

Project Name: New Farm Forest
Project Code: NFF **Site ID:** BAX1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	16/04/97	Elevation:	95 metres
Map Ref.:	Sheet No. : 7926 1:100000	Rainfall:	No Data
Northing/Long.:	6064687 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	321855 Datum: AGD66	Drainage:	Very poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.8 m deep, Slightly porous, Colluvium

Land Form

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

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Mottled-Subnatric Brown Sodosol Medium Non-gravelly Clay-loamy Clayey Moderately deep		Principal Profile Form:	N/A

ASC Confidence:		Great Soil Group:	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	Dark greyish brown (10YR4/2-Moist); , 7.5YR44, 10-20% , 0-5mm, Distinct; Clay loam; Moderate grade of structure, <2 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.1 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR44, 20-50% , 0-5mm, Faint; Clay loam; Weak grade of structure, <2 mm, Subangular blocky; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B2	0.3 - 0.5 m	Brown (7.5YR4/4-Moist); , 10YR42, 20-50% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Rough-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 8 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B	0.5 - 0.8 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Weak grade of structure, 20-50 mm, Lenticular; 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; Field pH 10 (Raupach); Abrupt, Smooth change to -
Dy	0.8 - 1.2 m	Grey (5Y6/1-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Massive grade of structure; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 10 (Raupach); Abrupt, Smooth change to -
D	1.2 - 1.5 m	Grey (5Y6/1-Moist); , 0-0% ; Light medium clay; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach);

Morphological Notes

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Observation Notes

Vertic, Mottled Sub-natric, Brown Sodosol, medium, non-gravelly, clay loamy, clayey, moderate. Top of B horizon saturated and puggy

Site Notes

DENILQUIN, BAXTERS, LOAM, Photo surface 83/23, 83/24 loamy surface at BAX1 grading to red clay at BAX2, Vertic, Mottled Sub-natric, Brown Sodosol, medium, non-gravelly, clay loamy, clayey, moderate. loamy end of block, poorer growth, weedy

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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