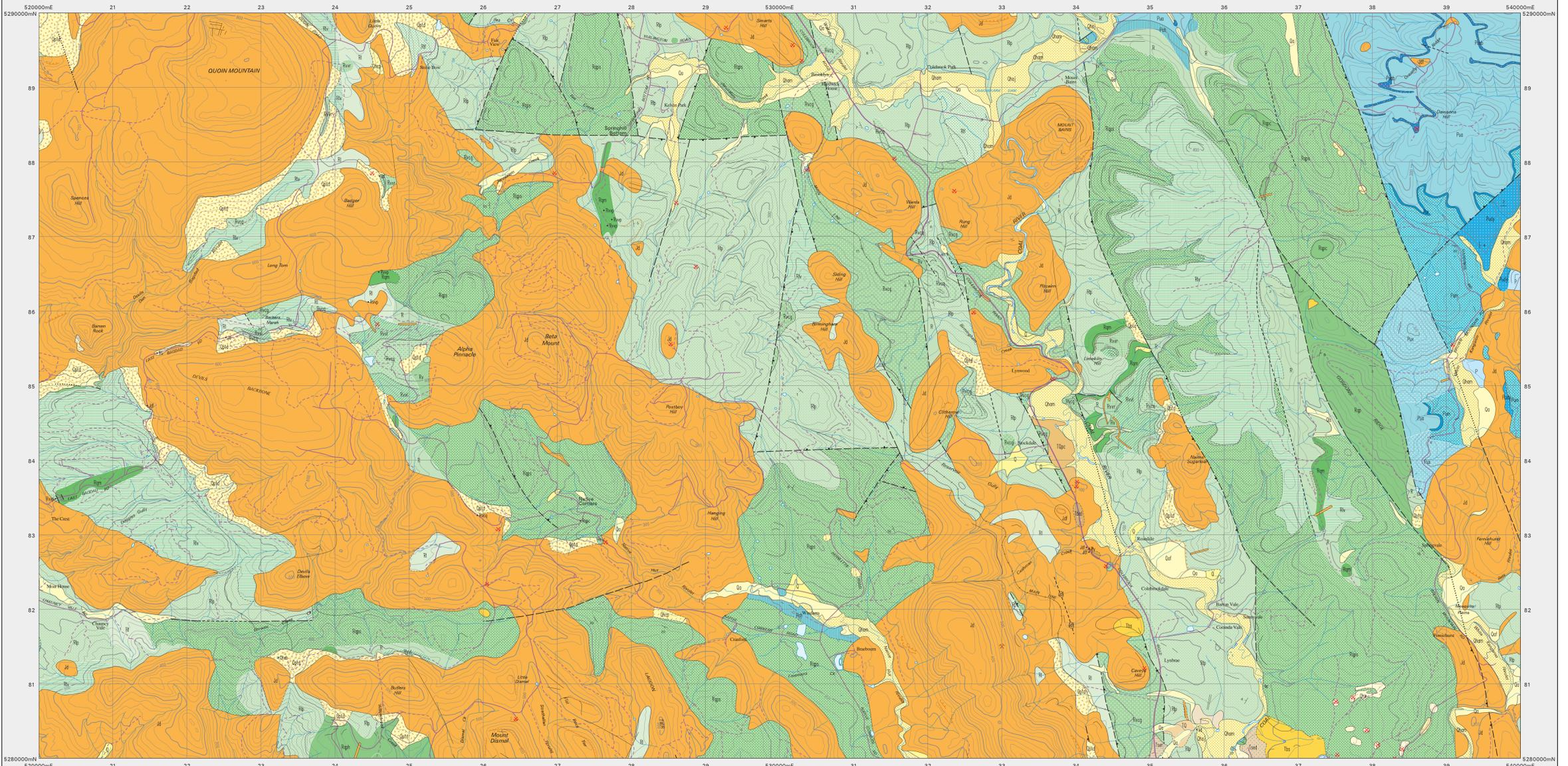
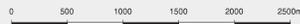


BAINS

Scale: 1:25 000



QUATERNARY	QUATERNARY	QUATERNARY
Qw	Aeolian and locally derived sand (Qw); Pleistocene aeolian deposits (Qpw).	
Qspc	Sandy colluvium, derived from Upper Parmener rocks (Qspc); clayey gravel derived from dolerite (Qsd); colluvium derived predominantly from Lower Parmener rocks (Qnc).	
Qshb	Swamp deposits (Qshb).	
Qa	Aluvial gravel sand and clay (Qa); aluvial fans (Qaf). Holocene aluvium (Qha); aluvial and marsh deposits of modern flood plains, gravel, sand, silt and clay commonly with dark coloured top layer (Qam).	
Qpo	Aluvial terrace deposits (Qpo).	
Qdtr	Dolerite scree deposits (Qdtr).	
Qd	Tuffs and remobilised tuffs, predominantly of Upper Parmener sandstone and sand (Qd), and tuffs dominantly of dolerite boulders and in places subordinate Parmener rocks (Qdp).	
Tchob	Late Cainozoic aluvial terrace deposits of well rounded pebbles and cobbles preserved on isolated remnants of relatively high (12 to 20m) aluvial terraces (Tchob).	
Ttppc	Late Cainozoic pediments of sandy clay, soil profiles with Pleistocene? sand infill - with basal gravel on slopes of 4-6 degrees, derived by gully silt and rill erosion from predominantly Tertiary deposits, Corvington geomorphic unit (Ttppc).	
Tbo	Alkali olivine basalt (Tbo); tholeiite (Tbt).	
Tbt	Basaltic volcanic agglomerate, tuff and associated rocks (Tbt).	
Tsd	Dominantly plastic poorly-consolidated light grey, green or tan coloured mudstone, siltstone and sandstone with some soft, friable sandstone (Tsd).	
Tsr	Dominantly plastic poorly-consolidated light grey, green or brown mudstone, siltstone and sandstone with some friable sandstone, may include layers with gravels and pebbles, common ferruginous cemented beds and laminae (Tsr).	

MESZOZOIC	MESZOZOIC	MESZOZOIC
Rvcp	Thin- to thin-bedded volcanic lithic sandstone, siltstone, mudstone and coal seams, fossiliferous in some horizons (Newtown Coal Measures in part) (Rvcp); inferred from log of aluvial wood, tuff and quartz greyish clay (Rvcp); unmetamorphosed Upper Parmener sandstone (Rvcp). Predominantly medium mudstone and some shale, occasional massive units of quartz sandstone, thin coal seams and rare lenticular sandstone (Rv). Dominantly medium and fine-grained quartz sandstone, minor mudstone much mica and graphite on bedding, sections of percent feldspar (Rv). Dominantly medium- to coarse-grained sandstone, minor mudstone, minor mica and feldspar content, sandstone to mudstone ratio is c. 2:1 contains clay part conglomerate (Rv).	Interbedded yellow brown or grey carbonaceous siltstone, mudstone and thin- to thick-bedded quartzite thin, arkosic sandstone, some fossiliferous, common siltstone podoccosis (Rv).
Rv	Predominantly fine-grained quartz sandstone, commonly partly siltified, uncommon horizons with quartz pebbles and very rarely pebbles; interbedded with mudstone and thin sandstone of places (Rv).	Interbedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and planar bedded, ripple-laminated or cross-bedded sandstone (Rv).
Rvsc	Predominantly brown, buff, grey carbonaceous and green siltstone and mudstone, interbedded with thin sandstone, quartz sandstone and thin beds of aluvial sandstone, horizons of crowded vertical burrows, siltstone podoccosis, and plant fossils of places (Rvsc).	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 (Rvsc); Knoxley Formation (Rvsc). High contact metamorphosed by Jurassic dolerite (Rvsc); intervals predominantly of siltstone, shale, mudstone and sandstone, interbedded with thickly bedded medium- to coarse-grained quartz sandstone and very minor usually black shale layers and sandstone to shale ratio normally > 10:1 (Rvsc).
Rvsc	Lenticular variable medium- to coarse-grained sandstone, generally containing quartz granules or pebbles, less commonly cobbles and conglomerate, crowded vertical burrows of places (Rvsc). Rv = Rvsc + Rvc + Rvi + Rvs + Rvr + Rvp.	Thin marker horizon of gravel sandstone indicated (Rvsc). (Probable correlate of Blackwood Conglomerate).
Rv	Thinly bedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and planar bedded, ripple-laminated or cross-bedded sandstone (Rv).	Generally siltstone, glauconitic interbedded non-fossiliferous and fossiliferous siltstone and silty sandstone, common bioturbation, limestone; uppermost beds of laminated to massive grey siltstone (Abercromby Formation). Cliff forming massive, bioturbated to homogeneous, moderately well-sorted feldspathic quartz sandstone with thin pebble- and cobble-rich layers (Ridon Sandstone) (Rv).
Rv	Thinly bedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and planar bedded, ripple-laminated or cross-bedded sandstone (Rv).	Generally poorly fossiliferous interbedded glauconitic fine- to medium-grained sandstone and fossiliferous to non-fossiliferous siltstone with common low stones and pebble-rich patches, top beds rarely fossiliferous (Methan Formation) (Pum).
Rv	Thinly bedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and planar bedded, ripple-laminated or cross-bedded sandstone (Rv).	Fossiliferous beds dominantly of mudstone and siltstone (Pud).

IGNEOUS ROCKS

Tbo	Alkali olivine basalt (Tbo); tholeiite (Tbt).
D	Dolerite (D), with orthopyroxene (Dob), dolerite inferred beneath soil or Cainozoic deposits (Dd), dolerite of granitic D' - Lower (Dd'), indicated.

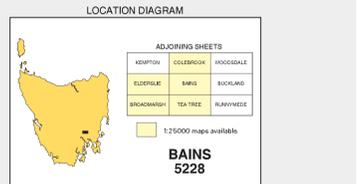
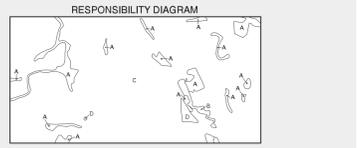
- Geological boundary - position accurate or approximate.
- Geological boundary - inferred.
- Slope break.
- Scarp.
- Photo lineament.
- Limit of mapping of sub-unit within undifferentiated rock unit.
- Fault - position accurate or approximate.
- Fault - inferred.
- Fault - concealed.
- Fault - position accurate or approximate, downthrown side indicated.
- Small outcrop or lag occurrence.

UPPER PARMENER SUPERGROUP	LOWER PARMENER SUPERGROUP	RELIQUARY BEDS
	Lymington Slope	

- Strike and dip of bedding, right way up.
- Mineral deposit location - hardrock.
- Mineral deposit location - aluvial.
- Construction materials location.

- Data derived from Mineral Resources Tasmania DEPOSITS data base.
- Data point position has not been verified in every case.
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- Data point position has not been verified in every case.

Compiled by S.M. Foyth, 2002 from the following sources (see responsibility diagram):
A. LEAMAN, D.E. & LEGG, P.J. 1975. Geological atlas 1:50000 series, Sheet 75 (B312N) Brighton; FORSYTH, S.M. 2000. New 1:25,000 geological map.
B. LEAMAN, D.E. & LEGG, P.J. 1975. Geological atlas 1:50000 series, Sheet 75 (B312N) Brighton; FORSYTH, S.M. 2000. New 1:25,000 geological map.
C. LEAMAN, D.E. & LEGG, P.J. 1975. Geological atlas 1:50000 series, Sheet 75 (B312N) Brighton; FORSYTH, S.M. 2000. New 1:25,000 geological map.
D. LEAMAN, D.E. & LEGG, P.J. 1975. Geological atlas 1:50000 series, Sheet 75 (B312N) Brighton; FORSYTH, S.M. 2000. New 1:25,000 geological map.



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FORSYTH, S.M. (compiler) 2005. Digital Geological Atlas 1:25000 Series, sheet 5228 Bains, Mineral Resources Tasmania.
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