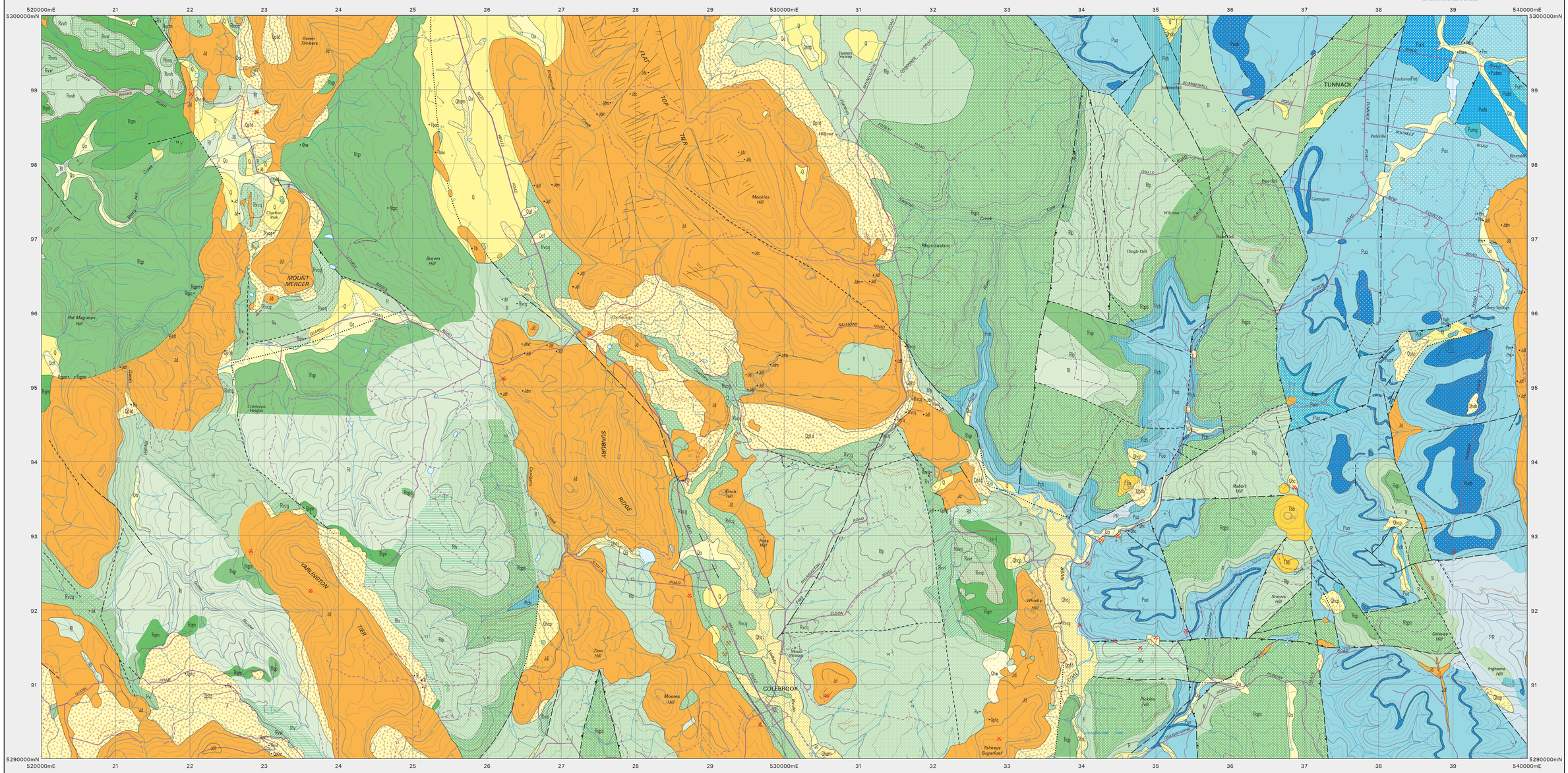
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
COLEBROOK, SHEET 5229

COLEBROOK

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CENOZOIC

QUATERNARY

- **Qhmm** — Man made deposits (Qhmm).
- **Qhw** — Aeolian and locally derived sand (Qhw).
- **Qhdo** — Photo-interpreted dune form (Qhdo).
- **Qhc** — Colluvium (Qhc), – sandy, derived from Upper Parmeener rocks (Qhcp), – clayey gravel derived from dolerite (Qhcd), derived predominantly from Lower Parmeener rocks (Qhcl).
- **Qhab** — Swamp deposits (Qhab).
- **Qa Qhaj** — Alluvial gravel sand and clay including terrace deposits (Qa), alluvial fans (Qaf). Holocene alluvium indicated in some areas (Qhaj), including alluvial and marsh deposits of modern flood plains of gravel, sand, silt and clay commonly with dark coloured top layer (Qham).
- **Qptrr** — Dolerite scree deposits (Qptrr).
- **Qpt** — Talus and remobilised talus deposits (Qpt), basalt talus (Qptb), talus predominantly of: – Upper Parmeener lithic sandstone (Qptl), Upper Parmeener sandstone and sand (Qptq), dolerite boulders and in places subordinate Parmeener rocks (Qptd), dolerite and notable Upper Parmeener rocks (Qptup), silty talus breccia derived from Lower Parmeener rocks (Qptp).
- **TQgd** — Ferruginous cemented slope deposit breccia clasts dominantly of dolerite (TQgd).
- **TQtf** — Possible talus deposit of orange brown to white clay with dolerite clasts and silicified rock intersected in bore (TQtf).

TERTIARY

- **Tb** — Basalt (Tb).
- **Tcbdj** — Inferred dolerite boulder bed or Tertiary weathered Jurassic dolerite bedrock (Tcbdj).

Erosional surface.

MESOZOIC

TRIASSIC

- **Rvcq** — Thick- to thin-bedded volcanic lithic sandstone, siltstone, mudstone and coal seams, fossil plants on some horizons (Newtown Coal Measures in part) (Rvcq), differentiated in some areas finer-grained basal interval dominantly of carbonaceous mudstone and siltstone with subordinate medium- to thin-bedded lithic sandstone and thin coal seams (Rvcm).
- **Rv** — Undifferentiated Upper Parmeener below unit Rvcq (Rl). Predominantly massive quartz sandstone, occasional beds of lithic sandstone coal (Rlv). Dominantly medium- and fine-grained quartz sandstone, minor mudstone much mica and graphite on bedding surfaces, contains 10 percent feldspar (Rlt). Dominantly medium-coarse-grained sandstone, minor mudstone minor mica and feldspar content, sandstone to mudstone ratio is <=3:1, contains clay pellet conglomerate (Rlp).
- **Rvq** — Interbedded cross-bedded white quartzose sandstone, quartz-rich lithic sandstone, grey green and dark grey carbonaceous siltstone and mudstone, thin lenticular coal seams and fossil plants in places (Newtown Coal Measures in part) (Rvcq).
- **Rvvl** — Interbedded yellow brown or grey carbonaceous siltstone, mudstone and thin- to thick-bedded quartz-rich lithic, arkosic sandstone, some fossil plants, common siltstone paleosols (Rvvl).
- **Rvvs** — Predominantly interbedded very siliceous quartz sandstone and orange to brown weathering siltstone and mudstone with subordinate lithic sandstone and carbonaceous mudstone (Rvvh), – indicated in some areas, predominantly fine-grained quartz sandstone, commonly partly silicified (Rvvs), predominantly brown, buff, grey carbonaceous and green siltstone and mudstone (Rvvr), and basal lenticular variable medium-to coarse-grained sandstone, generally containing quartz granules (Rvvg).
- **Rqm** — Interbedded micaceous brown, red-purple, green and grey carbonaceous siltstone shale, mudstone and planar-bedded, ripple-laminated or cross-bedded sandstone, characteristic very thin beds of bioturbated silicified sandstone (Rqm).
- **Rqp** — Freshwater predominantly cross-bedded quartzose to feldspathic sandstone commonly with overturned cross-bedding and subordinate micaceous siltstone with some red-purple beds, sparse plant and vertebrate fossils (Rqp), – contact metamorphosed by Jurassic dolerite (Rqpm), intervals predominantly of siltstone, shale, mudstone and sandstone indicated (Rqpc), intervals of thickly bedded medium-coarse-grained quartz sandstone and very minor usually black shale layers and sandstone to shale ratio normally > 10:1 (Rqpss).
- **Rqpc** — Freshwater cross-bedded arkosic to quartzose sandstone and micaceous siltstone, lower interval with some graphitic or carbonaceous sandstone, large calcareous concretions in some areas, thin beds of quartz pebble conglomerate near base in many areas, upper interval less feldspathic (correlate in part of Cygnet Coal Measures) (Rqc).

UPPER PARMEENER SUPERGROUP

PALEOZOIC

PERMIAN

- **Pua** — Generally unfossiliferous, glaciomarine interbedded non-fissile and fissile siltstone and silty sandstone, common bioturbation, lonestones; uppermost beds of laminated to massive grey siltstone (Pua), thin marker horizon of granule sandstone indicated (Puab) (Pua – Abels Bay Formation, Puab – probable correlate of Blackwood Conglomerate).
- **Pur** — Cliff forming massive, bioturbated to homogeneous, moderately well-sorted feldspathic quartz sandstone with thin pebble- and cobble-rich layers (Risdon Sandstone) (Pur). Fossiliferous siltstone with lonestones, fossiliferous feldspathic, lithic quartzose coarse-grained sandstone and unfossiliferous quartzose sandstone with pebble bands (Purx) (correlate in part of upper beds of Malbina Formation and possible correlate of Risdon Sandstone).
- **Pum** — Generally poorly fossiliferous interbedded glaciomarine fine- to medium-grained sandstone and fissile to non-fissile siltstone with common lonestones and pebble-rich patches, top beds richly fossiliferous (Pum), basal unfossiliferous well-to poorly-sorted pebbly sandstone and interbedded siltstone depicted in some areas (Pumg) (Pum Malbina Formation). Pux = Pua+Pur+Pum+Pumg.
- **Pub** — Abundantly fossiliferous glaciomarine calcareous siltstone and very impure arenaceous limestone, grades upward to less fossiliferous, less calcareous and more arenaceous beds that include some unfossiliferous non-calcareous rocks near the top (Pudb). (thermally metamorphosed by Jurassic dolerite = Pudam).
- **Pch** — Lower Parmeener Supergroup contact metamorphosed by Jurassic dolerite (Pm).

LOWER PARMEENER SUPERGROUP

IGNEOUS ROCKS

CENOZOIC — TERTIARY

- **Tb** — Basalt (Tb), alkali olivine basalt (Tbao) and basinite (Tbb).
- **Tbn** — Olivine nephelinite (Tbn).

MESOZOIC — JURASSIC

- **Jd** — Dolerite (Jd), dolerite inferred beneath soil or Cenozoic deposits (Jdl), insitu or transported dolerite rock masses (Jdt). Dolerite of grainsize 0.2 – 0.7mm (Jdvf), 0.7 – 1.5mm (Jdf), 1.5 – 3mm (Jdm), >3mm (Jdc) indicated.

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Intrusive boundary – position accurate or approximate.
Slope break.
Scarp.
Lithological trend line.
Photo lineament.
(white line) Limit of mapping of sub-unit within undifferentiated rock unit.
Fault – position accurate or approximate.
Fault – inferred.
Fault – concealed.
Fault – position accurate or approximate, downthrown side indicated.

Strike and dip of bedding, right way up.
Generalised palaeocurrent direction, showing sense of movement.
Notable small outcrop (or float/log occurrence).
Mineral deposit location – hardrock } Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Mineral deposit location – alluvial
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by S.M.Forsyth, 2002 from the following source (see responsibility diagram):

A LEAMAN, D.E. & LEGGE, P.J. 1975. Geological Atlas 1:50 000 series, sheet 75 (8312N) Brighton. Tasmania Department of Mines.

B FORSYTH, S.M., ABTMAIER, B.F. & LEAMAN, D.E. 1976. Geological Atlas 1:50 000 series, sheet 68 (8313S) Oatlands. Tasmania Department of Mines.

C FORSYTH, S.M. 1984. Geological Atlas 1:50000 series Expl. Rep. Sheet 68 (8313S) Oatlands. Tasmania Department of Mines.

D SUTHERLAND, F.L. Cainozoic basalts. In FORSYTH, S.M. 1984. Geological Atlas 1:50000 series Expl. Rep. Sheet 68 (8313S) Oatlands. Tasmania Department of Mines.

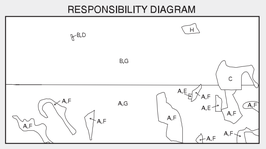
E SUTHERLAND, F.L. Cainozoic volcanic rocks. In LEAMAN, D.E. 1977. GEOLOGICAL ATLAS 1:50000 series Expl. Rep. Sheet 75 (8312N) Brighton. Tasmania Department of Mines.

F New 1:25000 geological mapping 2000, S.M.Forsyth.

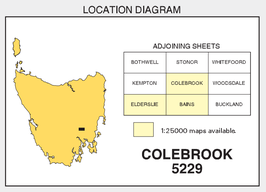
G Roadside geological observations and aerial photo interpretation 2000, S.M. Forsyth.

H Unpublished mapping 1976-1985, S.M. Forsyth.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



ADJOINING SHEETS

BOTHWELL	STONOR	VINTEFOORD
KEMPTON	COLEBROOK	WOODSDALE
ELDERSLIE	BANIS	BUCKLAND

1:25000 maps available.

COLEBROOK 5229

REFERENCE THIS MAP AS:
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AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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