Department of State Growth
MINERAL RESOURCES TASMANIA

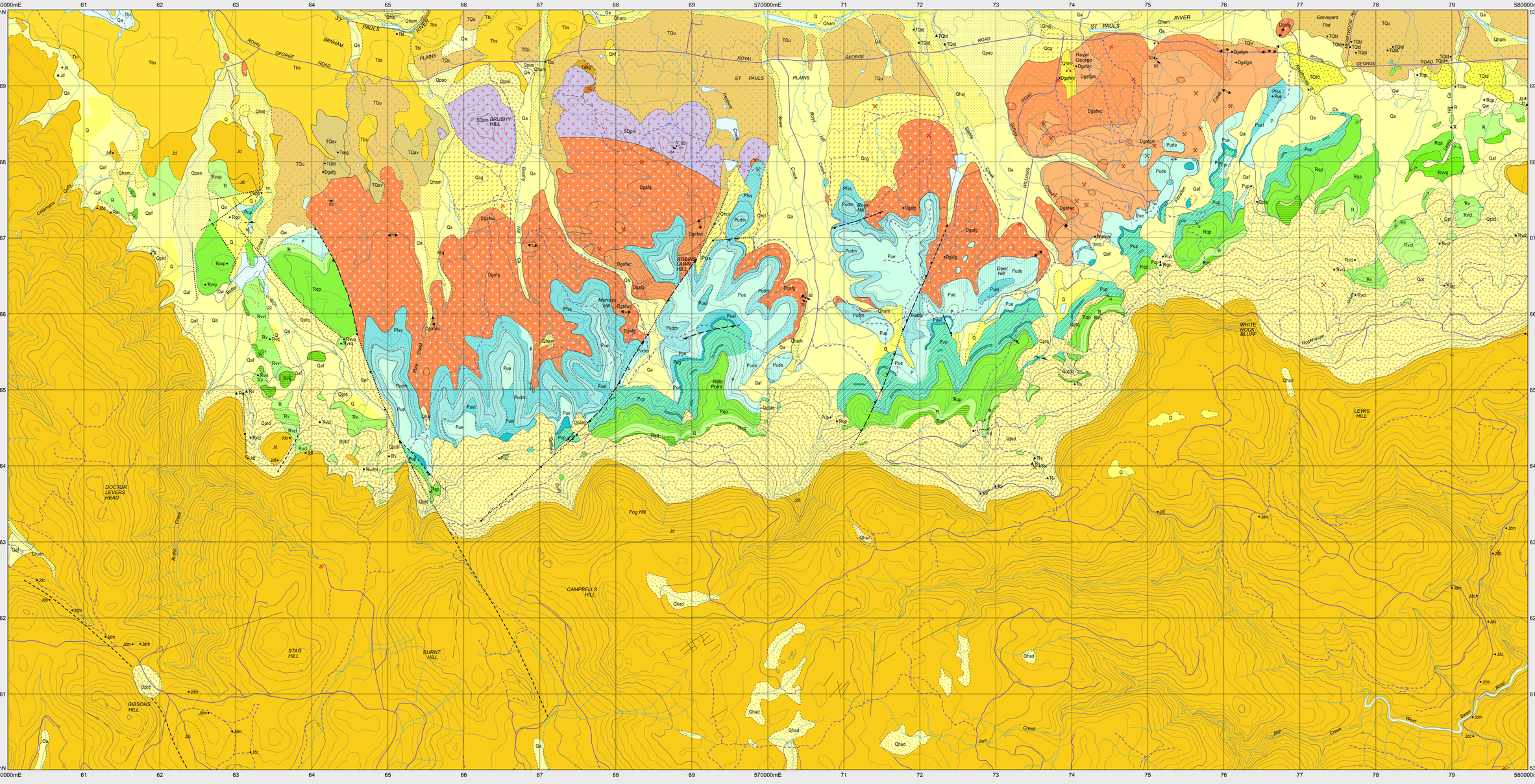
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
ROYS, SHEET 5636

ROYS

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

HOLOCENE

Qhm — *Undifferentiated Cenozoic sediments (TQ). Undifferentiated Quaternary sediments (Q). Selected mine tailings and man disturbed ground indicated (Qhm).*

Qw — *Aeolian dune and sheet deposits, including locally derived sand and silt (Qw).*

Qhad — *Highland marsh deposits with common protruding dolerite outcrops and boulders (Qhad).*

Qhf — *Lag deposit after ferricrete (Qhf).*

Qhc — *Colluvium (Qhc), derived predominantly from Lower Parmeener rocks (Qhcl), piedmont colluvium of clayey quartz-granule gravel derived from granitic rocks (Qcg).*

Qafd — *Alluvial fan deposits predominantly of dolerite clasts (Qafd).*

Qa — *Alluvial gravel sand and clay (Qa), stream alluvium, swamp and marsh deposits, locally associated with wind blown deposits (Qha), alluvial fans (Qaf) alluvial fans with clasts dominantly of dolerite (Qafd). Holocene alluvium (Qha), 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 (Qham).*

Qham

Qpao — *Alluvial terrace deposits (Qpao).*

PLEISTOCENE

Qpt — *Talus and remobilised talus deposits (Qpt), dominantly of dolerite boulders (Qptd), dominantly of Upper Parmeener quartz sandstone and sand (Qptq), dominantly of lower Parmeener rocks (Qptpl), and talus of mixed clasts of dolerite and Upper Parmeener lithic sandstone (Qptdl), of dolerite and notable amounts of Upper Parmeener silicified wood, tuff and reworked pre-Triassic clasts (Qptdw), and of dolerite and Upper Parmeener quartz sandstone (Qptdq).*

Qptm — *Talus dominantly of Mathinna Supergroup rocks (Qptm).*

TQta — *Talus and possible alluvial deposits of probable pre-last glacial age (TQta).*

TQtd — *Talus deposits with boulders consisting dominantly of dolerite, of probable pre-last glacial age (TQtd).*

TQu — *Aeolian, alluvial and piedmont deposits in floors of major valleys, with basement thinly covered in some areas (TQu).*

TQav — *Alluvium of dominantly quartzose granule- to cobble-size clasts, partly consolidated and commonly located supra-basalt (TQav).*

PALEOGENE - NEOGENE

Tf — *Undifferentiated Tertiary (T). Ferricrete (Tf).*

Tb — *Basalt (Tb), tholeiitic basalt (Tbs), quartz tholeiite (Tbq), olivine tholeiite (Tbt), inferred basalt beneath soil or Cenozoic deposits (Tbi).*

Tseg — *Dominantly poorly-consolidated mudstone, sandstone and quartzose granule sandstone, locally may include some undifferentiated poorly-consolidated quartzose conglomerate (Tseg).*

Erosional surface.

MESOZOIC

TRIASSIC

Rvcl — *Undifferentiated Parmeener Supergroup rocks (PR). Undifferentiated Upper Parmeener Supergroup rocks (R). Undifferentiated volcaniclastic, quartz-rich lithic and quartzose sandstone, siltstone, mudstone, carbonaceous beds and coal seams (Rv). Upper Parmeener rocks contact metamorphosed by Jurassic dolerite (Rm). Mudstone at isolated locality (Rs). Predominantly fine- to very coarse-grained volcaniclastic lithic sandstone with subordinate carbonaceous mudstone, coal seams, silicified wood and in upper parts tuff layers and extrabasinal clasts (Rvcl); intervals dominantly of mudstone indicated (Rvclm).*

Rvq — *Dominantly quartz sandstone intervals of uncertain stratigraphic position between units Rvcg and Rvvp (Rvq).*

Rv — *Interbedded yellow brown or grey carbonaceous siltstone, mudstone and thin- to thick-bedded quartz-rich lithic, arkosic sandstone, some carbonaceous beds (Rvvl).*

Rvvl — *Dominantly quartz sandstone, commonly fine-grained and ripple laminated (Rvvq).*

Rvvq — *Lenticular variable medium- to coarse-grained sandstone, generally containing quartz granules (Rvvp).*
Rv = Rvq + Rvcl + Rvvl + Rvvq + Rvvp.

Rvvp

Rsp — *Dominantly freshwater cross-bedded quartzose sandstone, micaceous siltstone and mudstone (correlate of Ross Formation) (Rsp).*

Rcq — *Freshwater cross-bedded arkosic to quartzose sandstone and micaceous siltstone (possible correlate of Jackey Shale) (Rcq).*

PERMIAN

Pup — *Undifferentiated Permo-Carboniferous sediments (P). Poorly-sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare Foraminifera (Pup). Bed of dobbly mudstone, 1-4m thick, indicated in places (Pupp). (Pup - Prospect Creek Mudstone, Pupp - possible correlate of Palmer Sandstone).*

Pupp

Pug — *Thickly bedded, usually poorly-sorted sandstone passing up into interbedded sandstone, siltstone and mudstone. Marine fossils present in places (Mistletoe Sandstone) (Pug).*

Pue — *Marine mudstone, siltstone and minor sandstone and bioclastic limestone (Pude); richly fossiliferous beds (Pue); dominantly bioclastic limestone or silicified beds (Puel).*

Puel

Pudm — *Dominantly mudstone and siltstone with generally sparse marine fossils, and in some places phosphatic nodules typically near the top of the unit (Pudm).*
Pude = Pue + Puel + Pudm - Castle Carey Mudstone.

Pfss — *Quartz sandstone, arkose and conglomerate (Aberfoyle Formation) (Pfss).*

Unconformity.

PALEOZOIC

SILURIAN (?) - DEVONIAN

SDpm — *Undifferentiated Panama group rocks contact metamorphosed by granitic intrusion (SDpm).*

PR — UPPER PARMEENER SUPERGROUP
P — LOWER PARMEENER SUPERGROUP
Lymingtonian Stage, Bernacchian Stage — REKUNIAN SERIES
PANAMA GROUP — LUNA RIVER SUBGROUP — MATHINNA SUPERGROUP

INTRUSIVE ROCKS

MESOZOIC — JURASSIC

Jd — *Dolerite (Jd), with orthopyroxene (Jdo), insitu or transported dolerite masses (Jdt), dolerite inferred beneath soil or Cenozoic deposits (Jd). Dolerite of grainsize 0.7-1.5mm (Jdf), 1.5-3mm (Jdm) indicated, > 3mm (Jdc) indicated.*

BEN LOMOND BATHOLITH

PALEOZOIC — DEVONIAN — UPPER DEVONIAN

Dgafg — *Fine- to medium-grained, variably porphyritic alkali feldspar granite, with quartz and K-feldspar phenocrysts (Dgafg).*

Dgafgm — *Fine-grained equigranular alkali feldspar granite (microgranite) (Dgafgm).*

Dgafwc — *Medium- to coarse-grained, equigranular to sparsely porphyritic alkali feldspar granite, with variably abundant K-feldspar phenocrysts (Dgafwc).*

ROYAL GEORGE GRANITE

CONTACTS

Geological contact.
Geological contact - inferred.
Limit of mapping of sub-unit within undifferentiated rock unit.
Limit of detailed mapping.

FAULTS

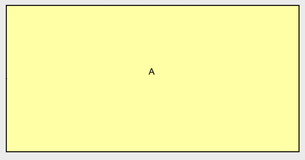
Fault - inferred.
Fault - concealed.
Normal fault (downthrown side indicated).
Normal fault (downthrown side indicated) - inferred.
Normal fault (downthrown side indicated) - concealed.

LINEARS

Scarp.
Lineament - visible on aerial photographs.
Lithological trend line, including bedding trace interpreted from aerial photographs.

Strike and dip of bedding, right way up.
Horizontal bedding.
Generalised palaeocurrent direction, showing sense of movement.
Strike and dip of cleavage - relative local age S_1.
Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.
Strike and dip of dominant joint set; vertical.
Field station for adjacent readings on the map.
Notable small outcrop with rock unit indicated.
Notable small float or lag occurrence with rock unit indicated.
Mineral deposit location - hardrock.
Mineral deposit location - alluvial/tailings.
Construction material/industrial mineral/gemstone location.

SOURCE DIAGRAM

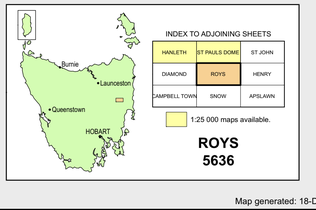


- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by S.M. Forsyth, B.Sc.(Hons) 2005 from the following source (see source diagram):

A GULLINE A.B., FORSYTH, S.M., EVERARD, J.L., CALVER, C.R. and MATTHEWS, W.L. 1991. Geological Atlas 1:50 000 Series. Sheet 55 (8414S), Snow Hill. Department of Resources and Energy.

LOCATION DIAGRAM



REFERENCE THIS MAP AS:

GULLINE, A.B. (deceased), EVERARD, J.L., FORSYTH, S.M. and CALVER, C.R. 2007. Digital Geological Atlas 1:25 000 Series, Sheet 5636 Roys. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

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Map generated: 18-DEC-2023

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