

UNPUBLISHED REPORT 1965/29

Investigation of land at Margate

by M. J. Longman

The site investigated is situated between the Channel Highway and the coastline south-east of Margate township and adjacent to the Margate jetty (fig. 1). The land is flat, mainly cleared and used for apple orchards and grazing.

Previous drilling

A water bore $\frac{1}{4}$ mile to the north on K. M. Thomson's property showed the following sequence.

0	–	45'	clay
45'	–	55'	clay and dolerite pebbles
55'	–	98'	mudstone (Permian)

Geology

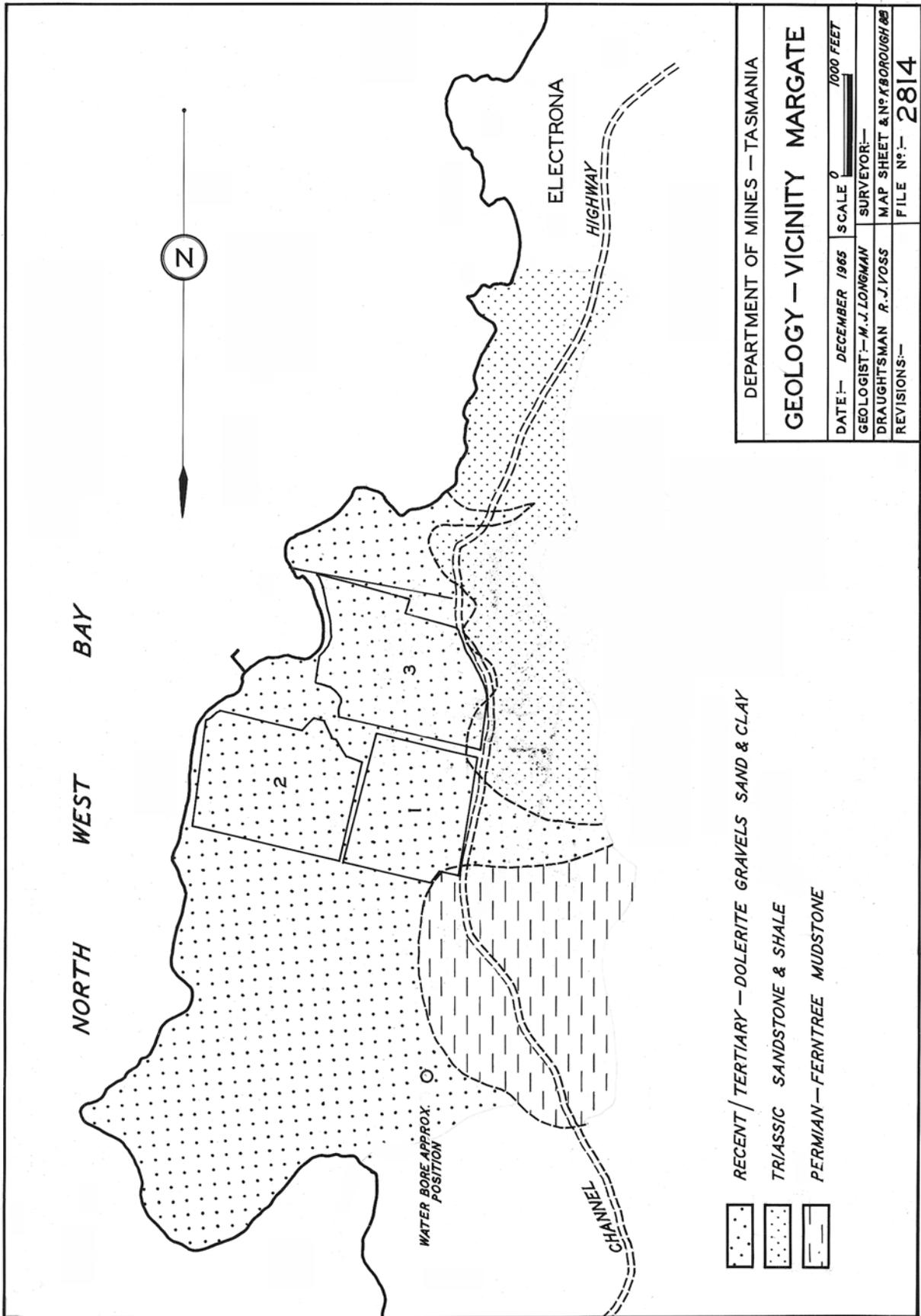
The site is located on an infilled Tertiary valley which can be traced to the north, with the western margin exposed near Margate and deepening eastwards, with a depth of 55 feet shown in Thomson's bore. The sediments, Tertiary to Recent in age, which fill the valley are composed of:

- dolerite and chert gravel in a clayey matrix, which outcrops along the shoreline adjacent to areas 2 and 3;
- clay outcropping near Margate jetty, Beach Road and Thomson's bore; and
- coarse quartz and dolerite sand exposed on the shoreline near Beach Road.

Other rocks in the area are Triassic sandstone outcropping on the shoreline north of Electrona, which is the source of the fine quartz sand and clay on the western margin of area 3 and the south-western corner of area 1, and Permian mudstone which outcrops along the Channel Highway at Margate and in the north-west corner of area 1.

These Permian and Triassic rocks underlie the Recent–Tertiary sediments of the site but the exact position is impossible to determine from surface information.

[14 December 1965]



-  RECENT / TERTIARY — DOLERITE GRAVELS SAND & CLAY
-  TRIASSIC SANDSTONE & SHALE
-  PERMIAN — FERNTREE MUDSTONE

DEPARTMENT OF MINES — TASMANIA

GEOLOGY — VICINITY MARGATE

DATE:—	DECEMBER 1965	SCALE	
GEOLOGIST:—	M. J. LONGMAN	SURVEYOR:—	
DRAUGHTSMAN	R. J. FOSS	MAP SHEET & NO.	KBOROUGH 08
REVISIONS:—		FILE NO.:	2814