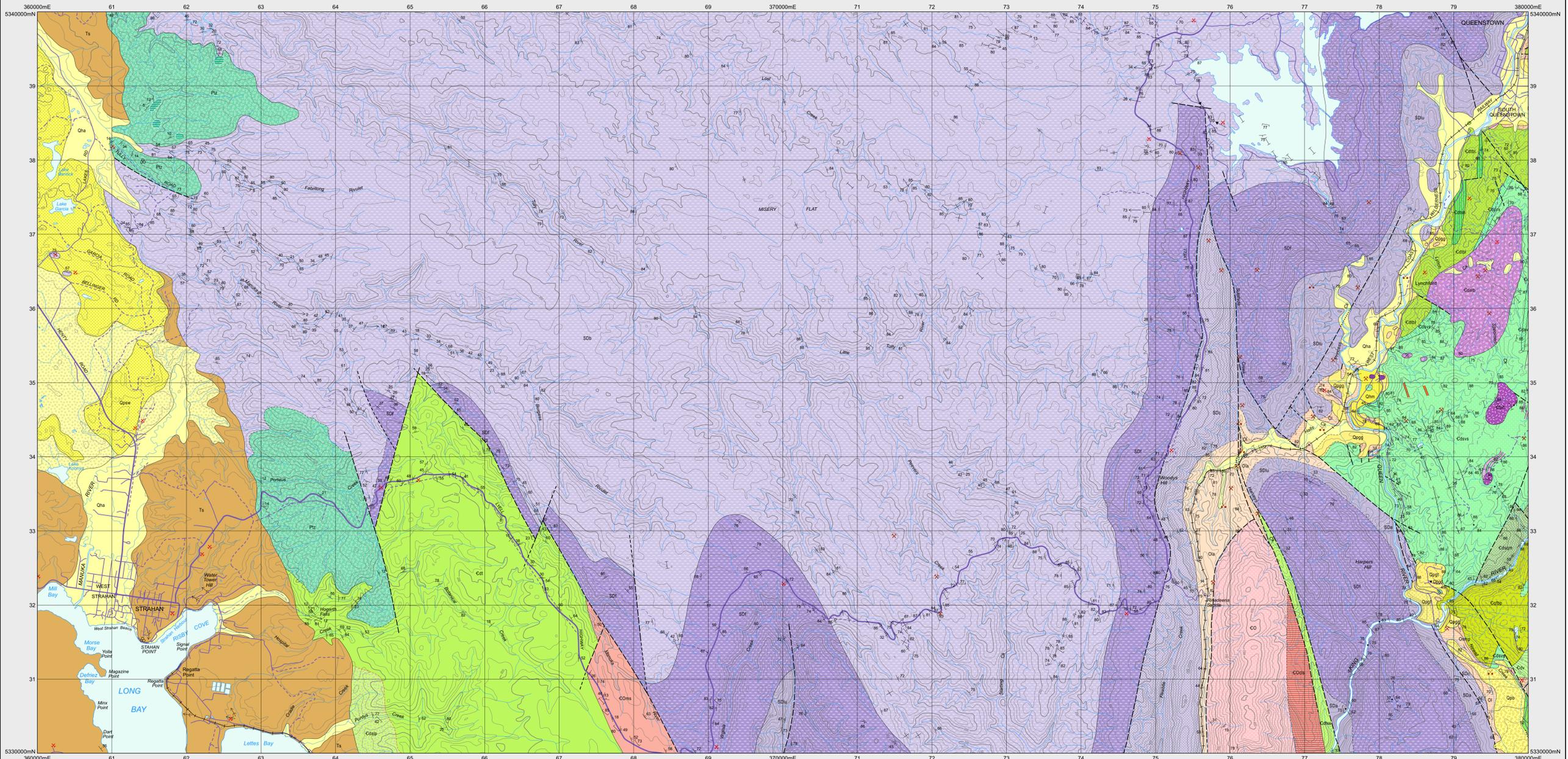


# STRAHAN EAST

Scale 1:25 000



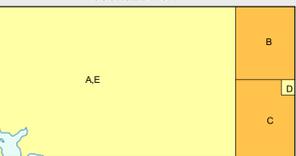
### COMPOSITE LEGEND FOR STRAHAN EAST AND STRAHAN WEST

| PERIOD    | UNIT | DESCRIPTION                                                                                                                                                                                                                                                                                 |
|-----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CENOZOIC  | Qhm  | Man-made deposits, including mine dumps and disturbed ground (Qhm).                                                                                                                                                                                                                         |
|           | Qha  | Stream alluvium, swamp and marsh deposits (Qha).                                                                                                                                                                                                                                            |
|           | Qhbc | Younger active dune, beach sand and gravel (Qhbc).                                                                                                                                                                                                                                          |
|           | Qpsa | Older aeolian sand and sand dunes (Qpsa).                                                                                                                                                                                                                                                   |
|           | Qpsv | Older aeolian sand dunes (Qpsv).                                                                                                                                                                                                                                                            |
|           | Qpb  | Boulder slope and fan deposits, commonly with leveed channels, probably partly of glacial origin (Qpb).                                                                                                                                                                                     |
|           | Qpvg | Undifferentiated Pleistocene glacial deposits (Qpvg).                                                                                                                                                                                                                                       |
|           | Qqgl | Mostly outwash gravels (Qqgl).                                                                                                                                                                                                                                                              |
|           | Qppl | Deeply weathered till, outwash gravel and lacustrine sediments. Reversed magnetic polarity indicate age > 730 000 BP. Deposits of Little Glaciation (Qppl). Dolomite erratic at 378 590mE 5 332 310mN (Qppl).                                                                               |
|           | Ts   | Dominantly non-marine sequence of gravel, sand, silt, clay and regolith (Ts).                                                                                                                                                                                                               |
| PALEOZOIC | Pt   | Tillite and associated glaciogenic rocks (correlate of Wynyard Tillite) (Pt).                                                                                                                                                                                                               |
|           | Ptzr | Rhythmic horizon (Ptzr).                                                                                                                                                                                                                                                                    |
| PALEOZOIC | SDe  | Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bell Shale and correlatives) (SDe).                                                                                                                                                |
|           | SDf  | Fine-grained quartz sandstone with minor siltstone and mudstone (correlate of Florence Formation) (SDf).                                                                                                                                                                                    |
|           | SDa  | Undifferentiated sandstone-mudstone-minor limestone sequence (correlates of Crofty and Amber Formations) (SDa); mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amber Formation) (SDa).                                                                 |
|           | SDc  | Mainly coarse-to fine-grained sandstone (commonly decomposed to a friable sand) with an upper sequence of siltstone and fine-grained sandstone in some areas (Crofty Formation and correlatives) (SDc).                                                                                     |
|           | Ola  | Mainly siltstone and fine-grained sandstone ("Rinadeena Shale" and correlatives) (Ola).                                                                                                                                                                                                     |
|           | Oi   | Limestone with some interbedded siltstone in places. Commonly decomposed to black clay "put" (Gordon Limestone) (Oi).                                                                                                                                                                       |
|           | Oamp | Undifferentiated shallow marine - non-marine siliclastic conglomerate - sandstone sequence - Owen Group and correlatives (CO); grey to pink quartz sandstone with basal pebble-cobble conglomerate; trace fossils and chrome-rich bands in upper part (Homer Beds and correlatives) (Oamp). |
|           | CO   | Interbedded laminated siltstone, micaceous sandstone, graded greywacke, quartzite and minor siliceous conglomerate in Lower King River area (correlate of Newton Creek Sandstone) (CO).                                                                                                     |
|           | COms | Green to grey, thin bedded micaceous siltstone and sandstone (COms).                                                                                                                                                                                                                        |
|           | COcs | Green to grey, thin bedded micaceous siltstone and sandstone (COcs).                                                                                                                                                                                                                        |

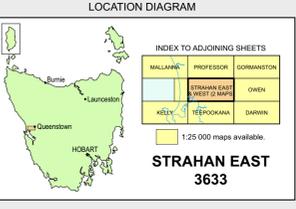
| PERIOD   | UNIT  | DESCRIPTION                                                                                                                                                                                                                              |
|----------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAMBRIAN | Cdt   | Mainly volcanoclastic to polymict sandstone, breccia, siltstone, mudstone and conglomerate, typically quartz-feldspar-phyric. Marine fossils in places. Minor andesitic to basaltic lavas in places (correlates of Tyndall Group) (Cdt). |
|          | Cdts  | Mainly well-bedded quartz-feldspar crystal-rich volcanoclastic sandstone with minor siltstone and volcanoclastic conglomerate, graded bedding common (Cdts).                                                                             |
|          | Cdhl  | Mainly volcanoclastic sandstone and breccia (quartz-feldspar + pyroxene-phyric), with minor vitric ash, conglomerate, sandstone and siltstone. Lynchford Member or Lower Tyndall Group (Cdhl).                                           |
|          | Cdml  | Mainly thin-bedded siltstone and mudstone with subordinate volcanoclastic sandstone (Cdml).                                                                                                                                              |
|          | Cdpl  | Brown-weathering lava, breccia and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (Cdpl).                                                                             |
| CAMBRIAN | Cdv   | Dominantly feldspar-phyric volcanic and volcanoclastic rocks, with some andesitic to basaltic volcanics (Cdv).                                                                                                                           |
|          | Cdvl  | Mainly feldspar (+ quartz)-phyric lavas and possible intrusives (crypto-domes ?), commonly with a spherulitic or snowflake textured groundmass. Columnar jointing in some places (Cdv).                                                  |
|          | Cdsv  | Mixed sequence of bedded volcanoclastic sandstone, siltstone, mudstone and breccia, typically quartz-feldspar-bearing, with some andesitic lavas and intrusives (Cdv).                                                                   |
|          | Cdsvs | Dominantly greywacke and mudstone with some interbedded vitric tuff, crystal tuff and crystal-litic tuff (Cdv).                                                                                                                          |
|          | Cdsvx | Mainly volcanoclastic sandstone, breccia and tuffaceous units. Typically crystal rich, with minor siltstone and mudstone (Cdv).                                                                                                          |
| CAMBRIAN | Cdvl  | Mainly quartz-feldspar + biotite phytic lava (Cdv).                                                                                                                                                                                      |
|          | Cfp   | Mainly feldspar (+ quartz)-phyric andesite-dacite lava (Cfp).                                                                                                                                                                            |
|          | Cfsl  | Brown-weathering lava, breccia and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (Cfsl).                                                                             |
|          | Cdqm  | Well bedded micaceous quartzwacke, sandstone and minor mudstone (Miners Ridge Sandstone) (Cdqm).                                                                                                                                         |
|          | Cdqm  | Well bedded micaceous quartzwacke, sandstone and minor mudstone (Miners Ridge Sandstone) (Cdqm).                                                                                                                                         |

| PERIOD   | UNIT  | DESCRIPTION                                                                                                                                                                             |
|----------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAMBRIAN | qv    | Quartz vein (qv).                                                                                                                                                                       |
|          | Cdvl  | Mainly feldspar (+ quartz)-phyric lavas and possible intrusives (crypto-domes ?), commonly with a spherulitic or snowflake textured groundmass. Columnar jointing in some places (Cdv). |
|          | Cdvlp | Quartz-feldspar-biotite-porphyr - mainly intrusive but may be partly extrusive (Cdv).                                                                                                   |
|          | Cfp   | Feldspar-pyroxene-hornblende porphyry (Cfp).                                                                                                                                            |
|          | Cfsl  | Brown-weathering lava, breccia, and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (Cfsl).                           |
| CAMBRIAN | Cfsl  | Coarse-grained equigranular pyroxene-feldspar-biotite-talc (after olivine) rock, possibly related to Lynch Creek Basalts (Cfsl).                                                        |
|          | Cfsl  | Coarse-grained equigranular pyroxene-feldspar-biotite-talc (after olivine) rock, possibly related to Lynch Creek Basalts (Cfsl).                                                        |

| SYMBOL | DESCRIPTION                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| +      | Strike and dip of bedding facing known, right way up, overturned; vertical (facing indicated by single tic); horizontal bedding. |
| ⊗      | 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 vertical igneous bedding - dipping; vertical.                                                                  |
| ⊚      | Strike and dip of crenulation cleavage, dipping.                                                                                 |
| ↗      | Trend and plunge of minor fold hinge line, unspecified relative age.                                                             |
| ↘      | Trend and plunge of horizontal minor fold hinge line.                                                                            |
| ↖      | Trend and plunge of hinge line of minor anticline, unspecified relative age.                                                     |
| ↗      | Trend and plunge of minor fold hinge line, relative local age F <sub>1</sub> , F <sub>2</sub> .                                  |
| ↘      | Generalised paleocurrent direction, showing sense of movement.                                                                   |
| ↖      | Trend and plunge of columnar jointing.                                                                                           |
| •      | Field station for adjacent readings on the map.                                                                                  |
| ▼      | Notable erratic boulder with rock unit indicated.                                                                                |
| ⊙      | Macrofossil location.                                                                                                            |
| ⊚      | Macrofossil location.                                                                                                            |
| ⊘      | Mineral deposit location - hardrock.                                                                                             |
| ⊙      | Mineral deposit location - alluvial/alluvial.                                                                                    |
| ⊚      | Construction materials/industrial mineral/gemstone location.                                                                     |



- 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.
- Compiled by M.J. VICARY, B.Sc. (Hons), 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see source diagram):
- A. BAILLIE, P.W., CORBETT, K.D., COX, S.F., CORBETT, E.B., BRAVO, A.P., GEE, R.D., GILLINE, A.B., LEGGIE, P.J., PINK, G.P., TURNER, N.J., WILLIAMS, P.R., MCCLENNAGHAN, M.P., BROWN, A.V., 1977. Geological Atlas 1:50 000 Series. Sheet 37 (373A). Strahan. Department of Mines, Tasmania.
- 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. CORBETT, K.D., PEMBERTON, J. and VICARY, M.J., 1993. Geology of the Mt. Jukes - Mt. Down area. Map 13. Mt. Jukes Volcanics project. Tasmania Department of Mines.
- D. Stockwell, R., 1996. Annual Report May 1997 - May 1998 - Tasmanian Base Metals Project, EL 294 - Lynchford. RGC Exploration Proprietary Limited. TCR 98-4200.
- E. VICARY, M.J., 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05. Mineral Resources Tasmania.



**REFERENCE THIS MAP AS:**  
VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3633 Strahan. Mineral Resources Tasmania.

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Website: www.mrt.tas.gov.au

GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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