Project Name: **New Farm Forest**
Project Code: **NFF** **Site ID:** **CUD2** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	I. Hollingsworth	**Locality:**	
Date Desc.:	20/02/97	**Elevation:**	360 metres
Map Ref.:	Sheet No. : 6628-11 1:50000	**Rainfall:**	No Data
Northing/Long.:	6138868 AMG zone: 54	**Runoff:**	No runoff
Easting/Lat.:	302330 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, Alluvium

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	**Pattern Type:**	Hills
Morph. Type:	Flat	**Relief:**	140 metres
Elem. Type:	Valley flat	**Slope Category:**	Level
Slope:	360 %	**Aspect:**	20 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol Thick Slightly gravelly Loamy Clayey 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, 12.01-20m, Closed or dense. *Species includes - Eucalyptus globulus, Eucalyptus saligna, Eucalyptus grandifolia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.3 m	Brown (7.5YR4/3-Moist); , 0-0% ; Loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Schist, coarse fragments; Field pH 6 (Raupach); Many, medium (2-5mm) roots; Clear, Smooth change to -
AB	0.3 - 0.5 m	Brown (7.5YR4/4-Moist); , 0-0% ; Sandy clay loam, fine sandy; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Schist, coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.5 - 0.7 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded tabular, dispersed, Schist, coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.7 - 0.9 m	Reddish brown (5YR4/4-Moist); , 7.5YR52, 10-20% , 5-15mm, Distinct; Light clay; Weak grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Slightly sticky; 2-10%, fine gravelly, 2-6mm, rounded tabular, dispersed, Schist, 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 -
C	0.9 - 1.1 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Slightly sticky; 2-10%, fine gravelly, 2-6mm, rounded tabular, dispersed, Schist, coarse fragments; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Alluvial flat, textures grade from loam, clay loam to sandy loam closer to the stream line

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Site Notes

CUDLEE CREEK, MT LOFTY RANGES, Fox Ck. Rd. Nursery planting, closely spaced globuls, saligna, grandis

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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