MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
CHARTER, SHEET 3839

CHARTER

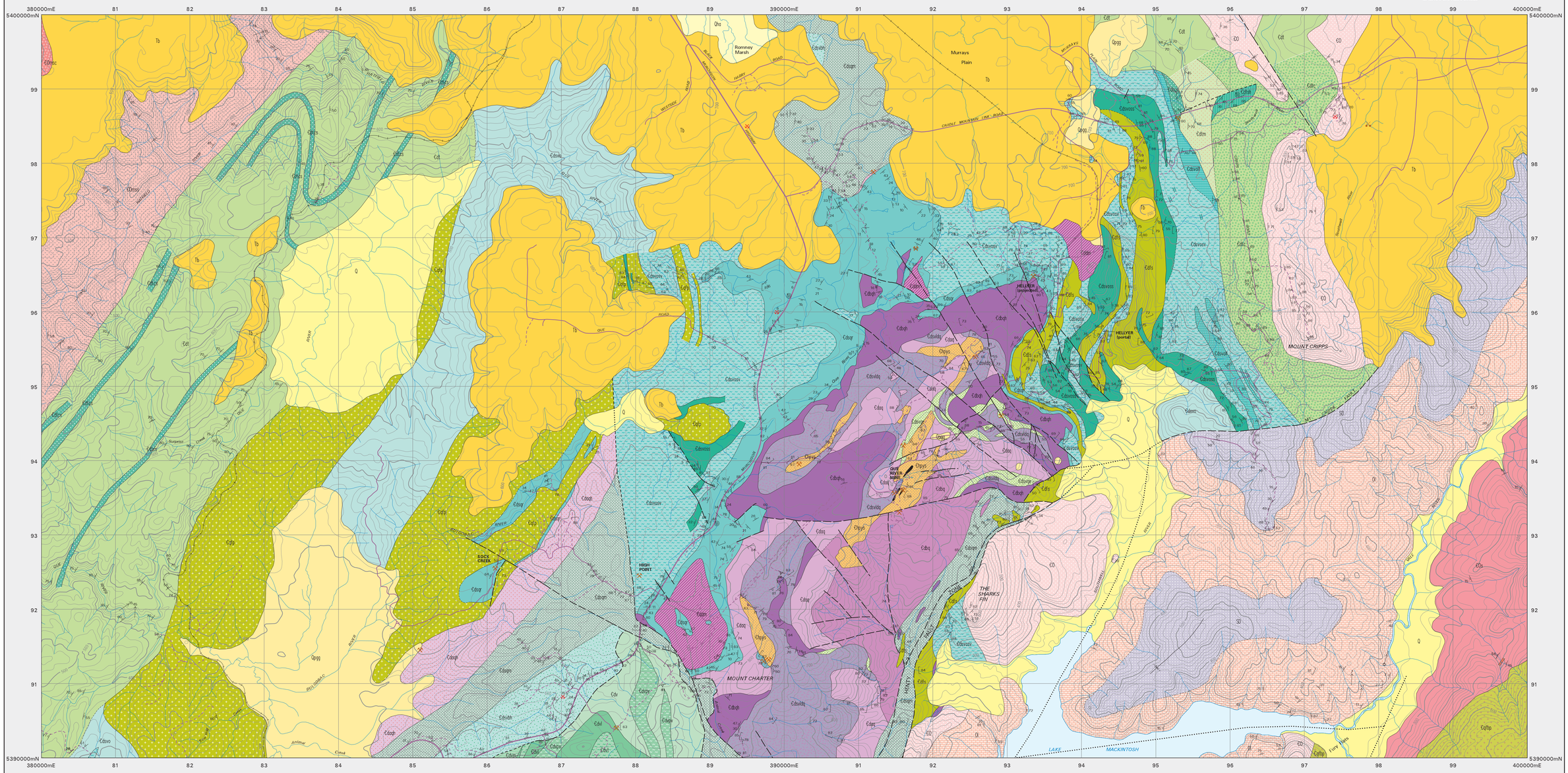
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

Qha — *Alluvium, swamp and marsh deposits (Qha).*

Qpgg — *Pleistocene glacial deposits – mostly bouldery moraine (Qpgg).*

TERTIARY

Tb — *Basalt with minor associated sediments (Tb).*

PALAEOZOIC

SILURIAN DEVONIAN — ELDON GROUP

SD — *Shallow marine quartz sandstone, siltstone and shale (SD).*

ORDOVICIAN — GORDON GROUP

Ol — *Limestone with minor siltstone and sandstone (Ol).*

LATE CAMBRIAN — OWEN GROUP, VURAVINA SUPERGROUP

€O — *Mainly siliceous conglomerate–sandstone–mudstone sequences (€O).*

€Os — *Mainly pink sandstone and granule–pebble conglomerate with minor siltstone. Clasts of chert common. Correlate of Upper Owen Sandstone (€Os).*

€Omsc — *Marine conglomerate–rich sequence with some sandstone and mudstone (€Omsc).*

€Omss — *Marine sandstone–mudstone sequence (€Omss).*

PALAEOZOIC — MIDDLE CAMBRIAN — MOUNT READ VOLCANICS

TYNDALL GROUP

€dt — *Volcaniclastic sandstone, breccia, siltstone, mudstone and conglomerate, typically quartz–feldspar–phyric (€dt).*

€dtc — *Dominantly volcaniclastic conglomerate and sandstone (€dtc).*

€dtsh — *Interbedded siltstone, shale and sandstone (€dtsh).*

€dtm — *Interbedded volcaniclastic sandstone and breccia, with minor welded tuff (correlate of Mt Julia Member) (€dtm).*

€dtsc — *Mainly siliciclastic conglomerate, sandstone and siltstone (€dtsc).*

SOUTHWELL SUBGROUP

€dsvo — *Interbedded volcaniclastic breccia, sandstone, siltstone and mudstone, with minor felsic lava and intrusive–extrusive porphyry bodies (€dsvo).*

€dfs — *Feldspar–quartz porphyry, typically with spherulitic groundmass (€dfs).*

€qfp — *Quartz–feldspar +/– biotite porphyry, mainly intrusive but may be partly extrusive (€qfp).*

€dsvosv — *Dominantly volcaniclastic sandstone and mass–flow breccia, typically quartz–feldspar–phyric (€dsvosv).*

€dsvoss — *Interbedded sandstone and siltstone (€dsvoss).*

€dsvolf — *Felsic lava, typically quartz–feldspar–phyric (€dsvolf).*

MT CHARTER GROUP

€dsqr — *Black pyritic shale, mudstone, siltstone with minor sandstone. Marine fossils in places (Que River Shale) (€dsqr).*

PALAEOZOIC — MIDDLE CAMBRIAN — MOUNT READ VOLCANICS

QUE–HELLYER VOLCANICS

€dqgh — *Andesitic to basaltic volcanics with some intercalated dacitic lavas and breccias (€dqgh).*

€dqbh — *Amygdaloidal basalt lava, pillow lava and hyaloclastite breccia ('Hellyer Basalt') (€dqbh).*

€dsvldq — *Mainly dacitic lava and breccia, typically feldspar–quartz–phyric (€dsvldq).*

€dsvqe — *Polymict 'epiclastic' breccia and grit (€dsvqe).*

€dqq — *Dominantly andesitic volcanics (€dqq).*

€dbq — *Dominantly basaltic volcanics ('Lower basalt') (€dbq).*

MOUNT CHARTER GROUP

€dsqm — *Micaceous quartzwacke with interbedded siltstone and black shale and minor volcaniclastic rocks (Animal Creek Greywacke and correlates) (€dsqm).*

€dsvbh — *Interbedded tuffaceous sandstone, vitric mudstone, minor volcaniclastic breccia (Black Harry Beds) (€dsvbh).*

CENTRAL VOLCANIC COMPLEX

€dv — *Dominantly feldspar–phyric volcanic and volcaniclastic rocks (€dv).*

€dvf — *Mainly felsic volcaniclastic and pyroclastic rocks, including pumice–bearing units (€dvf).*

€dvpv — *Pumice–bearing volcaniclastic rocks, usually with eutaxitic texture (€dvpv).*

€dvm — *Fine–grained vitriclastic mudstone (€dvm).*

€dvl — *Felsic lava, typically feldspar +/– quartz–phyric, rhyolitic to dacitic (€dvl).*

INTRUSIVE ROCKS

PALAEOZOIC — MIDDLE CAMBRIAN — MOUNT READ VOLCANICS

€qfp — *Quartz–feldspar +/– biotite porphyry, mainly intrusive (€qfp).*

€qfbp — *Quartz–feldspar–biotite +/– hornblende porphyry (€qfbp).*

€dfs — *Feldspar–quartz porphyry, typically with spherulitic ground mass (€dfs).*

€dolm — *Dolerite related to Que–Hellyer Volcanics (Mt Charter dolerite) (€dolm).*

ALTERATION AND MINERALISATION

PALAEOZOIC — MIDDLE CAMBRIAN

qv — *Major quartz vein – probably Devonian (qv).*

€xbo — *Barite body (€xbo).*

€xmo — *Metallic orebody, projected to surface or mined out in some cases (€xmo).*

€hpys — *Pyritic schist, typically with sericite +/– chlorite +/– quartz. (€hpys).*

Geological boundary – position approximate

Geological boundary – inferred

Geological boundary – transitional

Fault – position approximate

Fault – inferred

Fault – concealed

Scarp at edge of basalt plateau

Airphoto lineament

Axial surface trace of major fold, synform

Axial surface trace of major early fold, antiform

Axial surface trace of major early fold, synform

Axial surface trace of major later fold, antiform

Strike and dip of bedding – right way up; overturned; facing unknown.

Strike of vertical bedding, facing unknown.

Strike and dip of cleavage of unspecified type and relative age; vertical.

Trend and plunge of lineation of unspecified type.

Trend and plunge of minor fold hinge line, unspecified relative age.

Strike and dip of igneous banding or platy alignment.

Trend and plunge of hinge line of minor antiform, unspecified relative age.

Trend of horizontal minor fold hinge line, relative local age F2.

Field station for adjacent readings on the map.

Macrofossil locality.

Mineral deposit location – hardrock

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 K.D. Corbett, 1995 from the following sources (see Responsibility Diagram):

A Barton, C.M., et al, 1996. Mackintosh Geological atlas 1 mile series sheet 44 (8014N). Department of Mines, Tasmania.

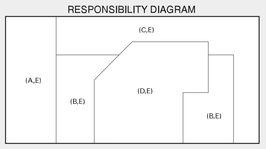
B Komyshan, P., 1986. Geology of the Mt Charter - Hellyer area. Mt Read Volcanics Project Map 1. Department of Mines, Tasmania.

C Vicary, M.J. and Pemberton, J., 1988. Geology of the Back Peak-Cradle Mountain Link Road area. Mt Read Volcanics Project Map 7. Department of Mines, Tasmania.

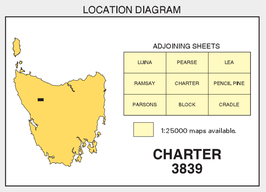
D Richardson, S.M., 1994. Exploration Licence 106/87 Lake Mackintosh Tasmania. Progress report for the period April 1993 to February 1994. Aberfoyle Resources Ltd. TCR 94-3537.

E Revised and updated after WTRMP studies by K.D. Corbett, 2003.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



ADJOINING SHEETS

LUINA	PEARSE	LEA
RAMSAY	CHARTER	PENCIL PINE
PARSONS	BLOCK	CRADLE

1:25000 maps available.

CHARTER 3839

Base data from the LIST, Copyright State of Tasmania.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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Plotfile for this map generated from digital data as at: 15-OCT-2008

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