

Project Name: New Farm Forest
Project Code: NFF **Site ID:** MUN1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	14/04/97	Elevation:	95 metres
Map Ref.:	Sheet No. : 7926 1:100000	Rainfall:	No Data
Northing/Long.:	6062574 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	319926 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.5 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): Cracking, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Episodic-Gypsic Crusty Brown Vertosol Not recorded Non-gravelly Medium fine Very fine 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

A1	0 - 0.1 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2	0.1 - 0.4 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
By	0.4 - 0.5 m	Brown (10YR5/3-Moist); , 7.5YR44, 10-20% , 5-15mm, Faint; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; 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; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach); Abrupt, Smooth change to -
D1y	0.5 - 0.7 m	Olive grey (5Y5/2-Moist); , 5Y71, 2-10% , 5-15mm, Distinct; , 7.5YR44, 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; 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; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach); Abrupt, Smooth change to -
D2y	0.7 - 1 m	Olive grey (5Y5/2-Moist); , 5Y71, 2-10% , 5-15mm, 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; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach); Abrupt, Smooth change to -

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Dg 1 - 1.5 m Light olive grey (5Y6/2-Moist); , 10YR44, 2-10% , 5-15mm, Distinct; Light medium 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; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Episodic-gypsic, Crusty, Brown Vertosol, non-gravelly, medium-fine, very fine, moderate, same profile as BAX2, bottom of bay, poor tree growth, sodic at surface, cut area in irrigation bay

Site Notes

MUNDIWA, DENILQUIN, Photo surface 84/2. Episodic-gypsic, Crusty, Brown Vertosol, non-gravelly, medium-fine, very fine, moderate, Acacia pendulosa remnant vegetation

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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