

Project Name: New Farm Forest
Project Code: NFF **Site ID:** TAT **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	11/03/97	Elevation:	110 metres
Map Ref.:	Sheet No. : 7925 1:100000	Rainfall:	No Data
Northing/Long.:	5969162 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	340510 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.7 m deep, Slightly porous, Colluvium

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Backplain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Mesotrophic Grey Chromosol Medium Non-gravelly		Principal Profile Form:	N/A
Clay-loamy Clayey Moderately deep			

ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Eucalyptus grandifolia, Eucalyptus camaldulensis

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, rounded, Ferricrete

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); , 0-0% ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Moderately plastic; Normal plasticity; Very sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B2g	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 10YR44, 10-20% , 5-15mm, Faint; Medium heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Gradual, Wavy change to -
B2	0.2 - 0.5 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -
B2k	0.5 - 0.7 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 9 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -

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C 0.7 - 1 m Brown (7.5YR4/4-Moist); , 0-0% ; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm²) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Vertic, Mesotrophic, Grey Chromosol, medium, non-gravelly, clay loamy, clayey, moderate. cracks at the surface

Site Notes

TATURA, SHEPPARTON, Photos surface 78/21, 78/22, 78/23, 78/24; Vertic, Mesotrophic, Grey Chromosol, medium, non-gravelly, clay loamy, clayey, moderate. Irrigation water > 10 000 uS/cm, very poor growth

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile