

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW12 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	245 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6119425 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	538700 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	9 %	Aspect:	90 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.52
		Great Soil Group:	Non-calcic brown soil

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

Vegetation:

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A	0 - 0.2 m	Yellowish red (5YR3/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.2 - 0.6 m	Yellowish red (5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Moderately plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
B3	0.6 - 1.2 m	Yellowish red (5YR5/8-Moist); Mottles, 20-50% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Very plastic; Very sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules, strong, segregations; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Smooth change to -
C	1.2 - 1.6 m	Yellowish brown (10YR5/6-Moist); Mottles, 2-10% , Distinct; Mottles, 0-2% , Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very plastic; Very sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Soft segregations, weak, segregations; Very few (0 - 2 %), Ferromanganiferous, Very coarse (20 - 60 mm), Soft segregations, weak, segregations; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

E P11 AT MIDSLOPE

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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 - 0.2	3.8B	0.03A	1.8J	0.6	0.8	0.6	0.1L	6I		10.00
0.2 - 0.6	5.2B	0.04A	1.6J	1	0.4	0.4	0L	3.9I		10.26
0.6 - 1.2	5.4B	0.07A	2.1J	2.1	0.6	0.7	0L	7.5I		9.33
1.2 - 1.6	6.1B	0.22A	5.6J	7.3	0.7	2.1	0L	15.6I		13.46

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 - 0.2		0.98A	1D					1	27F	50	10	12
0.2 - 0.6		0.36A	0D					1	40F	30	7	22
0.6 - 1.2		0.08A	0D					2	40F	25	8	25
1.2 - 1.6		0.09A	0D					1	20F	17	9	53

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	
				g/g -		m3/m3			
0 - 0.2				0.27B				0.06B	
0.2 - 0.6				0.23B				0.08B	
0.6 - 1.2				0.26B				0.09B	
1.2 - 1.6				0.47B				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