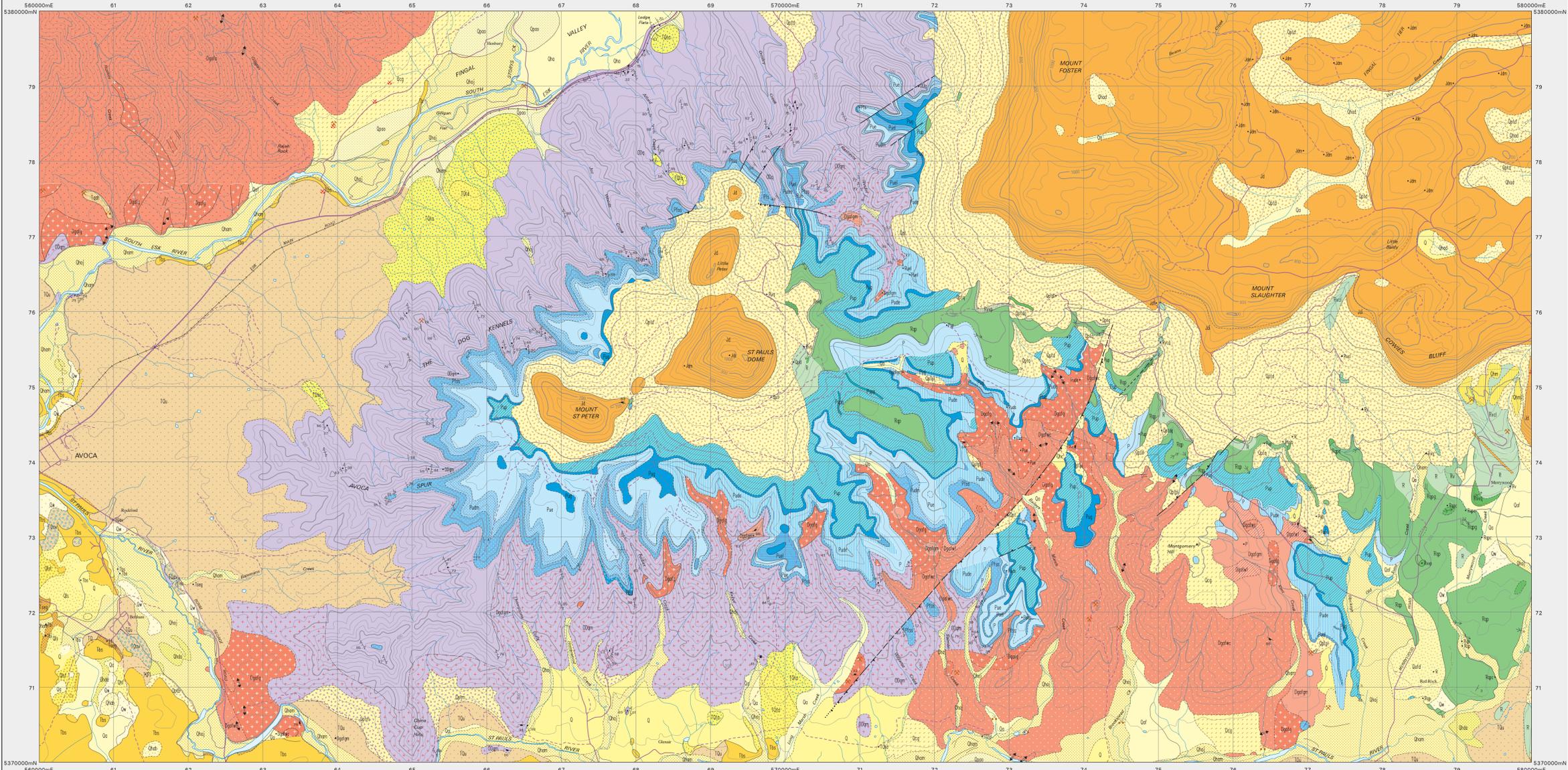


ST PAULS DOME

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION
CENOZOIC	Qm	Selected mine workings and man disturbed ground indicated (Qm).
	Qd	Alluvial fans and sheet deposits, including locally derived sand and silt (Qd).
	Qhda	Photo-interpreted dune form (Qhda).
	Qhdp	Swamp deposits including lunette lagoon deposits (Qhdp).
	Qh	Lag deposits, after ferricrete (Qh), after Tertiary silicified rock (Qs).
	Qh1	Lag deposit of mixed Tertiary ferruginous fragments or pisoliths and Tertiary silicified fragments or quartz granules (Qh1).
	Qh2	Lag deposit of mixed Tertiary ferruginous fragments or pisoliths and Tertiary silicified fragments or quartz granules (Qh2).
	Qh3	Coluvium (Qh3), piedmont coluvium of clayey quartz-granule derived from granitic rocks (Qh3).
	Qh4	Alluvial gravel sand and clay (Qh4), stream alluvium, swamp and marsh deposits, locally associated with wind blown deposits (Qh4), alluvial fans (Qh4).
	Qh5	Highland marsh deposits with common protruding dolerite outcrops and boulders (Qh5).
	Qh6	Holocene alluvium (Qh6), alluvial and marsh deposits of modern flood plains, gravel, sand, silt and clay commonly with dark coloured top layer, in stable environments and loose sand and gravel near major active channels (Qh6).
	Qh7	Alluvial terrace deposits (Qh7).
	Qh8	Alluvial fans with clasts dominantly of dolerite (Qh8).
	Qh9	Talks and remobilised talus deposits (Qh9), basal (Qh9), dominantly of dolerite (Qh9), dominantly of Upper Permian quartz sandstone (Qh9), dominantly of Lower Permian quartz sandstone (Qh9), and talus and sand (Qh9), dominantly of Lower Permian rocks (Qh9), and talus and sand (Qh9), dominantly of Upper Permian quartz sandstone (Qh9) and of dolerite and Upper Permian quartz sandstone (Qh9).
	Qh10	Talks dominantly of Malhonia Supergroup rocks (Qh10).
MESOZOIC	T0a	Talks and possible alluvial deposits of probable pre-last glacial age (T0a).
	T0b	Talks deposits with boulders consisting dominantly of dolerite, of probable pre-last glacial age (T0b).
	T0c	Alluvial and piedmont deposits in floors of major valleys, with basement thinly covered in some areas (T0c).
	T0d	Alluvium of dominantly quartzose granule- to cobble-size clasts, partly consolidated and commonly located supra-basal (T0d).
	T0e	Alluvium with boulder-sized clasts (T0e).
	T1	Ferricrete (T1).
	T2	Basalt (T2), tholeiitic basalt (T2), inferred basalt beneath soil or Cenozoic deposits (T2).
	T3	Dominantly poorly-consolidated mudstone, sandstone and quartzose granite sandstone, locally may include some undifferentiated poorly-consolidated quartzose conglomerate (T3).
	T4	Fractional surface.
	T5	Fractional surface.

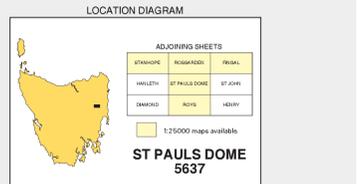
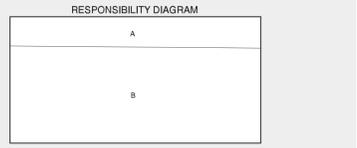
PERIOD	UNIT	DESCRIPTION
MESOZOIC	Rv	Mudstone of isolated locality (Rv).
	Rv1	Predominantly fine- to very coarse-grained volcanoclastic siliceous sandstone with subordinate carbonaceous mudstone, coal seams, silicified wood and in upper quartz luff layers and extrabasinal clasts (Rv1), intervals dominantly of mudstone (Rv1).
	Rv2	Interbedded cross-bedded white quartzose sandstone, quartz-rich (Rv2), siliceous sandstone and mudstone known from drill holes (Rv2), undifferentiated quartz sandstone, in some areas interbedded with quartzitic sandstone and mudstone, and generally poorly exposed or condensed interval of quartz-rich siliceous sandstone and mudstone such that differentiation of Rv2a and Rv2b units has not been made (Rv2 = Rv2a or Rv2b).
	Rv3	Interbedded yellow brown or grey carbonaceous siliceous mudstone and thin- to thick-bedded quartz-rich siliceous, arkosic sandstone, some carbonaceous beds (Rv3).
	Rv4	Dominantly quartz sandstone, commonly fine-grained and ripple laminated (Rv4).
	Rv5	Lenticular variable medium- to coarse-grained sandstone, generally containing quartz granules (Rv5).
	Rv6	Rv = Rv1 + Rv2 + Rv3 + Rv4 + Rv5 + Rv6.
	Rv7	Dominantly freshwater cross-bedded quartzose sandstone, micaceous siltstone and mudstone (Rv7), selected intervals predominantly of siltstone, shale, mudstone and sandstone (Rv7), intervals of coarse-grained sandstone and granite (Rv7), Rv7, Rv7, Rv7 correlate of Ross Formation.
	Rv8	Freshwater cross-bedded arkosic to quartzose sandstone and micaceous siltstone possible correlate of Jockey Shoal (Rv8).
	Rv9	Poorly-sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare foraminifera (Rv9), bed of pebbly sandstone, from this, indicated in places (Rv9), (Rv9) - Prospect Creek Mudstone, Pupp - possible correlate of Palmer Sandstone.
PALEOZOIC	Pu	Thickly bedded, usually poorly-sorted sandstone passing into interbedded sandstone, siltstone and mudstone. Marine fossils present in places (Malhonia Sandstone) (Pu).
	Pu1	Marine mudstone, siltstone and minor sandstone and bioclastic limestone (Pu1); richly fossiliferous beds (Pu1), dominantly bioclastic limestone or silicified beds (Pu1); well-sorted granite sandstone with rare marine fossils (Pu1).
	Pu2	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu2).
	Pu3	Marine mudstone, siltstone and minor sandstone and bioclastic limestone (Pu3); richly fossiliferous beds (Pu3), dominantly bioclastic limestone or silicified beds (Pu3); well-sorted granite sandstone with rare marine fossils (Pu3).
	Pu4	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu4).
	Pu5	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu5).
	Pu6	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu6).
	Pu7	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu7).
	Pu8	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu8).
	Pu9	Thinly bedded, usually poorly-sorted sandstone, siltstone and mudstone (Pu9).
UNCONFORMITY	U1	Quartzitic turbidite sequence of interbedded sandstone and siltstone, with minor mudstone (U1), horizons resulting from contact metamorphism by granitic intrusions indicated (U1).
	U2	Quartzitic turbidite sequence of interbedded sandstone and siltstone, with minor mudstone (U2), horizons resulting from contact metamorphism by granitic intrusions indicated (U2).

PERIOD	UNIT	DESCRIPTION
MESOZOIC	Ju	Dolerite (Ju), with abundant poorly crystalline metaolite (Ju), dolerite inferred beneath soil or Cenozoic deposits (Ju), dolerite of granite, 0.7-15mm (Ju), 15-3mm (Ju), >3mm (Ju) indicated.
	Bt	Blue tier batholith.
	Dg1	Porphyritic fine- to medium-grained alkali feldspar granite with quartz and variable amounts of K-feldspar phenocrysts (Dg1).
	Dg2	Porphyritic fine- to medium-grained alkali feldspar granite with quartz and variable amounts of K-feldspar phenocrysts and surface pink weathering of K-feldspar (Dg2).
	Dg3	Equigranular to sparsely porphyritic, medium- to coarse-grained alkali feldspar granite, with variable amounts of K-feldspar phenocrysts, and surface pink weathering (Dg3).
	Dg4	Porphyritic fine- to medium-grained alkali feldspar granite with quartz and variable amounts of K-feldspar phenocrysts (Dg4).
	Dg5	Equigranular to sparsely porphyritic, medium- to coarse-grained alkali feldspar granite, with variable amounts of K-feldspar phenocrysts (Dg5).
	Dg6	Equigranular fine-grained granite (microgranite) (Dg6).
	Dg7	Equigranular to sparsely porphyritic, medium- to coarse-grained alkali feldspar granite, with variable amounts of K-feldspar phenocrysts (Dg7).
	Dg8	Equigranular fine- to medium-grained alkali feldspar granite (Dg8).
PALEOZOIC	Lm	Lyntonian Stage.
	Bn	Bernacchian Stage.
	Tm	Tamarian Stage.
	Lm	Lyntonian Stage.
	Bn	Bernacchian Stage.
	Tm	Tamarian Stage.
	Lm	Lyntonian Stage.
	Bn	Bernacchian Stage.
	Tm	Tamarian Stage.
	Lm	Lyntonian Stage.

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - -	Geological boundary - inferred.
.....	Transitional geological boundary.
.....	Slope break.
.....	Lithological trend line, including bedding trace interpreted from aerial photographs.
.....	Photo isomorph.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.
.....	Fault - inferred.
.....	Normal fault (downthrown side indicated) - position accurate or approximate.
.....	Normal fault (downthrown side indicated) - inferred.
.....	Normal fault (downthrown side indicated) - concealed.

Compiled by E.M. Forsyth, 2005 from the following sources (see responsibility diagram):
A CAVER, C.R., EVERARD, J.L., FINDLAY, R.H. and LENNOX, P.G. 1988. Geological Atlas 1:50 000 series, sheet 48 (B414N) Ben Lomond, Department of Mines Tasmania.
B GULLINE, A.B., FORSYTH, S.M., EVERARD, J.L., CAVER, C.R. and MATTHEWS, W.L. 1981. Geological Atlas 1:50 000 series, sheet 55 (B46N) Snow Hill, Department of Resources and Energy.

SYMBOL	DESCRIPTION
—	Strike and dip of bedding, right way up, overturned, facing unknown.
—	Horizontal bedding.
—	Strike and dip of cleavage - relative local age St vertical.
—	Strike and dip of cleavage - relative local age S2.
—	Trend and plunge of minor fold hinges, unspecified relative age, with vertical trend surface.
—	Placocurrent direction, showing sense of movement.
—	Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.
—	Strike and dip of dominant joint set, vertical.
—	Notable small outcrop.
—	Notable float or log occurrence.
—	Field station for adjacent reading on map.
—	Mineral deposit location - horroca (Data derived from Mineral Resources Tasmania DEP0213 data base - data point position has not been verified in every case).
—	Mineral deposit location - alluvial (Data derived from Mineral Resources Tasmania DEP0213 data base - data point position has not been verified in every case).
—	Construction materials location - (Data derived from Mineral Resources Tasmania DEP0213 data base - data point position has not been verified in every case).



REFERENCE THIS MAP AS:
GULLINE, A.B., SECCOCCI, EVERARD, J.L., FORSYTH, S.M. (compiler), LENNOX, P.G. and FINDLAY, R.H. 2005. Digital Geological Atlas 1:25000 Series, sheet 5637 ST Pauls Dome, Mineral Resources Tasmania.
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AID66 - AM2 Zone 55. Contour Interval: 20 metres.
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