

**Project Name:** New Farm Forest  
**Project Code:** NFF      **Site ID:** BAX2      **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>	95 metres
<b>Map Ref.:</b>	Sheet No. : 7926 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6064941 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	321925 Datum: AGD66	<b>Drainage:</b>	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, 0.7 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>	3 metres
<b>Elem. Type:</b>	Backplain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epihypersodic Crusty Brown Vertosol Not recorded Non-gravelly Medium 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	Brown (10YR4/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); , 10YR43, 2-10% , 5-15mm, Faint; Medium clay; Moderate grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.2 - 0.4 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth
Byk	0.4 - 0.7 m	Brown (7.5YR5/4-Moist); , 10YR53, 10-20% , 5-15mm, Faint; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
Dyk	0.7 - 1.5 m	Olive grey (5Y4/2-Moist); , 2.5Y54, 10-20% , 5-15mm, Faint; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Common (1-5 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 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

#### Observation Notes

Epihypersodic, Crusty, Brown, Vertosol, non-gravelly, medium fine, very fine, moderate, same as BAX1 with finer surface, soil pattern is evident in the adjacent ploughed field (photo 83/23)

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BAXTERS, RED BROWN CLAY, DENILQUIN, Epihypersodic, Crusty, Brown, Vertosol, non-gravelly, medium fine, very fine,

moderate. Photos surface: 83/23, 83/24, profile 84/1. Tall yellow box remnant vegetation, better tree growth than BAX1

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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

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Laboratory Analyses Completed for this profile