

Project Name: New Farm Forest
Project Code: NFF **Site ID:** KUI1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	18/02/97	Elevation:	340 metres
Map Ref.:	Sheet No. : 6627-IV 1:100000	Rainfall:	No Data
Northing/Long.:	6100671 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	291725 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.7 m deep,Porous, Alluvium

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Flat	Relief:	30 metres
Elem. Type:	Valley flat	Slope Category:	Very gently sloped
Slope:	4 %	Aspect:	340 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Melacic Mesotrophic Brown Chromosol Thick Non-gravelly	Principal Profile Form:	N/A
Loamy Clayey Moderately deep		

ASC Confidence:	Great Soil Group:	N/A
No analytical data are available but confidence is fair.		

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.2 - 0.3 m	Brown (10YR5/3-Moist); Light brownish grey (10YR6/2-Dry); , 10YR72, 2-10% , 5-15mm, Faint; , 5YR46, 2-10% , 5-15mm, Faint; Fine sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.3 - 0.5 m	Yellowish brown (10YR5/4-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B22	0.5 - 0.7 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
C	0.7 - 1 m	Yellowish brown (10YR5/4-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Ripped, plantation eucalypts, v. good saligna growth

Site Notes

KUITPO FOREST, SOUTHERN MT LOFTY RANGES, 1984 E. saligna

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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

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Laboratory Analyses Completed for this profile