Projec	ct Name: ct Code: cy Name:	Soil Studies in the Lower M EDGEROI Site ID: CSIRO Division of Soils (Q	ed040	Observation ID:	1			
Desc. I Date D Map Re	esc.: ef.: ng/Long.:	W.T. Ward 07/02/86 Sheet No. : 8837_N 1:50000 6672900 AMG zone: 55 752750 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Frank O'Neill, Lla 198 metres No Data No Data No Data No Data	ino			
<u>Geolo</u> Expos Geol. F	ureType:	Undisturbed soil core No Data		Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data				
Land Rel/Sic Morph Elem. Slope:	ope Class: . Type: Type:	No Data No Data Terrace plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data				
Surfac	ce Soil Co	ndition (dry): Surface crust, P	oached					
Erosic								
	lassificati				N1/A			
Austra N/A	lian Soil Cla	assification:		ping Unit: cipal Profile Form:	N/A Ug6.1			
ASC C	Confidence:			t Soil Group:	Grey clay			
	ence level n	•						
Veget		e: Complete clearing. Pasture, na	ative or improved, cu	intivated at some stag	je			
		Fragments:						
<u>Profile</u>	e Morphol							
A11	0 - 0.1 m	Very dark grey (10YR3/1-M Medium clay; Strong grade 10-20 mm, Subangular blo consistence; 0-2%, fine gra meter); Few, very fine (0-1)	e of structure, 10-20 cky; Earthy fabric; F avelly, 2-6mm, round	mm, Angular blocky ine, (0 - 5) mm crack	; Strong grade of structure, <; Moderately moist; Strong			
A12	0.1 - 0.25	structure, 10-20 mm, Angu Strong consistence; 0-2%,	Very dark grey (10YR3/1-Moist); , 7.5YR52, 0-2% , 0-5mm, Faint; Medium clay; Strong grade structure, 10-20 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;					
A13	0.25 - 0.5	Moderate grade of structur crack; Moderately moist; S coarse fragments; Very few	Very dark greyish brown (10YR3/2-Moist); , 7.5YR52, 0-2% , 0-5mm, Faint; Light medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;					
A14	0.55 - 0.8	5 m Dark brown (7.5YR3/2-Moi blocky; Earthy fabric; Fine, (0 - 2 %), Calcareous, Fine (0 - 2 mm), Crystals; Field	(0 - 5) mm crack; M e (0 - 2 mm), Soft se	loderately moist; Stro gregations; Very few	(0 - 2 %), Gypseous, Fine			
B21	0.85 - 1.9	of structure, 50-100 mm, Lo Smooth-ped fabric; Earthy	enticular; Strong gra fabric; Fine, (0 - 5) r oist; Very firm consi	de of structure, 20-5 mm crack; Few (<1 p	ium heavy clay; Strong grade 50 mm, Subangular blocky; ber 100mm2) Fine (1-2mm) - 2 %), Calcareous, Medium			
B22	1.9 - 2.68	n Dark brown (10YR3/3-Moist); , 10YR32, 2-10% , 30-mm, Distinct; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8 (pH meter);						
Morph	nological N	lotes						
A11		30-40 level in core represer below, is this significant in c						

#### Observation ID: 1

# Llano transect, samples saved for lan. Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan

#### Site Notes

Photosite looking towards Bald Hill and Bald Knob homestead. Hand pen broad tip. Many cracks hidden by weak surface crust making it difficult to see crack space and length. 50m north from gate in fence line to the west.

Project Name:	Soil Studies in	n the Lower	Namoi Valle	∋y	
Project Code:	EDGEROI	Site ID:	ed040	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

## Laboratory Test Results:

Depth	рН	1:5 EC Ex	changeable Cation	ns Exchangeable	CEC	ECEC	ESP
m		Ca dS/m	Mg K	Na Acidity Cmol (+)/kg			%
0 - 0.02	7.65A	0.113A 14.26B	6.17 1.06	1.55			
0 - 0.1	7.41A	0.137A 16.1B	10.85 0.57	2.03			
0.1 - 0.2	8.31A	0.208A 20.17B	10.72 0.37	3.53			
0.3 - 0.4	8.83A	0.518A 21.67B	11.79 0.36	5.67			
0.7 - 0.8	8.25A	1.216A 22.18B	15.11 0.83	8.33			
1.2 - 1.3	8.77A	0.913A 23.6B	14.86 0.9	8.92			
2.5 - 2.6	8.64A	0.999A 25.97B	15.04 0.9399 99	9 10.19			

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02 0 - 0.1	<0.1B <0.1B	-	7.6J									35.3 39.5
0.1 - 0.2	0.2B	0.62C	3.3J								20.8	43.1
0.3 - 0.4 0.7 - 0.8	0.8B 0.5B	0.57C 0.15C	2.2J 5.4J								-	46.2 55.7
1.2 - 1.3 2.5 - 2.6	2.4B 1.2B	0.07C 0.12C	4.3J 3.7J								16.3 14.1	58.3 60.4

Depth	COLE	COLE Gravimetric/Volumetric Water Contents						K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h
0 - 0.02										
0 - 0.1										
0.1 - 0.2										

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 ValleyProject Code:EDGEROISite ID: ed040Agency 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	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
9B1	Bicarbonate-extractable phosphorus - manual colour
P10 CF C	Clay (%) - Coventry and Fett pipette method

P10\_CF\_Z Clay (%) - Coventry and Fett pipette method P10\_CF\_Z Silt (%) - Coventry and Fett pipette method