

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW114 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	308 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6085150 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	541475 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	27 %	Aspect:	90 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:	Dr2.21
		Great Soil Group:	Red podzolic soil

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

Vegetation:

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, subrounded tabular, Siltstone; No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Coarse sandy 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; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.15 - 0.5 m	Reddish brown (5YR4/4-Moist); Light brown (7.5YR6/4-Dry); ; Coarse sandy 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, Moderately moist; Slightly plastic; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B	0.5 - 0.9 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Siltstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Common, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations		Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Cmol (+)/kg		%
0 - 0.15	4.8B	0.06A	1J	1.4	0.9	0.5	0L	5.1l	9.80
0.15 - 0.5	5.6B	0.04A	0.7J	1.8	0.4	0.4	0L	7.1l	5.63
0.5 - 0.9	5.3B	0.04A	0.7J	7	0.6	0.5	0L	10.8l	4.63

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		1.44A	3D					5	17F	48	19 11
0.15 - 0.5		0.4A	1D					36	21F	25	11 7
0.5 - 0.9		0.45A	0D					9	9F	16	16 50

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 - 0.15				0.49B				0.1B		
0.15 - 0.5				0.29B				0.07B		
0.5 - 0.9				0.52B				0.23B		

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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