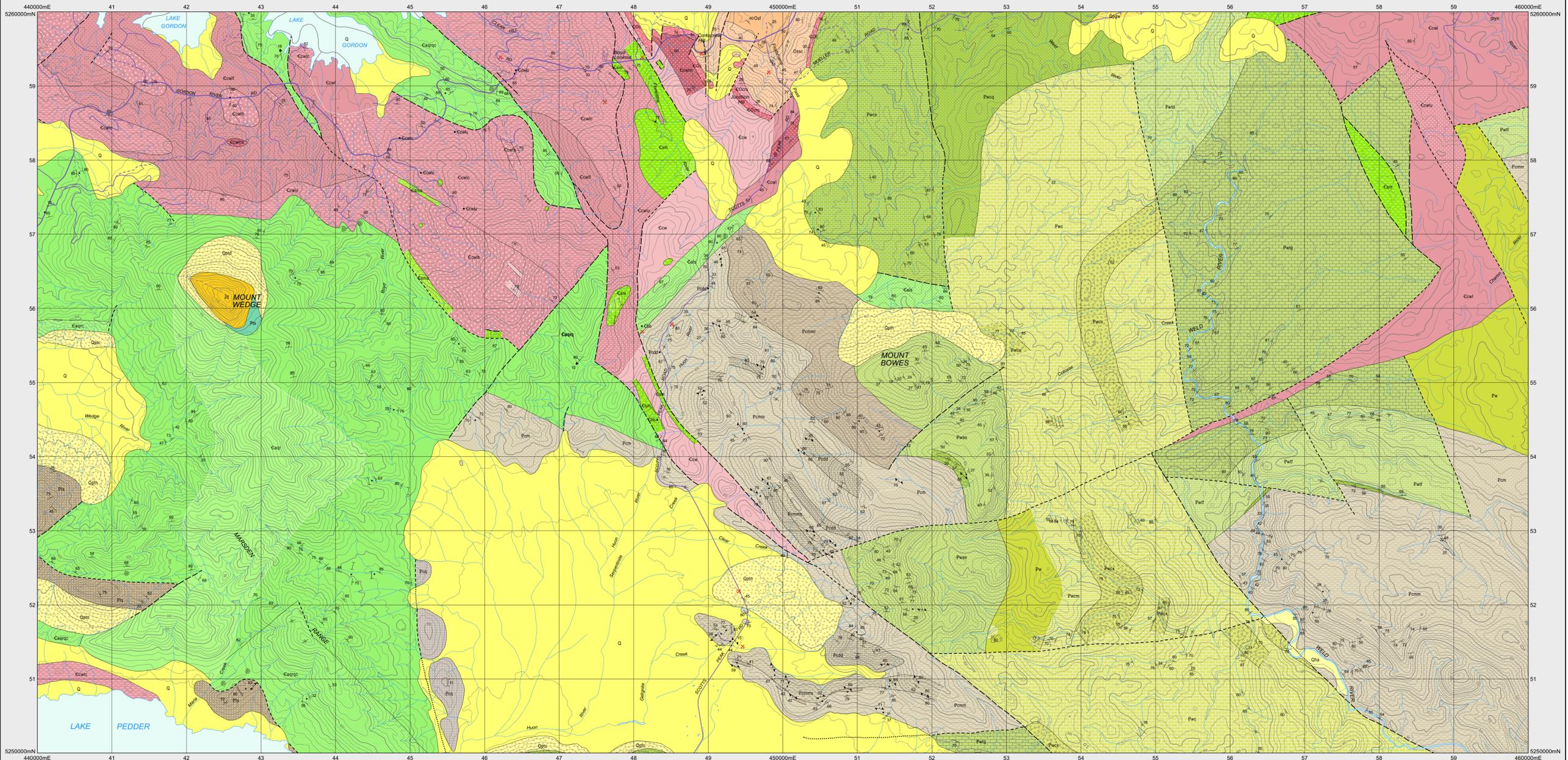


BOWES

Scale 1:25 000

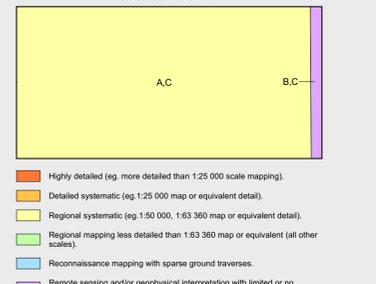


CENOZOIC	QUATERNARY	Qha	Undifferentiated Quaternary sediments (Q). Stream alluvium, swamp and marsh deposits (Qha).
		Q	Talus, till and scree of probable Pleistocene age (Qpt). Talus consisting dominantly of dolerite boulders (Qpdt), Proterozoic orthoquartzite (Qopt), siliceous conglomerate (Qoptc).
CARBONIFEROUS (TERRANEAN)	LOWER TERNAN SUPERGROUP	Ptx	Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminae upper unit at Maybena. Range of interbedded pebbly boulder grade conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).
			Low angle unconformity
CAMBRIAN (CYROGEMAN)	EDACARAN	Osfl	Siltstone and calcareous shale (Florentine Valley Formation) (Osfl).
		Osbc	Upper marine shallow-water quartz sandstone with abundant worm casts, minor basal conglomerate against older basement (Squirrel Creek Formation) (Osbc).
	FLORIDIAN	COcrs	Interbedded cross-bedded quartz sandstone pebbly sandstone and siliceous well-sorted pebble conglomerate (COcrs).
		COcra	Undifferentiated cobble conglomerate (COcra).
PALEOZOIC	CAMBRIAN SERIES 3	Caqrq	Undifferentiated quartzwacke, lithicwacke, interbedded grey-green mudstone and fossiliferous siltstone, and well sorted granite-to boulder-conglomerate (Caqr). Quartzwacke, lithicwacke with predominantly metasedimentary and minor chert grains, and interbedded grey-green mudstone and fossiliferous siltstone (Caqrq).
		Caqrc	Well-sorted, granite-to boulder-conglomerate with predominantly siliceous metasedimentary, and rare chert clasts, and interbedded fine-to coarse-grained sandstone, siliceous wacke and siltstone with fossils (Caqrc).
	CAMBRIAN SERIES 2	Ccswl	Quartz-rich lithic sandstone and minor conglomerate of metamorphic, volcanic and dioritic provenance, and mudstone (Ccsw).
		Ccswb	Inferred angular unconformity on Cc; angular unconformity on Ew, Etc.
TERRANEAN	CAMBRIAN	Ccswl	Mafic volcanoclastic sandstone-siltstone-mudstone-chert; minor carbonate sequences with interbedded thalassic basalt flows. Considered allochthonous (Csw). Micaceous lithic sandstone of metamorphic and volcanic provenance, mudstone, red mudstone and minor chert (Csw). Scattered ultramafic outcrops within unit Ccswl (Cswl).
		Ccswb	Feldspathic wacke with common, very-coarse grains of muscovite and grains of garnet and biotite interlayered with grey-green mudstone and minor feldspathic wacke, red mudstone, chert and fine-grained, basic igneous rock (Cswb).
	TERRANEAN BASIN COMPLEX CORRELATE OF LUNINGROUP	Ccswb	Feldspathic wacke with common chert interlayers (Ccswb). Some chert layers indicated (Cswb).
		Ccswb	Predominantly interlayered red mudstone, chert, basaltic tuff and basalt. Small dolerite bodies present (Ccswb). Minor interbedded carbonate layers (Cswb).
		Ccswb	Lithicwacke with abundant grains of chert interbedded with grey-green mudstone, minor chert and lithic conglomerate (Cswb). Possible siltstone of white quartz, arenite and chert bearing pebbly quartz arenite (Cswb).

NEOPROTEROZOIC	CYROGEMAN, EDACARAN	Pwccs	Undifferentiated Weld River Group rocks and correlates (Pw). Dominantly fine-grained dolostone, diamictite and mudstone (correlate of Calicase Creek Formation) (Pwc). Massive fine-grained dolomite with micrite, labile sandstone, mudstone and chert (Pwccs).
		Pwccq	As Pwccs but interlayered with quartz sandstone (Pwccq).
		Pwccm	Dominantly black mudstone and quartz sandstone (Pwccm).
		Pwccx	Dominantly black dolomitic diamictite (Pwccx).
WELD RIVER GROUP		Pwtdl	Dominantly massive, fine-grained dolostone (Pwtdl).
		Pwtgl	Dominantly bedded oolitic dolostone (Pwtgl).
		Pwtrf	Dominantly fine-grained dolostone (Pwtrf).
		Pwrm	Dominantly red mudstone (Pwrm).
CLARK GROUP		Pcm	Mudstone, siltstone and minor dolostone (undifferentiated Humboldt Formation) (Pcm). Dominantly mudstone and quartz siltstone (Pcm). Massive red mudstone (Pcmr).
		Pcdd	Fine-grained, impure dolomite (Pcdd).
		Pcm	Dominantly mudstone and quartz siltstone (Pcm).
		Pcmms	Red or variegated, interlaminate siltstone and mudstone (Pcmms).
MESOPROTEROZOIC	TERRANEAN	Ppcq	Orthoquartzite, as thin (>30m) impersistent units in dominantly mudstone sequence (Ppcq).
		Ppcq	Orthoquartzite (including Needles Quartzite and correlates) (Ppcq).
		Pps	Dominantly quartzite (Pps).
		Ptpic	Light green-grey quartz-mica and mica-quartz phyllite with minor carbonate (Ptpic).

PALEOZOIC MESOZOIC	CAMBRIAN JURASSIC	Jd	Dolerite (Jd).
		Csm	Massive serpentinite (Csm).
		Cams	Serpentinite with amphibole (Cams).
		Cbb	Local occurrence of boninitic lava (Cbb).

CONTACTS	Geological contact	Strike and dip of bedding, right way up; overturned.
	Limit of mapping of sub-unit within undifferentiated rock unit.	Strike and dip of bedding, facing unknown - dipping; vertical.
	Limit of detailed mapping.	Strike and dip of metamorphic foliation other than cleavage.
FAULTS	Fault - inferred.	Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.
	Fault - concealed.	Strike of vertical cleavage, relative local age S ₁ .
		Strike and dip of cleavage, relative local age S ₂ .
		Strike of vertical cleavage, relative local age S ₃ .
		Strike and dip of cleavage, relative local age S ₄ .
		Strike and dip of cleavage, relative local age S ₅ .
		Trend and plunge of minor fold hinge line, unspecified relative age; vergence dorsal; 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 F ₂ with dip and dip direction of axial surface.
		Field station for adjacent readings on the map.
		Notable small outcrop with rock unit indicated.
		Macrofossil location.
		Mineral deposit location - hardrock.
		Construction material/industrial mineral/gemstone location.



Compiled by M.P. McClenaghan, B.Sc.(Hons), Ph.D., 2004 from the following sources (see source diagram):
A. Turner, N.J., Calver, C.R., McClenaghan, M.P., McClenaghan, J., Brown, A.V., Lennox, P.G., 1985. Geological Atlas 1:50 000 Series, Sheet 60 (B1125), Poedter.
B. Unpublished geological survey mapping C.R. Calver 1996.
Updated by:
C. M. Vicary 2004 as part of the Western Tasmanian Regional Minerals Program.

REFERENCE THIS MAP AS:
MCCLENAGHAN, M.P. 2004 (Compiler) Digital Geological Atlas 1:25 000 Scale Series, Sheet 4425 Bowes, Mineral Resources Tasmania.
Base data from the LIST, Copyright State of Tasmania.
Map produced by Spatial Information Services, Mineral Resources Tasmania.
Website: www.mrt.tas.gov.au
GDSM - MGA Zone 55. Contour Interval: 20 metres.

