

**TASMANIA DEPARTMENT OF MINES
UNPUBLISHED REPORT 1987/78**

**Inspection of a proposed subdivision
at Freshwater Point, Legana**

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A proposed subdivision at Freshwater Point, Legana has been inspected. The slopes have been classed into three categories on the subdivision plan. Figure 2 shows those areas steeper than 8°. These areas are considered to be potential landslip areas if underlain by Tertiary clay. The ridge crest may be underlain by cemented sand and gravel which can be seen exposed in the small quarry adjacent to the existing dwelling. The steepest slopes occur around the eastern end of the ridge (fig. 1) where slopes of up to 12° have been measured. If these steeper areas are underlain by gravel they can be considered stable. It is therefore considered necessary to determine the stability of the upper, steeper, sections of lots 550, 551, 552, together with the lower part of lot 540 and all of lot 539. The remainder of the southeast facing ridge slopes are considered to be simple in profile with slopes of less than 8°, and are therefore considered stable. No evidence of seepage was observed at the time of inspection, apart from the small seepage area at the base of the slope; this is indicated on Figure 1.

The northwestern facing ridge slopes have a more complex topography with evidence of possible seepage indicated by vegetation. Some morphological features possibly indicate evidence of old shallow earth flows, despite the fact that the slopes are generally low. A small break of slope at the foot of the slope may indicate an old toe feature and small arcuate scarps may be present on lots 525, 526 and 523 (fig. 1). The main morphological feature is a broad shallow hollow with vegetation indicating possible seepage, in the area of lots 525, 526, 527, 528, 523 and 524. A shallow drain extends across the slope on lots 527 and 528. Gravel is exposed on the surface of the steeper part of lot 530, however as the majority of this lot and the adjacent part of lot 531 is steeper than 8° then confirmation of the existence of underlying gravel is required in order to confirm the stability of these lots.

It is recommended that further investigations are conducted in order to confirm the stability of those lots in question. If septic tank approvals are required then the possible area of seepage along the northwestern facing ridge slope should be investigated, especially considering the area may be an old shallow earthflow. It is suggested that further investigations consist of at least three backhoe test pits to depths of about two to three metres. Materials should be inspected and samples taken for analysis.

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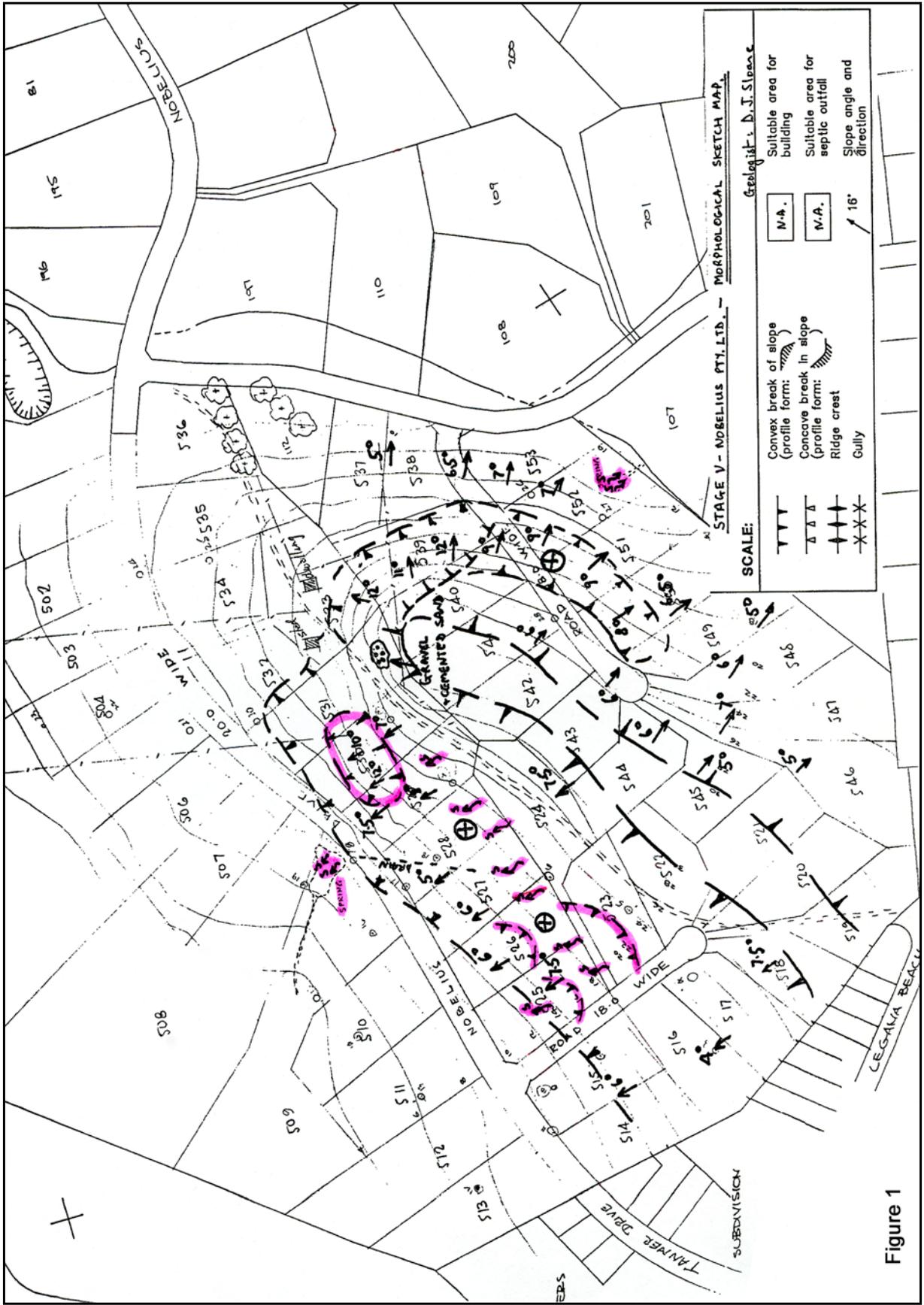


Figure 1

**STAGE 5 — NOBELIUS PTY LTD
FRESHWATER POINT SUBDIVISION**

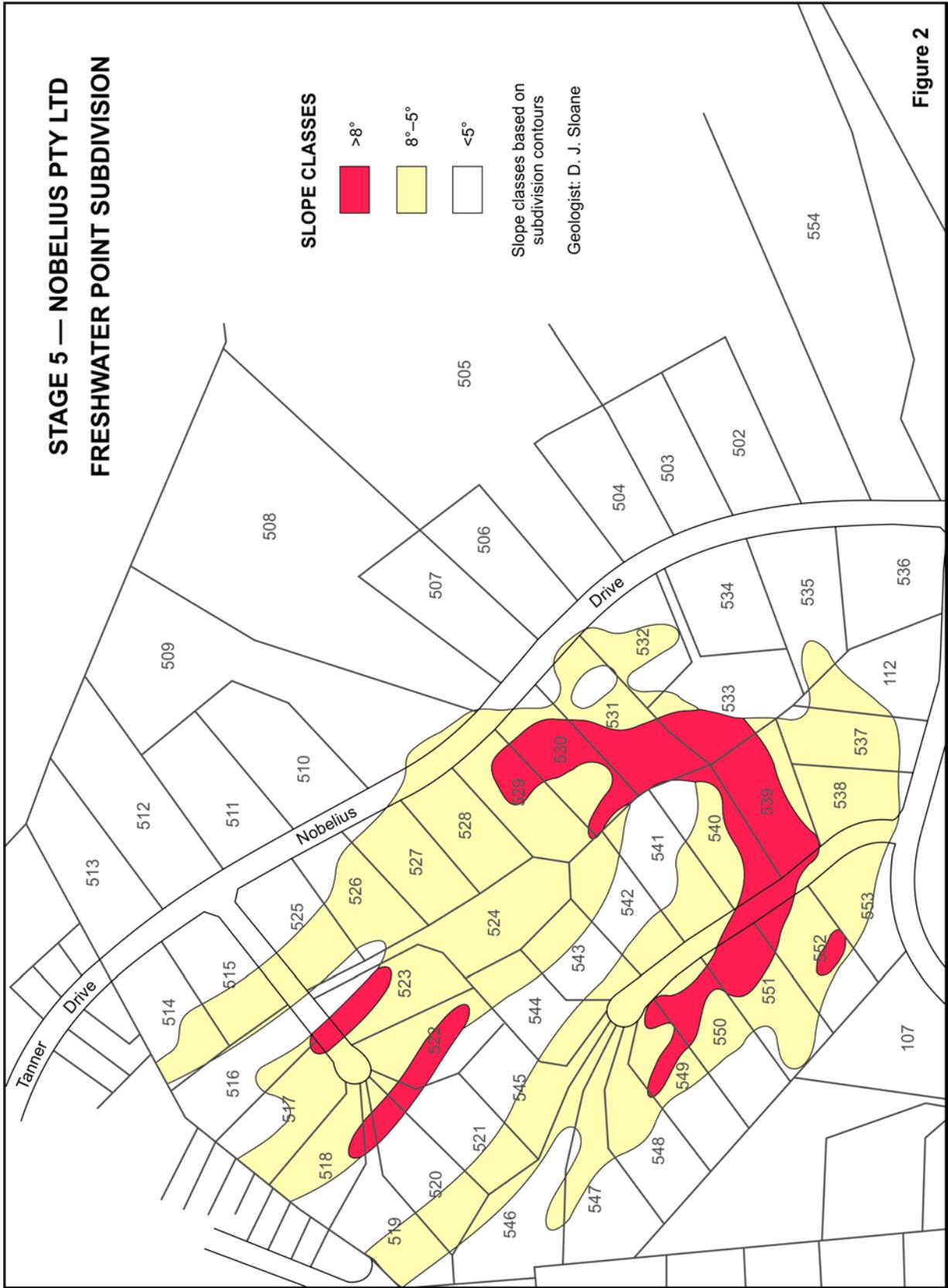


Figure 2