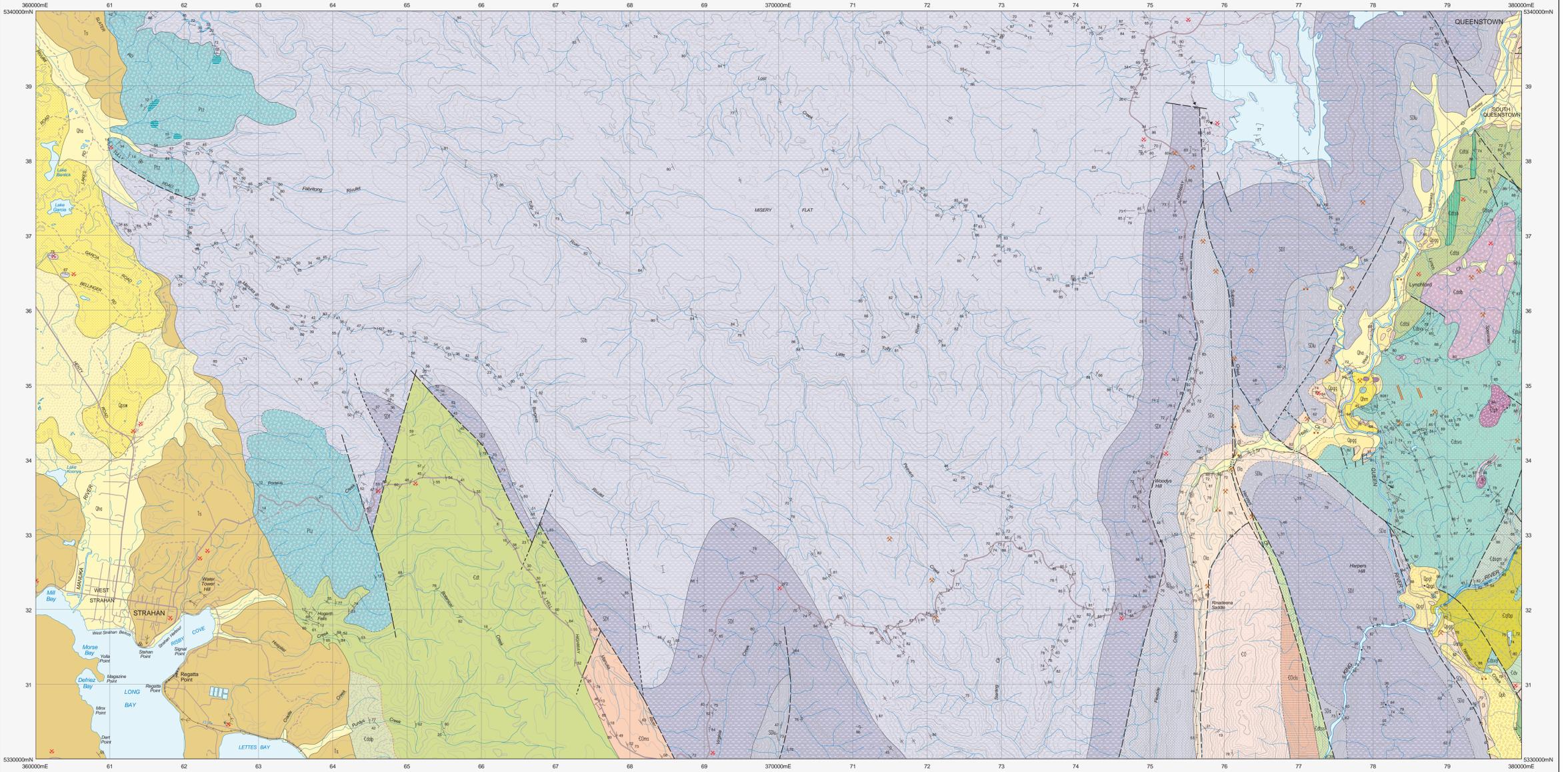


# STRAHAN EAST

Scale: 1:25 000



### COMPOSITE LEGEND FOR STRAHAN EAST AND STRAHAN WEST

| PERIOD   | UNIT              | DESCRIPTION  |
|--|-------------------|--|
| CENOZOIC   | Quaternary        | Qhm: Man-made deposits, including mine dumps and disturbed ground (Qhm).   |
|  | Quaternary        | Qhs: Stream alluvium, swamp and marsh deposits (Qhs).  |
|  | Quaternary        | Qhd: Younger active dune, beach sand and gravel (Qhd).   |
|  | Quaternary        | Qps: Older aeolian sand and sand dunes (Qps).  |
|  | Quaternary        | Qpw: Older aeolian sand dunes (Qpw).   |
|  | Pleistocene       | Qpb: Boulder slope and fan deposits, commonly with leveed channels, probably partly of glacial origin (Qpb).   |
|  | Pleistocene       | Qpg: Undifferentiated Pleistocene glacial deposits (Qpg).  |
|  | Pleistocene       | Qgt: Deeply weathered till, outwash gravel and lacustrine sediments. Reversed magnetic polarity indicate age > 730000 ybp. Deposits of Loda glaciation (Qgt). Dominant erratic at 378500mE - 332300mE (Qgt). |
|  | Pleistocene       | Qs: Mostly outwash gravels (Qs).   |
|  | Pleistocene       | Qst: Tilted and associated glaciogenic rocks (correlate of Wynyard Tillite) (Qst).   |
| PALEOZOIC  | Permian           | Ptz: Rhythmite horizon (Ptz).  |
|  | Silurian/Devonian | Sd: Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bul Shale and correlatives) (Sd).   |
|  |                   | Sdb: Fine-grained quartz sandstone with minor siltstone and mudstone (correlates of Innesia Formation) (Sdb).  |
|  |                   | Sda: Mainly mudstone and siltstone with minor sandstone and rare limestone (correlates of Acheron Formation) (Sda).  |
|  |                   | Sdi: 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 (Criffy Formation and correlatives) (Sdi). |
|  |                   | Sdii: Mainly siltstone and fine-grained sandstone ('Windermere Shale' and correlatives) (Sdii).  |
|  | Cambrian          | O: Limestone with some interbedded siltstone in places. Commonly decomposed to black clay 'pudding' (Gordon Limestone) (O).  |
|  |                   | Omp: Dry to pink quartz sandstone with basal pebble-cobble conglomerate, trace fossils and crinoid stems in upper part (Flower Bed) and corallites (Omp).  |
|  |                   | OCms: Interbedded laminated siltstone, micaceous sandstone, graded greywacke, quartzite and minor siliceous conglomerate in Lower King river area (correlates of Newton Creek Sandstone) (OCms).             |
|  |                   | OCds: Green to grey, thin bedded micaceous siltstone and sandstone (OCds).   |
| OCsp: Well bedded micaceous quartzwacke, sandstone and minor mudstone (Waters Ridge Sandstone) (OCsp). |                   |  |

| PERIOD    | UNIT              | DESCRIPTION   |
|-----------|-------------------|---|
| PALEOZOIC | Cambrian Series 3 | Cd1: 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 Lynch Creek) (Cd1). |
|           |                   | Cd2: Mainly well-bedded quartz-feldspar crystal-rich volcanoclastic sandstone with minor siltstone and volcanoclastic conglomerate, graded bedding common (Cd2).  |
|           |                   | Cd3: Mainly volcanoclastic sandstone and breccia (quartz-feldspar +/- pyroxene-phyric) with minor vitric ash, conglomerate, sandstone and siltstone, Lynchford Member or Lower Lynchford Group (Cd3).                                       |
|           |                   | Cd4: Mainly thin-bedded siltstone and mudstone with subordinate volcanoclastic sandstone (Cd4).   |
|           |                   | Cd5: Brown-weathering lava, breccia and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (Cd5).  |
|           | Cambrian Series 2 | Cd6: Interbedded andesitic to basaltic lavas/intrusives with some crystal lithic rich volcanoclastic sediments and minor acid volcanics in the Pine Cove Creek area (Cd6).  |
|           |                   | Cd7: Dominantly feldspar-phyric volcanic and volcanoclastic rocks, with some andesitic to basaltic volcanics (Cd7).   |
|           |                   | Cd8: Mainly feldspar (+ quartz)-phyric lavas and possible intrusives (crypto-domes?), commonly with a sparguillite or snowflake textured groundmass. Columnar jointing in some places (Cd8).  |
|           |                   | Cd9: Mixed sequence of bedded volcanoclastic sandstone, siltstone, mudstone and breccia, typically quartz-feldspar-bearing, with some andesitic lavas and intrusives (Cd9).   |
|           |                   | Cd10: Dominantly greywacke and mudstone with some interbedded vitric tuff, crystal tuff and crystal-lithic tuff (Cd10).   |

| PERIOD          | UNIT  | DESCRIPTION |
|-----------------|---|-------------|
| INTRUSIVE ROCKS | qv: Quartz vein (qv).   |             |
|                 | Cdvi: Mainly feldspar (+ quartz)-phyric lavas and possible intrusives (crypto-domes?) commonly with a sparguillite or snowflake textured groundmass. Columnar jointing in some places (Cdvi). |             |
|                 | Cdviip: Quartz-feldspar-biotite-porphyr - mainly intrusive but may be partly extrusive (Cdviip).  |             |
|                 | Cdviip: Feldspar-pyroxene-hornblende porphyry (Cdviip).   |             |
|                 | Cdviip: Brown-weathering lava, breccia, and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (Cdviip).                       |             |

| SYMBOL        | DESCRIPTION  |
|---------------|--|
| —             | Geological boundary - position accurate or approximate.          |
| - - - - -     | Geological boundary - inferred.                                  |
| - · - · - · - | Geological boundary inferred from airborne magnetic data.        |
| - - - - -     | Fault - unspecified type, position accurate or approximate.      |
| - · - · - · - | Fault - unspecified type, position inferred.                     |
| · - · - · - · | Fault - unspecified type, position concealed.                    |
| —             | Lineament visible in airborne radiometric data.                  |
| —             | Axial surface trace of major antiform.                           |
| —             | Axial surface trace of major synform.                            |
| (White line)  | Limit of mapping of sub-unit within undifferentiated rock units. |

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

A BAILLIE et al. 1977, Strahan, Geological Atlas 1:50 000 Series, Sheet 1713D, Department of Mines, Tasmania.

B CORBETT et al. 1990, 1:25 000 Geological Series, Queenstown, Tasmania Department of Mines.

C CORBETT et al. 1991, Mt Read Volcanics Project, Map 13 Geology of the Mt. Aker - Mt. Dorel area, Tasmania Department of Mines.

D Stockwell, R. 1968, Annual Report May 1967 - May 1968 - Tasmania Base Maps Project, 81, 204 - Lynford RCP Exploration Proprietary Limited, TCR 98-4200.

E Additional information based on airphoto and WTRMP geophysical data interpretation.

### RESPONSIBILITY DIAGRAM

|   |   |
|---|---|
| A | B |
| E | D |
|   | C |

### LOCATION DIAGRAM

INDEX TO ADJOINING SHEETS

|      |      |      |
|------|------|------|
| 3632 | 3633 | 3634 |
| 3633 | 3633 | 3633 |
| 3634 | 3633 | 3634 |

1:25000 maps available.

### STRAHAN EAST 3633

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

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania using G.I.S. software.

Website: www.mrt.tas.gov.au

GD484 - MGA Zone 55. Contour Interval: 20 metres.

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