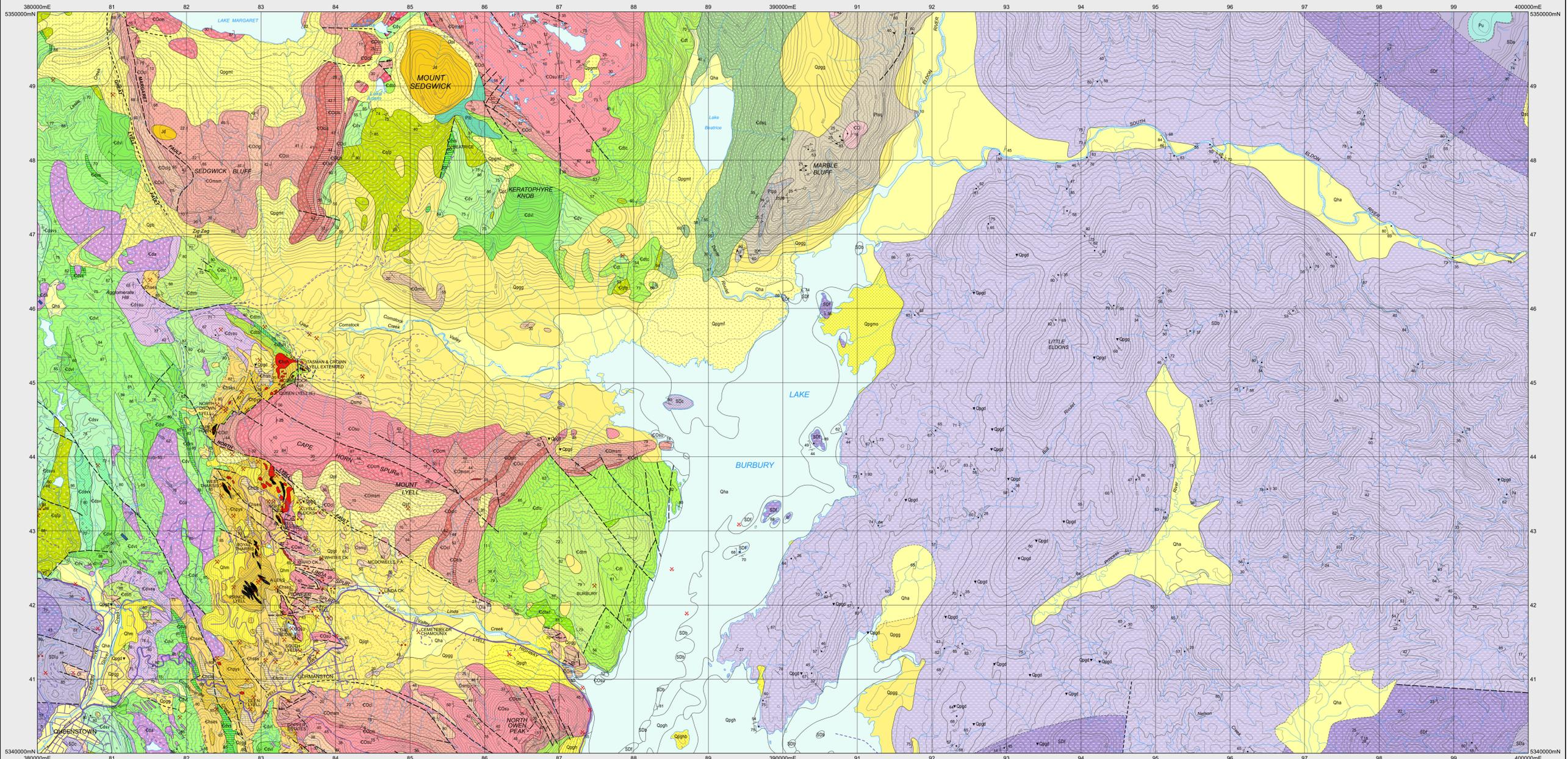


GORMANSTON

Scale 1:25 000



HOLOCENE	Qhm	Man-made deposits including mine dumps and disturbed ground (Qhm).
	Qha	Alluvium, swamp and marsh deposits. May include older alluvial deposits (Qha).
	Qpt	Talus, scree and colluvial deposits (Qpt).
	Qpd	Talus, scree and associated colluvium, derived from Jurassic dolerite (Qpd).
	Qpb	Bouldery slope and fan deposits, commonly with leveed channels; probably partly of glacial origin (Qpb).
QUATERNARY	Qp	Undifferentiated Pleistocene glacial deposits (Qp).
	Qp1	Isolated occurrences of dolerite and Precambrian derived erratics (Qp1 and Qp2).
	Qp2	Mainly till deposits - unweathered or slightly weathered (Qp2). Deposits of Margaret Glaciation (13 000 - 100 000 ybp).
	Qp3	Outwash deposits of Dante Rivulet fan (Qp3). Deposits of Margaret Glaciation (13 000 - 100 000 ybp).
	Qp4	Outwash gravel with rare fills of 'Chamouille terrace' (Qp4). Deposits of Margaret Glaciation (13 000 - 100 000 ybp).
	Qp5	Weathered till and outwash gravel of Henty Glaciation (Qp5), including Bull Rivulet Formation (Qp5b). Deposits of Henty Glaciation (> 130 000 ybp).
	Qp6	Deeply weathered till, outwash gravel and lacustrine sediments. Reversed magnetic polarity indicate age > 730 000 ybp (Qp6). Deposits of Lido Glaciation (> 730 000 ybp).
	Qp7	Pre-glacial alluvial deposits with preserved tree trunks at 363 863m, 5 342 230m (15).
PALEOZOIC	Pu	Undifferentiated Permian sequences (Pu).
	Pib	Undifferentiated lower glauconitic siltstone and sandstone (correlates of Golden Valley Group, Quamy Mudstone and basal tillite) (Pib).

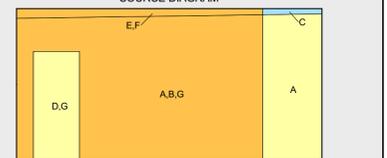
PALEOZOIC	SILURIAN DEVONIAN	Sdb	Mudstone, siltstone, minor fine-grained sandstone and rare limestone (correlates of Bell Formation) (Sdb).
		Sdf	Fine-grained quartz sandstone with minor siltstone and mudstone (correlates of Florence Formation) (Sdf).
		Sda	Undifferentiated sandstone-mudstone-limestone sequence (correlates of Crofty and Amber Formations) (Sda). Mainly mudstone and siltstone with minor sandstone and rare limestone (correlates of Amber Formation) (Sda).
		Sdi	Fine-grained quartz sandstone with minor siltstone and rare limestone (correlates of Amber Formation) (Sdi).
		Sdc	Fine to coarse-grained quartz-rich sandstone, calcareous sandstone and minor mudstone (correlates of Crofty Formation) (Sdc).
	ORDOVICIAN	Oa	Mainly siltstone and fine-grained sandstone (Oa).
		Oi	Mainly limestone, commonly decomposed to black clay 'tug' (Oi).
		Osp	Undifferentiated shallow marine - non-marine siliciclastic conglomerate - sandstone sequence (CO). Grey to pink quartz sandstone with basal pebble-granule conglomerate. Trace fossils and chert common in upper part (Owen Beds and correlative) (Osp).
		Osp1	Thin-bedded quartz sandstone, commonly bioturbated, with interbedded siltstone and minor granule-peat conglomerate. Chert clasts common in conglomerate beds in Mt Lyell mines area (Upper Owen Sandstone and correlative) (CO1).
		COsu	Mainly pale pink to cream coloured, thick-bedded pebble-cobble to cobble-boulder quartz conglomerate, with minor quartz sandstone and some partly siliciclastic sandstone in some areas (Middle Owen Conglomerate and correlative) (COsu).
		COsm	Mainly thin-bedded pink quartzitic sandstone and pebbly sandstone with bands of pebble conglomerate, minor siltstone (Middle Owen Sandstone) (COsm).
		COms	Mainly grey thin-bedded sandstone and siltstone with minor pebble conglomerate. Marine fossils in places (Newton Creek Sandstone and correlative) (COms).
		CO	Hematite body, commonly developed at schist-Owen contact (CO).
		COc	Mainly whitish-grey to pale pink pebble-cobble to cobble-boulder conglomerate with pebbly sandstone, minor siltstone and volcaniclastic (Lower Owen Conglomerate and correlative) (COc).
		COdb	Grey pebble-cobble conglomerate and sandstone (COdb).
		COds	Thick-bedded to massive cobble-boulder conglomerate units. Erosional unconformity at base in some areas (COds).
		COdl	Thin-bedded grey-green siltstone and micaceous sandstone, grading laterally to pink thin-bedded sandstone (COdl).
		COdv	Volcaniclastic conglomerate and breccia and minor sandstone, usually locally developed at contact with volcanic rocks. (Correlates of Jukes Conglomerate) (COdv).

PALEOZOIC	CAMBRIAN	SERIES 3	Cd1	Interbedded volcaniclastic and volcanic rocks, typically quartz-feldspar-phryic (Cd1).
			Cd2	Mainly volcaniclastic conglomerate and sandstone with minor mudstone. Quartz-rich matrix. Sparse quartzite in places (Cd2).
			Cd3	Welded tuff, typically quartz-feldspar-phryic (Cd3).
			Cd4	Mainly crystal-rich volcaniclastic sandstone (quartz-feldspar ± pyroxene-phryic) and breccia, typically banded pink and green, with minor siltstone and conglomerate (Mt Julia Member or Middle Tyndall Group) (Cd4).
			Cd5	Bedded sandstone-siltstone units (Cd5).
			Cd6	Andesite lava and breccia (Cd6).
			Cd7	Mainly volcaniclastic breccia and sandstone with local lenses of limestone and massive sulphide (Lynchford Member or Lower Tyndall Group) (Cd7).
			Cd8	Feldspar-phryic volcanic and volcaniclastic rocks undifferentiated (Cd8).
			Cd9	Upper sequence of mainly andesitic volcaniclastic and volcanic rocks, including mass-flow breccia units, sandstone, siltstone, lava and lava breccia, and minor intrusive rocks (Cd9).
			Cd10	Andesitic to basaltic volcanic and intrusive rocks (Cd10).
			Cd11	Mainly felsic volcaniclastic and pyroclastic rocks, dominantly feldspar-phryic, including pumice-bearing units, minor shale and sandstone (Cd11).
			Cd12	Mainly feldspar ± quartz-phryic lavas and possible intrusives, massive to flow-banded or subvolcanic, with rare columnar jointing (Cd12).
			Cd13	Bedded siltstone-sandstone units (Cd13).
			Cd14	Well-bedded grey siliciclastic sandstone with interbedded siltstone and limestone-peat conglomerate. Trace fossils in some beds (Storr Range Beds) (Cd14).
			Cd15	Mixed sequence of bedded volcaniclastic sandstone, siltstone, mudstone and breccia, typically quartz-feldspar-bearing, with some andesitic lavas and intrusives (Cd15).
			Cd16	Quartz-feldspar ± biotite porphyry, mainly intrusive but may be partly extrusive (Cd16).
			Cd17	Andesitic to basaltic volcanic and intrusive rocks (Cd17).
			Cd18	Crystal-rich (quartz-feldspar) tuffaceous sandstone (Cd18).
			Cd19	Units of bedded siltstone-sandstone + siltstone (Cd19).

PALEOZOIC	CAMBRIAN	SERIES 2	Ch1	Charactolic bodies, typically formed by hydrothermal replacement of volcanic rocks (Ch1).
			Ch2	Pyritic schist, typically with sericite ± chlorite ± quartz (Ch2).
			Ch3	Sericitic schist (Ch3).
			Ch4	Chloritic schist, commonly after andesitic rocks (Ch4).
			Ch5	Hematite body, commonly with barite (Ch5).
			Ch6	Metallic ore body, projected to surface in some cases, mined out in some cases (Ch6).

INTRUSIVE ROCKS	Jd	Dolerite (Jd).
	Di	Lampophyre dyke with trend indicated (Di).
ALTERATION AND MINERALISATION	Cdvi	Mainly feldspar-phryic lavas and intrusives of acidic to rhyolitic composition (Cdvi).
	Cdva	Andesitic to basaltic volcanic and intrusive rocks (Cdva).
	Cdvp	Quartz-feldspar ± biotite porphyry, mainly intrusive but may be partly extrusive (Cdvp).

CONTACTS	Geological contact.
	Geological contact - inferred.
FAULTS	Fault.
	Fault - inferred.
	Fault - concealed.
LINEARS	Axial surface trace of major antiform.
	Axial surface trace of major synform.
	Moraine ridge crest.



Compiled by D.C. Green, B.Sc (Hons), Ph.D and J.L. Everard, B.Sc (Hons), 1997 from the following sources (see source diagram):
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B CORBETT, K.D., CALVER, C.R., EVERARD, J.L. and SEYMOUR, D.B. 1989. Geological Atlas 1:25 000 Series, Queenstown, Department of Mines, Tasmania.
C REID, K.O. 1964. Geology of the Princess River area. B.Sc. Hons. thesis, University of Tasmania.
D CORBETT, K.D. 2001. The geology of the Mount Lyell Mines area, Tasmania - a reinterpretation based on studies at Lyell, Cornstalk, North Lyell and the Iron Blow area. M.Sc. Thesis, University of Tasmania.
E CORBETT, K.D. and JACKSON, J.C. 1987. Geology of the Tyndall Range area. Map 5. Mt Read Volcanics Project, Department of Mines, Tasmania.
F CORBETT, K.D. and MCNEILL, A.W. 1988. Geological Compilation Map of the Mt Read Volcanics, Heltyer to South Darwin Peak. Map 6. Mt Read Volcanics Project, Department of Mines, Tasmania.
Updated by:
G CORBETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics belt in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

