

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW39      **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>	220 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6108375 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	513920 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>	Sgc	<b>Substrate Material:</b>	Clay

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	9 %	<b>Aspect:</b>	180 degrees

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

**Erosion:** Partial, Moderate (gully)

#### 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>	Dy3.83
		<b>Great Soil Group:</b>	N/A

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/3-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy 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, Few (<1 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Wet; Slightly plastic; Slightly sticky; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.1 - 0.2 m	Pinkish grey (7.5YR6/3-Moist); Very pale brown (10YR8/3-Dry); ; Loamy coarse sand; Massive grade of structure; Earthy 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, Wet; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B	0.2 - 0.55 m	Yellowish brown (10YR5/4-Moist); Mottles, 2-10% , Prominent; Coarse sandy medium heavy clay; Massive grade of structure; Earthy 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, Moist; Moderately plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -
C	0.55 - 0.9 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20% , Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 9.5 (Raupach);

#### Morphological Notes

#### Observation Notes

Batter to 45cm      Auger to 90cm

#### Site Notes

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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