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

Site Information

Desc. By:	I. Hollingsworth	**Locality:**	
Date Desc.:	06/03/97	**Elevation:**	50 metres
Map Ref.:	Sheet No. : 6829 1:100000	**Rainfall:**	No Data
Northing/Long.:	6216718 AMG zone: 54	**Runoff:**	No runoff
Easting/Lat.:	402553 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Auger boring, 0.5 m deep,Porous, Eolian sand

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Dunefield
Morph. Type:	Flat	**Relief:**	10 metres
Elem. Type:	Drainage depression	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Basic Arenic Orthic Tenosol Medium Non-gravelly Sandy Sandy Shallow

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.25 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Loamy sand; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B1w	0.25 - 0.3 m	Dark red (2.5YR3/6-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B2w	0.3 - 0.5 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 10 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
C	0.5 - 0.8 m	Yellowish red (5YR4/8-Moist); , 5YR66, 10-20% , 5-15mm, Distinct; Loamy sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Non-plastic; Normal plasticity; Non-sticky; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
D1	0.8 - 1.5 m	Reddish yellow (5YR6/8-Moist); , 5YR74, 10-20% , 5-15mm, Distinct; Clayey sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Wet; Non-plastic; Normal plasticity; Non-sticky; Field pH 10 (Raupach); Clear, Smooth change to -
D2	1.5 - 2 m	Yellowish red (5YR4/8-Moist); , 5YR64, 10-20% , 5-15mm, Distinct; Loamy sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Wet; Non-plastic; Normal plasticity; Non-sticky; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

sub-surface drainage installed in 1988

Site Notes

Waikerie, Leake's species trial. Dryland species trial in basin betwn irrigated trees, saline groundwater. Basic, Arenic, Orthic, Tenosol; medium, non-gravelly, sandy, sandy, shallow

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Laboratory Test Results:

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

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