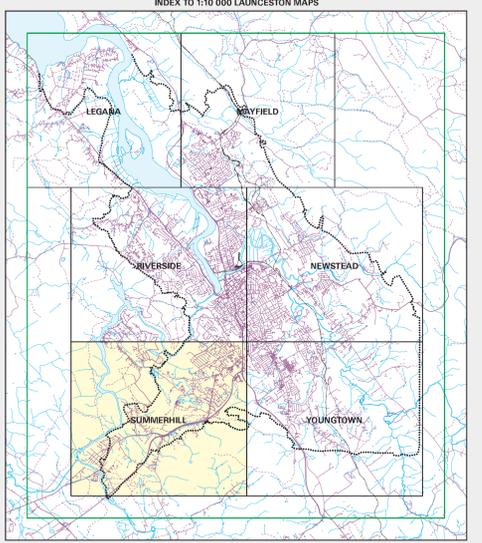
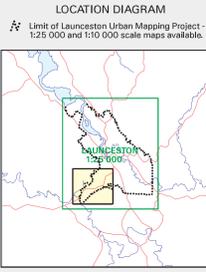
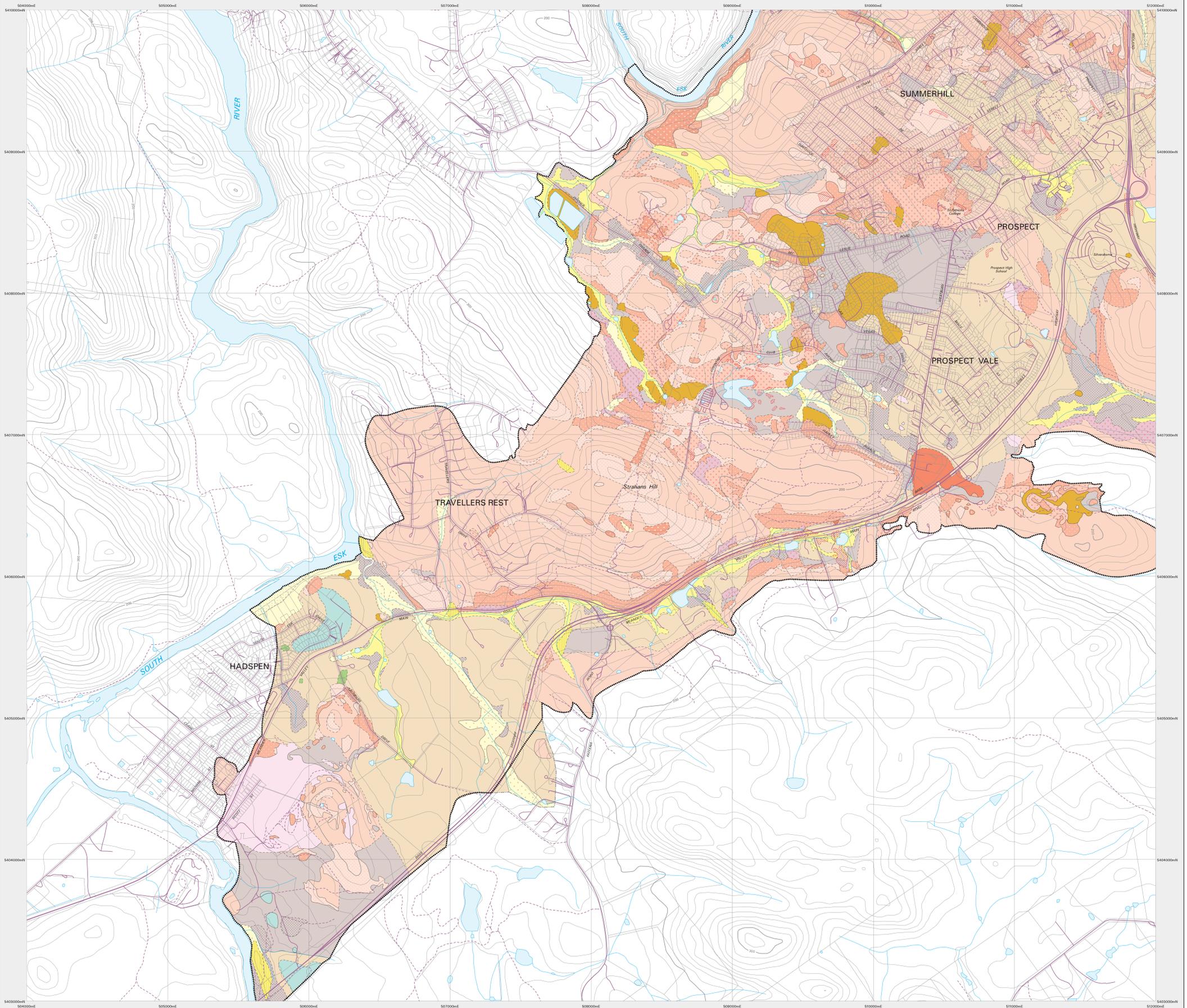


**MINERAL RESOURCES TASMANIA
LAUNCESTON - ENGINEERING GEOLOGY
SUMMERHILL**



SEDIMENTARY DEPOSITS

QUATERNARY	Undifferentiated alluvial, estuarine, slope and aeolian deposits.
QUATERNARY	Undifferentiated alluvial, estuarine and associated deposits.
QUATERNARY	Alluvial estuarine deltas and swamp deposits along major water courses.
QUATERNARY	Fossiliferous and shaly submerged estuarine and swamp deposits.
QUATERNARY	Alluvium along minor streams.
QUATERNARY	Low terrace and fan deposits in estuarine areas and major valleys.
QUATERNARY	Talus and slope deposits derived from Cainozoic sediments.
QUATERNARY	Talus and slope deposits derived from dolerite or basalt.
QUATERNARY	Aeolian sand, localised slope deposits of sand.
QUATERNARY	Terrace deposits of major streams 10 - 70m above local base level.
TERTIARY	Ferruginous, laterite and bauxite zones, cemented and soft layers locally.
TERTIARY	Fluvio-lacustrine deposits, silt, mudstone and sandstone.
TERTIARY	Dolerite conglomerate.
TRIASSIC	Interbedded alluvial sandstone, conglomerate and mudstone.
PERMIAN	Quartz sandstone, shaly siltstone.
PERMIAN	Sandy clayey siltstone, medium bedded.

IGNEOUS ROCKS

TERTIARY	Basalt and weathered basalt.
JURASSIC	Undifferentiated dolerite and weathered dolerite.
JURASSIC	Extensive in situ unweathered dolerite exposed.
JURASSIC	In situ unweathered dolerite rock, weathered rock exposed, boulders.
JURASSIC	Dolerite bedrock not generally exposed except for boulders in residual clay.
JURASSIC	Dolerite bedrock not generally exposed at surface.
CAINOZOIC	Cainozoic sediments and soils on sedimentary and igneous rocks.
CAINOZOIC	Unconsolidated to slightly lithified sedimentary deposits.
CAINOZOIC	Reclaimed land and fill material.

THIS MAP IS TO BE USED FOR GENERAL GUIDANCE ONLY AND DOES NOT REMOVE THE NEED FOR SITE SPECIFIC INVESTIGATIONS

This map forms part of a project funded jointly by the Launceston City Council, West Tamar Council, Meander Valley Council and Mineral Resources Tasmania.

Field work for the study was carried out by Project Geologist S. M. Forsyth, Mineral Resources Tasmania between 1991 and 1993.

Reference this map as: Forsyth, S.M., 1996, Geology Map, Launceston Area, Urban Engineering Geology Series, Tasmanian Geological Survey.

Digital base information from Information and Land Services, Department of Primary Industries, Water and Environment. Cadastre information (depicted in grey), as at April 2003 and supplied by Information and Land Services, Department of Primary Industries, Water and Environment.

Map produced September 2003 by Data Management Branch, Mineral Resources Tasmania using G.I.S. software. AGID66 - AMG Zone 55. Contour Interval: 20 metres.

CROWN COPYRIGHT RESERVED

For more details on soil descriptions and physical properties see separate Engineering Geology Legend.
(I:\covers\project\eng_geol\launceston\plots\legend\eng_aml)

While every care has been taken in the preparation of this data, the user's attention is drawn to the fact that the information and its liability is provided for general guidance only and does not constitute a warranty or any other form of assurance. The user is advised to seek professional advice before using this information for any purpose other than that for which it was intended. The user is advised to seek professional advice before using this information for any purpose other than that for which it was intended.