

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW302 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	209 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6080425 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	500650 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Stagnant alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Red Chromosol Medium Non-gravelly Loamy Clayey Deep	Principal Profile Form:	Dr2.22
ASC Confidence:	Great Soil Group:	Red-brown earth
Confidence level not specified		

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Slightly plastic; Moderately sticky; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Gradual change to -
A2	0.15 - 0.25 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; Moderately plastic; Moderately sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -
B	0.25 - 0.5 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Moderately plastic; Very sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.15	5.8B	0.14A	14.5J	2.9	1.3	0.3	0L	15.7I		1.91
0.15 - 0.25	5.9B	0.07A	5.2J	2.5	1	0.3	0L	7.7I		3.90
0.25 - 0.5	6B	0.09A	6.2J	6.4	1.3	0.7	0L	12I		5.83

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle	Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay
0 - 0.15		2.87A	2D						5F	64	19 12
0.15 - 0.25		0.86A	0D						5F	61	20 14
0.25 - 0.5		0.78A	0D					4	5F	41	13 37

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 - 0.15				0.46B				0.12B		
0.15 - 0.25				0.36B				0.07B		
0.25 - 0.5				0.43B				0.17B		

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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