Project Name: **New Farm Forest**
Project Code: **NFF** **Site ID:** **BER1** **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. : 7029 1:100000	**Rainfall:**	No Data
Northing/Long.:	6209776 AMG zone: 54	**Runoff:**	No runoff
Easting/Lat.:	463619 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, 0.9 m deep,Porous, Eolian sand

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Dunefield
Morph. Type:	Flat	**Relief:**	3 metres
Elem. Type:	Dune	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Subpeaty Lithocalcic Calcarosol Thick Non-gravelly Sandy Clay-loamy Moderately deep

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. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, rounded, Calcrete

Profile Morphology

A11	0 - 0.2 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcrete, coarse fragments; Field pH 8.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.2 - 0.45 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcarenite, coarse fragments; Field pH 9 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
Bwk	0.45 - 0.8 m	Yellowish red (5YR5/6-Moist); , 5YR64, 10-20% , 5-15mm, Faint; , 5YR58, 10-20% , 5-15mm, Faint; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcarenite, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
Bk	0.8 - 0.9 m	Yellowish red (5YR5/6-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Calcarenite, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
Dkm	0.9 - m	; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Calcrete, Moderately cemented, Continuous, Massive;

Morphological Notes

Observation Notes

Has sandy surface missing from Ber2

Site Notes

BERRIDALE IRRIGATED WOODLOT, RIVERLAND. Photo 77/20. Epibasic, Rendic, Lithocalcic Calcareosols; thick, non-gravelly, sandy, clay loamy, moderate. good tree growth of E. camaldulensis, and E. occidentalis. E. grandis failed.

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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 C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								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