

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW189 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	196 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6106525 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	520825 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Czg	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:	5 %	Aspect:	45 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Partial, Moderate (sheet) Partial, Minor (gully)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.43
		Great Soil Group:	N/A

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Dark reddish brown (5YR3/2-Moist); ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Slightly plastic; Slightly sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.15 - 0.3 m	Yellowish red (5YR5/6-Moist); Pink (5YR7/3-Dry); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations;Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B2	0.3 - 0.5 m	Red (2.5YR4/6-Moist); Mottles, 2-10% , Faint; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; 100-200 mm, Lenticular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Very plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations;Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Diffuse, Smooth change to -
B3	0.5 - 1 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 2-10% , Distinct; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; 100-200 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Very plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations;Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations, weak, segregations;Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 9 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

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 - 0.15	5B	0.06A	3.7J	1.5	0.6	0.2	0L	9.5I		2.11
0.15 - 0.3	4.3B	0.01A	0.6J	0.9	0.3	0.2	0L	0.1I		200.00
0.3 - 0.5	4.4B	0.09A	3.6J	11.8	1.2	1.5	0.5L	18I		8.33
0.5 - 1	5.9B	0.23A	4.2J	14.6	1.1	2.2	0L	22.3I		9.87

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 - 0.15		1.66A	2D						18F	61	10	11
0.15 - 0.3		0.16A	0D					2	23F	50	13	12
0.3 - 0.5		0.24A	1D					1	4F	15	2	78
0.5 - 1		0.12A	1D					3	9F	22	5	61

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			mm/h
0 - 0.15				0.35B				0.07B	
0.15 - 0.3				0.21B				0.06B	
0.3 - 0.5				0.59B				0.32B	
0.5 - 1				0.6B				0.31B	

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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