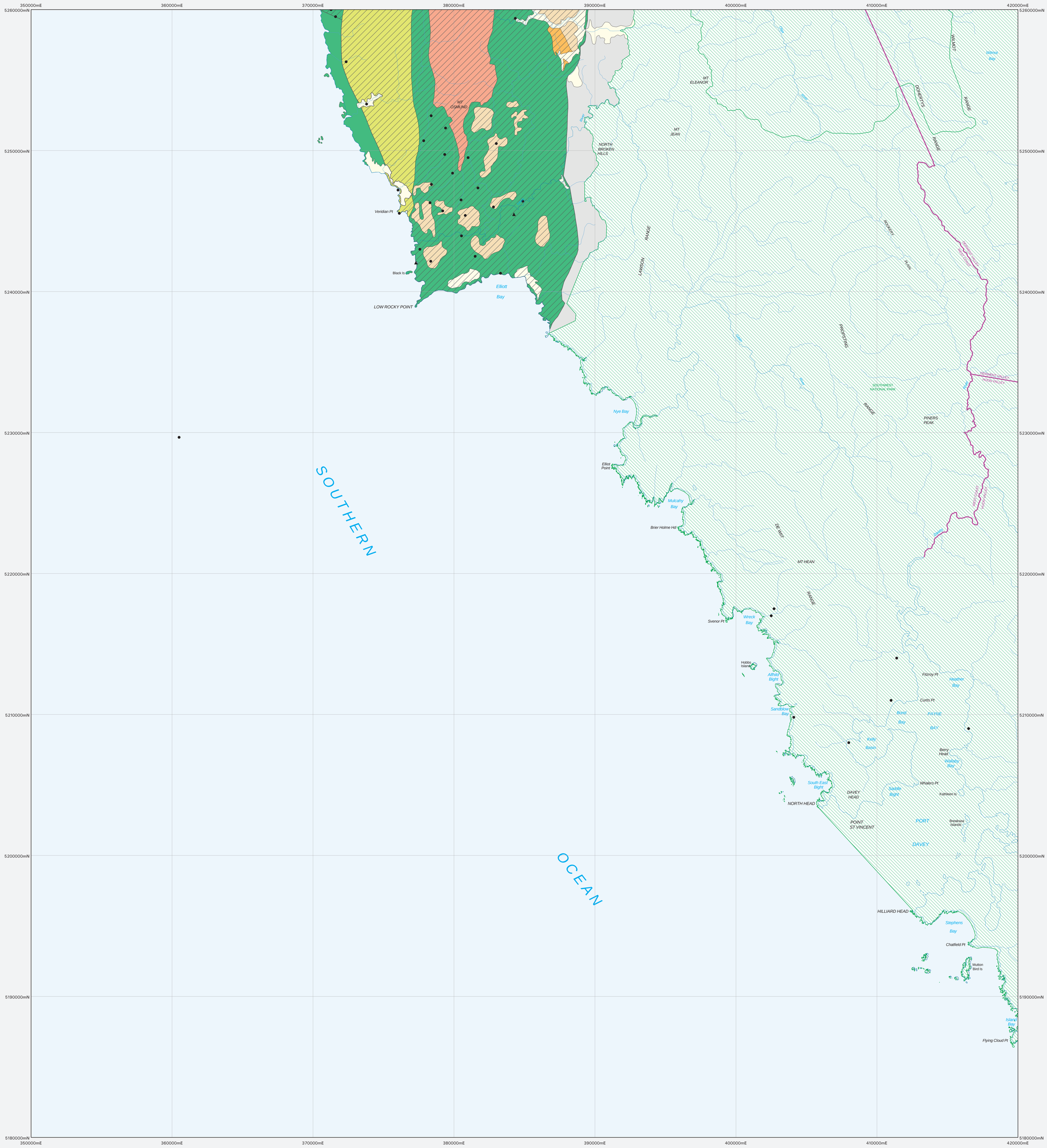
MUNICIPAL PLANNING INFORMATION SERIES
TASMANIAN GEOLOGICAL SURVEY
MINERAL RESOURCES TASMANIA

MAP 18A – SIMPLIFIED GEOLOGY AND AREAS OF HIGHEST MINERAL EXPLORATION AND MINING POTENTIAL

MINERAL RESOURCES TASMANIA
Tasmania
ENERGY and RESOURCES
DEPARTMENT of INFRASTRUCTURE



QUATERNARY 0 – 1.8 million years before present
- Gravel, sand, clay, mud and minor limestone.

TERTIARY 1.8 – 65 million years before present
- Unconsolidated or cemented gravel, sand, silt and clay, minor limestone and brown coal.
- Basalt and related sediments.

CRETACEOUS 65 – 141 million years before present
- Intrusive and volcanic igneous rocks of various compositions (Cygnet and Cape Portland areas only).

JURASSIC 141 – 205 million years before present
- Dolerite.

TRIASSIC 205 – 251 million years before present
- Sandstone and mudstone, minor black coal, basalt and volcanic sediments.

PERMIAN – LATE CARBONIFEROUS 251 – 314 million years before present
- Mudstone, pebbly mudstone, sandstone and conglomerate, minor limestone, black coal and oil shale.

EARLY CARBONIFEROUS – ORDOVICIAN 340 – 490 million years before present
- Granite and related intrusive and minor volcanic igneous rocks of various compositions.
- Folded and locally deformed sandstone, quartzite, siltstone, shale and slate, minor quartz veining.

ORDOVICIAN 434 – 490 million years before present
- Limestone and minor sandstone, siltstone and shale.

MIDDLE ORDOVICIAN – LATE CAMBRIAN 460 – 500 million years before present
- Folded and locally deformed conglomerate, sandstone, quartzite, siltstone and shale.

LATE – MIDDLE CAMBRIAN 490 – 510 million years before present
- Folded, deformed and altered volcanic rocks of various compositions, and related intrusive igneous rocks, sandstone, siltstone and conglomerate (includes Mt Read Volcanics).

MIDDLE – EARLY CAMBRIAN 510 – 545 million years before present
- Serpentinite and greenstones. Deformed and metamorphosed volcanic and intrusive igneous rocks of ultra mafic and basaltic compositions, and associated sandstone, mudstone and chert.

NEOPROTEROZOIC 545 – 1000 million years before present
- Deformed and metamorphosed basaltic volcanic rocks and associated sandstone, siltstone, shale, dolomite, chert and schist.

MESOPROTEROZOIC 1000 – 1600 million years before present
- Granite (King Island only).
- Deformed and metamorphosed quartzite, slate, siltstone, conglomerate, schist and dolomite.

- Areas of highly prospective rocks. These areas have a high potential for exploration and mine development, especially in the vicinity of existing mine sites and prospects, as indicated.

Note: Land outside the highly prospective areas, except Reserved Land, can still be subject to exploration and mining tenements.

- Reserved land / Land unavailable for exploration and mining tenement application.
- Municipality boundary.
- ★ Active Mine
- ▲ Abandoned Mine
- ● Prospect or Mineral Occurence

THIS MAP SHOULD BE USED IN CONJUNCTION WITH MAP B – MINING LEASES AND ACTIVE MINES, PITS AND QUARRIES.

Scale: 1:100000

0 2 4 6 8 10km

AGD66 – AMG Zone 55
Contour Interval: 100 metres

The simplified geology for this map is derived from the 1:250000 digital geology of Tasmania.

Mineral potential data compiled by K.Morrison M.Econ.Geol. (based on Weighted Composite Mineral Potential infomation compiled for the Tasmanian Regional Forest Agreement).

Mineral deposit information derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

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

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

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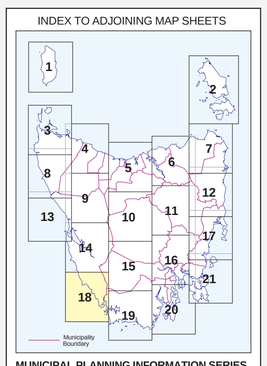
INDEX TO ADJOINING MAP SHEETS



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MAP 18A

WARNING: INKS ARE LIGHT SENSITIVE

/covers/project/tas_prospectivity/amls/geol100.aml Data correct & plotfile generated: December 04, 2006