Projec	ct Name: ct Code: cy Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed160 (Observation ID: 1				
Desc. I Date D Map Ro Northin Easting	esc.: 3 ef.: 5 ng/Long.: 6 g/Lat.: 7	G.M. Roberts 00/07/85 Sheet No. : 8837_N 1:50000 6556400 AMG zone: 55 745500 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, near 198 metres No Data No Data No Data No Data	Wirebrush Lagoon			
<u>Geolo</u> Exposi Geol. F	ureType: Լ	Jndisturbed soil core No Data	Conf. Sub. is Par Substrate Materi	ia ia				
Rel/Sic Morph Elem. Slope:	and Form Rel/Slope Class: No Data Morph. Type: No Data Idem. Type: Terrace flat Glope: 0 %		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data				
		dition (dry): Surface crust						
<u>Erosic</u> Soil C	<u>on:</u> Iassificatio	<u>n</u>						
	lian Soil Cla	ssification:		oing Unit:	N/A			
N/A ASC C	confidence:			cipal Profile Form: t Soil Group:	Ug6.1 Grey clay			
	ence level no	t specified						
	isturbance	<u>:</u>						
Vegeta Surfac	<u>ation:</u> ce Coarse F	Fragments.						
	e Morpholo							
A11	0 - 0.05 m	Dark brown (10YR3/3-Mois Medium clay; Weak grade c Medium, (5 - 10) mm crack;	of structure, 20-50 n ; Few (<1 per 0.01m	nm, Subangular bloc n2) Medium (2-5mm)	ky; Rough-ped fabric;			
2A12	0.05 - 0.1 r	grade of structure, 5-10 mm Common (1-5 per 100mm2)	Dark brown (10YR3/3-Moist); Dark greyish brown (10YR4/2-Dry); ; Fine sandy light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;					
2A13	0.1 - 0.22 r	0-2% , 5-15mm, Faint; Fin blocky; Rough-ped fabric; F 1mm) macropores, Modera	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); , 10YR53, 0-2% , 5-15mm, Faint; Fine sandy light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -					
2A14	14 0.22 - 0.67 m Dark reddish brown (5YR3/2-Moist); ; Fine sandy light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -							
2B21	0.67 - 1 m	Reddish brown (5YR4/4-Mo Fine sandy light clay; Weak fabric; Fine, (0 - 5) mm crao Moderately moist; Firm con	grade of structure, ck; Few (<1 per 100	20-50 mm, Subangu mm2) Very fine (0.0	75-1mm) macropores,			
2B22	1 - 1.9 m	grade of structure; Weak gr Smooth-ped fabric; Fine, (0 macropores, Moderately mo	Brown (7.5YR4/4-Moist); , N30, 10-20% , 5-15mm, Distinct; Coarse sandy light clay; Massive grade of structure; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Common (10 - 20%), Argillaceous, Coarse (6 - 20 mm), Veins; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;					
2B23	1.9 - 2.69 r	n Brown (7.5YR4/4-Moist); , N structure; Weak grade of st						

1.9 - 2.69 m Brown (7.5YR4/4-Moist); , N30, 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Veins; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID: ed160Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

Morphological Notes

A11

Surface skin evident, almost surface crust, 1cm thick. Core described 4 months after collection. Top 5cm appears to be recent alluvium. No bottom to the B2 horizon was encountered.

Observation Notes

Parent Rock: , , second terraced fan, Namoi

Site Notes

Project Name:	Soil Studies in	n the Lower	Namoi Valle	ey in the second s	
Project Code:	EDGEROI	Site ID:	ed160	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	l Na	Exchangeabl Acidity	e CE	C	ECEC	E	SP
m		dS/m	Ga	wig	ĸ	Cmol (+					Q	%
0 - 0.02	6.83A	0.157A	15.69B	10.33	2.74	0.07						
0 - 0.05	6.37A	0.088A	10.5B	6.07	1.43	0.23						
0.05 - 0.1	6.6A	0.057A	11.7B	5.82	1.07	0.31						
0.1 - 0.2	6.95A	0.049A	13.35B	5.85	0.73	0.28						
0.3 - 0.4	7.49A	0.043A	-	6.8	0.7	0.61						
0.7 - 0.8	8.17A		17.05B	7.7	0.69	0.91						
1.2 - 1.3	8.34A	0.062A	12.82B	5.99	0.51	0.78						
2.5 - 2.6	7.91A	0.053A	15.16B	8.05	0.34	1.32						
Depth	CaCO3	Organic	Avail.	Total	Total	Total					Analysis	
	0/	C	Р	P	N	K	Density	/ GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	3.22C									26.7	49.6
0 - 0.05	<0.1B		138.8J								18	36
0.05 - 0.1	<0.1B	1.1C	78.8J								16.1	35.5
0.1 - 0.2	<0.1B	0.95C	53.7J								15	37.7
0.3 - 0.4	<0.1B	0.77C	79.5J								15.3	-
0.7 - 0.8	<0.1B	0.46C	69.2J								12.6	47.5
1.2 - 1.3	<0.1B	0.16C	58.1J								8.4	30.6
2.5 - 2.6	<0.1B	0.09C	46.8J								24.2	33.2
Depth	COLE		Grav	imetric/Vo	olumetric V	Vater Con	tents		Ks	sat	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
m				g/	g - m3/m	3			mn	ı/h	mm/h	
0 - 0.02												
0 - 0.05												

0 - 0.02 0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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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

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