Projec	ct Name: ct Code: cy Name:	Soil Studies in th EDGEROI CSIRO Division o	Site ID:	na005 0	Observatio	n ID:	1		
Desc. I Date D Map Re Northin Easting	esc.: ef.: ng/Long.: g/Lat.:	1 W.T. Ward 08/03/88 Sheet No. : 8837_S 6630000 AMG zone: 5 754650 Datum: AGD	5	Locality: Elevation: Rainfall: Runoff: Drainage:	stock rout 237 metre No Data No Data No Data	,	Bohena		
<u>Geolo</u> Exposi Geol. F	ureType:	Undisturbed soil core No Data		Conf. Sub. is Par Substrate Materi		No Dat No Dat			
Morph. Elem. ⊺ Slope:	ope Class: . Type: Type:	No Data Terrace flat 1 %		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gent 90 degree		d		
Erosic	on:	ondition (dry): Loos	e						
Austra N/A ASC C Confid Site D Vegeta	Confidence lence level r isturbanc ation:	lassification: : not specified i <u>e:</u> Complete clearing.	Pasture, nat	Princ Grea	bing Unit: Sipal Profile t Soil Group Itivated at so	):	N/A Dy5.42 Solodic soil e		
	<u>ce Coarse</u> e Morphol	Fragments:							
A11	0 - 0.1 m	Dark greyish br structure, 5-10 fabric; Commo	mm, Platy; V n (1-5 per 1	Veak grade of struc	ture, 2-5 mm 0.075-1mm)	i, Granul macropo	Sand; Weak grade of lar; Sandy (grains prominent) ores, Moderately moist; Weak s;		
A12	0.1 - 0.25	prominent) fabr	ic; Few (<1	per 100mm2) Very f	fine (0.075-1	mm) ma	mm, Platy; Sandy (grains cropores, Moderately moist; ) roots; Diffuse, Smooth		
A21c	0.25 - 0.4	fabric; Few (<1	per 100mm		1mm) macro	pores, N	ndy (grains prominent) loderately moist; Very weak		
A22	0.42 - 0.5	structure; Sand	y (grains pro oderately mo	ominent) fabric; Few bist; Very weak cons	/ (<1 per 100	mm2) V	; Sand; Massive grade of ery fine (0.075-1mm) (pH meter); Few, very fine		
B21	0.53 - 0.6	Distinct; Light c structure, 50-10	lay; Weak g 0 mm, Platy 5-1mm) mac	rade of structure, 10 ; Smooth-ped fabric ropores, Moderately	00-200 mm, 0 c; Fine, (0 - 5	Columna 5) mm cr	/R72, 2-10% , 5-15mm, ar; Moderate grade of ack; Few (<1 per 100mm2) stence; Field pH 5.5 (pH		
B22	0.67 - 1 r	Prominent; Ligh structure, 10-20 (<1 per 100mm	Red (2.5YR4/8-Moist); , 10YR74, 10-20% , 5-15mm, Distinct; , 2.5Y62, 20-50% , 30-mm, Prominent; Light clay; Weak grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 10-20 mm, Platy; Rough-ped fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 5 (pH meter); Few, very fine (0-1mm) roots;						
B23	1 - 1.25 r	grade of structu fabric; Earthy fa	ire, 10-20 m bric; Fine, ( oderately mo	m, Platy; Massive g 0 - 5) mm crack; Fe bist; Very firm consi	rade of struc w (<1 per 10	ture; Sa 0mm2) <sup>v</sup>	stinct; Light clay; Weak ndy (grains prominent) Very fine (0.075-1mm) (pH meter); Few, fine (1-		

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Project Code: Agency Name:	EDGEROI CSIRO Division	Site ID: of Soils (Q	na005 (LD)	Observation ID:	1

C 1.25 - 4.78 m Yellow (10YR7/6-Moist); , N80, 20-50% , 30-mm, Prominent; Clayey sand; Moderate grade of structure, 10-20 mm, Platy; Sandy (grains prominent) fabric; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Field pH 6.5 (pH meter);

### Morphological Notes

A11	Brigalow 2, a yellow mottled duplex soil. Apedal A2 rather than single- grained as it
	holds together weakly. The B horizon has red-centred peds.
B21	horizon seemingly inherited from an older prior soil, but not separated by any evidence of erosion. (The present soil is the remodelled prior soil)

## **Observation Notes**

Parent Rock: prior soil, sand, over weathered sands and clayey sands fifth (eroded) fan, Culgoora

### Site Notes

1.0 km from road junction at na004, S side, 12 paces in.

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Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

# Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	Na		angeable	CEC		ECEC	;	ESP
m		dS/m		Иg	n	Cmol		cidity					%
0 - 0.1	5.41A	0.088A	0.72B	0.5	0.26	<0.01							
0.1 - 0.2	5.66A	0.02A	<0.1B	0.21	0.17	<0.01							
0.3 - 0.4	5.69A	0.011A	<0.1B	<0.1	0.07	<0.01							
0.43 - 0.53	5.86A	0.012A	<0.1B	<0.1	0.02	0.01							
0.53 - 0.63	5.31A	0.134A	<0.1B	3.94	0.11	1.85							
0.7 - 0.8	5.24A	0.21A	<0.1B	6.53	0.11	3.45							
1.2 - 1.3	5.1A	0.271A	<0.1B	6.66	0.1	3.89							
2.5 - 2.6	6.22A	0.096A	<0.1B	2.12	0.02	1.46							
Depth	CaCO3	Organic	Avail.	Total	Total	Tot	lal	Bulk	D	article	Sizo	Analys	ie
Deptil	04005	C	P	P	N	K		Density	GV	CS	FS	-	Clay
m	%	%	mg/kg	%	%	%		Mg/m3	•••	•••	%	•	e.u,
0 - 0.1	<0.1B	1.03C	9.8J										
0.1 - 0.2	<0.1B	0.43C	3.3J										
0.3 - 0.4	<0.1B	0.18C	3J										
0.43 - 0.53	<0.1B	0.03C	1.2J										
0.53 - 0.63	<0.1B	0.15C	1.1J										
0.7 - 0.8	<0.1B	0.16C	<1J										
1.2 - 1.3	<0.1B	0.11C	1.3J										
2.5 - 2.6	<0.1B	0.02C	1.1J										
Depth	COLE		Grav	imetric/Vo	olumetric	Water Co	ontents			Ks	at	K uns	at

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar			
m				g/	/g - m3/m3	3			mm/h	mm/h	
0.04											
0 - 0.1											
0.1 - 0.2											
0.3 - 0.4											
0.43 - 0.53											
0.53 - 0.63											
0.7 - 0.8											
1.2 - 1.3											
2.5 - 2.6											

#### Project Name: Soil Studies in the Lower Namoi Valley Project Code: EDGEROI Site ID: na005 Agency Name: **CSIRO** Division of Soils (QLD)

Observation ID: 1

## Laboratory Analyses Completed for this profile

- 15A2\_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
- 15A2\_K 15A2\_MG Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
- 15A2\_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
- 19B1 Carbonates - manometric
- EC of 1:5 soil/water extract 3A1
- 4A1 pH of 1:5 soil/water suspension
- 5A2 Chloride - 1:5 soil/water extract, automated colour
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- 9B1 Bicarbonate-extractable phosphorus - manual colour