Project Name: Project Code: Agency Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed035 O	bservation ID:	1
Date Desc.: 0 Map Ref.: 5 Northing/Long.: 6	D. McGarry )8/07/86 Sheet No. : 8837_N 1:50000 3674200 AMG zone: 55 '87300 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, near 348 metres No Data No Data No Data No Data	Curramanga
	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia		
Morph. Type:	No Data No Data No Data 1 % <b>dition (dry):</b> Firm, Trampled	Pattern Type: Relief: Slope Category: Aspect:	Flood plain No Data Very gently slope 180 degrees	d
Erosion: Soil Classificatio	n			
Australian Soil Cla N/A ASC Confidence:		Princi	ng Unit: pal Profile Form: Soil Group:	N/A Ug5.38 Brown clay
Vegetation:	Complete clearing. Pasture, na	tive or improved, cult	ivated at some stag	e
Surface Coarse I				
<u>Profile Morpholo</u> A11 0 - 0.1 m	Black (5YR2/1-Moist); ; Me Smooth-ped fabric; Fine, (0	) - 5) mm crack; Few	(<1 per 100mm2) F	
A12 0.1 - 0.25 r	mm, Subangular blocky; Sr	mooth-ped fabric; Fin	e, (0 - 5) mm crack;	e grade of structure, 10-20 Few (<1 per 100mm2) Fine H 6.5 (pH meter); Common,
A13 0.25 - 0.65	Lenticular; Moderate grade 5) mm crack; Few (<1 per	of structure, 2-5 mm 100mm2) Very fine (0	, Ángular blocky; Sr .075-1mm) macrop	
B21 0.65 - 1 m	Dark reddish brown (5YR3/ 0-5mm, Distinct; Medium c of structure, 5-10 mm, Ang 100mm2) Very fine (0.075- few (0 - 2 %), Calcareous, very fine (0-1mm) roots;	lay; Moderate grade o ular blocky; Smooth-p 1mm) macropores, N	of structure, 5-10 mi bed fabric; Fine, (0 - loderately moist; Ve	m, Prismatic; Moderate grade 5) mm crack; Few (<1 per ery firm consistence; Very
B22 1 - 1.5 m		y; Moderate grade of ar blocky; Smooth-peo acropores, Moderately	structure, 5-10 mm, d fabric; Fine, (0 - 5) y moist; Very firm co	onsistence; Few (2 - 10 %),
2B2 1.5 - 3.03 r	0-5mm, Prominent; Light o	clay; Moderate grade n, Angular blocky; Sm 2) Very fine (0.075-1r	of structure, 10-20 nooth-ped fabric; Ea	arthy fabric; Fine, (0 - 5) mm
Morphological N	otes The conhenete in laws 0.4	and OF is find carth a	nd gives the D2 s a	

A11

The carbonate in layers 04 and 05 is fine earth and gives the B2 a sandy appearance. From 120cm there is an intimate mix of clay and very fine sand/silt (dark brown with yellow), which at 236-245cm is seen as fine (1mm) layering of silt and

# Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed035Observation ID:1Agency Name:CSIRO Division of Soils (QLD)

A12

clay bands. The profile characteristics vary beneath the sedimentary band, i.e. it is truncating two parts of the profile of different ages - so extra sample. Is this possibly a first terrace (Aloomba?) equivalent?

## **Observation Notes**

Parent Rock: alluvial sediment, clay, mixed texture, with lime first terraced fan

### Site Notes

Keith Thompson says sandy ridge 60m north of site.

Project Name:	Soil Studies in	n the Lower	Namoi Valle	ey .	
Project Code:	EDGEROI	Site ID:	ed035	Observation ID:	1
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### Laboratory Test Results:

							-					
Depth	рН	1:5 EC		hangeat Mg	ole Cations K	Na	Exchangeable Acidity	CEC		ECEC	ES	Р
m		dS/m	0a	ing	ĸ	Cmol (+					%	
0 - 0.02	7.16A	0.074A	20.27B	7.1	2.14	0.01						
0 - 0.1	6.74A	0.139A	18.99B	9.36	1.3	0.27						
0.1 - 0.2	6.75A	0.085A	23.36B	12.49	0.81000 01	0.48						
0.3 - 0.4	7.8A	0.065A	21.82B	13.26	0.55	0.88						
0.7 - 0.8	8.56A		20.38B	12.24	0.67	0.95						
1.2 - 1.3	8.69A	0.182A	20.79B	14.71	0.61	1.28						
2.5 - 2.6	8.73A	0.165A	20.22B	17.8	0.61	1.8						
Depth	CaCO3	Organic	Avail.	Tota		Total			article	Size	Analysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt Cl	ay
	70	70	mgrag	70	70	70	ing/inc			70		
0 - 0.02	<0.1B	3.73C									21.4	33
0 - 0.1	<0.1B	2.07C	97.5J								22.4 3	38.4
0.1 - 0.2	<0.1B	1.39C	58.7J								19.6 4	18.4
0.3 - 0.4	<0.1B	1.22C	37.5J								20.5 4	19.7
0.7 - 0.8	2B	0.58C	39.1J								18.2 3	38.5
1.2 - 1.3	3B	0.27C	42.5J								29.7 3	34.7
2.5 - 2.6	0.5B	0.32C	37.6J								27.5 3	36.8
Depth	COLE				Volumetric V				Ks	at	K unsat	
•	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Bar				
Depth m	COLE	Sat.		0.1 Bar		1 Bar		Bar	K s		K unsat mm/h	

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

#### Project Name: Soil Studies in the Lower Namoi Valley Project Code: Agency Name: Site ID: EDGEROI ed035 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	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared

- 7B1 Water soluble nitrate - automated colour
- Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10\_CF\_C P10\_CF\_Z