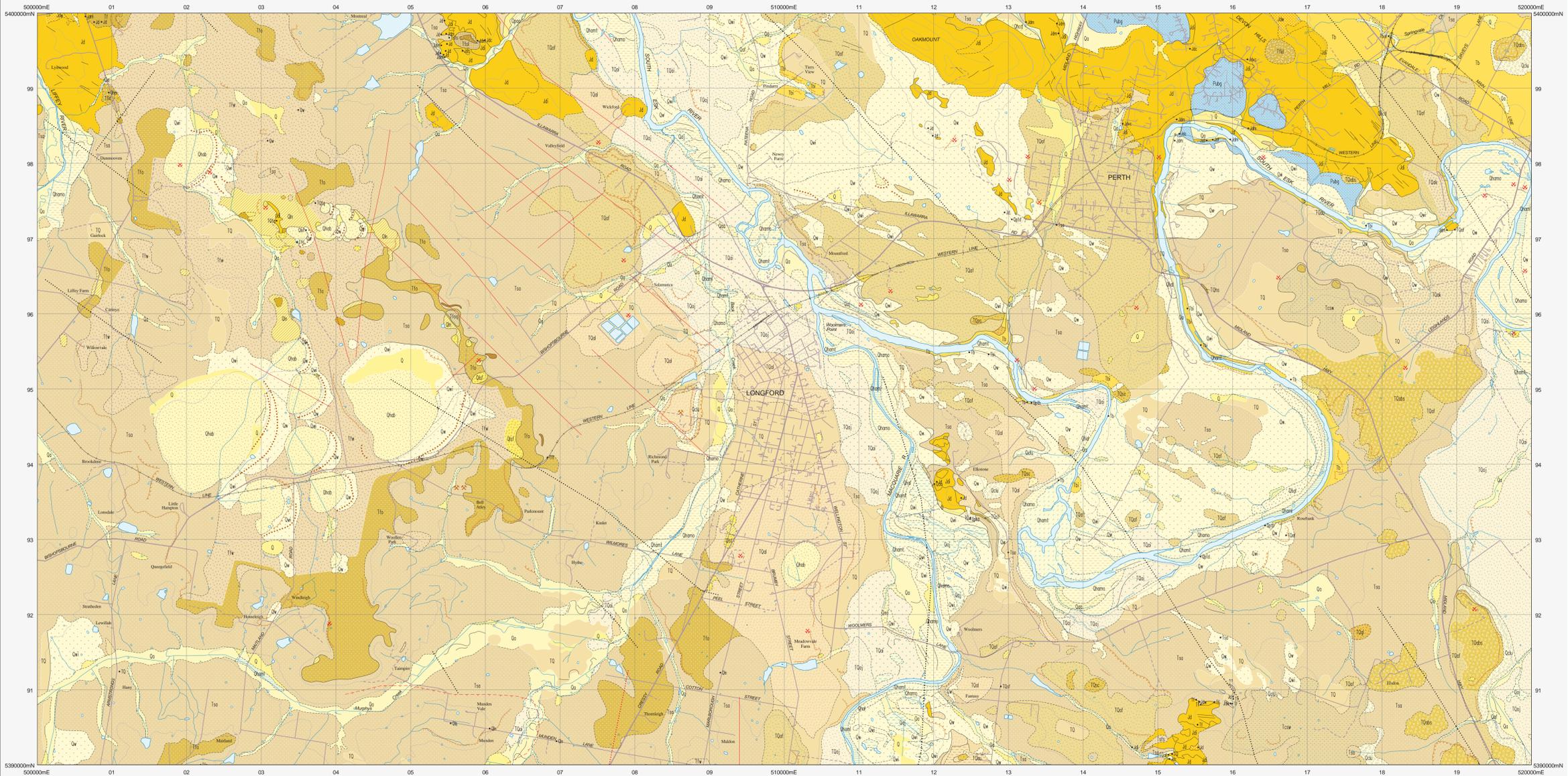


# LONGFORD

Scale: 1:25 000



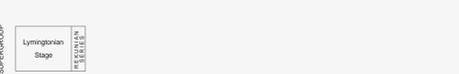
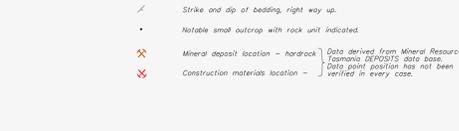
UNIT	DESCRIPTION
Qhm	Mine tailings and man disturbed ground (Qhm), selected other man made deposits including some levee banks interpreted from 1968 aerial photography (Qhmm).
Qw	Alluvial deposits generally of fine-grained sand and clayey sand, includes some photo-interpreted deposits with prominent dune morphology (Qw). Photo-interpreted alluvial deposits predominantly of sheet or low hummocky form (Qw).
Qhw	Deposits of clay, silt and sand in small areas of internal drainage generally swales in dune fields (Qhw).
Qhwc	Undifferentiated (photo-interpreted) river levees or dune deposits exhibiting ridge morphology or a much degraded ridge form at places grading into dune or sheet alluvial deposits (Qhwc).
Qhwb	Deposits of lunette lagoons and similar features (Qhwb).
Qham	Alluvial gravel, sand and clay deposits mostly of minor stream or undifferentiated parts of the alluvium of major streams (Qha), alluvial fan deposits, generally of fine-grained gravel, sand and silt (Qaf).
Qhan	Alluvium of low rate subject to current stream channels and subject to frequent minor flooding (part of Canola Surface) (Qhan).
Qhna	Alluvium of floodplain terraces adjacent to current stream channels including levee? deposits in some areas (part of Canola Surface) (Qhna).
Qhnb	Alluvium related to former channel locations and commonly exhibiting multiple levee? ridges and channel furrows that have resulted from progressive channel migration (Qhnb).
Qoa	Fluvial flood basin deposits generally of clay and silt over other alluvium (Qoa).
Qob	Predominantly infertile abandoned river channel deposits and some abandoned? flood flats (Qob).
Qoc	Inferred sand and silt deposits of natural levees or levee-like features (Qoc).
Qopa	Older alluvium of minor stream terraces (Qopa).
Qp	Lag deposits of ferruginous pisoliths and ferricrete fragments (Qp).
Qpf	Lag deposits of ferruginous pisoliths and ferricrete fragments and siliceous granules or pebbles (Qpf).
Qpcd	Colluvium of clayey gravel derived from dolerite (Qpcd).
Qclu	Undifferentiated patchy deposits generally with some siliceous gravel and derived from terrace gravel deposits by inferred down slope movement or other means of dispersal (Qclu).
Qtpb	Basalt tuffs (Qtpb), tuffs dominantly of dolerite boulders and in places subordinate Permian Super-group rocks (Qtpa).

UNIT	DESCRIPTION
T0qr	Erosional/depositional terrace cut in Tertiary strata and generally exhibiting only subdued remnants of fluvial morphology, alluvial gravel and alluvial sand extensively reworked by erosion process present in some areas (terrace mostly part of Bruny Terrace) (T0qr).
T0q	Similar to T0qr but generally lacking fluvial morphology and locally higher, may include undifferentiated alluvium of minor streams and scattered reworked debris from adjacent lateral slopes (probably mostly part of Bruny Terrace) (T0q).
T0qar	Undifferentiated siliceous pebble, gravel, cemented gravel and sand with little or no dolerite (part of Brunyden soil association) (T0qar).
T0qal	Late Cenozoic alluvial terrace deposits approximately 10 to 15m above local base level, of base to poorly consolidated or cemented, gravel, sand, silt and clay, clasts predominantly pebbles to gravel size and of siliceous composition with ferruginous clasts derived from mid-Tertiary laterite ferricrete (Brunyden Terrace in part) (T0qal).
T0qa	Late Cenozoic alluvial terrace deposits approximately 10 to 15m above local base level, similar to unit T0qal, but clasts predominantly of siliceous composition (T0qa).
T0qab	Late Cenozoic alluvial terrace deposits ~20m above local base level, similar to unit T0qal (T0qab).
T0qac	Late Cenozoic ferruginous sandstone conglomerate generally with some small quartz pebbles or gravels (T0qac).
T0qg	Quartz gravel with red to pink coloration caused by surface ferruginous films or ferruginous quartz overgrowths (T0qg).
T0qd	Undifferentiated clayey silt facies of late Cenozoic terrace deposits and erosional terraces cut in Palaeogene beds (T0qd).
T0qf	Ferruginous cemented sandstone (T0qf).
T0qa	Undifferentiated very poorly consolidated sandstone (T0qa).
T0qf	Ferruginous drab khaki coloured cemented siltstone or sandstone (T0qf).
Tf	Ferricrete (Tf).
Tfo	Laterite developed from an or Jurassic dolerite (Tfo).
Tfoa	Miocene? ferruginous laterite profile commonly of burundy-yellow-ochre coloured ferricrete masses and bright orange-red clay with ferruginous pisoliths and orange essentially lag deposits of ferruginous pisoliths, with lower palisade zone (part of Woodstock Surface) (Tfoa).
Tfoa	Miocene? Quartz gravel bearing ferricrete developed on Tertiary beds (Tfoa).
Tfoa	Lower part of ferruginous or aluminous laterite profile beneath upper cemented zone (Tfoa).
Tfop	Laterite profile palisade zone, generally consisting of white clay with variable development of purple, red or brown ferruginous nodules or masses and occasionally laminar layers (Tfop).
Tfo	In situ laterite profile, lag and dispersed ferruginous ferricrete fragments and pisoliths, locally may include palisade part of profile or lower horizons more broadly interpreted than unit Tfo, distribution indicated by soil maps (Woodstock soil association) (Tfo).
Tfo	Bedded laminated ferricrete probably limonitic replacement of siltstone, generally brown in colour and found below the palisade/ferruginous zone boundary of laterite intervals (Tfo).

UNIT	DESCRIPTION
Tcwe	Sub-laterite, poorly consolidated to ferruginously cemented quartz-rich, calcareous, pebbly, gravelly sand deposits of alluvial and possible lag origin, and intercalated concretions (Tcwe).
Tb	Basalt (Tb), agglomerates and tuff (Tbat) indicated.
Tsa	Poorly consolidated clay, silt and clayey loam sand with rare gravel and lignite; some van oxide-cemented layers and concretions; some leaf fossils (Tsa).
Tsa	Selected sandstone units (where differentiated) within intervals dominantly of calcareous and siltstone (Tsa).
Tfoc	Basaltic profile developed on pre-Tertiary rocks and correlated with unit overlain by Palaeogene rocks in other areas (Tfoc).

UNIT	DESCRIPTION
Pubq	Unfossiliferous pebbly siltstone, siltstone and sandstone (Bogan Gap Group) (Pubq).

UNIT	DESCRIPTION
Tb	Basalt (Tb), interbedded basaltic tuff or Cenozoic deposits (Tb).
jd	Dolerite (jd), dolerite interbedded beneath soil or Cenozoic deposits (jd).
jd	Dolerite of granitic 0.7-15mm (jd); 15-3mm (jdm); 3-8mm (jdc) and siltstone (jdc) indicated.
jd	Predominantly very-to extremely-weathered dolerite (jd).

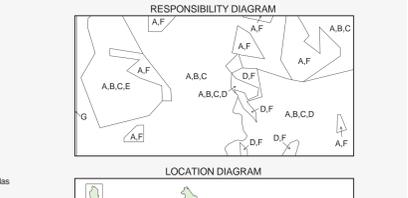
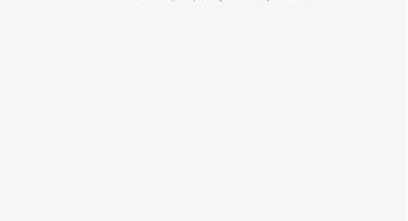


**REFERENCE THIS MAP AS:**  
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A. BLAKE, F. 1959. Geological Atlas 1:63 300 series, sheet 47 (8314N) Longford.  
B. Aerial photo interpretation, S.M. Forsyth 2004.  
C. Road-side geological observations, S.M. Forsyth 2004.  
D. MATTHEWS, W.L. 1979. Geology and groundwater resources of the Longford Tertiary Basin.  
E. NICOLLS, K. 1958. Reconnaissance soil map of Tasmania, sheet 47 Longford.  
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G. BARTON, C.M.; BRAVO, A.P.; GULLINE, A.B.; LONGMAN, M.J.; MARSHALL, B.; MATTHEWS, W.L.; MOORE, W.R.; NICHOLLS, K. and FINE, G.F. 1966. Geologic Atlas 1 mile series. Sheet 46 (8214N) Tasmania. Tasmania Department of Mines.



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NORTHERN	5037	5038	5039
EASTERN	5038	5039	5040
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