

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW196 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	188 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6110750 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	535675 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:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	45 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:	Db2.42
		Great Soil Group:	N/A

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Mottles, 2-10% , Faint; Silty clay loam; Weak grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Moderately plastic; Moderately sticky; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.1 - 0.4 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); Mottles, 2-10% , Faint; Silty clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Moderately plastic; Very sticky; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.4 - 0.9 m	Brown (10YR4/3-Moist); Mottles, 10-20% , Faint; Medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; Very plastic; Very sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Diffuse change to -
B3	0.9 - 1.2 m	Brown (10YR5/3-Moist); Mottles, 20-50% , Faint; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; Very plastic; Very sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Soft segregations, weak, segregations; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Artificial drainage bank exposure.

Site Notes

50M IN FENCE, W BANK

Project Name: WAGGA WAGGA SOIL LANDSCAPES

Project Code: 1000448

Site ID: WW196

Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

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 - 0.1	5.2B	0.05A	7J	2.6	0.7	0.2	0L	10.7I		1.87
0.1 - 0.4	5.8B	0.03A	5.8J	2.2	0.4	0.5	0L	8.2I		6.10
0.4 - 0.9	5.7B	0.03A	9.6J	7.5	1	1.3	0L	14.5I		8.97
0.9 - 1.2	6.5B	0.04A	8.7J	7	0.6	0.9	0L	13.3I		6.77

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 - 0.1		1.05A	1D						6F	45	26	23
0.1 - 0.4		0.28A	1D					3	6F	38	36	17
0.4 - 0.9		0.21A	0D						2F	27	24	47
0.9 - 1.2		0.09A	0D						2F	39	23	36

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 - 0.1				0.42B				0.11B	
0.1 - 0.4				0.37B				0.09B	
0.4 - 0.9				0.51B				0.22B	
0.9 - 1.2				0.47B				0.17B	

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW196 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

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