

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW156      **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>	178 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6118575 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	522325 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Brown Dermosol Thick Moderately gravelly Silty		<b>Principal Profile Form:</b>	Gn3.92
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Prairie soil
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.32 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; >500 mm, Platy; Rough-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; Moderately plastic; Very sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual change to -
B	0.32 - 0.8 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; >500 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Very sticky; Field pH 6.5 (Raupach); Common, 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	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.32	5.3B	0.05A	10.2J	2.5	1.2	0.3	0L	11.9I		2.52
0.32 - 0.8	5.9B	0.07A	12.4J	4.3	0.7	0.6	0L	16.8I		3.57

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 - 0.32		1.25A	3D						8F	32	39	21
0.32 - 0.8		0.18A	2D						2F	37	34	27

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 - 0.32				0.46B				0.13B	
0.32 - 0.8				0.47B				0.14B	

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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