

**Project Name:** New Farm Forest  
**Project Code:** NFF      **Site ID:** WAR      **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>	15/04/97	<b>Elevation:</b>	90 metres
<b>Map Ref.:</b>	Sheet No. : 7927 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6067420 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	309423 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, 1 m deep, Slightly porous, Colluvium

**Land Form**

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	2 metres
<b>Elem. Type:</b>	Swamp	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting, Surface crust

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Epipedal Grey Vertosol Not recorded Non-gravelly		<b>Principal Profile Form:</b>	N/A
Very fine Very fine Deep			

<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**

A11	0 - 0.1 m	Grey (5Y5/1-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.1 - 0.4 m	Grey (5Y5/1-Moist); , 10YR56, 10-20% , 0-5mm, Faint; , 10YR61, 10-20% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Very sticky; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B	0.4 - 0.7 m	Grey (5Y5/1-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Lenticular; Rough-ped fabric; Fine, (0 - 5) mm crack; 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; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
By	0.7 - 1.2 m	Greyish brown (2.5Y5/2-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Lenticular; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7 (Raupach); Gradual, Smooth change to -
BC	1.2 - 1.5 m	Greyish brown (2.5Y5/2-Moist); , 5Y61, 10-20% , 5-15mm, Distinct; , 2.5Y54, 10-20% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach);

**Morphological Notes**

**Observation Notes**

Mottled, Epipedal, Grey Vertosol, non-gravelly, very fine, very fine, deep. High mounds.

**Site Notes**

WARBRECCAN, DENILQUIN, Photo surface 83/9, 83/10, profile 83/11, Mottled, Epipedal, Grey Vertosol, non-gravelly, very fine,

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Laboratory Test Results:

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

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

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Laboratory Analyses Completed for this profile