

Project Name: New Farm Forest
Project Code: NFF **Site ID:** HIA1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	19/02/97	Elevation:	5 metres
Map Ref.:	Sheet No. : 6628-IV 1:100000	Rainfall:	No Data
Northing/Long.:	6153753 AMG zone: 54	Runoff:	No runoff
Easting/Lat.:	276788 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.7 m deep, Slightly porous, Alluvium

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Marine plain
Morph. Type:	Flat	Relief:	3 metres
Elem. Type:	Terrace plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Mottled-Mesonatric Red Sodosol Medium Non-gravelly 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

A1	0 - 0.25 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Sharp, Smooth change to -
Bt	0.25 - 0.4 m	Reddish brown (5YR4/4-Moist); , 10YR31, 2-10% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 20-50 mm, Columnar; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
Bk	0.4 - 0.7 m	Yellowish red (5YR5/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcrete, coarse fragments; Field pH 9.5 (Raupach); Clear, Smooth change to -
Ck	0.7 - 1 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Normal plasticity; Very sticky; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Waterlogged at top of B horizon

Site Notes

HIAT EFFLUENT IRRIGATION TRIAL, BOLIVAR SEWERAGE TREATMENT WORKS, ADELAIDE PLAINS, 7YRS OF EFFLUENT IRRIGATION

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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