Project Name: **WAGGA WAGGA SOIL LANDSCAPES**
Project Code: **1000448** **Site ID:** **WW153** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: Chen, XY
Date Desc.: 15/07/93
Map Ref.: Sheet No. : 8327 1:25000
Northing/Long.: 6125750 AMG zone: 55
Easting/Lat.: 526125 Datum: AGD66
Locality:
Elevation: 208 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Open depression (vale)
Elem. Type: Drainage depression
Slope: 2 %
Pattern Type: Pediment
Relief: No Data
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Brown Chromosol Thick Moderately gravelly Loamy
Mapping Unit: N/A
Principal Profile Form: Db2.41

ASC Confidence:
Confidence level not specified
Great Soil Group: Soloth

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.25 m	Dark brown (7.5YR3/3-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Moderately plastic; Moderately sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.25 - 0.42 m	Brown (7.5YR5/3-Moist); Pinkish grey (7.5YR7/3-Dry); ; Silty clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Moderately plastic; Very sticky; Many (20 - 50 %), Ferromaganiferous, Fine (0 - 2 mm), Nodules, strong, segregations;Many (20 - 50 %), Ferromaganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B	0.42 - 0.7 m	Strong brown (7.5YR4/6-Moist); Mottles, 10-20% , Faint; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Moderately plastic; Very sticky; Few (2 - 10 %), Ferromaganiferous, Fine (0 - 2 mm), Nodules, strong, segregations;Few (2 - 10 %), Ferromaganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Very shallow, flat and wide drainage line.

Site Notes

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW153 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.25	5.8B	0.03A	5.1J	1.9	0.6	0.6	0L	10.2I		5.88
0.25 - 0.42	5.9B	0.09A	2.8J	3.8	0.4	1.5	0L	10.3I		14.56
0.42 - 0.7	5.6B	0.42A	2.5J	5.8	0.7	1.9	0L	9.9I		19.19

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.25		0.61A	0D					4	6F	42	28	20
0.25 - 0.42		0.12A	0D					7	7F	36	25	25
0.42 - 0.7		0.12A	0D					5	13F	36	15	31

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.25				0.43B				0.12B	
0.25 - 0.42				0.28B				0.11B	
0.42 - 0.7				0.4B				0.16B	

Project Name: **WAGGA WAGGA SOIL LANDSCAPES**
Project Code: **1000448** **Site ID:** **WW153** **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