

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW223      **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> 272 metres
<b>Map Ref.:</b> Sheet No. : 8327 1:25000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6080200 AMG zone: 55	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 524850 Datum: AGD66	<b>Drainage:</b> Imperfectly drained

#### Geology

<b>ExposureType:</b> Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b> Probable
<b>Geol. Ref.:</b> Cza	<b>Substrate Material:</b> Sand

#### 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> 1 %	<b>Aspect:</b> 0 degrees

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

**Erosion:** Partial, Present (stbank)

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Fluvic Stratic Rudosol Gravelly Loamy	<b>Principal Profile Form:</b> Um1.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Alluvial soil
Confidence level not specified	

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A	0 - 0.15 m	Brown (7.5YR4/3-Moist); ; Silty clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Very sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
C	0.15 - 0.52 m	Brown (7.5YR4/3-Moist); ; Silty clay loam; Weak grade of structure, 50-100 mm, Lenticular; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Moderately plastic; Very sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Sharp, Smooth change to -
2A2	0.52 - 0.7 m	Brown (10YR5/3-Moist); Very pale brown (10YR8/3-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; Moderately plastic; Very sticky; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules, strong, segregations; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -
2B	0.7 - 0.85 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20% , Faint; Medium heavy clay; Moderate 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; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

C	Can be regarded as A1, with horizontal beddings.
2A2	Can also be regarded as A2. Somewhere a 2A1 remained.
2B	Can also be regarded as B.

#### Observation Notes

Recent alluvium (A/C soil) overlying oldsoil (A2/B). At drainage line.

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80M IN FENCE, W SIDE OF BANK

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

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			%		

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

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Laboratory Analyses Completed for this profile