

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW15      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	Chen, XY	<b>Locality:</b>	
<b>Date Desc.:</b>	15/07/93	<b>Elevation:</b>	200 metres
<b>Map Ref.:</b>	Sheet No. : 8327    1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6122875 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	526850    Datum: AGD66	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	Ou	<b>Substrate Material:</b>	Clay

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Pediment
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	90 degrees

**Surface Soil Condition (dry):** Firm

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Dr2.12
		<b>Great Soil Group:</b>	Non-calcic brown soil

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Slightly sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.15 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Very plastic; Moderately sticky; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 7 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
BC	0.5 - 0.7 m	Strong brown (7.5YR5/6-Moist); Mottles, 10-20% , Faint; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Very plastic; Very sticky; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Soft segregations, weak, segregations;Field pH 7 (Raupach); Few, fine (1-2mm) roots;

**Morphological Notes**

**Observation Notes**

**Site Notes**

S SIDE OF ROAD 30M FROM T-JUNCTION

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations		Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Cmol (+)/kg		%
0 - 0.15	5.1B	0.05A	3.1J	1	0.8	0.6	0L	6.7I	8.96
0.15 - 0.5	5.6B	0.04A	2.9J	3.4	0.9	0.6	0L	7.6I	7.89
0.5 - 0.7	5.8B	0.04A	4J	4.3	0.7	1.2	0L	9.6I	12.50

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		1.46A	1D						9F	64	14	13
0.15 - 0.5		0.3A	0D					5	9F	43	12	31
0.5 - 0.7		0.2A	0D					8	7F	30	11	44

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	mm/h	mm/h
				g/g -		m3/m3				
0 - 0.15				0.47B				0.07B		
0.15 - 0.5				0.41B				0.11B		
0.5 - 0.7				0.48B				0.18B		

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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