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

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 27/02/97
Map Ref.: Sheet No. : 7022 1:100000
Northing/Long.: 5843155 AMG zone: 54
Easting/Lat.: 460522 Datum: AGD66
Locality:
Elevation: 70 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Chenier plain
Relief: 2 metres
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Petroferric Brown Chromosol 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. Rainfed

Vegetation:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Eucalyptus globulus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.1 - 0.5 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.5 - 0.6 m	Brown (10YR5/3-Moist); , 7.5YR56, 0-2% , 5-15mm, Faint; Clayey sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Substrate material, coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.6 - 0.7 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56, 0-2% , 5-15mm, Faint; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Moderately sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Manganiferous pan, Weakly cemented, Discontinuous, Platy; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Sharp, Smooth change to -
D1	0.7 - 0.9 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy medium clay; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -

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D2	0.9 - 1.4 m	Light brownish grey (2.5Y6/2-Moist); , 2.5YR48, 10-20% , 5-15mm, Distinct; , 7.5YR58, 10-20% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
D3	1.4 - 1.9 m	Light grey (2.5Y7/0-Moist); , 2.5YR48, 20-50% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
D4	1.9 - 2 m	Light grey (2.5Y7/2-Moist); , 10YR58, 2-10% , 15-30mm, Distinct; , 2.5YR36, 2-10% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

MT MUIR SAND, Mottled, Petroferric?, Brown chromosol, thick, non-gravelly, sandy, clay loamy, moderate

Site Notes

MT EDWARD SE SOUTH AUSTRALIA, "red gum" type site which should be doing better, MT MUIR SAND, Mottled, Petroferric?, Brown chromosol, thick, non-gravelly, sandy, clay loamy, moderate

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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