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

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 15/04/97
Map Ref.: Sheet No. : 7827 1:100000
Northing/Long.: 6078703 AMG zone: 55
Easting/Lat.: 312859 Datum: AGD66
Locality:
Elevation: 91 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Very poorly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.9 m deep,Slightly porous, Colluvium

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Backplain
Slope: 0 %
Pattern Type: Flood plain
Relief: 5 metres
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Vertic Subnatric Grey Sodosol Medium Non-gravelly Clay-loamy Clayey Deep

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: N/A

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, 2-10% , 0-5mm, Distinct; , 10YR51, 2-10% , 0-5mm, Distinct; Clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Massive grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very plastic; Normal plasticity; Very sticky; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.1 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR44, 10-20% , 0-5mm, Distinct; , 10YR51, 10-20% , 0-5mm, Distinct; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Moderately plastic; Normal plasticity; Very sticky; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.3 - 0.5 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR44, 2-10% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; 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; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.5 - 0.7 m	Dark grey (10YR4/1-Moist); , 7.5YR44, 2-10% , 0-5mm, Faint; , 10YR51, 2-10% , 0-5mm, Faint; Medium 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, Fine (0 - 2 mm), Concretions; Field pH 10 (Raupach); Gradual, Smooth change to -
Bk	0.7 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); , 0-0% ; Medium 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; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Gradual, Smooth change to -
BC	0.9 - 1.3 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y56, 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; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 10 (Raupach); Gradual, Smooth change to -

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C	1.3 - 1.5 m	Light grey (2.5Y7/1-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; Light 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; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Vertic, Sub-natric, Grey Sodosol, medium, non-gravelly, clay loamy, clayey, deep

Site Notes

DENILIQUIN, BILLINUDGEL Photos surface 83/12, profile 83/13, rice soil with alot of organic matter, 2yr old, Vertic, Sub-natric, Grey Sodosol, medium, non-gravelly, clay loamy, clayey, deep

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Laboratory Test Results:

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

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle Size Analysis				
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	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