

| CENOZOIC   |       | NEOGENEOUS   |  |
|------------|-------|--|--|
| Quaternary | Qha   | Stream alluvium, swamp and marsh deposits (Qha).   |  |
|            | Tcc   | Siliceous pebble to cobble conglomerate (Tcc).   |  |
|            | Tscb  | Fine to medium grained quartz sandstone with carbonaceous siltstone laminae commonly containing plant stems and leaf impressions (Tscb).   |  |
|            | Tfb   | Sikrete or ferricrete breccia (Tfb).   |  |
|            | C0ms  | Marine sequences of mudstone, siltstone and sandstone with minor conglomerate. Late Cambrian fossils just south of this map sheet at 364 500mE S 298 200mN (C0ms).                 |  |
|            | C0mic | Dominantly pebble conglomerate (C0mic).  |  |
|            | Cdsvs | Dominantly interbedded grey mudstone and lithicwacke sandstone, with some conglomeratic units. Graded bedding typical. Derivation from metaquartzite and volcanic sources (Cdsvs). |  |
|            | Cdsv  | Conglomerate horizons, typically siliciclastic, poorly sorted (Cdsv).  |  |
|            | Cda   | Andesitic lavas and breccias, typically feldspar-pyroxene-phyric (part of Noisy Creek Volcanics) (Cda).  |  |
|            | Cdsv  | Felsic rhyolitic lavas, typically quartz-feldspar-phyric (part of Noisy Creek Volcanics) (Cdsv).   |  |
|            | Cdsvr | Fine-grained rocks of andesite and rhyolite composition, highly sheared in places (Cdsvr).   |  |
|            | Cdsvu | Schistose possible tuff or lava containing chlorite, quartz and opaque-sheared volcanic rocks of uncertain affinity (Cdsvu).   |  |

| 7 MESO - PROTEROZOIC |       |  |
|----------------------|-------|--|
|                      | Pdvl  | Mudstone and basaltic lithicwacke sequence (Pdvl).   |
|                      | Pdvb  | Basalt with minor interbedded basalt breccias, tuffs and sedimentary rocks (Lucas Creek Volcanics) (Pdvl).               |
|                      | Edsm  | Variably calcareous mudstone, siltstone and sandstone (Edsm).  |
|                      | Edsmc | Conglomerate horizons (Edsmc).   |
|                      | Pdax  | Sequences of dolomitic mudstone, siltstone and sandstone (Pdax). (Possible correlate of Black River Dolomite).           |
|                      | Pon   | Metamorphosed interbedded quartzwacke and mudstone/siltstone (Pon).  |
|                      | Pvd   | Metamorphosed impure dolomite-rich sequences of mudstone, siltstone and sandstone (Pvd). (Correlate of Oonah Formation). |
|                      | Et    | Metamorphosed interbedded orthoquartzite, mudstone/siltstone (Et).   |

| CORRELATE OF COCKSHUTT SUCCESSES |       |  |
|----------------------------------|-------|--|
|                                  | COms  | Marine sequences of mudstone, siltstone and sandstone with minor conglomerate. Late Cambrian fossils just south of this map sheet at 364 500mE S 298 200mN (COms). |
|                                  | COmic | Dominantly pebble conglomerate (COmic).  |

| CORRELATE OF OONAH REGION |       |  |
|---------------------------|-------|--|
|                           | COms  | Marine sequences of mudstone, siltstone and sandstone with minor conglomerate. Late Cambrian fossils just south of this map sheet at 364 500mE S 298 200mN (COms). |
|                           | COmic | Dominantly pebble conglomerate (COmic).  |

| CORRELATE OF MOUNT READ VOLCANICS |       |  |
|-----------------------------------|-------|--|
|                                   | Cdsvs | Dominantly interbedded grey mudstone and lithicwacke sandstone, with some conglomeratic units. Graded bedding typical. Derivation from metaquartzite and volcanic sources (Cdsvs). |
|                                   | Cdsv  | Conglomerate horizons, typically siliciclastic, poorly sorted (Cdsv).  |
|                                   | Cda   | Andesitic lavas and breccias, typically feldspar-pyroxene-phyric (part of Noisy Creek Volcanics) (Cda).  |
|                                   | Cdsv  | Felsic rhyolitic lavas, typically quartz-feldspar-phyric (part of Noisy Creek Volcanics) (Cdsv).   |
|                                   | Cdsvr | Fine-grained rocks of andesite and rhyolite composition, highly sheared in places (Cdsvr).   |
|                                   | Cdsvu | Schistose possible tuff or lava containing chlorite, quartz and opaque-sheared volcanic rocks of uncertain affinity (Cdsvu).   |

### INTRUSIVE ROCKS

|     |   |
|-----|---|
| Di  | Lamprophyre dykes and intrusive bodies (Di).  |
| Exh | Hematite ± pyrite bodies (Exh), and hematite veins (Exhv).  |
| Cda | Andesitic lavas and minor intrusives (Cda).   |
| Csp | Undifferentiated, generally coarse-grained ultramafic rocks, gabbro and sheared serpentinite (Csp). |
| Csp | Peridotite with amphibole (Csp).  |
| Csp | Gabbro dykes, intrusive bodies and fault-bounded units (Csp).                                       |
| Csp | Serpentinised pyroxenite (Csp), including sheared, serpentinite (Csa).                              |
| Cl  | Quartz-epidote-chlorite rock; possibly tonalite (Cl).   |

|   |  |
|---|--|
| ↗ | Strike and dip of bedding, facing known - right way up.  |
| ↘ | 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 <sub>1</sub> , S <sub>2</sub> , S <sub>3</sub> .  |
| ↗ | Trend and plunge of hinge-line of minor fold, with dip and dip direction of axial surface indicated.   |
| ↘ | Trend and plunge of hinge-line of minor fold, with dip and dip direction of axial surface indicated, relative local age F <sub>1</sub> , F <sub>2</sub> , F <sub>3</sub> . |
| • | Field station for adjacent readings on the map.  |
| • | Notable small outcrop with rock unit indicated.  |
| ■ | Mineral deposit location - hardrock.   |
| ■ | Mineral deposit location - alluvial/tailings.  |
| ■ | Construction materials/industrial mineral/gemstone location.   |

|       |   |
|-------|---|
| —     | Geological contact.   |
| - - - | Geological contact - inferred.                                  |
| —     | Limit of mapping of sub-unit within undifferentiated rock unit. |
| —     | Fault.  |
| - - - | Fault - inferred.   |
| —     | Thrust fault (teeth on upper plate).                            |
| - - - | Thrust fault (teeth on upper plate) - inferred.                 |



Compiled by D.C. Green, B.Sc.(Hons), Ph.D., 2000 from the following sources (see source diagram):

A. MACLEAGHAN, M.P., FINDLAY R.H., 1989. Geological Atlas 1:50 000 Series. Sheet 64 (7915), Macquarie Harbour. Tasmania Department of Mines.

B. BROWN, A.V., CALVER, C.R., CORBETT, K.D., FORSYTH, S.M., GOSCOMBE, B.D., GREEN, G.R., MACLEAGHAN, M.P., PEMBERTON, J., SEYMOUR, D.B. (compilation) 1995. Geological Atlas 1:250 000 Digital Series. Geology of Southwest Tasmania. Mineral Resources Tasmania.

Updated as part of the Western Tasmanian Regional Minerals Program by:

C. CORBETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

### REFERENCE THIS MAP AS:

GREEN, D.C. (compiler) 2000. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3630 Sarah. Mineral Resources Tasmania.

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Map produced by Spatial Information Services, Mineral Resources Tasmania.

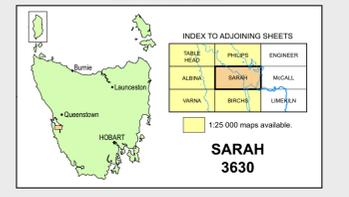
Website: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)

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



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### LOCATION DIAGRAM



1:25 000 maps available.

**SARAH 3630**