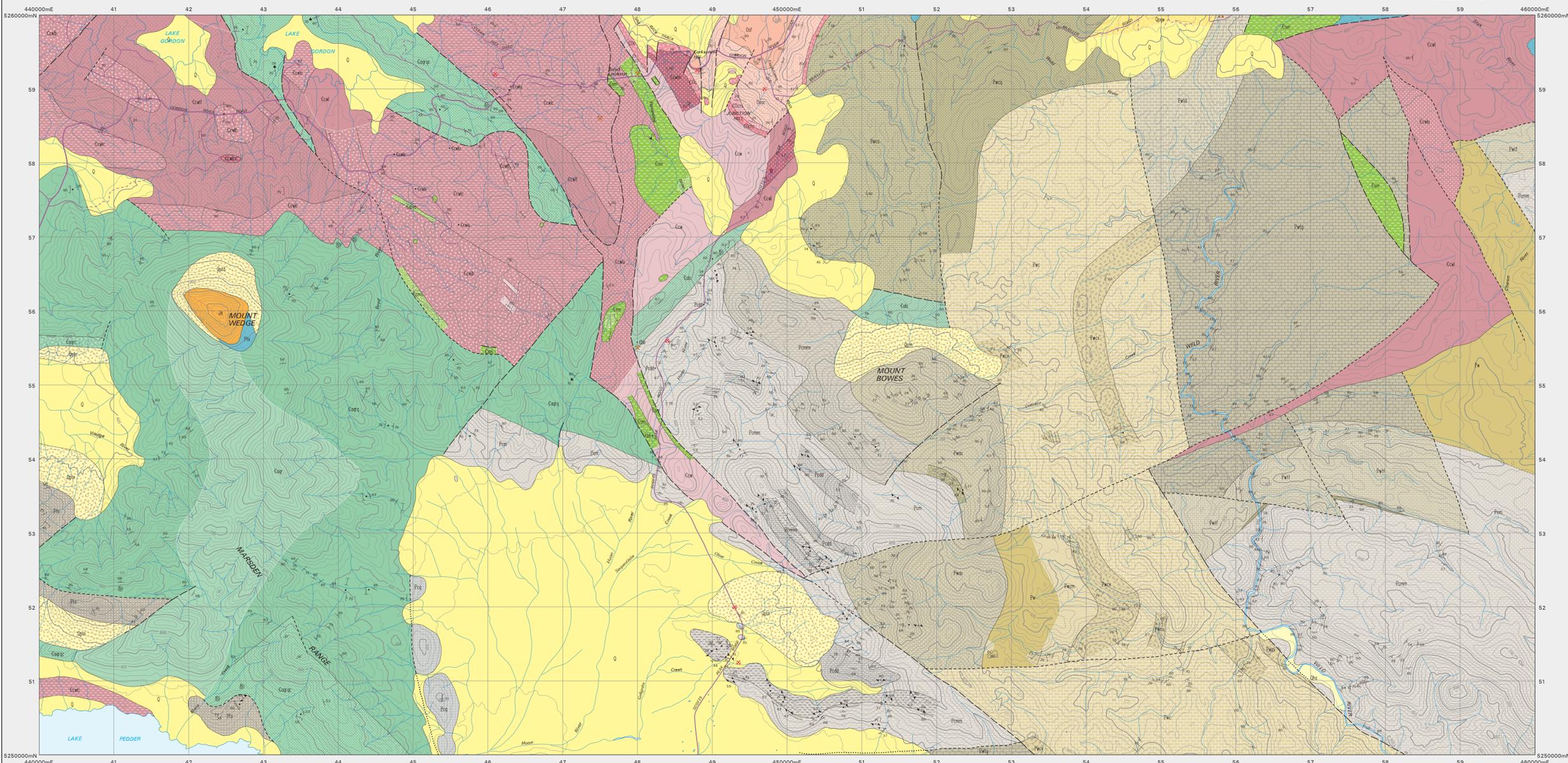
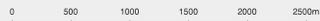


# BOWES

Scale: 1:25 000



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525000mN 440000mE 41 42 43 44 45 46 47 48 49 450000mE 51 52 53 54 55 56 57 58 59 460000mE

PERIOD	GROUP	UNIT	DESCRIPTION	
CAMBROIC	QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).	
		Q	Talus consisting dominantly of dolerite boulders (Qdt), Proterozoic orthoquartzite (Qpr), siliceous conglomerate (Qsp).	
		Qspw	Marine and associated deposits (Qspw), weathered till (Qspw).	
	EARLY CAMBRIAN - PERMIAN	Ptx	Low angle unconformity Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminite, upper unit of Moydena Range of interbedded pebble to boulder grade conglomerate, diamictite and sandstone with some shell fossils (correlate of 'Iruo' tillite) (Ptx).	
		Ost	Siltstone and calcareous shale (Florentine Valley Formation) (Ost). Angular unconformity.	
	LATE CAMBRIAN - ORDOVICIAN	Osc	Upper marine shallow-water quartz sandstone with abundant worm casts, minor basal conglomerate against older basement (Squirrel Creek Formation) (Osc).	
		COcr	Interbedded cross-bedded quartz sandstone, pebbly sandstone and siliceous well-sorted pebble conglomerate (COcr).	
		COcr	Terrestrial shallow-water thickly-bedded siliceous-cobble conglomerate (COcr).	
	PALAEOZOIC	MIDDLE CAMBRIAN	Coqr	Quartzite, lithic-wacke with predominantly metasedimentary and minor chert grains, and interbedded grey-green mudstone and fossiliferous siltstone (Coqr), subordinate pebble conglomerate (Coqr) within unit Coqr.
			Coqr	Well-sorted, granule- to boulder-conglomerate with predominantly siliceous metasedimentary, and interbedded fine- to coarse-grained sandstone, siliceous wacke and siltstone with fossils (Coqr).
EARLY CAMBRIAN		Ccsw	Quartz-rich lithic sandstone and minor conglomerate of metamorphic, volcanic and dolomitic provenance, and mudstone (Ccsw).	
		Ccsw	Inferred angular unconformity on Cc; angular unconformity on Pw, Pz. Micaceous lithic sandstone of metamorphic and volcanic provenance, mudstone, red mudstone and minor chert (Ccw). Scattered ultramafic outcrops within unit Ccw (Ccw).	
TEARBY CAMBRIAN	Ccsw	Felspathic wacke with common, very-coarse grains of muscovite and grains of garnet and zircon, interbedded with grey-green mudstone and minor felspathic wacke, red mudstone, chert and fine-grained, basic igneous rock (Ccsw).		
	Ccsw	Felspathic wacke with common chert interlayers (Ccsw). Some chert layers indicated (Ccsw).		
	Ccsw	Predominantly interlayered red mudstone, chert, basaltic tuff and basalt. Small dolerite bodies present (Ccw). Minor interbedded carbonate layers (Ccw).		
MESO- PROTEROZOIC	BAGESSE BASIN COMPLEX CORRELATE OF CLEVELAND-WARRANT ASSOCIATION	Pts	Lithic-wacke with abundant grains of chert interbedded with grey-green mudstone, minor chert and lithic conglomerate (Ccw), possible dolomite of white quartz arenite and chert bearing pebbly quartz arenite (Ccw).	
		Pts	Lithic-wacke with abundant grains of chert interbedded with grey-green mudstone, minor chert and lithic conglomerate (Ccw), possible dolomite of white quartz arenite and chert bearing pebbly quartz arenite (Ccw).	

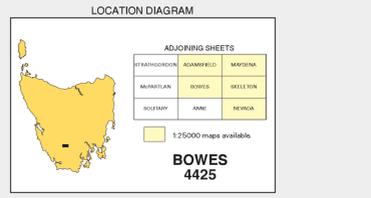
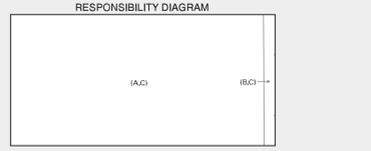
PERIOD	GROUP	UNIT	DESCRIPTION
PROTEROZOIC	WELLS RIVER GROUP	Ewsc	Dominantly fine-grained dolomite, diamictite and mudstone (correlate of Cotacosee Creek Formation) (Ewsc). Massive fine-grained dolomite with micrite, tabular sandstone, mudstone and chert (Pwsc).
		Ewsc	As Pwsc but interlayered with quartz sandstone (Pwsc).
		Ewcm	Dominantly block mudstone and quartz sandstone (Ewcm).
		Ewcm	Dominantly block dolomitic diamictite (Ewcm).
		Ewid	Dominantly massive, fine-grained dolomite (Ewid).
		Ewid	Dominantly bedded oolitic dolostone (Ewid).
		Ewid	Dominantly fine-grained dolomite (Ewid).
		Ewam	Dominantly red mudstone (Ewam).
		Ewam	Quartz sandstone with minor well-sorted siliceous conglomerate, interbedded with red quartz siltstone and mudstone with desiccation cracks in places (Pwsc), where dominantly conglomerate (Pwsc) (Ewam, Pwsc, Pwsc-correlates of Anakananda Formation).
		Ewam	Low angle unconformity.
MESO- PROTEROZOIC	CLARK GROUP	Fcm	Dominantly mudstone and quartz siltstone (Fcm). Massive red mudstone (Fcm).
		Fcd	Fine-grained, impure dolomite (Fcd).
		Fcm	Red or variegated, interbedded siltstone and mudstone (Fcm).
		Fcm	Orthoquartzite, as thin (>30m) impersistent units in dominantly mudstone sequence (Fcm).
		Fcm	Orthoquartzite (including Needles Quartzite and correlates) (Fcm).

PERIOD	GROUP	UNIT	DESCRIPTION
PALAEOZOIC - MESOZOIC	JURASSIC	Jd	Dolerite (Jd).
		Esm	Massive serpentinite (Esm).
		Esm	Serpentine with amphibole (Esm).
CAMBRIAN	ALLOCHTHONOUS SEQUENCE	Csb	Local occurrence of basaltic lava (Csb).

SYMBOL	DESCRIPTION
↘ ↙	Strike and dip of bedding, right way up, overturned.
↘ ↙	Strike and dip of bedding, facing unknown - dipping vertical.
↘ ↙	Strike and dip of metamorphic foliation other than cleavage.
↘ ↙	Strike and dip of cleavage, type and relative age unspecified - dipping vertical.
↘ ↙	Strike of vertical cleavage, relative local age S1.
↘ ↙	Strike and dip of cleavage, relative local age S2.
↘ ↙	Strike of vertical cleavage, relative local age S2.
↘ ↙	Strike and dip of cleavage, relative local age S3.
↘ ↙	Trend and plunge of minor fold hinge line, unspecified relative age; vergence directed, vergence sinistral.
↘ ↙	Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface.
↘ ↙	Trend and plunge of minor fold hinge line, relative local age F2, with dip and dip direction of axial surface.
⊙	Macrofossil locality.
⊙	Mineral deposit location - hardrock - Data derived from Mineral Resources Tasmania (MRT) DEPOSITS data base. Data point position has not been verified in every case.
⊙	Mineral deposit location - alluvial - Data derived from Mineral Resources Tasmania (MRT) DEPOSITS data base. Data point position has not been verified in every case.
⊙	Construction materials location - Data derived from Mineral Resources Tasmania (MRT) DEPOSITS data base. Data point position has not been verified in every case.

Compiled by M.P. McClean, 2004 from the following sources (see Responsibility Diagram):  
(A) Barnes, R.J., Caher, C.R., McClean, M.P., McClean, J., Brown, A.V., Linnon, P.G., 1995, Geological Atlas 1:50 000 Series, Sheet 50 (1123) Tasdev.  
(B) Unpublished geological survey mapping C.R. Caher 1996.  
(C) Updated by M. Vicary, 2004 as part of the Western Tasmania Regional Minerals Program.

Base data from the LIST, Copyright State of Tasmania.  
Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.  
AUSIM - AMI Zone 55. Contour Interval: 20 metres.



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Data correct and plotfile generated: 09-FEB-2006