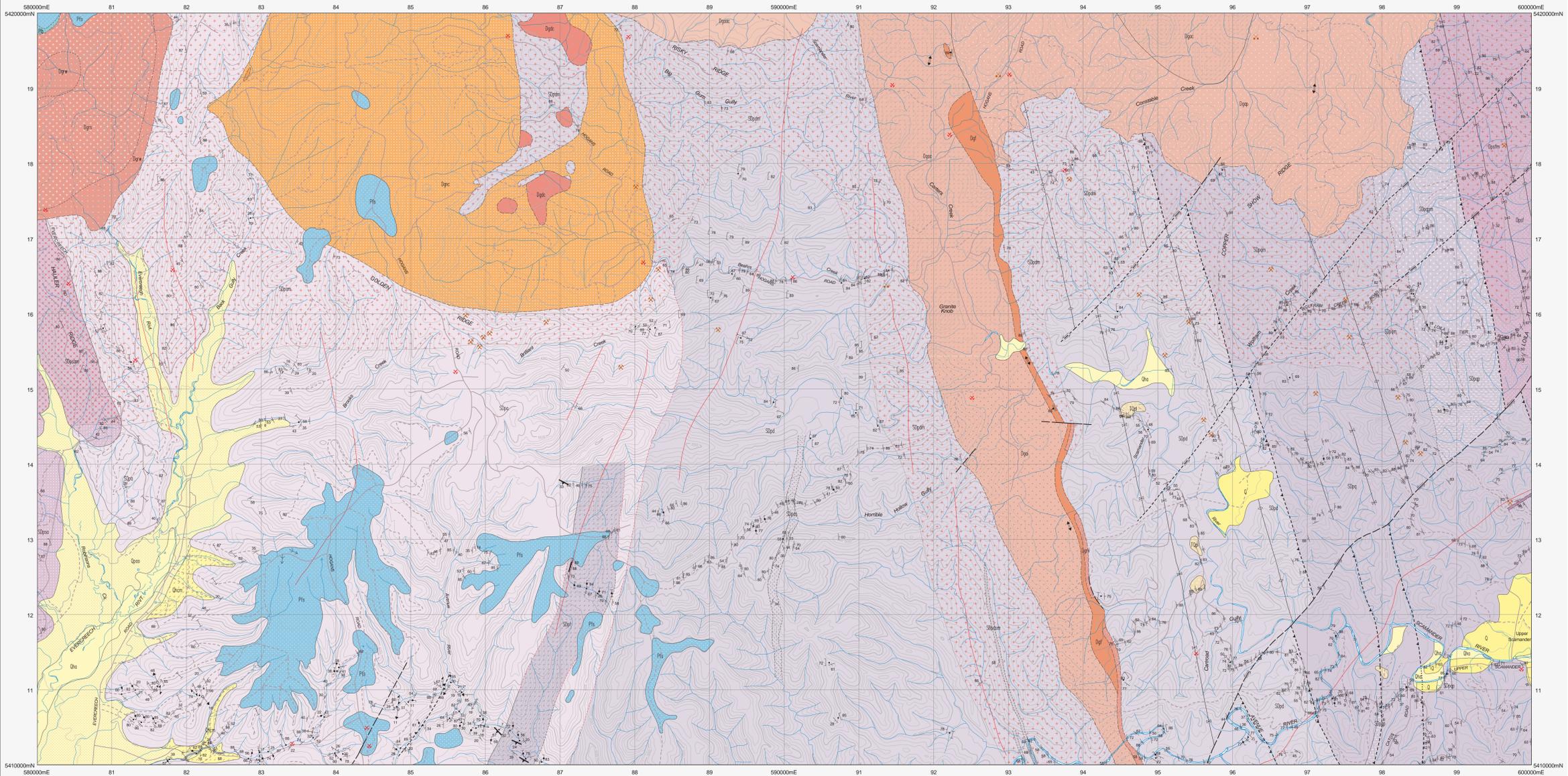
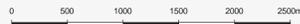


BRILLIANT

Scale: 1:25 000

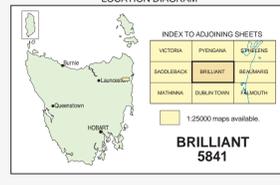
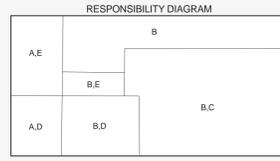


CENOZOIC	QUATERNARY	
	PLAISTOCENE - HOLOCENE	DEPOSIT
	Dho	Stream alluvium, swamp and marsh deposits (Dho).
	Dhcm	Colluvium, derived from Mathinna Supergroup (Dhcm).
	Qpas	Older alluvium of river terraces (Qpas).
	TQpl	Gravel, sand and derived lag (TQpl).
	Unconformity.	
FERMIAN	LOWER PARANERUP SUPERGROUP	
	DEPOSIT	DESCRIPTION
	Pfs	Dominantly well-sorted quartz sandstone, usually cross-bedded and commonly with interbedded and interlaminated carbonaceous shale, lesser conglomerate and rare coal (Pfs).
	Pfb	Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Pfb).
	Unconformity.	
PALEOZOIC	MATHINNA SUPERGROUP	
	DEPOSIT	DESCRIPTION
	Dpsf	Undifferentiated Upper Panama Group sandstone, siltstone, and mudstone, primarily turbidite in origin. Contains granitoid fossils of Ludlow type (Dpsf).
	Dpsfm	Metamorphosed by granitoid intrusion (Dpsfm). Dominantly medium- to fine-grained turbidite quartz-rich sandstone with some interbedded siltstone. Rare vascular plant fossils (possible correlative of Seelings Sandstone) (Dpsfm). Metamorphosed by granitoid intrusion (Dpsfm).
	Dpsm	Turbidite succession dominated by quartz-rich sandstone with minor siltstone and mudstone. Current related sedimentary structures absent. Contains Devonian marine macrofossils, graptolites and vascular plant fossils (Dpsm). Metamorphosed by granitoid intrusion (Dpsm). (Dpsm, Dpsfm, Scamander Granodiorite).
	Dpsq	Turbidite succession dominated by quartz-rich sandstone with interbedded massive grey mudstone which locally gradational. Current related sedimentary structures common. No fossils recorded (Dpsq). Metamorphosed by granitoid intrusion (Dpsq).
	Dpsr	Mappable mudstone within S2pa (Dpsr). Metamorphosed by granitoid intrusion (Dpsr).
	Dpsd	Turbidite succession of fine-grained sandstone and cleared siltstone. Subordinate very thick bedded massive sandstone increases toward west. Current related sedimentary structures common. No fossils recorded (Dpsd). Metamorphosed by granitoid intrusion (Dpsd). Massive sandstone unit within S2pa (Dpsd). Metamorphosed by granitoid intrusion (Dpsd).
	Dpsl	Dominantly foliated grey siltstone, with slate and rare fine-grained sandstone (Dpsl).

IGNEOUS ROCKS	
Dd	Diorite dykes (Dd).
MINOR GRANITIC INTRUSIONS	
Dgm	Fine-grained quartz monzonite (Dgm).
Dgp	Quartz-feldspar porphyry (Dgp).
BLUETIER BATHOLITH	
Dgac	Coarse-grained, porphyritic (K-feldspar) to equigranular biotite-mior muscovite monzonite (Dgac).
Dgic	Coarse-grained, equigranular to porphyritic (K-feldspar) biotite +/- hornblende, monzonitic/granodiorite (Dgic).
Dgv	Coarse- to fine-grained, variably porphyritic biotite-hornblende granodiorite (Dgv) (Scamander 'In' Granodiorite, l-type).
Dgca	Coarse-grained, porphyritic to seriate to equigranular biotite-mior muscovite monzonite (Dgca).
Dgcl	Coarse-grained, porphyritic to seriate to equigranular biotite-mior muscovite monzonite, with numerous intrusions of fine- to medium-grained pink granite (Dgcl).
Dgcp	Generally fine coarse-grained porphyritic to seriate to equigranular biotite-mior muscovite syenogranite/alkali feldspar granite, with abundant minor intrusions of fine-grained pink granite (Dgcp) (Constance Creek phase of Mt Pearson Granite, l-type).
Dgva	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) (Dgva).
Dgvr	Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong grain foliation. Weakly magnetic (susceptibility < 0.002 SI) (Dgvr).
Dgvs	Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong grain foliation. Weakly magnetic (susceptibility < 0.002 SI) (Dgvs).
Dgdc	Coarse-grained diorite, consisting of amphibole, biotite +/- plagioclase +/- clinopyroxene +/- orthopyroxene +/- olivine or quartz, occurring with S2pa as possible rite in Dgm (Dgdc) (Froggy Road Diorite).

—	Geological boundary - position approximate.
- - - - -	Geological boundary - position inferred.
- · - · - · -	Geological boundary - inferred from airborne magnetic and/or radiometric data.
- · - · - · - · - · - · -	Unconformable boundary - position accurate or approximate.
- · - · - · - · - · - · - · - · -	Intrusive boundary - position accurate or approximate.
- · - · - · - · - · - · - · - · - · - · - · -	Metamorphic boundary - position approximate.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.
- - - - -	Linemant visible in airborne magnetic data.
- · - · - · -	Fault - concealed.
- · - · - · -	Thrust fault (teeth on upper plate) - inferred.
- · - · - · -	Strike-slip fault (sinistral) - position accurate or approximate.
- · - · - · -	Strike-slip fault (sinistral) - inferred.
○	Axial surface trace of major F1 anticline.
—	Axial surface trace of major F1 syncline.
↗ ↘	Strike and dip of bedding - right way up, vertical, facing indicated by single tic; overturned, facing unknown, vertical.
↗ ↘	Strike and dip of cleavage of unspecified type and relative age vertical.
↗ ↘	Strike and dip of cleavage - relative local age St. S2.
↗ ↘	Strike and dip of penetrative cleavage, vertical.
↗ ↘	Trend and plunge of lineation L2 formed by intersection of cleavages or foliations of relative local age S1 and S2.
↗ ↘	Trend and plunge of minor fold hinge line with dip and dip direction of axial surface - relative local age F1.
↗ ↘	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, symmetrical with dip and dip direction of axial surface.
↗ ↘	Trend and plunge of minor fold hinge line with dip and dip direction of axial surface - chosen.
↗ ↘	Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface; antiform; with dip and dip direction of axial surface.
↗ ↘	Strike and dip of outcrop - scale fault of unspecified relative age - thrust; type unspecified.
↗ ↘	Generalised paleocurrent direction, showing sense of movement.
↗ ↘	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.
↗ ↘	Mineral deposit location - barrock
↗ ↘	Mineral deposit location - alluvial/talings

Compiled by M.P. McLennaghan, B.Sc. (Hons), Ph.D. 2004 from the following sources (see responsibility diagram):
A MCLENNAGHAN, M.P., EVERARD, J.L.E., GOSCOMBE, B.D., FINDLAY, R.H. and CALVER, C.R. 1983. Geological Atlas 1:50 000 Series, Sheet 41 (8415), Australia.
B MCLENNAGHAN, M.P., TURNER, N.J. and WILLIAMS, P.R. 1987. Geological Atlas 1:50 000 Series, Sheet 41 (8515), St. Helens.
 Updated by:
C M. Woolward 2008 - 2010. Stratigraphic revision and re-mapping of Mathinna Supergroup, supported by airborne geophysical data, as part of the Trawlcatcher Project, Mineral Resources Tasmania.
D I. Woodward 2008 - 2010. Stratigraphic revision and re-mapping of Mathinna Supergroup, supported by airborne geophysical data, as part of the Trawlcatcher Project, Mineral Resources Tasmania.
E I. Woodward 2008 - 2010. Minor modifications to previous mapping, supported by airborne geophysical data.



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 WORTHING, M.A. and WOOLWARD, I.R. (compilers) 2010. Digital Geological Atlas 1:25 000 Series, Sheet 5841 Brilliant, Mineral Resources Tasmania.
 Base data from the LIST, Copyright State of Tasmania.
 Map produced by Spatial Information Services, Mineral Resources Tasmania using G.I.S. software.
 Website: www.mrt.tas.gov.au
 GD84 - MGA Zone 55, Contour Interval: 20 metres.



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