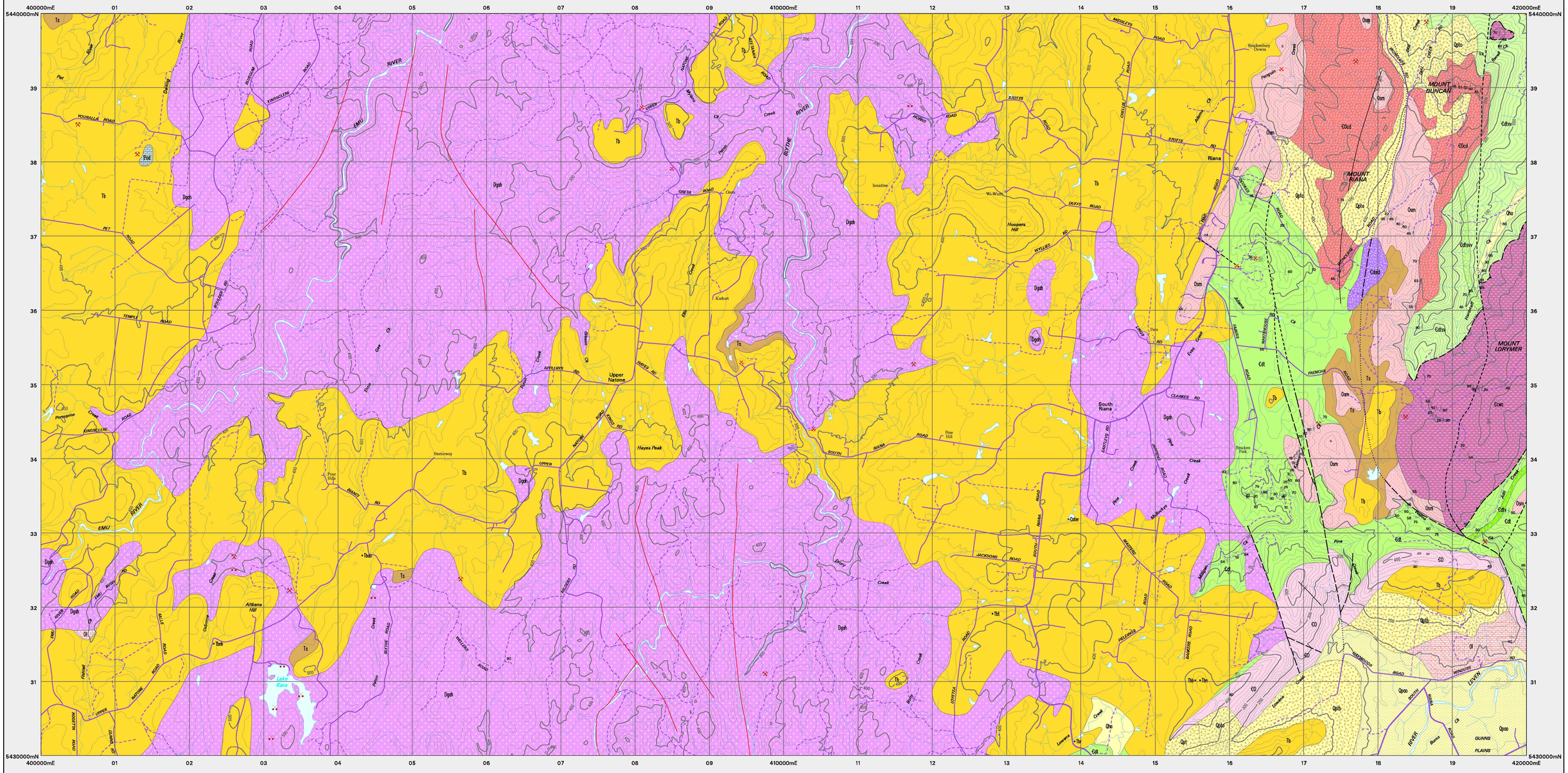
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
RIANA, SHEET 4043

RIANA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC	QUATERNARY	HOLOCENE	Qha	Stream alluvium, swamp and marsh deposits (Qha).
		PLEISTOCENE	Qptb, Qpt	Basalt talus (Qptb).
			Qpto	Quartz sandstone and conglomerate talus derived from Owen Group correlates (Qpto).
			Qpao	Older alluvium (Qpao).
	TERTIARY		Tb	Basalt (Tb), including local occurrences of alkali olivine basalt (Tbao), basanite (Tbb), hawaiite (Tbh), olivine nephelinite (Tbn), nepheline hawaiite (Tbnh), transitional olivine basalt (Tbt) and olivine tholeiite (Tbt).
			Ts	Terrestrial sand, gravel and minor lacustrine deposits (Ts).
PALAEOZOIC	ORDOVICIAN		Ol	Limestone (correlate of Gordon Limestone) (Ol). — GORDON GROUP; WURAWINA SUPERGROUP
	ORDOVICIAN -LATE CAMBRIAN		Ꞓo, Osm	Grey poorly sorted fine–grained sandstone, commonly bioturbated (correlate of Moina Sandstone) (Osm). — OWEN GROUP; WURAWINA SUPERGROUP
			Ꞓo, Ꞓocd	Pebble–cobble siliciclastic conglomerate and coarse–grained sandstone with abundant quartzite and chert clasts (Duncan Conglomerate) (Ꞓocd). — OWEN GROUP; WURAWINA SUPERGROUP
	LATE CAMBRIAN-MIDDLE CAMBRIAN		Ꞓdt	Predominantly crystal +– lithic rich volcaniclastic sediments with minor siltstone and minor acid to intermediate volcanics (Ꞓdt). (Correlate of Tyndall Group and Rosfords Creek Group). — TYNDALL GROUP; MOUNT READ VOLCANICS AND CORRELATES
			Ꞓdtv	Quartz–feldspar phyric crystal (lithic) volcaniclastic sandstone (Ꞓdtv).
			Ꞓdtsv	Grey to green massive to bedded wacke, pebble conglomerate and laminated siltstone, with clasts of quartzite and chert. (Undifferentiated Tyndall Group and Western Volcano–Sedimentary Sequence. Previously mapped as Cateena Group (Ꞓdtsv).
			Ꞓdtsvv	Felsic volcanic and volcaniclastic rich horizon within Ꞓdtsv (Ꞓdtsvv).
PROTEROZOIC	?EARLY CAMBRIAN		Ꞓcwc	Pale to dark grey, faintly bedded to massive or brecciated chert (Barrington Chert) (Ꞓcwc). — CLEVELAND - WARATAH ASSOCIATION
	?NEOPROTEROZOIC		Pod	Metamorphosed impure dolomite–rich sequences of mudstone, siltstone and sandstone (Pod). — BURNIE FORMATION

INTRUSIVE ROCKS

PALAEOZOIC	DEVONIAN	Dgsh	Dominantly equigranular to sparsely porphyritic fine–to medium–grained biotite +– hornblende phyric granite/adamellite (I type) (Housetop Granite) (Dgsh).
	MIDDLE CAMBRIAN	Ꞓdaid	Massive plagioclase – hornblende phyric dioritic, andesitic and dacitic intrusives (Lobster Creek intrusives) (Ꞓdaid). — MOUNT READ VOLCANICS

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Geological boundary – inferred from airborne magnetic and/or radiometric data.
Geological boundary – inferred from airborne radiometric data.
Fault – position accurate or approximate.
Fault – inferred.
Fault – concealed.
Thrust fault (teeth on upper plate) – position accurate or approximate.
Lineament visible in airborne magnetic data.
Axial surface trace of major synform.
Axial surface trace of major early antiform.

Strike and dip of bedding, facing unknown.
Strike and dip of cleavage of unspecified type and relative age.
Trend and plunge of minor fold hinge line, unspecified relative age.
Strike and dip of dyke.
Notable small outcrop with rock unit indicated
Fossil location.
Mineral deposit location – hardrock — Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Mineral deposit location – alluvial
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see Responsibility Diagram):

A Gee, R.D; Gulline, A.B. and Bravo, A.P; 1967. Geological atlas 1 mile series. Sheet 28 (8015N) Burnie. Tasmania Department of Mines.

B Baillie, PW; Williams, P.R; Seymour, D.B; Lennox, P.G. and Green, G.R. 1986. Geological atlas 1:50,000 series. Sheet 36 (8015N) St Valentines. Tasmania Department of Mines.

C Burns, K.L. 1963. Geological atlas 1 mile series. Zone 7 Sheet 29 (NB15 I and IV) Devonport. Tasmania Department of Mines.

With additional information from:-

1 Herrmann, W. (1993) and Crawford, A.J. (1993). Appendix B and C in FitzGerald, F.G. 1993. EL9/1992 Dial Annual Report June 1992 - June 1993. Unpublished Report, Pasminco Exploration. TCR 93-3447.

2 Sproule, R.A. 1994. Stratigraphy and Geochemistry of the Dial Range Trough, NW Tasmania. BSc(hons) thesis. University of Tasmania.

D Jennings, I.B; Burns, K.L; Mayne, S.J. and Robinson, R.G. 1959. Geological atlas 1 mile series. Zone 7 Sheet 37 Sheffield. Tasmania Department of Mines.

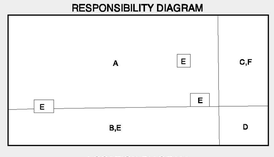
E Air photograph and WTRMP geophysical data interpretation by M. Vicary.

F Updated by M. Vicary 2004.

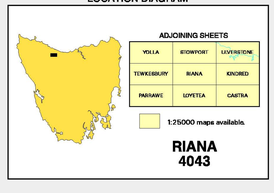
Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



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