

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

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	13/03/97	Elevation:	95 metres
Map Ref.:	Sheet No. : 7927 1:100000	Rainfall:	No Data
Northing/Long.:	6077833 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	336203 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.55 m deep, Porous, Sand

Land Form

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

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Mesotrophic Red Kandosol Medium Non-gravelly Sandy Clay-loamy Moderately deep		Principal Profile Form:	N/A

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, 12.01-20m, Mid-dense. *Species includes - Eucalyptus melliodora, Casuarina leuhmannii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, dispersed, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A12	0.2 - 0.4 m	Yellowish red (5YR4/8-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.4 - 0.55 m	Yellowish red (5YR5/8-Moist); , 0-0% ; Coarse sandy clay loam; Single grain grade of structure; Earthy fabric; Moist; Slightly 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; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
C1	0.55 - 1 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Gradual, Smooth change to -
C2	1 - 1.1 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Wet; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

DENILQUIN, KARAWATHA; Photo surface 29,30,18 and profile 17. Planted 1995. 2m spacing Kandosol, red, mesotrophic,

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Laboratory Test Results:

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

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

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