

**Project Name:** New Farm Forest  
**Project Code:** NFF **Site ID:** OAK1 **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>	16/04/97	<b>Elevation:</b>	94 metres
<b>Map Ref.:</b>	Sheet No. : 7826 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6059041 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	317025 Datum: AGD66	<b>Drainage:</b>	Very poorly 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, 0.8 m deep, Slightly porous, Colluvium

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	1 metres
<b>Elem. Type:</b>	Swamp	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epihypersodic Crusty Grey Vertosol Not recorded Non-gravelly Very fine Very fine Moderately deep		<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:** Cultivation. Irrigated, past or present

#### Vegetation:

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

#### Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 10YR51, 2-10% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B1g	0.1 - 0.2 m	Olive grey (5Y4/2-Moist); , 7.5YR44, 2-10% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 2-5 mm, Lenticular; Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2g	0.2 - 0.5 m	Olive grey (5Y4/2-Moist); , 7.5YR44, 2-10% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 2-5 mm, Lenticular; Massive grade of structure; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
BC	0.5 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Lenticular; Massive grade of structure; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 10 (Raupach); Clear, Smooth change to -
D	0.9 - 1.5 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Lenticular; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach);

#### Morphological Notes

#### Observation Notes

Epihypersodic, Crusty, Grey vertosol, non-gravelly, very fine, very fine, moderate, very poor drainage

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**Site Notes**

OAKBANK, DENILQUIN, Photo surface 84/6, profile 84/5, Epihypersodic, Crusty, Grey vertosol, non-gravelly, very fine, very fine, moderate. poor growth on block, poor drainage. E. camaldulensis remnant vegetation

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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 mm/h

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Laboratory Analyses Completed for this profile