

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW115      **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>	336 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6083125 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	541525 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low 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>	12 %	<b>Aspect:</b>	90 degrees

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

#### 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>	Dr2.21
		<b>Great Soil Group:</b>	Red podzolic soil

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

#### Vegetation:

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, subangular, Siltstone; No surface coarse fragments; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/4-Moist); ; Fine sandy clay loam; Weak grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.08 - 0.22 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Very sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.22 - 0.4 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Very sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3	0.4 - 0.65 m	Yellowish red (5YR5/8-Moist); Mottles, 10-20% , Faint; Light medium clay; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moist; Very plastic; Very sticky; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
2B	0.65 - 0.85 m	Red (2.5YR4/6-Moist); Mottles, 20-50% , Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moist; Very plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach);

#### Morphological Notes

2B Palaeosol

#### Observation Notes

Pit to 35cm, auger to 85cm

#### Site Notes

30M SOUTH GATE, OUT OF FENCE

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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 - 0.08	4.3B	0.08A	2.1J	1.8	0.9	0.4	0.5L	6.1I	6.56
0.08 - 0.22	4.3B	0.04A	0.4J	1.1	0.4	0.3	0.7L	4.1I	7.32
0.22 - 0.4	4.3B	0.03A	0.8J	3.8	0.4	0.3	1.1L	6.9I	4.35
0.4 - 0.65	4.6B	0.04A	0.2J	4.7	0.3	0.6	0.5L	7.5I	8.00

  

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 - 0.08		2.58A	3D					11	18F	38	22	11
0.08 - 0.22		0.44A	2D					7	23F	28	26	16
0.22 - 0.4		0.48A	1D						11F	19	24	46
0.4 - 0.65		0.21A	0D					4	16F	30	23	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			
0 - 0.08				0.5B				0.11B	
0.08 - 0.22				0.37B				0.09B	
0.22 - 0.4				0.49B				0.21B	
0.4 - 0.65				0.42B				0.17B	

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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