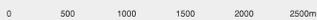
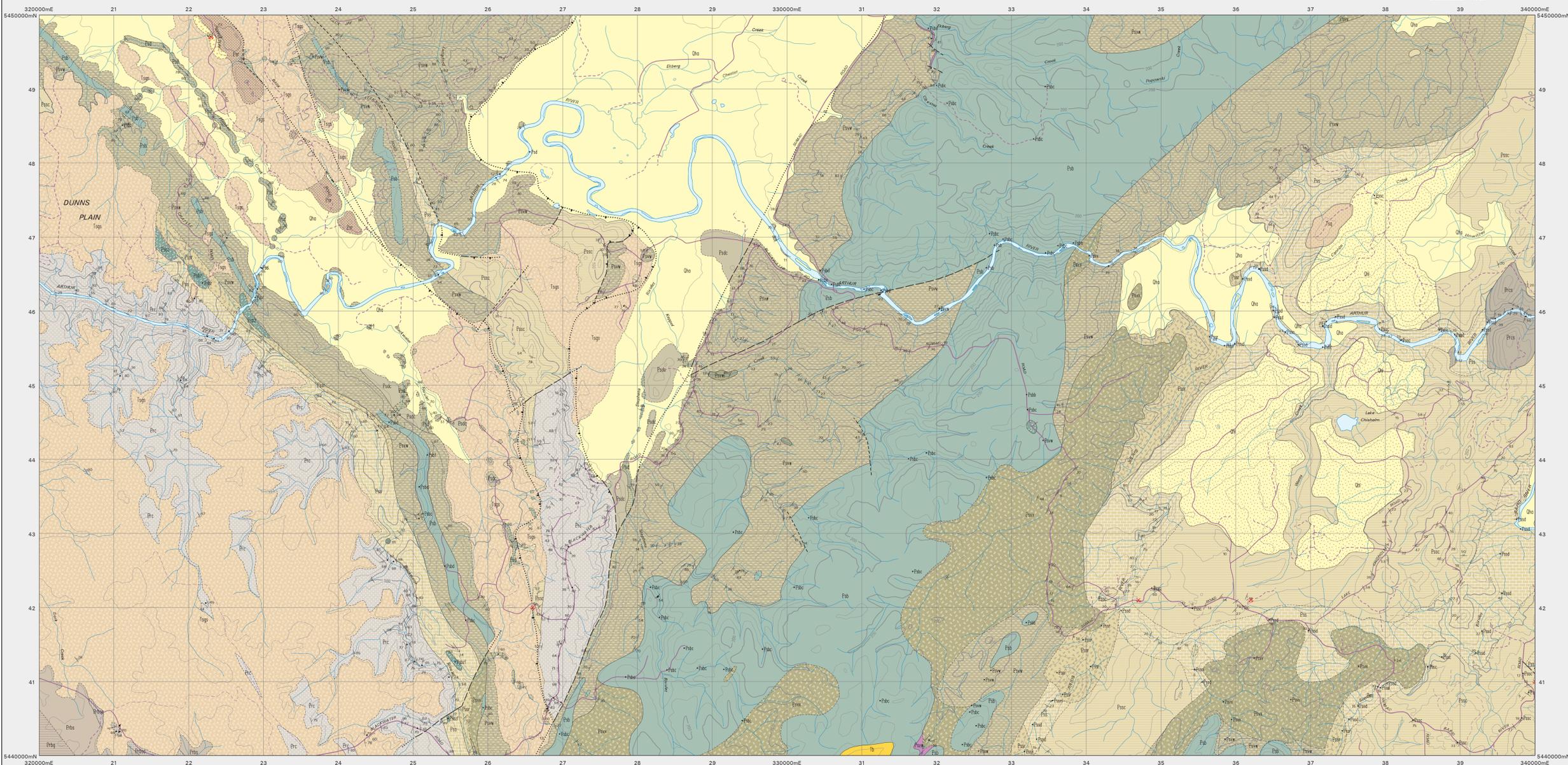


# SUMAC

Scale: 1:25 000



TASMANIAN GEOLOGICAL SURVEY  
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES  
SUMAC, SHEET 3244



PERIOD	UNIT	DESCRIPTION
CENOZOIC	Qha	Alluvium and swamp deposits (Qha).
	Qpl	Lag of dominantly oolitic and banded chert, with associated silt and sand (Qh).
	Qsl	Talus (Qpl).
TERTIARY	Tb	Basalt (Tb).
	Tsq	Indurated quartz sand with plant fossils (Tsq).
	Tsgs	Interbedded siliceous gravel, quartz sand and clay (Tsgs).
----- Angular unconformity		

PERIOD	UNIT	DESCRIPTION
NEOPROTEROZOIC	Psp	Pale weathering, thin bedded, laminated quartz siltstone with subordinate interbedded fossiliferous shales (Common River Stations) (Psp).
	Psd	Shallow marine dolomite and minor limestone (Psd). Areas of silicification and/or clayey pug indicated (Psd). (Psd, Psc: Sivilton Dolomite).
	Psvw	Interbedded laminated mudstone, siltstone and (finescale with mafic volcanic detritus (Psvw), minor limestone (Psvw), hematitic ironstone (Psvw), (Psvw, Psvw, Psvw, Rappelt Creek Formation).
	Psv	Massive basalt (Psv) (Spinks Creek Volcanics).
	Psvs	Dominantly mudstone (with clasts of basaltic and felsic volcanic rocks, dolomite, chert and mudstone-siltstone in a fine-grained non-dolomitic matrix), with interbedded laminated mudstone, siltstone and calcareous siltstone (Psvs) (Crozes Hill Member).
PRECAMBRIAN	Pss	Dolomitic breccia, with clasts of dolomite, stromatolitic dolomite and oolitic chert in a dolomitic matrix (Pss) (Julius River Member).
	Pssm	Interbedded dolomite, chert, siltstone and mudstone (Pssm); interbedded massive to well laminated stromatolitic dolomite (Pssm); dark gray to black dolomitic siltstone and mudstone (Pssm); dominantly interbedded massive or banded, in places oolitic, black and white to grey chert and laminated siltstone, with minor dolomite (Pssm); frayed black siliceous mudstone and siltstone, and thin laminated chert (Pssm).
	Pssc	----- Erosional and transgressive surface; low angle unconformity at some localities.
7MEDIOPROTEROZOIC	Prbc	Interbedded, black, dark gray and green, commonly pyritic, laminated siltstone and mudstone, with rare sandstone and mud pellet conglomerate (Prbc). Silicified equivalent of unit Prca (Prca, Prca: Coorie Siltstone).
	Prbb	Laminated to thinly bedded, chertic to siliceous siltstone to fine sandstone, containing variably disseminated porphyroblastic oolite (Prbb). Micaceous fine-grained sandstone with subordinate interbedded siltstone and graphic shale, and containing porphyroblastic oolite (Prbb).
	Prbg	Laminated chertic, mudstone to siltstone and rare sandstone containing variably disseminated porphyroblastic oolite (Prbg).

PERIOD	UNIT	DESCRIPTION
TERTIARY	Tb	Basalt (Tb).
	Psb	Massive basalt (Psb). Varieties with ~ 0.6 - 0.7 wt% TiO2 (Psb), 1.0 - 1.1 wt% TiO2 (Psb), 1.5 - 1.6 wt% TiO2 (Psb), 2.2 - 2.4 wt% TiO2 (Psb), 0.8 - 1.3 wt% TiO2 and alkali affinities (Psb) indicated. (Psb, Pbsa, etc Spinks Creek Volcanics).
NEOPROTEROZOIC	Psb	Medium to coarse-grained or pegmatitic dolomite (Psb); intrusives of mafic composition (Psb) and of alkali affinities (Psb), indicated.
	Psb	----- Geological boundary - position approximate.
TERTIARY	Tb	----- Geological boundary - inferred.
	Tb	----- Fault - position approximate.
NEOPROTEROZOIC	Psb	----- Fault - inferred.
	Psb	----- Thrust fault - position approximate, teeth on upper plate.
TERTIARY	Tb	----- Fault - concealed.
	Tb	----- Thrust fault - concealed, teeth on upper plate.
NEOPROTEROZOIC	Psb	----- Aeromagnetic lineament.
	Psb	----- Geological boundary inferred from aeromagnetic interpretation.
TERTIARY	Tb	----- Notable small outcrop or fault / lag occurrence.
	Tb	-----

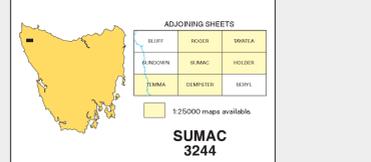
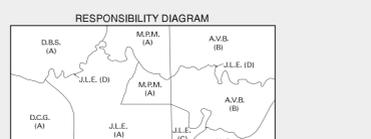
SYMBOL	DESCRIPTION
↗ ↘	Strike and dip of bedding, facing known - right way up; overturned, vertical, facing indicated by single line.
↗ ↘	Strike and dip of bedding, facing unknown - dipping vertical.
↗ ↘	Strike and dip of cleavage, type and relative age unspecified - dipping vertical.
↗ ↘	Strike and dip of cleavage, relative local age S1, S2.
↗ ↘	Trend and plunge of hinge line of minor fold with dip and dip direction of axial surface indicated, vertical axial surface.
↗ ↘	Trend and plunge of kink-fold hinge line, with dip and dip direction of axial surface, and sense of displacement viewed down-plunge: sinistral.
↗ ↘	Trend of horizontal minor fold hinge line, unspecified relative age.
↗ ↘	Trend and plunge of minor fold hinge line, unspecified relative age, vergence sinistral.
↗ ↘	Strike and dip of dominant joint set.
+	Field station for adjacent readings on the map.
+	Mineral deposit location - hardrock. Data derived from Mineral Resources Tasmania MRC/DCV data base. Datapoint position has not been verified in every case.
+	Mineral deposit location - alluvial.
+	Construction materials location - Data derived from Mineral Resources Tasmania COMBAT data base. Datapoint position has not been verified in every case.

Geology by J.L. Everard, B.Sc.(Hons); D.B. Seymour, B.Sc.(Hons), Ph.D.; D.C. Green, B.Sc.(Hons), Ph.D.; M.P. McClenaghan, B.Sc.(Hons), Ph.D.; and A.V. Brown, B.Sc.(Hons), Ph.D.

(see responsibility diagram)  
A New 1:25000 scale mapping, 1995-96.  
B Redrawn from Geological Atlas 1:50,000 series, sheet 27 (7915N) Tasmania 1996, Mineral Resources Tasmania.  
C Redrawn from Tasmania 1:50,000 map with modifications from remapping.  
D From J.L. Everard and C.R. Calver, 1993 Arthur River Traverse, Mineral Resources Tasmania Plans 5432A,B.

Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software, ACT95 - AMG Zone 55. Contour Interval: 20 metres.



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