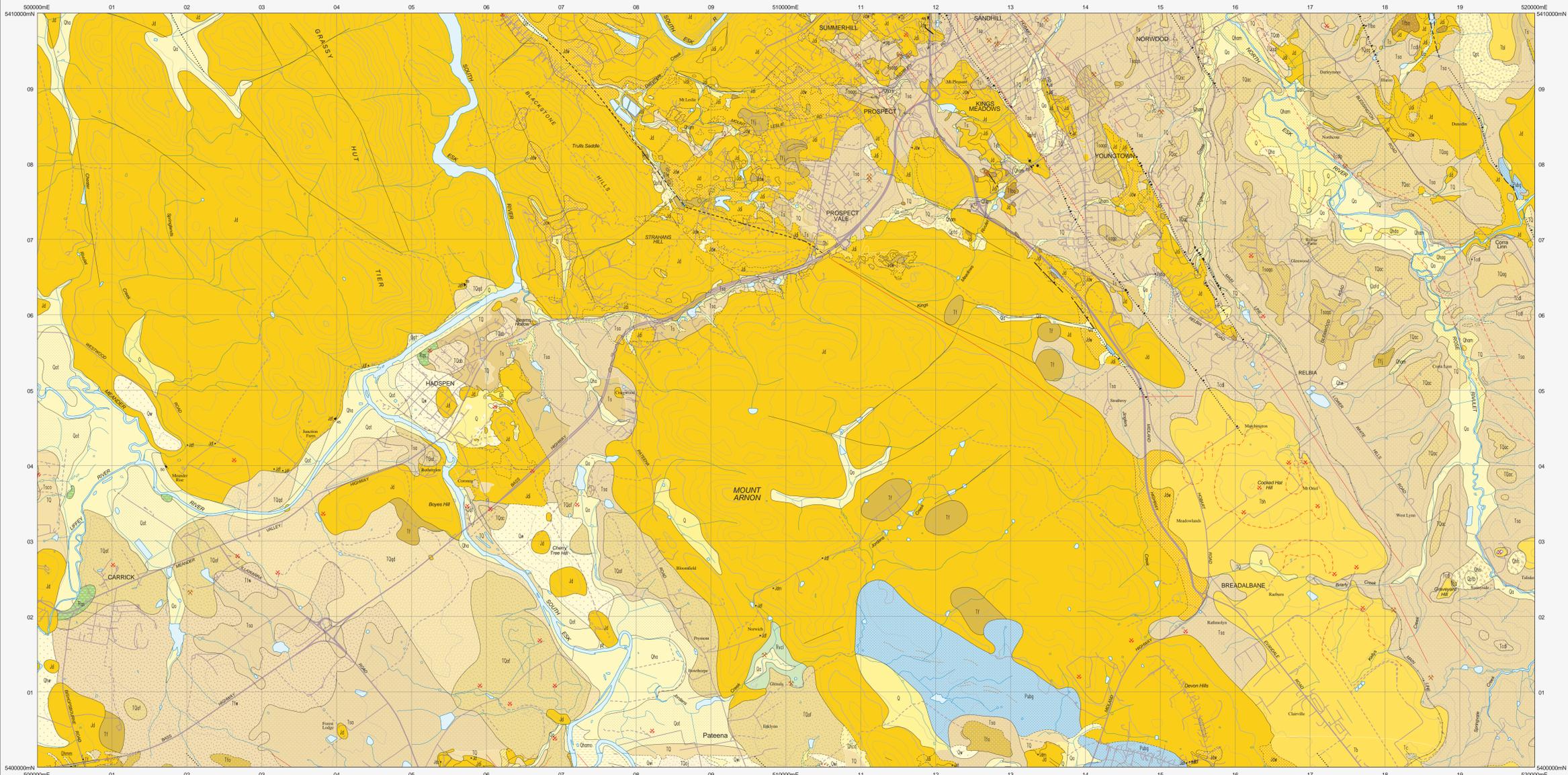


PROSPECT

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION
HOLOCENE	Qhnm	Man made deposits including some levee banks interpreted from 1966 aerial photography (Qhnm).
	Qhls	Landslip and debris flow deposits (Qhls).
	Qhst	Stream alluvium, swamps and marsh deposits (Qhst).
	Qhnt	Alluvium of floodplain terraces adjacent to current stream channels including levee deposits in some areas (part of Coraco Surface) (Qhnt).
	Qhnc	Alluvium related to former channel locations and commonly exhibiting multiple levels, ridges and channel furrows that have resulted from progressive channel migration (Qhnc).
	Qhna	Alluvial and swamp deposits of gravel, sand, silt and clay, commonly with organic-rich top layer (Qhna); alluvial gravel deposits (Qhna).
	Qhob	Colluvial deposits of gravel, sand and clay (Qhob); clayey gravel derived from dolerite (Qhob); with dolerite clasts derived from Tertiary dolerite conglomerate (Qhob); with siliceous clasts derived from Cainozoic deposits (Qhob).
	Qhda	Photo-interpretated dune form (Qhda).
	Qh	Plastic ironstone gravel, cemented in places, of top, alluvial and colluvial origin (Qh).
	Qh	Selected lag deposits of ferruginous pisoliths and ferricrete fragments (Qh).
PLEISTOCENE	Qa	Aluvial gravel, sand and clay (Qa).
	Qat	Low (<5m above present stream) alluvial terraces of sand, silt and clay (Qat).
	Qald	Alluvial fan deposits predominantly of dolerite clasts (Qald); alluvial fan deposits predominantly of mud, silt and sand, with pebbles in some areas (Qald).
	Qw	Aeolian deposits and locally derived sand (Qw); windblown and locally derived sand (Qw); photo-interpretated aeolian deposits predominantly of sheet or low hummocky form (Qw).
	Qhs	Lag deposit of quartz sandstone and pebbly sandstone, possibly derived from Tertiary sandstone (Qhs).
	Qpad	Aluvial terrace deposits predominantly composed of dolerite cobbles (Qpad).
	Qpao	Older alluvium of minor stream terraces (Qpao).
	Qpt	Talus composed predominantly of Jurassic dolerite (Qpt); of Tertiary basalt (Qpt).
	T0ab	Late Cainozoic terrace deposits of siliceous pebble gravel and sand cemented by iron oxides in places, 5-10m above sea level, base to poorly consolidated, clast composition poorly known, dominantly siliceous in some areas of probable Pleistocene age (T0ab).
	T0ob	Late Cainozoic terrace deposits of siliceous pebble gravel and sand cemented by iron oxides in places, ~20m above sea level, of probable Pleistocene age (T0ob).
T0oc	Late Cainozoic terrace deposits of siliceous pebble gravel and sand with rare boulder-sized clasts, cemented by iron oxides in places, 25-40m and ~50m above sea level or local base level (T0oc).	

PERIOD	UNIT	DESCRIPTION
TERTIARY	T0ag	Late Cainozoic terrace deposits of siliceous pebble gravel and sand with rare boulder-sized clasts, cemented by iron oxides in places, ~70m above sea level (T0ag).
	T0ac	Erosion/depositional terrace cut in Tertiary strata generally lacking fluvial morphology, may include undifferentiated alluvium of minor streams and piedmont gravels derived from adjacent lateral slopes (probably mostly part of Bruny terrace) (T0ac).
	T0ad	Late Cainozoic terrace deposits of siliceous pebble gravel and sand cemented by iron oxides in places, siliceous pebble gravel and sand with little or no dolerite, part of Bruny terrace (T0ad).
	T0ae	Partly consolidated gravel of cobbles of predominantly weathered dolerite and lesser quartzite, and sand, with surficial siliceous gravel lag (T0ae).
	T0af	Ferruginous cemented sandstone (T0af).
	T1w	Pinfa lateritic profile, lag and dispersed ferruginous ferricrete fragments and pisoliths, locally may include silt part of profile or lower horizons, distribution indicated by soil maps (Woodstock soil association) (T1w).
	T1v	Ferricrete, laterite and bauxite with cemented and soft layers (T1v); lateritic profile, bauxite or other ferricrete, inferred from limited photogrammetry, some ferricrete rock rocks siliceous and generally lacks substantial occurrences of ferricrete; commonly developed over dolerite (T1v).
	T1u	Selected micaceous ferruginous laterite profile with ferricrete masses, clay with ferruginous pisoliths and sponges, especially lag deposits of ferruginous pisoliths (part of Woodstock Surface) (T1u).
	T1c	Undifferentiated conglomerate, gravel and grit (T1c).
	T1b	Basalt (T1b); inferred basalt beneath soil or Cainozoic deposits (T1b); tholeiitic basalt (T1b); limburgite (T1b); basalt displaced downslope (T1b); howlite (T1b).
MESOZOIC-PALEOZOIC	T1sc	Inter- and sub-basalt gravels of predominantly quartzite pebbles (T1sc).
	T1s	Undifferentiated Tertiary sediments, non-marine sequences of gravel, sand, silt, clay and regrass (T1s).
	T1sa	Partly consolidated clay, silt, and clayey table sand with rare gravel and lignite; some iron oxide-cemented layers and concretions; some leaf fossils (T1sa); poorly consolidated quartzitic micaceous sandstone and conglomerate interbedded with siltstone and mudstone, commonly with some ferruginous and rarely siliceous cement (T1sa); underlying Tertiary basalt at Beach Hill (T1sa).
	T1sd	Moderately consolidated dominantly cobble grade with lesser pebble and boulder grade dolerite conglomerate, some sandstone and rare siltstone; common pebbles and calcic cements (T1sd); dominantly of cobble conglomerate and sandstone with lignite and carbonaceous beds containing Lygidolentia bairni Zone palynoflora of Palaeocene age (T1sd).
	T1sb	Bauxite profile developed on pre-Tertiary rocks and overlain by Tertiary rocks (T1sb).
	Rvcd	Dominantly rhyolitic sandstone with minor mudstone and coal (Rvcd).
	Rl	Undifferentiated Upper Permian Supergroup rocks below coal measures (Rl).
	Rgs	Cross-bedded quartz sandstone, feldspathic sandstone and shale (Rgs).
	Rbgp	Unfossiliferous pebbly siltstone, siltstone and sandstone (Bogon Gap Group) (Rbgp).
	Pubg	

PERIOD	UNIT	DESCRIPTION
CENOZOIC	T0b	Intrusive basalt (T0b) at 517650mE, 5407855mN, 539255mE, 5405555mN and 519570mE, 5402830mN.
	Jd	Dolerite (Jd) Dolerite of granitic 0.7-15mm (Jd); 15-3mm (Jd); 1-3mm (Jd) indicated. Predominantly deeply-weathered dolerite (Jd); inferred dolerite beneath soil or Cainozoic deposits (Jd).
MESOZOIC	Jd	Dolerite (Jd) Dolerite of granitic 0.7-15mm (Jd); 15-3mm (Jd); 1-3mm (Jd) indicated. Predominantly deeply-weathered dolerite (Jd); inferred dolerite beneath soil or Cainozoic deposits (Jd).
	Jd	Predominantly deeply-weathered dolerite (Jd).

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
.....	Geological boundary - position inferred.
.....	Dune crest.
.....	Slope break.
.....	Scarp.
.....	Fault - inferred.
.....	Fault - concealed.
.....	Fault - normal - position accurate or approximate.
.....	Fault - normal - concealed.
.....	Fault - concealed, inferred from airborne magnetic data.
.....	Lithological trend line.
.....	Lineament visible on aerial photographs.
.....	Magnetic gradient or lineament (direction towards lower values indicated).
.....	Lineament visible in airborne magnetic data.
(White line)	Limit of mapping of sub-unit within undifferentiated rock unit (Colour boundary).

SYMBOL	DESCRIPTION
—	Strike and dip of bedding - right way up.
—	Strike of vertical bedding, facing indicated by single tic.
—	Generalised paleocurrent direction, showing sense of movement.
—	Strike and dip of dominant joint set - dipping vertical.
—	Strike and dip of outcrop-scale fault of unspecified relative age.
•	Notable small outcrop with rock unit indicated.
•	Field station for adjacent readings on the map.
•	Mineral deposit location - hardrock
•	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, B.Sc. and C.R. Calver, B.Sc.(Hons), Ph.D., 2002 from the following sources:
(See responsibility diagram):
A C.R. Calver, 2001-2003, 1:25 000 mapping.
B FORSYTH, S.M., 1998, Geology map, Launceston area, Urban Engineering Geology Series, Tasmanian Geological Survey (recompiled 2005).
C MOON, W.R., 1989, Stone stability and engineering geology of the Blackstone Heights area, Compilation report, Department of Mines (unpublished report 1989/0).
D FORSYTH, S.M., 1:25 000 mapping 1991-1993, with reference to Blake, F., 1959, Longford 1:63 360 Geological Map.
E C.R. Calver, 2004, 1:25 000 mapping, with reference to BLAKE, F., 1959, Longford 1:63 360 Geological Map, and MATHEWS, W.L., 1963, Launceston 1:63 360 Geological Map (revised 1980/0).
F BLAKE, F., 1959, Longford 1:63 360 Geological Map, with minor revision by C.R. Calver.
G LONGMAN, M.J., MATHEWS, W.L., ROWE, S.M., 1963, Launceston 1:63 360 Geological Map (minor revision by C.R. Calver).
H S.M. Forsyth, 2004, new geological mapping.
I GULLINE, A.B., BRAVO, A.P. and NAZVA, I.H., 1973, Geological atlas 1:63 360 scale, Sheet 50 (82145) Franklin, Tasmania Department of Mines.
J BARTON, C.M., BRAVO, A.P., GULLINE, A.B., LONGMAN, M.J., MARSHALL, B., MATHEWS, W.L., MOORE, W.E., NAZVA, I.H. and PREE, G.P., 1969, Geological atlas 1:63 360 scale, Sheet 46 (82140) Quality, Tasmania Department of Mines.
K MATHEWS, W.L., 1963, Geology and groundwater of the Longford Tertiary basin, Bull. Geol. Surv. Tasmania, 59.

