Department of State Growth
MINERAL RESOURCES TASMANIA

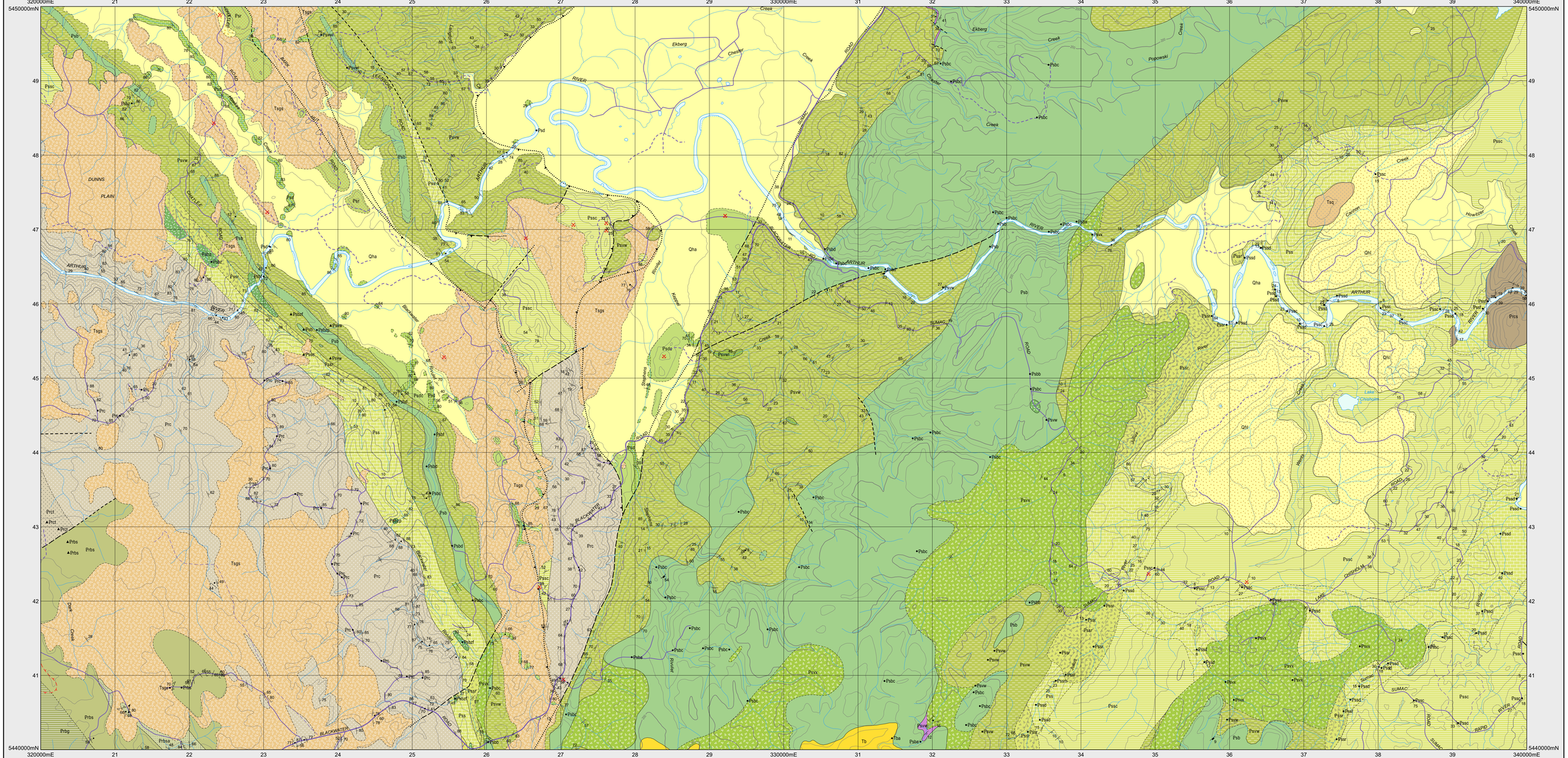
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
SUMAC, SHEET 3244

SUMAC

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

HOLOCENE

- Qha — *Alluvium and swamp deposits (Qha).*
- Qhl — *Lag of dominantly oolitic and banded chert, with associated silt and sand (Qhl).*

PLEISTOCENE

- Qpt — *Talus (Opt).*

Erosional surface.

PALEOGENE - NEOGENE

- Tb — *Basalt (Tb). Local occurrence of alkali olivine basalt (Tba).*
- Tsq — *Indurated quartz sand with plant fossils (Tsq).*
- Tsgs — *Interbedded siliceous gravel, quartz sand and clay (Tsgs).*

Angular unconformity

NEOPROTEROZOIC

TOGARI GROUP

KANUNNAH SUBGROUP

BLACK RIVER DOLOMITE

- Psr — *Pale weathering, thin bedded, laminated quartz siltstone with subordinate interbedded fissile shale. Commonly silicified. (Salmon River Siltstone) (Esr).*
- Psd, Psdc — *Shallow marine dolomite and minor limestone (Psd). Areas of silicification and/or clayey pug indicated (Psdc). (Psd, Psdc: Smithton Dolomite).*
- Psvw, Psvwl — *Interbedded laminated mudstone, siltstone, and lithicwacke with mafic volcanic detritus (Psvw). Impure limestone indicated (Psvwl). Hematitic ironstone indicated (Psvwi). (Psvw, Psvwl, Psvwi: Keppel Creek Formation).*
- Psb — *Massive basalt (Psb). (Spinks Creek Volcanics).*
- Psvxl, Psvx — *Dominantly mixtite (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 (Psvx). (Croles Hill Mixtite).*
- Pssr — *Dolomitic breccia, with clasts of dolomite, stromatolitic dolomite and oolitic chert in a dolomitic matrix (Pssr). (Julius River Member)*
- Pss — *Interbedded dolomite, chert, siltstone and mudstone (Pss); interbedded massive to well laminated, stromatolitic dolomite (Pssd); dark grey 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 (Pssc); flaggy black siliceous mudstone and siltstone, and thinly laminated chert (Pssf). Chert breccia and conglomerate (with clasts dominantly of black, grey and white chert, and subordinate orthoquartzite) interbedded with pale grey-weathering distinctly laminated medium-grained quartzarenite (Pscb). (Correlate of Forest Conglomerate and Quartzite).*
- Psscb, Psscc, Psscd, Psscf, Psscg, Psscz — *Interbedded dolomite, chert, siltstone and mudstone (Pss); interbedded massive to well laminated, stromatolitic dolomite (Pssd); dark grey 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 (Pssc); flaggy black siliceous mudstone and siltstone, and thinly laminated chert (Pssf). Chert breccia and conglomerate (with clasts dominantly of black, grey and white chert, and subordinate orthoquartzite) interbedded with pale grey-weathering distinctly laminated medium-grained quartzarenite (Pscb). (Correlate of Forest Conglomerate and Quartzite).*

Erosional and transgressive surface; low angle unconformity at some localities.

?MESOPROTEROZOIC

ROCKY CAPE GROUP

BALFOUR SUBGROUP

- Prcs, Prc — *Interbedded, black, dark grey and green, commonly pyritic, laminated siltstone and mudstone, with rare sandstone and mud pellet conglomerate (Prc). Silicified equivalent of unit Prc (Prcs). (Prc, Prcs: Cowrie Siltstone).*
- Prct — *Thick-bedded, very fine-grained quartz sandstone and siltstone, probably turbidites, with minor interbeds of dark grey mudstone (Prct).*
- Prbsa, Prbs — *Laminated to thinly bedded, chloritic to siliceous siltstone to fine sandstone, containing variably disseminated porphyroblastic chlorite (Prbs). Micaceous fine-grained sandstone with subordinate interbedded siltstone and graphitic shale, and containing porphyroblastic chlorite (Prbsa).*
- Prbg — *Laminated chloritic mudstone to siltstone and rare sandstone containing variably disseminated porphyroblastic chlorite (Prbg).*

IGNEOUS ROCKS

CENOZOIC

PALEOGENE - NEOGENE

- Tb — *Basalt (Tb). Local occurrence of alkali olivine basalt (Tba).*

NEOPROTEROZOIC

- Psb — *Massive basalt (Psb). Varieties with ~ 0.6 - 0.7 wt.% TiO2 (Psba), 1.0 - 1.1 wt.% TiO2 (Psbb), 1.5 - 1.8 wt.% TiO2 (Psbc), 2.2 - 2.4 wt.% TiO2 (Psbd), 0.8 - 1.3 wt.% TiO2 and alkalic affinities (Psbf) indicated. (Psb, Psba, etc Spinks Creek Volcanics).*
- Psbz — *Medium to coarse-grained or pegmatitic dolerite (Psbz). Intrusives of picritic composition (Psbzp) and of alkalic affinities (Psbzf) indicated.*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Geological contact - inferred from magnetic data.*
- *Geological contact - inferred from radiometric data.*
- *Unconformable lithological contact.*
- *Igneous intrusive contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

FAULTS

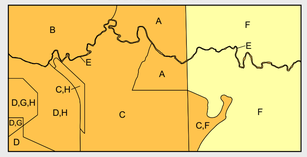
- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*
- *Thrust fault (teeth on upper plate).*
- *Thrust fault (teeth on upper plate) - concealed.*

LINEARS

- *Magnetic gradient or lineament (direction towards lower values indicated).*

- *Strike and dip of bedding, facing known - right way up; overturned; vertical, facing indicated by single tic.*
- *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 S_C; S_D; S_S*
- *Trend and plunge of hingeline of minor fold; with dip and dip direction of axial surface indicated; vertical axial surface.*
- *Trend and plunge of hinge line of minor antiform, relative local age F1*
- *Trend and plunge of kink-fold hingeline, 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.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence with rock unit indicated.*
- *Construction material/industrial mineral/gemstone location.*

SOURCE DIAGRAM



- 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.

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.1998 from the following sources (see source diagram):

A M.P. McClenaghan 1995-1996. 1:25 000 scale mapping.

B D.B. Seymour 1995-1996. 1:25 000 scale mapping.

C J.L. Everard 1995-1996. 1:25 000 scale mapping.

D D.C. Green 1995-1996. 1:25 000 scale mapping.

E J.L. Everard and C.R. Calver, 1993 Arthur River Traverse, Mineral Resources Tasmania Plans 5432A,B.

F EVERARD, J.L., SEYMOUR, D.B., BROWN, A.V. 1996: Geological atlas 1:50 000 series. Sheet 27 (7915N) Trowutta. Mineral Resources Tasmania, with modifications from new aeromagnetic interpretation.

G J.L. Everard 2015. Interpretation of airborne radiometric data, with additional field observations by B.S. Waining.

Updated by:

H G.V. Cumming 2016. Traverses along new logging roads.

REFERENCE THIS MAP AS:

EVERARD, J.L., McCLENAGHAN, M.P., BROWN, A.V., SEYMOUR, D.B., and GREEN, D.C. (compilers) 2015. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3244 Sumac. Mineral Resources Tasmania.

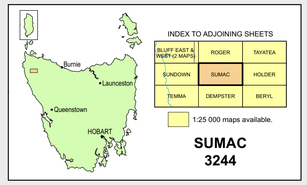
Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

BLUFF EAST & WARATAH MAPS	ROGER	TAYATEA
SUNDOWN	SUMAC	HOLDER
TEMMA	DEMPSTER	BERYL

1:25 000 maps available.

SUMAC 3244

Map generated: 11-JUN-2024

WARNING: INKS ARE LIGHT SENSITIVE.