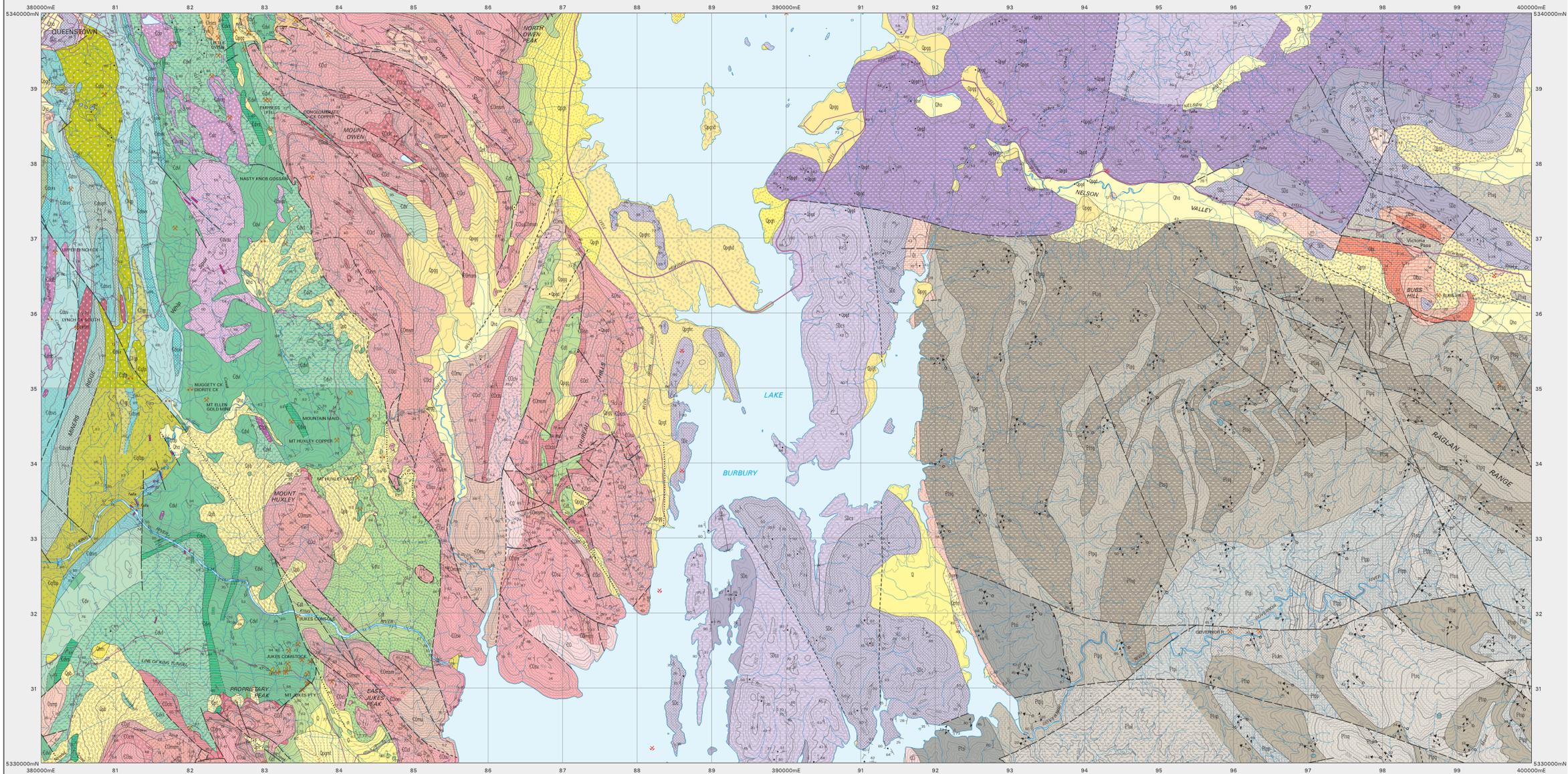


# OWEN

Scale: 1:25 000



PERIODE	UNIT	DESCRIPTION
MESOZOIC	Qhm	Man-made deposits including mine dumps and disturbed ground (Qhm).
	Qha	Alluvium, scoria and marsh deposits. May include older alluvial deposits (Qha).
	Qp1	Talus, scree and associated caliche deposits (Qp1).
	Qp2	Talus, scree and associated caliche - derived from Colton Group rocks (Qp2).
	Qp3	Talus, scree and associated caliche - derived from Freestone rocks (Qp3).
	Qp4	Boundary slope and fan deposits, commonly with leached channels, probably partly of glacial origin (Qp4).
	Qp5	Undifferentiated Pleistocene glacial deposits (Qp5), isolated occurrences of dolerite derived erratics (Qp5).
	Qp6	Mainly till deposits - unweathered or slightly weathered (Qp6), Deposits of Henty Glaciation.
	Qp7	Weathered till and outwash gravel (Bul Rivulet Formation) (Qp7), Deposits of Henty Glaciation.
	Qp8	Weathered and poorly sorted outwash gravel and till (David Formation) (Qp8), Deposits of Henty Glaciation.
CENOZOIC	Qp9	Weathered outwash gravel and till (Cableway Formation) (Qp9), Deposits of Henty Glaciation.
	Qp10	Deeply weathered till, outwash gravel and lagstone sediments. Reversed magnetic polarity indicates age > 730,000 ybp (Qp10), Deposits of Linds Glaciation.

PERIODE	UNIT	DESCRIPTION
PALAEOZOIC	S2b	Mudstone, siltstone, minor fine-grained sandstone and rare limestone (correlate of Bell Formation) (S2b).
	S2c	Fine-grained quartz sandstone with minor siltstone and mudstone (correlate of Florence Formation) (S2c).
	S2d	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amers Formation) (S2d).
	S2e	Siltstone and fine-grained sandstone (upper unit of Crofty Formation) (S2e).
	S2f	Fine-to coarse-grained quartz-rich sandstone, calcareous sandstone and minor mudstone (Crofty Formation) (S2f).
	S2g	Interbedded mudstone and siltstone with some limestone (S2g).
	S2h	Dominantly brown weathering impure (dolomitic, muddy and/or sandy) limestone, frequently massive (S2h).
	S2i	Dominantly grey weathering micritic limestone (S2i).
	S2j	Grey to pink quartz sandstone with basal pebble-granule conglomerate, trace basins and chert-rich bands in upper part (Pioneer Beds and correlates) (S2j).
	S2k	Thin-bedded quartz sandstone, commonly interbedded with interbedded siltstone and minor granite-pebble conglomerate. Chert clasts in places. (Bilbaruban common) (Lower Owen Sandstone and correlates) (S2k).
PALAEOZOIC	S2l	Mainly pale pink to cream coloured, thick-bedded pebble-cobble to cobble-boulder quartzitic conglomerate, with minor quartz sandstone and some partly volcanoclastic sandstone in some areas (Middle Owen Conglomerate and correlates) (S2l).
	S2m	Mainly thin-bedded pink quartzitic sandstone and pebbly sandstone with bands of pebble conglomerate, minor siltstone (Middle Owen Sandstone and correlates) (S2m).
	S2n	Mainly white/gray to pale pink pebble-cobble-boulder conglomerate and quartz sandstone with minor siltstone and volcanoclastic sandstone (Lower Owen Conglomerate and correlates) (S2n).
	S2o	Thin-bedded grey-green siltstone and micaceous sandstone, grading laterally to fine thin-bedded sandstone (S2o).
	S2p	Units of thick-bedded to massive cobble-boulder conglomerate. Erosion unconformity at base of some units in some areas (S2p).
	S2q	Mainly volcanoclastic sandstone with minor conglomerate and siltstone (top unit of Lower Owen Conglomerate of Tharua Hill) (S2q).
	S2r	Volcanoclastic conglomerate and breccia and minor sandstone, usually locally developed in contact with volcanic rocks. (Correlate of Jukes Conglomerate) (S2r).
	S2s	
	S2t	
	S2u	

PERIODE	UNIT	DESCRIPTION
PALAEOZOIC	C2a	Interbedded volcanoclastic and volcanic rocks, typically quartz-feldspar-phyllic (C2a).
	C2b	Mainly volcanoclastic conglomerate and sandstone with minor mudstone, quartz-rich matrix. Sparse quartzite clasts in places (C2b).
	C2c	Mainly volcanoclastic sandstone and breccia (quartz-feldspar +/- pyroxene-schist), with minor vitric ash, conglomerate, sandstone and siltstone. Lyncford Member or Lower Lynch Group (C2c).
	C2d	Feldspar-phyllic volcanic and volcanoclastic rocks undifferentiated (C2d).
	C2e	Upper sequence of mainly andesitic volcanoclastic and volcanic rocks, including quartz-mica breccia units, sandstone, siltstone, lava and lava breccia and minor intrusives. Lavae typically feldspar-pyroxene +/- hornblende-phyllic (C2e).
	C2f	Andesitic to basaltic intrusives bodies with minor extrusive and clastic units, including feldspar-hornblende-pyroxene-phyllic and feldspar-pyroxene-phyllic types and small chlorite-altered dikes (C2f).
	C2g	Mainly felsic volcanoclastic and pyroclastic rocks, dominantly feldspar-phyllic, including jasper-bearing units, minor ash and sandstone (C2g).
	C2h	Mainly felsic +/- quartz-phyllic lavas and possible intrusives, commonly with spherulitic groundmass. Columnar jointing in some areas (C2h).
	C2i	Units of bedded siltstone, sandstone and volcanoclastic breccia (C2i).
	C2j	Dark green, chlorite-rich mafic to intermediate agglomerate with abundant basaltic clasts (C2j).
PALAEOZOIC	C2k	Mixed sequence of bedded volcanoclastic sandstone, siltstone, mudstone and breccia typically quartz-feldspar-bearing, with some andesitic lavas and intrusives (C2k).
	C2l	Quartz-feldspar +/- biotite porphyry, mostly intrusive but may be partly extrusive (C2l).
	C2m	Andesitic to basaltic lavas, breccias and intrusives, mostly feldspar-pyroxene-phyllic of Lynch Creek area (Lynch Creek Basalt) (C2m).
	C2n	Crystal-rich (quartz-feldspar) tuffaceous sandstone (C2n), and volcanoclastic breccia (C2n).
	C2o	Well bedded micaceous quartzitic sandstone and grey-black mudstone (Miers Ridge Sandstone) (C2o).
	C2p	
	C2q	
	C2r	
	C2s	
	C2t	

PERIODE	UNIT	DESCRIPTION
PALAEOZOIC	E2a	Lithologically undifferentiated, commonly garniferous, rocks of relatively high metamorphic grade, including massive schistose quartzite and fine- to coarse-grained pelitic quartz-mica schist (E2a). Massive and schistose quartzite, fine to coarse grained, commonly containing phengite, stannite and chlorite (E2a).
	E2b	Fine- to coarse-grained, often finely banded, pelitic, garniferous quartz-mica and mica-quartz schists, commonly containing phengite, biotite, apatite, garnet and chlorite. Relatively high metamorphic grade (E2b).
	E2c	Fine-grained banded pink and white quartzite with interbedded pelitic quartz-mica phyllite (occasionally containing albite, porphyroblast, intermediate metamorphic grade (E2c)).
	E2d	Dominantly dark grey carbonaceous quartz-mica phyllite, sometimes porphyroblastic and occasionally containing albite, biotite, phengite, chlorite and minor garnet. Fine-grained quartzite frequently present, intermediate metamorphic grade (E2d).
	E2e	Lithologically undifferentiated rocks of intermediate to low metamorphic grade (garnet minor to absent), including phyllite, fine-grained quartzite and dolomitic schist (E2e).
	E2f	Dominantly grey to green carbonaceous pelitic quartz-phengite phyllite, non-garniferous and relatively low metamorphic grade (E2f).
	E2g	Interbedded fine-grained phengite quartzite, green phengite-quartz phyllite, and grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garniferous and relatively low metamorphic grade (E2g).
	E2h	Lithologically undifferentiated rocks of low metamorphic grade including non-garniferous quartzite and phyllite (E2h). Fine-grained, finely foliate, phengitic quartzite and subordinate fine-grained massive quartzite. Non-garniferous and relatively low metamorphic grade (E2h).
	E2i	
	E2j	

PERIODE	UNIT	DESCRIPTION
PALAEOZOIC	I2a	Quartz-feldspar +/- biotite porphyry, mostly intrusive but may be partly extrusive (I2a).
	I2b	Quartz-feldspar-biotite-porphyry - mainly intrusive but may be partly extrusive (I2b).
	I2c	Feldspar-quartz-pyroxene porphyry (I2c).
	I2d	Feldspar-pyroxene-hornblende porphyry (I2d).
	I2e	Mainly feldspar-phyllic lava and intrusives (I2e).
	I2f	Andesitic lavas and intrusives (I2f).
	I2g	Andesitic to basaltic lavas and intrusives of Lynch Creek area (Lynch Creek Basalt) (I2g).
	I2h	Basaltic dykes, typically chlorite-altered, including tholeiitic dolerites at Dorset Creek (I2h).
	I2i	Amphibolite bodies (I2i).
	I2j	

PERIODE	UNIT	DESCRIPTION
PALAEOZOIC	A2a	Pyritic schist, typically with sericite +/- chlorite +/- quartz (A2a).
	A2b	Sericitic schist, typically developed from felsic volcanic rocks (A2b).

In some areas lake fill is shown by water level line only, with previously mapped geology indicated. Some previously mapped structural and mineralisation sites are shown on top of subsequent lake fill.

Geological boundary - position accurate or approximate  
 Transitional geological boundary - position approximate  
 Marape Ridge Crests  
 Fault - unspecified type, position accurate or approximate  
 Fault - unspecified type, inferred  
 Fault - unspecified type, concealed  
 Thrust fault - position accurate or approximate, teeth on upper plate  
 Axial surface trace of major antiform  
 Axial surface trace of major synform

Geological boundary - position accurate or approximate  
 Transitional geological boundary - position approximate  
 Marape Ridge Crests  
 Fault - unspecified type, position accurate or approximate  
 Fault - unspecified type, inferred  
 Fault - unspecified type, concealed  
 Thrust fault - position accurate or approximate, teeth on upper plate  
 Axial surface trace of major antiform  
 Axial surface trace of major synform

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 Map produced by the Data Management Branch of Mineral Resources Tasmania using GIS software.  
 AOD64 - AMG Zone 55. Contour Interval: 20 metres.  
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