

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

**Site Information**

<b>Desc. By:</b>	I. Hollingsworth	<b>Locality:</b>	
<b>Date Desc.:</b>	26/02/97	<b>Elevation:</b>	60 metres
<b>Map Ref.:</b>	Sheet No. : 7122    1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5826552 AMG zone: 54	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	518767    Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, 0.5 m deep, Slightly porous, Eolian sand

**Land Form**

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Chenier plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	3 metres
<b>Elem. Type:</b>	Dune	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**    Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Melacic Humosequic Semiaquic Podsol Medium Non-gravelly Sandy Sandy Shallow		<b>Principal Profile Form:</b>	N/A

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

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

Tall Strata - Tree, 3.01-6m, Closed or dense. \*Species includes - Eucalyptus baxteri

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.2 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Densipan, Moderately cemented, Continuous, Massive; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
Bhs	0.3 - 0.5 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Sharp, Tongued change to -
2B21	0.5 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 10YR51, 10-20% , 5-15mm, Distinct; Sandy medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Clear, Smooth change to -
2B22	0.6 - 0.9 m	Yellowish brown (10YR5/8-Moist); , 2.5YR48, 10-20% , 5-15mm, Distinct; , 2.5YR61, 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Clear, Smooth change to -

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

2BC1	0.9 - 1.2 m	Grey (2.5Y6/1-Moist); , 2.5YR36, 10-20% , 15-30mm, Distinct; Sandy medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (Raupach); Clear, Smooth change to -
2BC2	1.2 - 1.8 m	Light grey (5Y7/1-Moist); , 2.5YR36, 10-20% , 15-30mm, Distinct; Sandy light clay; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear, Smooth change to -
2C	1.8 - 2 m	Light grey (5Y7/1-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Moderately plastic; Normal plasticity; Very sticky;

#### **Morphological Notes**

#### **Observation Notes**

Podzol formed in the A horizon of a Mt Burr sand - a soil with a deep sandy A and clay subsoil formed in aeolian sediments. Litter layer, glossic boundary of 2B2 very tough clay limiting roots to the top 50 cm, densipan

#### **Site Notes**

COPES, WESTERN VICTORIA, planted 1989, not ripped, not mounded. Melacic, Humosequic, Semiaquic Podosol, medium, non-gravelly, sandy, sandy, shallow PHOTO surface 75/24, remnant vegetation 76/1

Project Name:

New Farm Forest

Project Code:

NFF

Site ID:

COPE

Observation ID:

1

Agency Name:

CSIRO Division of Soils (SA)

Laboratory Test Results:

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

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

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

Laboratory Analyses Completed for this profile