

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW10      **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>	192 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6117650 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	542375 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

#### Geology

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

#### 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>	10 %	<b>Aspect:</b>	270 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>	Dr2.43
		<b>Great Soil Group:</b>	Solodized solonetz

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

#### Vegetation:

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, subrounded, Quartz

#### Profile Morphology

A1	0 - 0.15 m	Yellowish red (5YR3/6-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.15 - 0.25 m	Yellowish red (5YR5/6-Moist); Pink (5YR7/4-Dry); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, weak, segregations;Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.25 - 0.5 m	Red (2.5YR4/6-Moist); Mottles, 2-10% , Faint; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 100-200 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very plastic; Normal plasticity; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B3	0.5 - 0.85 m	Yellowish red (5YR4/8-Moist); Mottles, 20-50% , Distinct; Medium sandy medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Very plastic; Normal plasticity; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 8 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

GULLY OPPOSITE GATE

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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 - 0.15	4.7B	0.12A	2.2J	0.7	0.9	0.4	0L	2.7I		14.81
0.15 - 0.25	4B	0.05A	3.7J	0.3	0.4	0.7	0.3L	2I		35.00
0.25 - 0.5	3.8B	0.05A	2J	0.4	0.4	0.3	1.2L	2.3I		13.04
0.5 - 0.85	3.8B	0.03A	0.3J	2.6	0.4	0.3	1.8L	4.6I		6.52

  

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 - 0.15		3.27A	6D					4	35F	39	13	9
0.15 - 0.25		0.62A	1D					6	42F	29	12	11
0.25 - 0.5		0.52A	1D					8	27F	27	10	28
0.5 - 0.85		0.23A	0D					8	23F	14	8	47

  

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 - 0.15				0.27B				0.08B	
0.15 - 0.25				0.27B				0.04B	
0.25 - 0.5				0.34B				0.19B	
0.5 - 0.85				0.32B				0.19B	

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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