

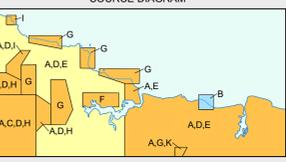
PERIOD	UNIT	DESCRIPTION	
CENOZOIC	QUATERNARY	Qhnm	Undifferentiated Quaternary sediments (Q). Sand gravel and mud of alluvial facies and littoral origin (Qh). Man made deposits (Qhnm); including man disturbed ground (Qhm).
		Qhbd	Beach sand, sand dunes and beach gravel (Qhbd).
		Qh	Predominantly estuarine mud (Qh).
		Qhc	Colluvium (Qhc).
		Qhwr	Sand of stabilised longitudinal beach ridges (Qhwr).
	PLEISTOCENE	Qha	Stream alluvium, swamp and marsh deposits (Qha).
		Qdt	Landslide deposits predominantly derived from weathered Palaeogene - Neogene rocks (Qdt).
		Qpsa	Older stabilised aeolian sand of coastal plain (Qpsa).
		Qpb	Talus (Qpb); basalt talus (Qpbt); talus derived from chert (Qpct); quartz sandstone and conglomerate talus derived from Devon Group corallites (Qpdc).
		Qpso	Older alluvium of river terraces (Qpso).
PALEOCENE - NEOGENE	TQss	Dominantly sand, clayey sand and sandy clay and subordinate clay and gravel of probable mixed alluvial and aeolian origin (TQss).	
	Tlb	Laterite derived from Palaeogene - Neogene Basalt (Tlb).	
	Tbw	Predominantly deeply-weathered basalt (Tbw).	
	Tb	Basalt (Tb), including local occurrences of hawaiite (Tbh).	
	Tsqm	Terrestrial sand, gravel and minor lacustrine deposits (Tsqm); silicified zones (Tsqm).	
PALEOZOIC	Os	Grey poorly sorted fine-grained sandstone, commonly bioturbated (correlates of Mona Sandstone) (Os).	
	OCob	Pebble-cobble silicified conglomerate and coarse-grained sandstone with abundant quartzite and chert clasts (Duncan Conglomerate) (OCob).	

PERIOD	UNIT	DESCRIPTION	
MESOZOIC	Cdsv	Gray to green massive to bedded wacke, pebble conglomerate and laminated siltstone, with clasts of quartzite and chert. (Undifferentiated) Tynall Group and Western Volcano-Sedimentary Sequence. Previously mapped as Calvea Group (Cdv).	
	Cdsvm	Large blocks of chert, quartzite, basalt, limestone, siltstone, mudstone and Jasper in a matrix of siltstone, mudstone and conglomerate. (Bleedcraft and Tea Tree Point Megacrystics) (Cdsvm).	
	Cdsvk	Interbedded silty volcanoclastic siltstone, greywacke and siltstone, pumiceous volcanoclastic sediments and dacite-andesite lavas and intrusives (Cdsvk).	
PROTEROZOIC	Ccob	Followed to massive fine-to medium-grained augite bearing tholeiitic basalt with intercalated volcanoclastic sandstone and conglomerate, mudstone and chert bearing blocks (Mottit Spillit) (Ccob).	
	Ccac	Pale to dark grey or black, distinctly bedded and plane laminated to massive or brecciated chert, with minor red and grey siliceous hematitic mudstone and siltstone (Barrington Chert) (Ccac).	
	Ba	Fault breccia with blocks of probable Topoi Group corallites including lithic conglomerate, sandstone, mudstone, chert, dolomite, dolomitic diamictite and limestone, in a sheared mudstone matrix with spaly fabric (Ba).	
	Po	Quartzite turbidite sequence of sandstone, siltstone and well bedded black slaty mudstone (Burnie Formation) (Po).	
	Ptb	Dominantly schistose conglomerate (Dart Island Conglomerate and correlates) (Ptb).	
	Pts	Dominantly quartzite (Pts).	
	Ptp	Quartz-chlorite-muscovite schist (Ptp).	
	Ptpg	Quartz-muscovite-garnet schist (Ptpg).	

UNIT	DESCRIPTION
Cob	Massive plagioclase-hornblende phric dioritic andesitic and dacitic intrusives. U-Pb SHRIMP age of igneous zircon = 502 ± 3.5 Ma at 420813mE, 5442151mS. (Lobster Creek Intrusives) (Cob).
Cs	Serpentine (Cs).
Pta	Amphibolite (Pta).

CONTACTS	FAULTS	LINEARS
Geological contact.	Fault.	Linear surface trace of major later system.
Geological contact - inferred.	Fault - inferred.	Trend of relic beach ridge related to regressive strandline of Last Interglacial Stage.
Limit of mapping of sub-unit within undifferentiated rock unit.	Fault - concealed.	Trend of older stabilised Holocene beach ridge.
Limit of detailed mapping.	Thrust fault (beach on upper plate).	
	Thrust fault (beach on upper plate) - inferred.	
	Thrust fault (beach on upper plate) - concealed.	

SYMBOL	DESCRIPTION
↘	Strike and dip of bedding, right way up; overturned.
↙	Strike and dip of bedding, facing unknown; vertical.
↕	Strike and dip of compositional layering.
↗	Strike and dip of cleavage of unspecified type and relative age; vertical.
↘	Strike and dip of cleavage, relative local age S1.
↙	Strike and dip of crenulation cleavage.
↗	Strike and dip of metamorphic foliation other than cleavage - dipping; vertical.
↘	Strike and dip of metamorphic foliation other than cleavage - dipping; vertical.
↙	Trend and plunge of minor fold hinge line; unspecified relative local age; with vertical axial surface.
↗	Trend and plunge of minor fold hinge line; relative local age F1; F2.
↘	Trend and plunge of hinge line of reclined minor F1 fold.
↙	Trend and plunge of minor fold hinge line, relative local age F2; with vertical axial surface.
↗	Trend and plunge of minor fold hinge line, unspecified relative age, with dip direction of axial surface, vergence dextral; vergence sinistral.
↘	Trend and plunge of hinge line of reclined minor fold, unspecified relative age.
•	Field station for adjacent readings on the map.
•	Notable small outcrop with rock unit indicated.
⊙	Macrofossil location.
⊙	Mineral deposit location - hardrock.
⊙	Mineral deposit location - alluvial/alluvial.
⊙	Construction material/industrial mineral/gemstone location.



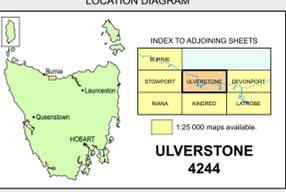
- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg. 1:25 000 map or equivalent detail).
- Regional systematic (eg. 1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by M.J. Vicary, B.Sc.(Hons), Ph.D., 2004 as part of the Western Tasmania Regional Minerals Program from the following sources (see source diagram):

- BURNS, K.L., 1963. Geological Atlas 1 Mile Series, Zone 7 Sheet 29 (DST1) and D1, Devonport, Tasmania Department of Mines.
- HERRMANN, W., 1993. Notes on a geological reconnaissance of the Dial Range - EL 91992, Appendix B in FitzGerald, F.G., 1993. EL 91992 Dial Range Annual Report June 1992 - June 1993. Unpublished Report, Palminco Exploration, TCR 93-447.
- CHAWFORD, A.J., 1998. Summary and implications of petrographic work on Palminco Dial Range EL 91992, Appendix C in FitzGerald, F.G., 1993. EL 91992 Dial Range Annual Report June 1992 - June 1993. Unpublished Report, Palminco Exploration, TCR 93-3447.
- SPROULE, R.A., 1994. Stratigraphy and Geochemistry of the Dial Range Trough, NW Tasmania. B.Sc.(Hons) thesis, University of Tasmania.
- J.L. Everard, unpublished data.
- WILSON, P.A., 1982. Annual Report EL 241973 Dial Range, 1980 Field Season. Unpublished Report, Geoplace Limited, TCR 82-1875.
- VICARY, M.J., 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05. Mineral Resources Tasmania.

Updated by:

- E.C.R. Calver 2005. Field checking and revision of geology as part of the Northwest Landline Project.
- F.D.B. Seymour 2005-2007. Field work.
- G.D.B. Seymour 2007. 1:25 000 scale geological mapping.
- H.J.L. Everard 2007. 1:25 000 scale geological mapping.
- I.C.R. Calver 2007. 1:25 000 scale geological mapping.
- J.D.C. Green 2007. 1:25 000 scale geological mapping.
- K.LEWIS, R., 1991. Structure and metamorphic petrology of the Fort Metamorphic Complex. B.Sc.(Hons) thesis, University of Tasmania.



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2008. Digital Geological Atlas 1:25 000 Scale Series. Sheet 4244
Ulverstone, Mineral Resources Tasmania.

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Mineral Resources Tasmania.
Website: www.mrt.tas.gov.au

GD494 - MGA Zone 55. Contour Interval: 20 metres.

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