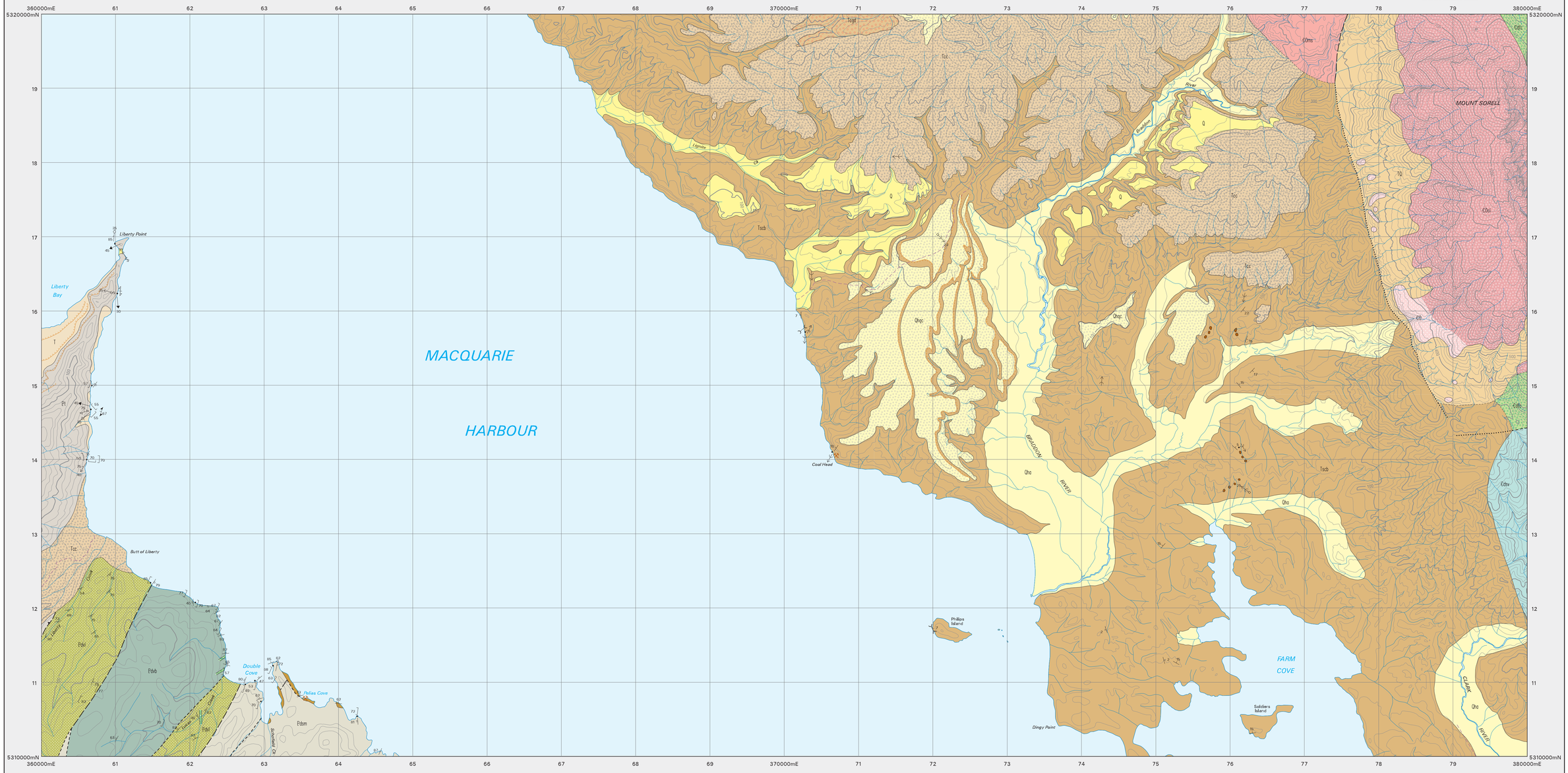
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
PHILIPS, SHEET 3631

PHILIPS

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

Q

- **Qha** — *Undifferentiated Quaternary sediments (Q). Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhqc** — *Gravels formed of well-rounded siliceous clasts in fine silt to coarse sand constituting channelised flood plain and river terrace deposits (Qhqc).*

TQ — *Undifferentiated Cainozoic sediments, including bouldery slope and fan deposits (Pleistocene? – Holocene) and possible Tertiary sediments at lower levels (TQ).*

TERTIARY

T

- **Tcc** — *Undifferentiated Tertiary (T).*
- **Tcgd** — *Poorly indurated siliceous pebble to cobble conglomerate horizons containing more than 5% dolerite clasts (Tcgd).*
- **Tscb** — *Siliceous pebble to cobble conglomerate (Tcc).*
- **Tscpb** — *Fine to medium grained quartz sandstone with carbonaceous siltstone laminae commonly containing plant stems and leaf impressions (Tscb).*
- **Tfb** — *Pebbly, calcareous sandstone commonly containing plant stems and leaf impressions (Tscpb).*
- *Silcrete or ferricrete breccia (Tfb).*

PALAEOZOIC

ORDOVICIAN

Ꞓo

- **Ꞓoms** — *Interbedded laminated siltstone, micaceous sandstone, graded greywacke and minor siliceous conglomerate (Ꞓoms).*
- **Ꞓocl** — *Mostly grey/white to pale pink pebble–cobble conglomerate interbedded with grey sandstone (correlate of Lower Owen Conglomerate) (Ꞓocl).*

OWEN GROUP

Angular unconformity.

MIDDLE – LATE CAMBRIAN

- **Ꞓdtc** — *Mainly volcaniclastic conglomerate and sandstone of Upper Tyndall Group (Ꞓdtc).*
- **Ꞓdsv** — *Dominantly felsic volcano–sedimentary rocks, typically quartz–feldspar–phyric (correlate of Yolande River Sequence) (Ꞓdsv).*

MT READ VOLCANICS

PROTEROZOIC

NEOPROTEROZOIC

- **Pdvl** — *Mudstone and basaltic lithicwacke sequence (Pdvl).*
- **Pdvb** — *Basalt with minor interbedded basalt breccias, tuffs and sedimentary rocks ('Lucas Creek Volcanics') (Pdvb).*

CORRELATE OF CRIMSON CREEK FORMATION

- **Pdsm** — *Variably calcareous mudstone, siltstone and sandstone (Pdsm).* — CORRELATE OF SUCCESS CREEK GROUP

MIDDLE PROTEROZOIC

- **Pt** — *Metamorphosed interbedded orthoquartzite and mudstone/siltstone with conglomerate horizons (Pt).* — TYENNAN REGION METASEDIMENTS

INTRUSIVE ROCKS

?CAMBRIAN

- **Ꞓgd** — *Gabbro dykes, intrusive bodies and fault–bound units (Ꞓgd).*

Geological boundary – position accurate or approximate.

Geological boundary – position inferred.

Fault – unspecified type, position accurate or approximate.

Fault – unspecified type, inferred.

Fault – unspecified type, concealed.

Thrust fault – position accurate or approximate, teeth on upper plate.

(white line) Limit of mapping of sub–unit within undifferentiated rock unit.

Scarp.

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

Strike and dip of bedding, facing unknown – dipping; vertical.

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

Strike and dip of cleavage, relative local age S1 – dipping; vertical.

Strike and dip of cleavage, relative local age S2.

Trend and plunge of hingeline of minor fold; with dip and dip direction of axial surface indicated, relative local age F1; F2; F3.

Trend and plunge of minor fold hingeline, unspecified relative age, with dip and dip direction of axial surface.

Trend and plunge of minor fold hingeline, unspecified relative age, vergence sinistral.

Generalised palaeocurrent direction – showing sense of movement; polarity unspecified.

Trend and plunge of palaeocurrent lineation, polarity down plunge.

Field station for adjacent readings on the map.

Mineral deposit location – hardrock — *Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*

Compiled by D.C. Green, 2001 from the following sources (see responsibility diagram):

A McCLENAGHAN, M.P; FINDLAY, R.H. Geological Atlas 1:50000 series, sheet 64 (7913S) Macquarie Harbour 1989. Department of Mines, Tasmania.

B BROWN, A.V; CALVER, C.R; CORBETT, K.D; FORSYTH, S.M; GOSCOMBE, B.A; GREEN, G.R; McCLENAGHAN, M.P; PEMBERTON, J.; SEYMOUR, D.B (compilation) 1995. Geological Atlas 1:250000 digital series. Geology of Southwest Tasmania. Department of Mines Tasmania.

C MATHISON, I.J. 1985. Part of EL 31/83 - Clark River area and Bird River area. EZ Co unpublished report (TCR 85-2460).

D Additional information based on airphoto and WTRMP geophysical data by M. Vicary.

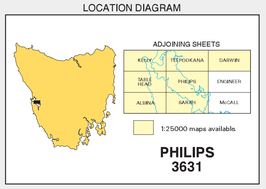
E Updated by K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program.

Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM

LOCATION DIAGRAM



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Data correct & plotfile generated: 22-APR-2005

WARNING: INKS ARE LIGHT SENSITIVE