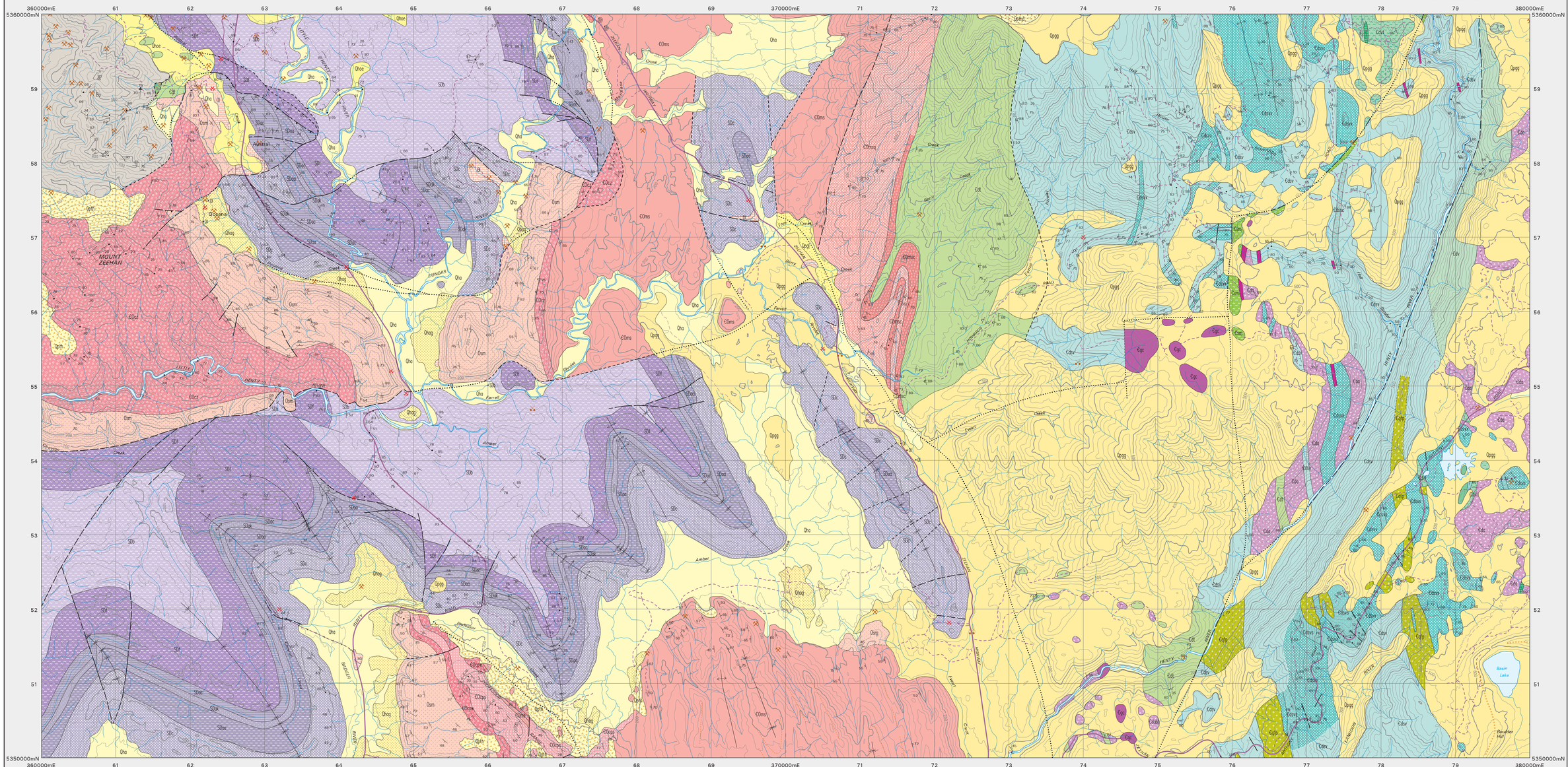
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
OCEANA, SHEET 3635

OCEANA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

HOLOCENE

- Qha / Qhag — *Stream alluvium, swamp and marsh deposits (Qha). Alluvial gravel deposits (Qhag).*
- Qpth — *Talus of unspecified type (Qpth); dominantly dolerite talus (Qpthd).*
- Qhoe — *Older alluvium, marsh deposits and eluvium (Qhoe).*

PLEISTOCENE

- Qpgg / Qpgl — *Pleistocene glacial deposits (Qpgg). Fluvioglacial and lacustrine deposits (Qpgl).*

Unconformity.

PALAEOZOIC

DEVONIAN

- SDb — *Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine–grained quartz sandstone (Bell Shale and correlates) (SDb).*
- SDf — *Generally pale grey, fine–grained quartz sandstone with subordinate interbedded greenish grey siltstone (Florence Quartzite) (SDf).*

SILURIAN

- SDac — *Greenish grey and bluish grey laminated siltstone and minor interbedded fine –grained quartz sandstone (Austral Creek Siltstone and correlates) (SDac).*
- SDak — *Pale grey to white generally fine–grained quartz sandstone (Keel Quartzite and correlates) (SDak).*
- SDaa — *Siltstone and shale (Amber Slate and correlates) (SDaa).*
- SDc — *Generally pale grey and in part pink, commonly current–bedded, fine–to coarse–grained quartz sandstone with common pebble conglomerate layers and minor interbedded pale green mudstone and siltstone (Crotty Quartzite and correlates) (SDc).*

ORDOVICIAN

- Ol — *Dark grey carbonate rocks, calcareous mudstone, minor quartz sandstone and black clay weathering products. In part fossiliferous (correlate of Gordon Limestone) (Ol).*
- Osm — *Grey to pink, commonly cross–bedded quartz sandstone coarse and pebbly towards base and with tubicular trace fossils in upper part (correlate of Moina Sandstone and Pioneer Beds) (Osm).*

LATE CAMBRIAN

- €Ocz — *Purplish massive to well–bedded, siliciclastic, mostly cobble–boulder conglomerate with minor interbedded sandstone, siltstone and red mudstone (Mt. Zeehan Conglomerate). Conglomerate clasts– ferruginous quartz sandstone 61%, quartzite 26%, vein quartz 11%, chert 2% (€Ocz).*
- €Ocpw — *White massive siliciclastic pebble–cobble conglomerate on Professor Range. Clast composition: quartzite (84%), vein quartz (13%), chert (<4%) (€Ocpw).*
- €Ocps — *Pink interbedded quartz sandstone, pebbly sandstone and sandy pebble–cobble conglomerate on Professor Range. Clast composition: quartzite (66%), chert (24%), vein quartz (7%), quartz sandstone (3%) (€Ocps).*
- €Oms — *Marine sandstone–siltstone–conglomerate sequence, siliciclastic to polymict, marine fossils in places. Includes correlates of upper Dundas Group and 'Rosebery Group' (€Oms).*
- €Omsc — *Pebble to boulder grade conglomerate with interbedded pebbly sandstone and lithicwacke (Misery Conglomerate) (€Omsc).*
- €Omsh — *Laminated green and purple siltstone and mudstone with grey–green sandstone and lithicwacke (Climie Formation and correlates) (€Omsh).*
- €Omsq — *Micaceous quartzwacke sandstone–siltstone–conglomerate sequence (€Omsq).*
- €Omsc — *Pebble to boulder grade conglomerate units, mainly siliciclastic (€Omsc).*

ELDON GROUP; GORDON LIMESTONE; WURAWINA SUPERGROUP; OWEN GROUP AND CORRELATES

PALAEOZOIC

MIDDLE CAMBRIAN

- €dt / €dabf — *Mainly volcaniclastic to polymict sandstone, breccia, siltstone, mudstone and conglomerate, typically quartz–feldspar–phyric. Marine fossils in places. Minor andesitic to basalt lavas and breccias (€dabf).* — CORRELATES OF TYNDALL GROUP
- €dsv / €qfp / €dsvv / €dsvs / €dsvc / €da — *Interbedded volcaniclastic sandstone, breccia, siltstone, mudstone and conglomerate with minor andesitic to basaltic volcanics and intrusives – extrusive porphyry bodies. Includes sequences in Howards Road area (White Spur Formation), Henty Fault Wedge, and Langdon River – Yolande River area (€dsv).* — WESTERN VOLCANO-SEDIMENTARY SEQUENCE
  - *Quartz–feldspar +/– biotite porphyry, mainly intrusive but may be partly extrusive (€qfp).*
  - *Mainly volcaniclastic sandstone and breccia and tuffaceous units, typically crystal–rich, with minor siltstone and mudstone (€dsvv).*
  - *Interbedded siltstone–sandstone–mudstone units (€dsvs).*
  - *Dominantly siliciclastic conglomerate and sandstone (€dsvc).*
  - *Andesitic to basaltic volcanics (€da).*
- €dv / €dvf / €dvl / €dvs / €da — *Dominantly feldspar–phyric volcanic and volcaniclastic rocks, with some andeiticto to basaltic volcanics (€dv).* — CENTRAL VOLCANIC COMPLEX
  - *Mainly felsic volcaniclastic and pyroclastic rocks (€dvf).*
  - *Felsic lava, typically feldspar +/– quartz–phyric, rhyolitic to dacitic (€dvl).*
  - *Shale–siltstone–sandstone units (€dvs).*
  - *Andesitic volcanics, mostly lavas, breccias and possible intrusives (Anthony Road Andesite) (€da).*

MOUNT READ VOLCANICS

PROTEROZOIC

NEOPROTEROZOIC

- Po — *Undifferentiated Oonah Formation. Dominantly quartzwacke turbidites (Po).* — OONAH FORMATION

INTRUSIVE ROCKS

PALAEOZOIC — CAMBRIAN

- €qfp — *Quartz–feldspar +/– biotite porphyry, mainly intrusive but may be partly extrusive (€qfp).*
- €gc — *Gabbro (€gc).*
- €dbc — *Basaltic dykes, typically chlorite–altered (€dbc).*
- €sm — *Mainly massive serpentinite with minor ultramafic rocks (€sm).*
- €sx — *Undifferentiated serpentinised layered pyroxenite, peridotite, gabbro and basalt (€sx).*

MT READ VOLCANICS

Geological boundary – position accurate or approximate
Geological boundary – inferred
Moraine ridge crest
(white line) *Colour boundary*
Fault – unspecified type, position accurate or approximate, downthrown side indicated where known
Fault – unspecified type, inferred
Fault – unspecified type, concealed
Thrust fault (teeth on upper plate)
Axial trace of major antiform
Axial trace of major synform
Lithological trend line, including bedding trace interpreted from aerial photographs.

- *Strike and dip of bedding, facing known – right way up; overturned; vertical, facing indicated by single tic.*
- *Strike and dip of bedding, facing unknown – dipping; vertical.*
- *Strike and dip of compositional layering – dipping; vertical.*
- *Strike and dip of igneous banding – dipping; vertical.*
- *Strike and dip of cleavage, type and relative age unspecified – dipping; vertical.*
- *Strike and dip of crenulation cleavage – dipping; vertical.*
- *Strike and dip of cleavage, relative local age S1 – dipping; vertical.*
- *Trend and plunge of palaeocurrent lineation, polarity down–plunge.*
- *Trend and plunge of hingeline of minor fold; with dip and dip direction of axial surface indicated; vertical axial surface; horizontal hingeline.*
- *Trend and plunge of hingeline of minor fold, relative local age F1, F2, F3.*
- *Strike and dip of outcrop–scale fault – dipping; vertical.*
- *Trend and plunge of slickensides.*
- *Field station for adjacent reading(s) on map.*
- *Macrofossil locality.*
- *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* } *Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*
- *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.P.McClenaghan, 1997 from the following sources (see responsibility diagram):

A Brown, A.V.; Findlay, R.H.; Goscombe, B.D.; McClenaghan, M.P.; Seymour, D.B. 1994. Zeehan Geological atlas 1:50,000 series, sheet 50 (7914S) 1994. Department of Mines Tasmania.

B Corbett, K.D. 1986: Mt Read Volcanics Project 1:25,000 map series Map 3. Geology of the Henty River - Mt Read area. Department of Mines Tasmania.

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

RESPONSIBILITY DIAGRAM

A,C	B,C

LOCATION DIAGRAM

ADJOINING SHEETS

EMMIKIRK EAST (2 MAPS)	DUNDAS	SELINA
TRIAL	OCEANA	TYNDALL
MALLANNA	PROFESSOR	GORMANSTON

1:25000 maps available.

OCEANA 3635

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.

Plotfile for this map generated from digital data as at: 11-OCT-2006

WARNING: INKS ARE LIGHT SENSITIVE