Project Name: **WAGGA WAGGA SOIL LANDSCAPES**
Project Code: **1000448** **Site ID:** **WW111** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	Chen, XY	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	183 metres
Map Ref.:	Sheet No. : 8327 1:25000	**Rainfall:**	No Data
Northing/Long.:	6110450 AMG zone: 55	**Runoff:**	Slow
Easting/Lat.:	506850 Datum: AGD66	**Drainage:**	No Data

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Cza	**Substrate Material:**	Clay

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gn2.11
Great Soil Group: Red earth

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Dark reddish brown (5YR3/3-Moist); ; Loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Slightly plastic; Moderately sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Clear change to -
B1	0.08 - 0.4 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Very sticky; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B2	0.4 - 0.7 m	Yellowish red (5YR4/6-Moist); Mottles, 2-10% , Distinct; Medium sandy light clay; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Moderately plastic; Very sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

B2 some sand-sized aggregates difficult to break.

Observation Notes

Pit to 30cm, auger to 70cm. Sloping plain

Site Notes

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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							%
0 - 0.08	4.6B	0.12A	3J	1.7	2.1	0.6	0.5L	8.8I		6.82
0.08 - 0.4	4.4B	0.05A	2.2J	2.6	0.9	0.7	0L	5.1I		13.73
0.4 - 0.7	4.9B	0.16A	2.3J	8.8	0.9	3.2	0L	11.7I		27.35

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		2.36A	2D					2	9F	58	14	17
0.08 - 0.4		0.62A	1D					2	7F	56	15	20
0.4 - 0.7		0.11A	0D					1	16F	47	17	19

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
0 - 0.08				0.45B				0.1B		
0.08 - 0.4				0.36B				0.1B		
0.4 - 0.7				0.43B				0.21B		

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Laboratory Analyses Completed for this profile

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F2	Exchangeable aluminium by 0.01m (AgTU)+
15F3	CEC by 0.01M silver-thiourea (AgTU)+
3A1	EC of 1:5 soil/water extract
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9E	Available P (mg/kg) - Bray P
9J2	Phosphate sorption curve - automated colour
P10_GRAV	Gravel (%)
P10_HYD_C	Clay (%) - Hydrometer Method
P10_HYD_CS	Coarse Sand (%) - Hydrometer Method
P10_HYD_FS	Fine Sand (%) - Hydrometer Method
P10_HYD_Z	Silt (%) - Hydrometer Method
P3B_GV_01	0.1 BAR Moisture g/g - Gravimetric using suction plate
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate