Project Name: **WAGGA WAGGA SOIL LANDSCAPES**
Project Code: **1000448** **Site ID:** **WW118** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: Chen, XY
Date Desc.: 15/07/93
Map Ref.: Sheet No. : 8327 1:25000
Northing/Long.: 6078550 AMG zone: 55
Easting/Lat.: 542375 Datum: AGD66
Locality:
Elevation: 392 metres
Rainfall: No Data
Runoff: Slow
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Flat
Elem. Type: Plain
Slope: 2 %
Pattern Type: Terrace (alluvial)
Relief: No Data
Slope Category: No Data
Aspect: 225 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: Dy2.21
Great Soil Group: Yellow podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.12 m	Dark brown (7.5YR3/2-Moist); ; 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; Slightly plastic; Moderately sticky; Field pH 4.5 (Raupach); Common, fine (1-2mm) roots; Clear, Irregular change to -
A2	0.12 - 0.44 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Slightly plastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B2	0.44 - 0.6 m	Strong brown (7.5YR5/6-Moist); Mottles, 2-10% , Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Very sticky; Field pH 4.5 (Raupach); Few, fine (1-2mm) roots; Diffuse change to -
B3	0.6 - 0.8 m	Strong brown (7.5YR5/6-Moist); Mottles, 2-10% , Faint; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Very plastic; Very sticky; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A1 Cultivation layer?

Observation Notes

Pit to 30cm, Auger to 90cm Probably an old terrace.

Site Notes

20M WEST TRACK

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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 - 0.12	3.9B	0.12A	1.9J	0.6	0.3	0.5	2.6L	7.5I		6.67
0.12 - 0.44	3.8B	0.04A	0.8J	0.2	0.3	0.3	0.7L	1.6I		18.75
0.44 - 0.6	3.9B	0.04A	1.6J	3.7	0.4	0.5	1.4L	9.9I		5.05
0.6 - 0.8	4.1B	0.03A	0.3J	4.5	0.2	0.5	0.7L	4.3I		11.63

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 - 0.12		3.18A	10D						6F	62	22	10
0.12 - 0.44		0.32A	2D					2	8F	55	22	13
0.44 - 0.6		0.2A	1D					2	3F	30	16	49
0.6 - 0.8		0.11A	0D					6	2F	21	14	57

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 - 0.12				0.57B				0.09B	
0.12 - 0.44				0.32B				0.05B	
0.44 - 0.6				0.45B				0.19B	
0.6 - 0.8				0.51B				0.26B	

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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