Map Unit:	TERTIARY VOLC	CANIC, DRAINA	AGE	Map Unit	Symbol: Tvg
Tva Tvb		Tve	Tvf	Tvn	Tvg

## **General Description:**

This map unit identifies all the major drainage depressions within the volcanic plain situated to the south-east and north-west of Newham. The acidic topsoils, imperfect drainage and high risk of flooding reflect the low fertility and wet conditions that occur in these areas.

# Site characteristics: Site No. 25

Parent material		Depth seasonal	1.5 m
Age:	Tertiary	watertable:	
Lithology:	Volcanic		
Landform		Potential recharge to	Low
Pattern:	Gently undulating plain with isolated cones	groundwater:	
Element:	Drainage depression		
Slope		Flooding risk:	High
common:	3%	_	_
range:	1 – 5%		
Rock outcrop:	0%	Drainage:	Imperfectly drained
		Depth to hardrock:	1.5 m
		Proportion of Shire:	1.8%

Native vegetation:Swamp GumPresent land use:Grazing (introduced pastures)

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

## Soil profile characteristics:

Permeability (measured - average, range):	-
(estimated):	Slow
Available water capacity:	190 mm
Linear Shrinkage (B horizon):	9.0%

# Soil profile description:

Α	0-15 cm	Grey (10YR 4/3) clay loam, weak subangular blocky structure 3 mm, smooth fabric, loose consistence, pH 5.4. Abrupt transition to
B <sub>21</sub>	15-116 cm	Very dark greyish brown (10YR 3/2) medium clay, moderate angular blocky structure 8 mm, smooth fabric, moderately strong consistence, pH 5.8. Clear transition to
B <sub>22</sub>	116-136 cm	Dark grey (10YR 4/1) medium, clay, moderate angular blocky structure 40 mm, smooth fabric, very firm consistence, pH 6.9. Clear transition to
B <sub>23</sub>	136-151 cm	Dark greyish brown (10YR 4/2) medium clay, common distinct brownish- yellow mottles, weak angular blocky structure 15 mm moderately firm consistence pH 8.2. Gradual transition to

C 151 + cm Parent material, rock

## Soil classification:

Factual Key (Northcote):	Dd 2.13
Australian Soil Classification:	Haplic Dystrophic Black Chromosol, very deep, medium clay
	loamy, non-gravelly
Unified Soil Group:	NA

### Interpretation of soil analyses\*

Horizon	рН	Gravel	E.C.	Nutrient	Р	К	AI	Org.	Dispersibility
				status				matter	
А	5.4**	<1	VL	М	S	S	Т	Н	L
B <sub>21</sub>	5.8	3	VL	М	D	D	S	Н	L
B <sub>22</sub>	6.9	< 1	VL	Н	D	D	S	Μ	L
B <sub>23</sub>	8.2	< 1	VL	VH	D	D	S	L	L
С									
VL : Very L	ow	L : Low	Ν	A: Moderate	H:	High	VH : V	ery High	
D: Deficien	nt	S: Satis	factory 7	: Toxic	**	Acid	NA : N	ot available	

### Land capability assessment

Land use	Class	Major limiting feature (s)
Agriculture (CTS values)	C3T2S3	Moderate susceptibility to sheet/rill and gully erosion, moderate depth to seasonal groundwater table
Effluent disposal (septic tanks)	4	High flood risk, imperfect site drainage, slow permeability
Farm dams (earthen)	4	Shallow depth to hard rock
Building foundations * slab * stumps/footings	4 4	Imperfectly drained, high flooding risk Imperfectly drained, high flooding risk