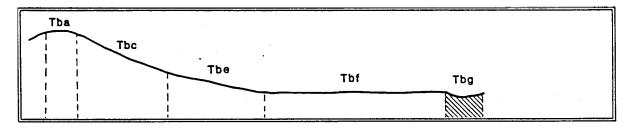
Map Unit: TERTIARY BASALT, DRAINAGE DEPRESSION Map Unit Symbol: Tbg



# **General Description:**

Broad drainage depressions are a common occurrence on these gently undulating basalt plains. During the wetter months of the year, runoff water from adjacent slopes and the extended catchment result in prolonged wet periods and flooding. The soils are moderately deep, have a low permeability and are invariable kept under introduced pasture.

Site characteristics: Site No. 38

Parent material		Depth seasonal	1.0 – 1.5 m
Age:	Tertiary	watertable:	
Lithology:	Basalt		
Landform		Potential recharge to	Low
Pattern:	Gently undulating plain	groundwater:	
Element:	Drainage depression		
Slope		Flooding risk:	High (seasonal)
common:	1%		
range:	1 – 2%		
Rock outcrop:	0%	Drainage:	Imperfectly drained
		Depth to hardrock:	> 2.0 m
		Proportion of Shire:	1%

Native vegetation: Swamp gum (mostly cleared)

**Present land use:** Grazing (native and introduced pasture)

Land	Water e	erosion	Wind	Salting	Acidification
degradation:	Sheet/rill	Gully			
Susceptibility	Moderate	Moderate	Very low	Low	Low
Incidence	Low	Low	Nil	Nil	Low

# Soil profile characteristics:

Permeability (measured - average, range):	-
(estimated):	Slow
Available water capacity:	220 mm H <sub>2</sub> O
Linear Shrinkage (B horizon):	Low (estimate)

## Soil profile description:

A<sub>1</sub> 0-23 cm Brown (10YR 5/3), clay loam, moderate subangular blocky structure 2 mm,

rough fabric, very weak consistence, pH 6.0. Clear transition to

A<sub>2</sub> 23-35 cm Brown (10YR 5/3) silty clay loam, bleached (10 YR 7/2, dry) <2% fine faint

orange-brown mottles, weak subangular blocky structure 4 mm, rough fabric,

very weak consistence, pH 7.0. Clear transition to

B<sub>21</sub> 35-52 cm Dark yellowish brown (10YR 4/6) medium clay, weak subangular blocky

structure 2 mm, rough fabric, very weak consistence, pH 7.0. Gradual

transition to

B<sub>22</sub> 52-70 cm Yellowish brown (10YR 5/6) medium clay. A few fine faint grey mottles, weak

subangular blocky structure 5 mm, rough fabric, moderately firm consistence,

<2% ferruginous gravels pH 7.0. Diffuse transition to

B<sub>23</sub> 70-150 cm+ Dark greyish brown (10YR 4/2) medium clay, medium sized distinct orange

mottles are common, moderate subangular blocky structure 5 mm, rough fabric, very firm consistence, few ferruginous and organic vegetations, pH

6.0.

#### Soil classification:

Factual Key (Northcote): Db 1.42

Australian Soil Classification: Mottled, Mesotrophic, Brown, Chromosol, very deep, medium,

clay loamy, non-gravelly

Unified Soil Group: NA

## Interpretation of soil analyses\*

Hori	zon	pН	Gravel	E.C.	Nutrient	Р	K	Al	Org.	Dispersibility
					status				matter	
A <sub>1</sub>		6.0	NA	NA	NA	NA	NA	NA	NA	L
$A_2$		7.0	NA	NA	NA	NA	NA	NA	NA	M
B <sub>21</sub>		7.0	NA	NA	NA	NA	NA	NA	NA	M
B <sub>22</sub>		7.0	NA	NA	NA	NA	NA	NA	NA	L
B <sub>23</sub>		6.0	NA	NA	MA	NA	NA	NA	NA	L

VL : Very LowL : LowM : ModerateH: HighVH : Very HighD: DeficientS: SatisfactoryT: Toxic\*\* AcidNA : Not available

### Land capability assessment

Land use	Class	Major limiting feature (s)
Agriculture (CTS values)	$C_3T_2S_3$	Moderate dispersibility of topsoil Moderate susceptibility to gully erosion
Effluent disposal (septic tanks)	4	Imperfect site drainage
Farm dams (earthen)	3	Moderate depth to hardrock, moderate permeability, moderate dispersibility of subsoil
Building foundations * slab * stumps/footings	4 4	Imperfect site drainage, high risk of seasonal flooding Imperfect site drainage high risk of seasonal flooding