

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW168 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	168 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6115750 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	506875 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Playa plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Playa	Slope Category:	No Data
Slope:	1 %	Aspect:	225 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Pedal Grey Vertosol Thick Fine Very fine		Principal Profile Form:	Ug5.2
ASC Confidence:		Great Soil Group:	Grey clay
Confidence level not specified			

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10-20% , Faint; Silty medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Moderately plastic; Very sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.08 - 0.45 m	Dark greyish brown (10YR4/2-Moist); Mottles, 0-2% , Faint; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; 100-200 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Very plastic; Very sticky; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 8 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3	0.45 - 0.8 m	Greyish brown (10YR5/2-Moist); ; Medium sandy light clay; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Moderately plastic; Moderately sticky; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Pit to 30cm, auger to 80cm.

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC		ESP	
m		dS/m	Ca	Mg	K	Cmol (+)/kg	Acidity					%
0 - 0.08	4.4B	0.08A	2.8J	4.1	1.1	1.7	0.1L	8.3I				20.48
0.45 - 0.8	7.6B	0.99A	4.4J	11.9	2	11.8	0.1L	25.3I				46.64

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		1.46A	0D						3F	28	21	48
0.45 - 0.8		0.12A	0D							10	11	79

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	mm/h
0 - 0.08				0.56B				0.2B		
0.45 - 0.8				0.78B				0.34B		

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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_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