

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW105 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Chen, XY	Locality:
Date Desc.: 15/07/93	Elevation: 219 metres
Map Ref.: Sheet No. : 8327 1:25000	Rainfall: No Data
Northing/Long.: 6113450 AMG zone: 55	Runoff: Slow
Easting/Lat.: 518275 Datum: AGD66	Drainage: Moderately well drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: Probable
Geol. Ref.: Sgc	Substrate Material: Granite

Land Form

Rel/Slope Class: No Data	Pattern Type: Low hills
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: 8 %	Aspect: 0 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: Dr2.83
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/3-Moist); ; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Slightly plastic; Moderately sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Wavy change to -
A2	0.1 - 0.28 m	Pinkish grey (7.5YR6/3-Moist); Pinkish grey (7.5YR7/3-Dry); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Non-plastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -
B2	0.28 - 0.55 m	Brown (10YR4/3-Moist); Mottles, 2-10% , Faint; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Very sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 9 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
B3	0.55 - 0.8 m	Brown (7.5YR4/4-Moist); Mottles, 2-10% , Faint; Mottles, 0-2% , Faint; Coarse sandy medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; 100-200 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; 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, distinct; 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 10 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A2	High silt
B2	Increasing water MS/cm from 0.2 to 0.3 pH from 7.6 to 8.0
B3	Contain salt: increasing water MS/cm from 0.2 to 0.5.

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Pit to 35cm, auger to 80cm

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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 - 0.1	5.2B	0.08A	3.5J	0.8	0.8	0.4	0L	7.1I		5.63
0.1 - 0.28	5.9B	0.03A	1.1J	0.5	0.3	0.3	0L	5.6I		5.36
0.28 - 0.55	6.5B	0.06A	3.9J	4.6	0.7	2.5	0L	11.1I		22.52
0.55 - 0.8	8.2B	0.36A	10.2J	12	1.3	7.7	0L	29.3I		26.28

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 - 0.1		1.28A	2D					1	33F	46	13 7
0.1 - 0.28		0.09A	1D					3	41F	42	11 3
0.28 - 0.55		0.14A	0D					13	28F	29	7 23
0.55 - 0.8		0.08A	0D					8	19F	15	8 50

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				0.31B				0.05B	
0.1 - 0.28				0.19B				0.01B	
0.28 - 0.55				0.39B				0.11B	
0.55 - 0.8				0.75B				0.26B	

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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