

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW107 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	182 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6115825 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	509175 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	2 %	Aspect:	0 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:	Dr5.2
		Great Soil Group:	Non-calcic brown soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

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 100mm ²) Fine (1-2mm) macropores, Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Slightly plastic; Moderately sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.14 - 0.6 m	Red (2.5YR4/6-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Moderately plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3	0.6 - 0.8 m	Red (2.5YR4/6-Moist); Mottles, 2-10% , Faint; Mottles, 0-2% , Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Very plastic; Very sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Soft segregations, weak, segregations;Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 7 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

100M SW DAM

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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	4.6B	0.03A	3.2J	1.2	0.6	0.4	0L	8.1I		4.94
0.14 - 0.6	5.2B	0.03A	4.3J	3	0.4	0.4	0L	10.2I		3.92
0.6 - 0.8	5.7B	0.04A	7.1J	6	0.7	0.5	0L	13.7I		3.65

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		1.3A	1D					2	10F	55	17	16
0.14 - 0.6		0.24A	0D					4	9F	38	9	40
0.6 - 0.8		0.14A	2D					5	4F	26	8	57

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				0.41B				0.09B		
0.14 - 0.6				0.42B				0.15B		
0.6 - 0.8				0.45B				0.22B		

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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