

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW90      **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> 6096225 AMG zone: 55	<b>Runoff:</b> Slow
<b>Easting/Lat.:</b> 526025 Datum: AGD66	<b>Drainage:</b> Imperfectly drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> Rises
<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> 3 %	<b>Aspect:</b> 315 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
N/A	<b>Principal Profile Form:</b> Dy3.42
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
Confidence level not specified	

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

#### Vegetation:

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, subrounded, Quartz; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.14 m	Dark brown (7.5YR3/4-Moist); ; 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, Moist; Non-plastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Clear, Wavy change to -
A2	0.14 - 0.5 m	Pinkish grey (7.5YR6/3-Moist); Pinkish white (7.5YR8/3-Dry); ; Loamy coarse sand; 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, Moist; Non-plastic; Slightly sticky; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.5 - 0.7 m	Yellowish brown (10YR5/4-Moist); Mottles, 2-10% , Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Wet; Very plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -
B3	0.7 - 1 m	Strong brown (7.5YR4/6-Moist); Mottles, 10-20% ; Medium clay; Moderate grade of structure, 5-10 mm, Platy; 50-100 mm, Subangular blocky; Rough-ped fabric; Moist; Very plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Other pans, Moderately cemented, Continuous, Massive; Field pH 8 (Raupach);

#### Morphological Notes

A2	Colluvial sand, much younger than layer 3.
B2	Water seeping out. Weathering product of layer 4.
B3	Partially cemented, very compact.

#### Observation 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		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile