

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW284 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	424 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6096150 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	534125 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Sgf	Substrate Material:	Adamellite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Red Rudosol Medium Gravelly Loamy		Principal Profile Form:	Dy2.61
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

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

Vegetation:

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A1	0 - 0.08 m	Brown (7.5YR4/3-Moist); ; Coarse sandy clay loam; Massive grade of structure; 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; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear change to -
A2	0.08 - 0.2 m	Strong brown (7.5YR4/6-Moist); Reddish yellow (7.5YR6/6-Dry); ; Clay loam, sandy; Massive grade of structure; 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; Firm consistence; Moderately plastic; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
B2	0.2 - 0.6 m	Yellowish red (5YR5/8-Moist); ; Coarse sandy light medium clay; Weak grade of structure, 2-5 mm, Polyhedral; 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; Very sticky; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
BC	0.6 - 0.85 m	Light reddish brown (5YR6/4-Moist); Mottles, 10-20% , Distinct; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Moderately plastic; Very sticky; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach);

Morphological Notes

Observation Notes

Pit to 30cm, auger to 90cm.

Site Notes

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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 - 0.08	4.5B	0.04A	1.3J	0.7	0.6	0.6	0.2L	4.3I		13.95
0.08 - 0.2	4B	0.03A	0.8J	0.7	0.3	0.3	0.5L	5.4I		5.56
0.2 - 0.6	3.7B	0.03A	0.6J	1.1	0.6	0.3	3.2L	6.4I		4.69
0.6 - 0.85	3.5B	0.03A	1.3J	3	0.5	1.1	4.7L	9.1I		12.09

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 - 0.08		2A	15D					7	37F	33	13	10
0.08 - 0.2		0.89A	2D					4	28F	34	14	20
0.2 - 0.6		0.51A	1D					7	23F	13	8	49
0.6 - 0.85		0.15A	1D					15	19F	14	11	41

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 - 0.08				0.28B				0.07B	
0.08 - 0.2				0.27B				0.09B	
0.2 - 0.6				0.46B				0.2B	
0.6 - 0.85				0.42B				0.19B	

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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