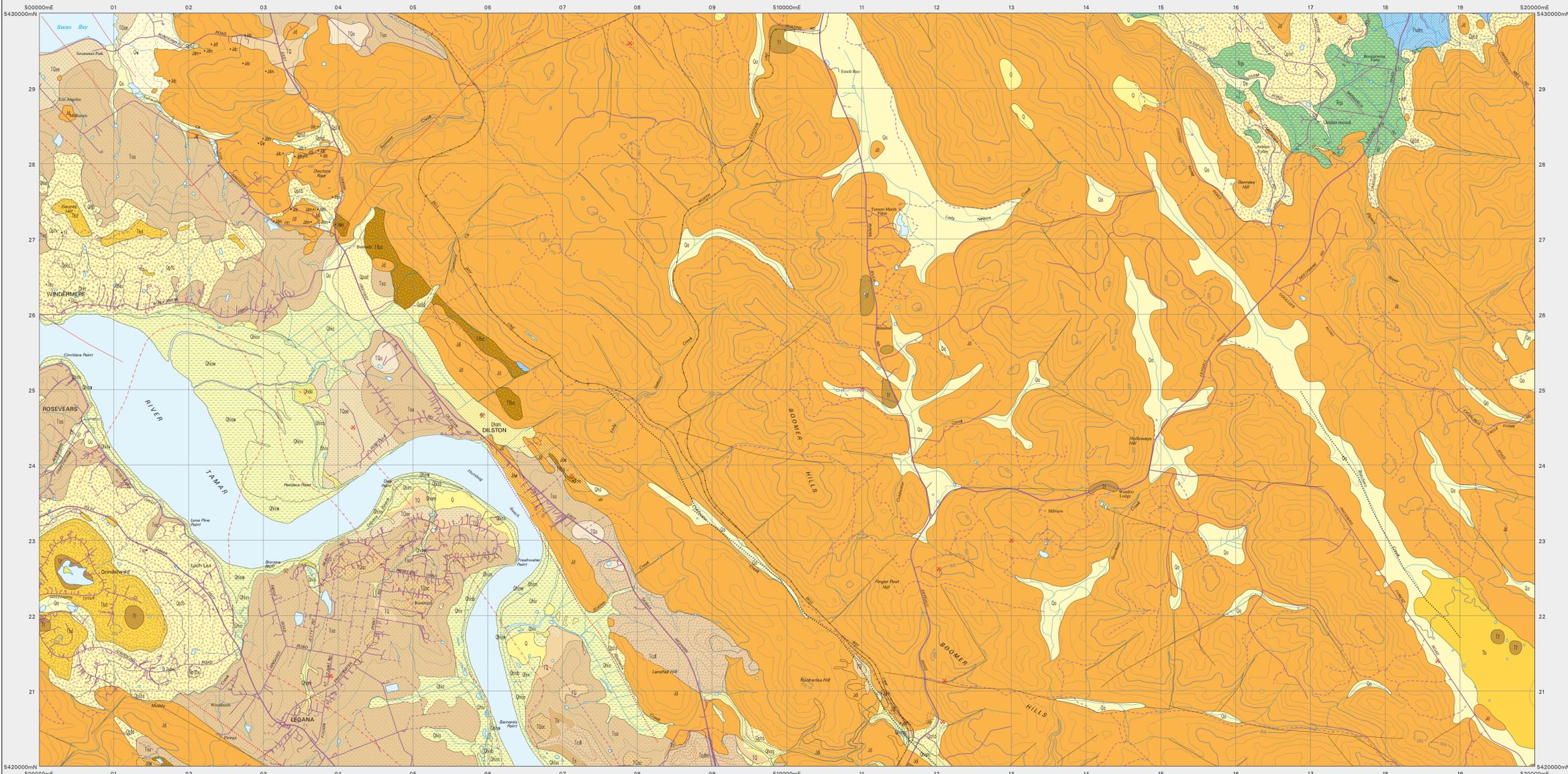


DILSTON

Scale: 1:25 000



MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
DILSTON, SHEET 5042



| PERIOD | UNIT | DESCRIPTION |
|---------------------|------|--|
| CENOZOIC QUATERNARY | Qmnm | Man-made deposits (Qmnm). |
| | Qhd | Landslip and debris flow deposits (Qhd). |
| | Qn | Estuarine deposits of clayey silt, silt, sand and mostly buried gravel in generalised tidal to shallow water sub-tidal non-vegetated environments (Qn); in tidal vegetated sediment entrapment environments (Qnv); in upper tidal to low marsh-tidal, inferred generally saline marsh environments (Qhs); in low marsh-tidal, commonly seaward, advancing, inferred brackish marsh environments (Qhb); upper-estuarine lagoon and swamp deposits of clay, silt, sand and mud (Qnl); estuarine deposits including supra-estuarine swamp and lateral alluvial deposits, unmaped non-tidal lagoon and all deposits from river branching at junctions; estuarine environments inferred to lie above common tidal influence (Qh); estuarine deposits of clayey silt, silt, sand and subordinate gravel grading upstream into alluvium with less clay and silt (Qh); |
| | Qhc | Calcareum with dolerite clasts derived from Tertiary dolerite conglomerate (Qhc). |
| | Qns | Stream alluvium, swamp and marsh deposits (Qns). |
| | Q | Alluvial and swamp deposits of gravel, sand, silt and clay, commonly with organic-rich top layer (Qm); alluvial gravel deposits (Qag). |
| | Qm | Ferricrete lag deposit (Qm). |
| | Qhd | Photointerpreted dune form (Qhd). |
| | Qa | Alluvial gravel, sand and clay (Qa). |
| | Qad | Alluvial fans predominantly of dolerite clasts (Qad). |
| PERIOD | Dw | Aeolian deposits and locally derived sand (Dw). |
| | Opac | Terrace deposit of major estuary or stream with siliceous clast gravel below present sea level, micaceous sand, silt and mud, and of probable Pleistocene age (Opac). |
| | Qnat | Alluvial terrace deposits predominantly composed of dolerite cobbles (Qnat). |
| | Qat | Talus (Qat) composed predominantly of Jurassic dolerite (Qatd); of Tertiary basalt or dolerite (Qatb) or Tertiary basalt or dolerite boulders greater than 2m (Qatbv); of ferricrete fragments (Qatf). |

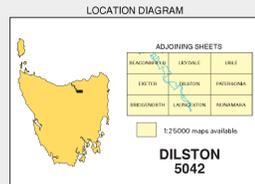
| PERIOD | UNIT | DESCRIPTION |
|-------------------|------|--|
| CENOZOIC TERTIARY | T0oc | Late Cainozoic terrace deposits of uncertain composition, generally <5m, extending to approximately 15m above sea or river level, with gravel layers above present sea level (T0oc). |
| | T0o | Late Cainozoic terrace deposits of siliceous pebble gravel and sand, cemented by iron oxides in places (T0o). |
| | T0oc | Late Cainozoic terrace deposits of siliceous pebble gravel and sand with rare boulder and cobble-sized clasts, cemented by iron oxides in places, situated 25-40m and ~30m above sea level or local base level (T0oc). |
| | Tf | Ferricrete, laterite and bauxite with cemented and soft layers (Tf). |
| | Tbc | Coarse-grained basalt (Tbc). |
| | Tb | Basalt (Tb), basaltite (Tbb), basalt insitu or displaced down slope (Tb). |
| | Ts | Undifferentiated Tertiary sediments: non-marine sequences of gravel, sand, silt, clay and siltstone (Ts). |
| | Tcd | Moderately consolidated, dominantly cobble grade with lesser pebble and boulder grade dolerite conglomerate, some sandstone and rare siltstone, common zeolite and cobble cements (Tcd); with rare horizons of mid-Tertiary leaf fossils (Tcdm). |
| | Tso | Partly consolidated clay, silt, and clayey loess sand with rare gravel and lignite; partly iron oxide-cemented layers and concretions; some leaf fossils (Tso). |
| | Tfb | Bauxite profile developed on pre-Tertiary rocks and overlain by Tertiary rocks (Tfb). |
| MESOZOIC JURASSIC | Jsd | Cross-bedded quartz sandstone, feldspathic sandstone and shale (Jsd). |
| | Jpsh | Mudstone, siltstone, poorly-sorted sandstone and minor conglomerate. Uncommon marine fossils (Jpsh). |

| PERIOD | UNIT | DESCRIPTION |
|-------------------|------|---|
| MESOZOIC JURASSIC | Jd | Dolerite (Jd). Dolerite of granitoid 0.7-15mm (Jd); 15-3mm (Jdm); 5-iron (Jds); >5mm (Jdc) indicated inferred dolerite beneath soil or Cainozoic deposits (Jd). |
| | Jdw | Predominantly deeply-weathered dolerite (Jdw). |

- ### INTRUSIVE ROCKS
- Geological boundary - position accurate or approximate.
 - Geological boundary - inferred.
 - Transitional geological boundary.
 - Lithological trend line.
 - Lineament visible on aerial photographs.
 - Magnetic gradient or lineament (Direction towards lower values indicated).
 - Lineament visible in airborne magnetic data.
 - Fault - concealed, inferred from airborne magnetic data.
 - Limit of mapping of sub-unit within undifferentiated rock unit (colour boundary).

- Strike and dip of bedding, right way up.
- Notable small outcrop with rock unit indicated.
- 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 S.M. Foyth and C.R. Calver 2005 with reference to Longman and others 1993; (see responsibility diagram)
A Calver, C.R. 1:25,000 mapping 2001-2003
B Foyth, S.M. 1988. Geology map, Launceston area. Urban Engineering Geology Series, Tasmania Geological Survey (recompiled 2005).
C Foyth, S.M. 1:25,000 mapping 1991-1993.
D Longman, M.J., Matthews, V.L.; Ross, S.M. 1963. Launceston 1:63,360 Geological Map, revised by C.R. Calver.
E Foyth, S.M. Aerial photo interpretation, 2005.



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Map produced by the Data Management Branch of Mineral Resources Tasmania using GIS software.
AID64 - AMG Zone 55. Contour Interval: 20 metres.
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