

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW93 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	315 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6088275 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	533850 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Pediment
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	45 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.51
		Great Soil Group:	N/A

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.14 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Moderately sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.14 - 0.7 m	Yellowish red (5YR3/6-Moist); ; Light medium clay; Weak grade of structure, <2 mm, Granular; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Moderately plastic; Very sticky; 2-10%, medium gravelly, 6-20mm, subangular, stratified, coarse fragments; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3	0.7 - 0.9 m	Red (2.5YR4/6-Moist); Mottles, 2-10% , Distinct; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Very plastic; Very sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A	Some charcoal pieces, disturbance.
B2	A tree log at 40cm. Stones concentrated near the log.
B3	Palaeosol?

Observation Notes

On crest of a ridge of the large	pediment.	Pit to 30cm, auger to 90cm.
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Site Notes

12M S FENCE, 15M W GATE

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.14	4.5B	0.05A	3J	2.9	0.8	0.2	0.6L	7.3I		2.74
0.14 - 0.7	3.6B	0.05A	0.8J	0.9	0.4	0.3	5L	5.8I		5.17
0.7 - 0.9	3.5B	0.03A	0.6J	3.6	0.3	0.5	7.9L	10.4I		4.81

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.14		2.12A	4D						11F	57	7	25
0.14 - 0.7		0.43A	1D					21	6F	37	5	31
0.7 - 0.9		0.18A	1D					4	4F	29	3	60

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	mm/h	mm/h
				g/g - m3/m3						
0 - 0.14				0.36B				0.13B		
0.14 - 0.7				0.38B				0.17B		
0.7 - 0.9				0.51B				0.28B		

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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