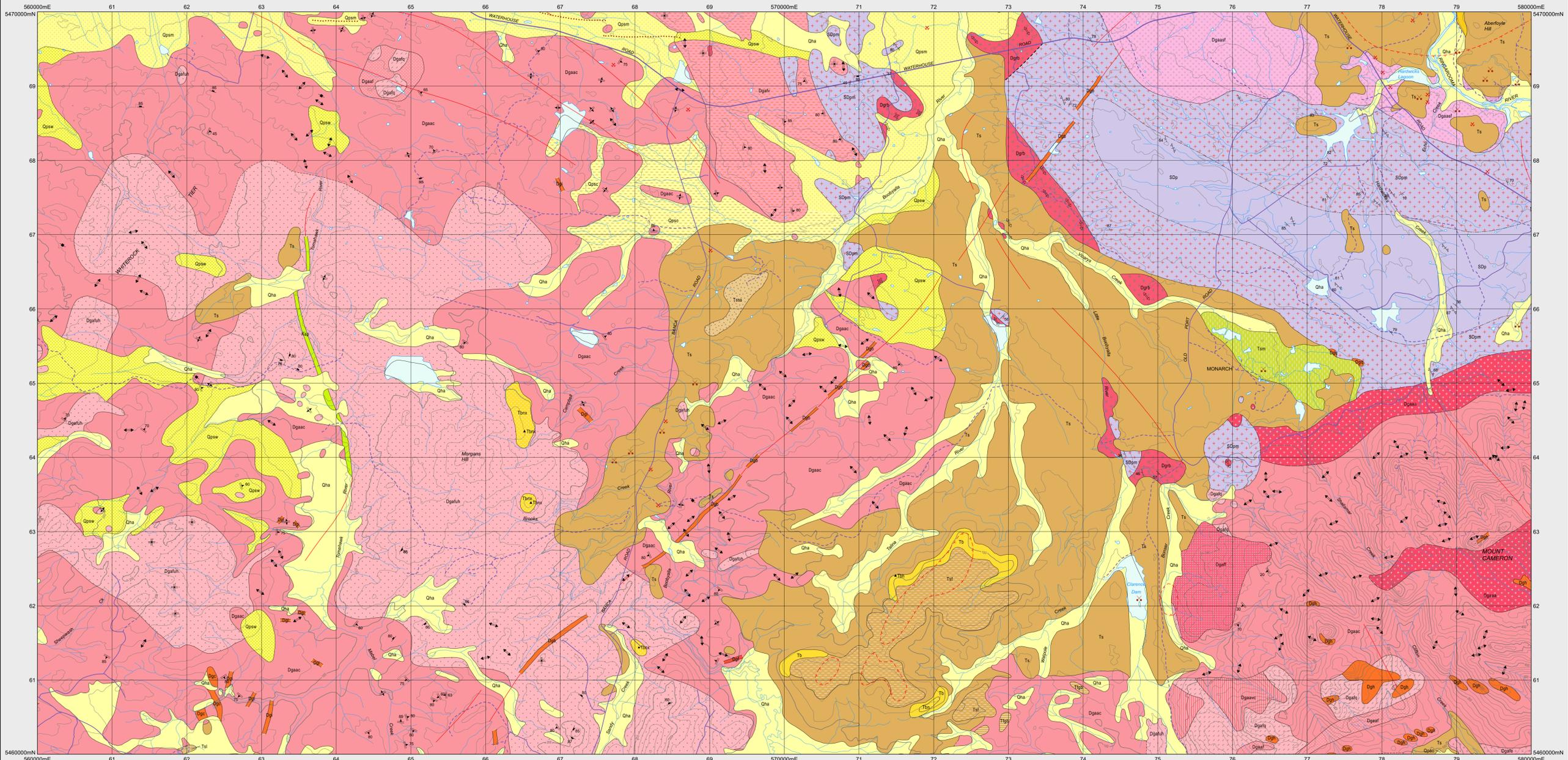


MONARCH

Scale 1:25 000

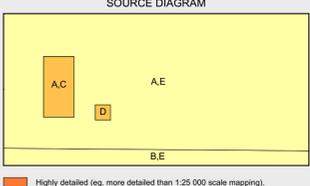


PERIOD	UNIT	DESCRIPTION
CENOZOIC QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).
	Qpao	Older alluvium of river terraces (Qpao).
	Qpsw Qpsc	Marine terrace deposits of gravel, sand, clay, shells and organic material (Qpsw). Older aeolian sand and sand dunes (Qpsc). Clay, sand, minor peat and gravel containing marine shells (Qpsc).
CENOZOIC PALEOCENE - NEOGENE	Tb	Conglomerate, gravel, sand, silt and mud disturbed by mining (Tm). Basalt (Tb).
	Tal	Dominantly non-marine sequences of gravel, sand, silt, clay and regolith (Ta). Gravel lag (Tal).
	Tss	Lag and outcrop of silicified quartz sandstone and conglomerate (Tss).
	Tfb	Grey-billy and silcrete (Tfb).
	Taf	Sands and gravels cemented by iron oxides (Taf).
PALEOZOIC SILURIAN (?) DEVONIAN	SDp	Undifferentiated Panama Group sandstone, siltstone and mudstone, primarily turbiditic in origin (SDp). Metamorphosed by granitic intrusion (SDpm).
	SDpm	
CENOZOIC PALEOCENE - NEOGENE	Tb	Basalt (Tb), hawaiite (Tbh) indicated.
	Tbn	Olivine nephelinite (Tbn), with theralite nodules (Tbnx).
MESOZOIC CRETACEOUS JURASSIC	Ksp	Phonolite dyke (Atr/Ar plateau age 75.8 ± 0.3 Ma) (Ksp).
	Jd	Dolerite and related rocks (Jd).

PERIOD	UNIT	DESCRIPTION
PALEOZOIC DEVONIAN	Dgi	Fine grained equigranular granite (Dgi). Aplite (Dgh). Fine grained porphyritic granite (Dgo). Quartz-muscovite granite (Dga). Garnetiferous quartz-feldspar porphyry (Dgp).
	Dgf	Quartz - feldspar porphyry (Dgf).
EDDYSTONE BATHOLITH	Dgaaf	Fine- to coarse-grained porphyritic, garnet-bearing biotite muscovite syenogranite/alkali feldspar granite (Dgaaf) (Bouldy Granite; S-type).
	Dgafq	Fine- to medium-grained, porphyritic (feldspar and rounded quartz) biotite-muscovite alkali feldspar granite/syenogranite (Dgafq).
BLUE TIER BATHOLITH	Dgafe	Fine- to coarse-grained equigranular biotite-muscovite alkali feldspar granite/syenogranite (Dgafe) (Dgafe, Dgafn - includes Mt. Cameron Granite; I-type).
	Dgafu	Fine- to medium-grained, equigranular to variably porphyritic, feldspar and quartz, biotite-variable muscovite syenogranite (Little Mt. Horror Granite) (Dgafu).
PALEOZOIC DEVONIAN	Dgafm	Fine- to medium-grained, sparsely porphyritic, biotite-minor muscovite monzogranite (Dgafm).
	Dgafv	Fine- to medium-grained, porphyritic (feldspar) biotite-muscovite monzogranite (Dgafv).
PALEOZOIC DEVONIAN	Dgafn	Medium- to coarse-grained sparsely porphyritic (K-feldspar) biotite-minor muscovite monzogranite (Dgafn).
	Dgaac	Coarse-grained, porphyritic (K-feldspar) to equigranular biotite-minor muscovite monzogranite (Dgaac).
PALEOZOIC DEVONIAN	Dgafv	Very coarse-grained porphyritic (K-feldspar) biotite-minor muscovite monzogranite (Dgafv) (Dgaac, Dgafv, Dgafn - Polmena Granite; I-type).
	Dgafv	Medium-grained equigranular foliated biotite-variable muscovite alkali feldspar granite (Dgafv) (Sheak Hill Granite; S-type).
PALEOZOIC DEVONIAN	Dgafv	Medium- to coarse-grained foliated, biotite monzogranite/granodiorite (Dgafv) (Vicarys Creek Granodiorite; I-type).
	Dgafv	

FEATURE	SYMBOL	DESCRIPTION
CONTACTS	—	Geological contact.
	- - -	Geological contact - inferred.
	- · - · -	Transitional geological contact.
FAULTS	- - -	Limit of mapping of sub-unit within undifferentiated rock unit.
	- - -	Fault - inferred.
LINEARS	—	Dune crest.
	- - -	Lineament - visible in magnetic data.
	- - -	Magnetic gradient or lineament (direction towards lower values indicated).

SYMBOL	DESCRIPTION
↘	Strike and dip of bedding, facing known.
↗	Strike and dip of bedding, facing unknown - dipping vertical.
↖	Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granite rock - dipping vertical; horizontal
↗	Horizontal foliation due to alignment of hornblende and/or biotite in granitic rock.
↖	Trend of preferred orientation of K-feldspar phenocrysts in granite rock.
↗	Strike of vertical foliation due to alignment of hornblende and/or biotite in granite rock.
↖	Trend of preferred orientation of hornblende and/or biotite in granite rock.
↗	Strike and dip of cleavage or foliation, relative local age S ₁ - dipping vertical.
↖	Strike and dip of dominant joint set - dipping vertical.
•	Notable small outcrop with rock unit indicated.
•	Notable small fault or lag occurrence with rock unit indicated.
•	Mineral deposit location - alluvial/alluvial.
•	Construction material/industrial mineral/gemstone location.



Compiled by A.R. Reed, B.Sc.(Hons), Ph.D., 1998 from the following sources (see source diagram):
 A. BAILLIE, P.W., TURNER, N.J. & COX, S.F. 1979. Geological Atlas 1:50 000 Series. Sheet 24 (8416). Bouldy Granite, Tasmania Department of Mines.
 B. BROWN, A.V., McCLENNAGHAN, M.P., MOORE, W.R., TURNER, N.J., McCLENNAGHAN, J., WILLIAMS, P.R., BAILLIE, P.W., CORBETT, K.D., CORBETT, E.B., COX, S.F. & GROVES, D.I. 1977. Geological Atlas 1:50 000 Series. Sheet 32 (8415N), Ringarooma. Tasmania Department of Mines.
 C. EVERARD, J.L., SUTHERLAND, F.L. & ZWINGMANN, H. 2004. A Cretaceous phonolite dyke from the Tomahawk River, northwest Tasmania. Papers and Proceedings of the Royal Society of Tasmania 138:11-33.
 D. J.L. Everard, Fieldwork 2008.
 E. Geophysical lineaments derived from 2008 Mineral Resources Tasmania "TasExplore" Survey added by J.L. Everard.

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 REED, A.R. 1998. Digital Geological Atlas 1:25 000 Scale Series. Sheet 5646 Monarch. Mineral Resources Tasmania.
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