

## ALLUVIAL TERRACES ON QUATERNARY RECENT DEPOSITS

**Land system:** *Moe – Freehold land only*

This land type occurs along the lower reaches of the Tanjil River. It consists of broad, almost flat alluvial plains and modern alluvial terraces formed from recent deposits of sand, silt, clay and gravel (QRT, QRA). Parent materials for this alluvium include basic volcanics and sediments of Tertiary age from adjacent hilly terrain.

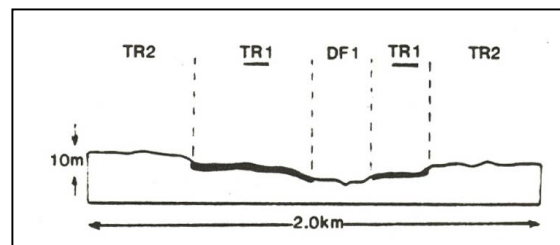
The soils are arable and adequately drained. The dominant soils are porous and loamy and have relatively shallow watertables. Erosion hazard is negligible but surface soils are prone to trampling damage when wet.

The native vegetation, now almost entirely cleared, was probably an open forest dominated by manna gum (*E. viminalis*), swamp gum (*E. ovata*) and narrow-leaf peppermint (*E. radiata*).

Two basic mapping units TR1 and TR2 have been distinguished here on the basis of elevation and soil drainage status, the former being lower and less well drained.

## ALLUVIAL TERRACES ON QUATERNARY RECENT DEPOSITS

**Map Unit:** TR1  
TR1 – Lower level terraces with somewhat poorly drained soils.



**Extent of Occurrence:**  
231 ha – along lower reaches of Tanjil River below Tanjil South (Freehold land only)

**Landscape:** Flat to very gently undulating river terraces.

*Slope Range:* 0-2%      *Elevation Range:* 55-75 m  
*Relief:* 0-4 m      *Surface Drainage:* Somewhat poorly drained

**Soils:** Gradational grey or grey brown earths (Soil Type 1).

*Classification:* Gn4.51, Gn4.52, Gn2.84  
Yellow Earths, Humic Gleys

*Depth:* Greater than 150 cm      *Surface Texture:* Loam to silt loam  
*Stone/Gravel:* -      *Profile Drainage:* Somewhat poorly drained  
*Shrink-Swell Potential:* Low      *Dispersibility:* Moderate

| CAPABILITY EVALUATION                          |           |               |               |            | Limiting Factors                              |            |                            |                     |                   |               |                   |
|--|-----------|---------------|---------------|------------|---|------------|----------------------------|---------------------|-------------------|---------------|-------------------|
| FOR  | Steepness | Site Drainage | Landslip Risk | Flood Risk | Proximity to River                            | Soil Depth | Soil Drainage/Permeability | Soil Dispersability | Soil Shrink-Swell | Stones/Gravel | Capability Rating |
| General Construction                           |           | ●             |               | ●          |   |            | ●                          |                     |                   |               | ● 3               |
| Effluent Disposal                              |           | ●             |               | ●          | ●   |            | ●                          |                     |                   |               | ● 3               |
| Erosion Risk                                   |           |               |               |            |   |            |                            |                     |                   |               | 1                 |
| <i>Dot size indicates importance of factor</i> |           |               |               |            | Overall Rating: Rural-Residential Development |            |                            |                     |                   |               | ● 3               |

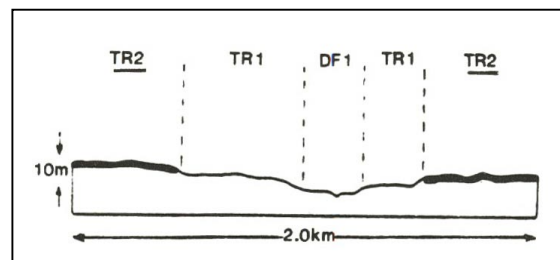
### Limitations to Development:

1. Effluent disposal and construction likely to be limited by soil permeability and drainage.

## ALLUVIAL TERRACES ON QUATERNARY RECENT DEPOSITS

**Map Unit:** TR2  
TR2 – High on level terraces with well drained soils.

**Extent of Occurrence:**  
96 ha – along lower reaches of Tanjil River below Tanjil South (Freehold land only).



**Landscape:** Flat to gently undulating higher level river terraces and areas of colluvial downwash accumulation.

*Slope Range:* 0-5%                      *Elevation Range:* 55-75 m  
*Relief:* 0-8 m                      *Surface Drainage:* Moderately well drained

**Soils:** Bleached sands and brownish sands (Soil Types 7, 8).

*Classification:* Uc2.32, Uc2.31, Uc5.11  
Podzols and Siliceous Sands

*Depth:* Greater than 150 cm                      *Surface Texture:* Loamy sand  
*Stone/Gravel:* -                      *Profile Drainage:* Well drained  
*Shrink-Swell Potential:* Low                      *Dispersibility:* Slight but slakes very readily

| CAPABILITY EVALUATION                          |           |               |               |            | Limiting Factors                              |            |                            |                     |                   |               |                   |
|--|-----------|---------------|---------------|------------|---|------------|----------------------------|---------------------|-------------------|---------------|-------------------|
| FOR  | Steepness | Site Drainage | Landslip Risk | Flood Risk | Proximity to River                            | Soil Depth | Soil Drainage/Permeability | Soil Dispersability | Soil Shrink-Swell | Stones/Gravel | Capability Rating |
| General Construction                           |           | ●             |               |            |   |            |                            |                     |                   |               | ● 2               |
| Effluent Disposal                              |           |               |               |            |   |            |                            |                     |                   |               |                   |
| Erosion Risk                                   |           |               |               |            |   |            |                            | ●                   |                   |               | ● 1               |
| <i>Dot size indicates importance of factor</i> |           |               |               |            | Overall Rating: Rural-Residential Development |            |                            |                     |                   |               | ● 2               |

**Limitations to Development:**  
1. Slight erosion hazard due to loose surface soils.