Projec	ct Name: ct Code: cy Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed112 C	Observation ID:	1			
Desc. Date D Map R Northi Eastin	Desc.: ef.: ng/Long.: g/Lat.:	M.T. Ward 18/12/86 Sheet No. : 8837_N 1:50000 6663200 AMG zone: 55 758100 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Vieta 207 metres No Data No Data No Data				
Expos	Seology ExposureType: Undisturbed soil core Seol. Ref.: No Data		Conf. Sub. is Pare Substrate Materia					
Morph Elem. Slope:	ope Class: . Type: Type:	No Data No Data Terrace flat 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data				
<u>Surfac</u> Erosio		ndition (dry): Surface crust, T	rampled					
Austra N/A ASC C Confid Site D	Confidence: Jence level r Disturbanc	assification:	Princ Great	ing Unit: ipal Profile Form: Soil Group: tivated at some stat	N/A Ug5.16 Grey clay ge			
	<u>ation:</u> ce Coarse	Fragments:						
	e Morphol							
A11	0 - 0.1 m	Light medium clay; Modera structure, 2-5 mm, Platy; Si fine (0.075-1mm) macropo	te grade of structure mooth-ped fabric; Fir pres, Moderately moi	, 10-20 mm, Angula ne, (0 - 5) mm crack st; Strong consister	62, 0-2% , 5-15mm, Distinct; ar blocky; Weak grade of <; Few (<1 per 100mm2) Very nce; 0-2%, fine gravelly, 2- er); Few, very fine (0-1mm)			
A12	0.1 - 0.25	structure, 10-20 mm, Angu per 100mm2) Very fine (0.0	lar blocky; Smooth-p)75-1mm) macropore	ed fabric; Medium, es, Moderately mois	dium clay; Moderate grade of (5 - 10) mm crack; Few (<1 st; Strong consistence; 0-2%, pH 7.5 (pH meter); Few, very			
A13	0.25 - 0.7	Faint; Medium clay; Modera Medium, (5 - 10) mm crack Moderately moist; Strong c	ate grade of structure ; Few (<1 per 100mr onsistence; 0-2%, fir %), Calcareous, Fine	e, 10-20 mm, Angul n2) Very fine (0.075 ne gravelly, 2-6mm, e (0 - 2 mm), Nodule	; , 7.5YR62, 0-2% , 0-5mm, ar blocky; Smooth-ped fabric; 5-1mm) macropores, subangular, Quartz, coarse es; Field pH 8.5 (pH meter);			
B21	0.7 - 1 m	clay; Moderate grade of st	tructure, 20-50 mm, / 0mm2) Very fine (0.0 avelly, 2-6mm, suban	Angular blocky; Sm 75-1mm) macropor gular, Quartz, coars				
B22	1 - 1.9 m	Medium clay; Moderate gra 10-20 mm, Angular blocky;	ade of structure, 50-1 Smooth-ped fabric; Moderately moist; S	00 mm, Lenticular; Fine, (0 - 5) mm cra trong consistence;	, N30, 0-2% , 0-5mm, Faint; Moderate grade of structure, ack; Few (<1 per 100mm2) Few (2 - 10 %), Calcareous,			
B23	1.9 - 2.78	Prominent; Medium clay; M structure, 20-50 mm, Angu 100mm2) Very fine (0.075-	loderate grade of struurate blocky; Smooth- 1mm) macropores, N	, 0-2% , 15-30mm, Distinct; , 7.5YR62, 2-10% , 5-15mm, grade of structure, 50-100 mm, Lenticular; Moderate grade of ky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per acropores, Moderately moist; Strong consistence; Few (2 - hm), Nodules; Field pH 8 (pH meter);				

Morphological Notes

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed112Observation ID:1Agency Name:CSIRO Division of Soils (QLD)

A11

A12

The A1 horizon includes a thin surface crust. Weak platy structure above the blocky structure in 0-10cm. Note the darkening in colour below topsoil, and good structure also, I. Oldest alluvium?

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, parna on fourth fan

Site Notes

Hardset, poached, trampled. The major cracks have been covered over by intense trampling. Described at collection as htpl by WTW.

Project Name: Project Code: Agency Name: Soil Studies in the Lower Namoi Valley EDGEROI Site ID: ed112 CSIRO Division of Soils (QLD) Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC	Exo Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	U			Cmol (%
0 - 0.02	7.94A	0.112A	11.8B	6.77	1.5	0.56				
0 - 0.1	6.34A	0.11A 8	8.969999 B	5.72	0.85	0.83				
0.1 - 0.2	7.56A	0.074A	15.35B	8.690001	0.54	1.77				
0.3 - 0.4	8.93A	0.2A	16.94B	8.74	0.33	3.63				
0.7 - 0.8	8.67A	0.47A	21.5B	10.62	0.74	6.63				
1.2 - 1.3	8.82A	0.707A	24.29B	11.15	0.8	7.36				
2.5 - 2.6	8.28A	0.666A	25.58B	10.28	0.7	9.03000 1				

CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	5
%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
<0.1B	1.63C									17.4	36.6
<0.1B	1.46C	19.7J								16.5	31.1
<0.1B	0.82C	5.8J								22.5	42.6
0.3B	0.69C	1.4J								22.3	41.1
0.3B	0.19C	10.7J								20.1	50.8
1.2B	0.1C	6.5J								20.5	57.6
<0.1B	0.09C	1.2J								17.9	56.7
	% <0.1B <0.1B <0.1B 0.3B 0.3B 1.2B	 c % % <0.1B 1.63C <0.1B 1.46C <0.1B 0.82C 0.3B 0.69C 0.3B 0.19C 1.2B 0.1C 	C P % % mg/kg <0.1B	C P P % % mg/kg % <0.1B	C P P N % % mg/kg % % <0.1B 1.63C <0.1B 1.46C 19.7J <0.1B 0.82C 5.8J 0.3B 0.69C 1.4J 0.3B 0.19C 10.7J 1.2B 0.1C 6.5J	C P P N K % % mg/kg % % % <0.1B	C P P N K Density % % mg/kg % % Mg/m3 <0.1B	C P N K Density GV % % mg/kg % % Mg/m3 GV <0.1B	C P N K Density GV CS % % mg/kg % % Mg/m3 VCS <0.1B	C P N K Density GV CS FS % % mg/kg % % Mg/m3 % <0.1B	C P N K Density GV CS FS Sift % % mg/kg % % Mg/m3 % 17.4 <0.1B

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	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 - 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: EDGEROI Site ID: ed112 **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

- Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_MG 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
- pH of 1:5 soil/water suspension 4A1
- Chloride 1:5 soil/water extract, automated colour 5A2
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- Bicarbonate-extractable phosphorus manual colour 9B1
- P10_CF_C P10_CF_Z Clay (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method