Project	t Code: E	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed081 C	Observation ID:	1
Desc. B Date De Map Re Northin Easting	esc.: 03, f.: Sh g/Long.: 660 //Lat.: 769	McGarry /06/86 eet No. : 8837_N 1:50000 67700 AMG zone: 55 9200 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, near 238 metres No Data No Data No Data	Edgeroi
<u>Geoloc</u> Exposu Geol. R	ireType: Un	disturbed soil core Data	Conf. Sub. is Pare Substrate Materia		
Morph. Elem. T Slope: <u>Surfac</u> Erosio	pe Class: No Type: No ype: No 0 ° e Soil Cond n:	o Data o Data o Data % i <u>tion (dry):</u> Self-mulching	Pattern Type: Relief: Slope Category: Aspect:	Flood plain No Data Very gently slope 0 degrees	ed
	assification	· · · · ·			N1/A
N/A ASC Co Confide	ian Soil Class onfidence: ence level not s sturbance:		Princi	ing Unit: ipal Profile Form: Soil Group:	N/A Ug5.16 Grey clay
Vegeta	tion:				
	e Coarse Fra				
A11	<u>Morpholog</u> 0 - 0.1 m	Very dark grey (10YR3/1-M structure, 10-20 mm, Suba	ngular blocky; Rough acropores, Moderatel	n-ped fabric; Fine, (0	ight clay; Weak grade of) - 5) mm crack; Few (<1 per onsistence; Field pH 6.5 (pH
A12	0.1 - 0.25 m	Very dark grey (10YR3/1-M blocky; Smooth-ped fabric; 100mm2) Fine (1-2mm) ma meter); Common, very fine	Rough-ped fabric; F acropores, Moderatel	ine, (0 - 5) mm crac	k; Common (1-5 per
A13	0.25 - 0.55 m		ped fabric; Fine, (0 - erately moist; Strong	5) mm crack; Com consistence; 0-2%	mon (1-5 per 100mm2) Fine , fine gravelly, 2-6mm,
A14	0.55 - 1.1 m	Black (10YR2/1-Moist); , 10 20-50 mm, Angular blocky; (<1 per 100mm2) Very fine Very few (0 - 2 %), Calcare very fine (0-1mm) roots; Di	Smooth-ped fabric; (0.075-1mm) macro cous, Fine (0 - 2 mm)	Rough-ped fabric; F pores, Moderately r , Nodules; Field pH	noist; Strong consistence;
B21	1.1 - 1.9 m	Brown (7.5YR4/2-Moist); , Medium clay; Moderate gra Angular blocky; Smooth-pe (0.075-1mm) macropores, Calcareous, Fine (0 - 2 mm	ade of structure, Lent ed fabric; Fine, (0 - 5) Moderately moist; Ve	icular; Weak grade mm crack; Few (<1 ery firm consistence	l per 100mm2) Very fine ; Very few (0 - 2 %),
B22	1.9 - 2.62 m	Medium clay; Weak grade mm, Angular blocky; Smoo (0.075-1mm) macropores,	of structure, 50-100 r th-ped fabric; Fine, (Moderately moist; V coarse fragments; F	mm, Prismatic; Wea 0 - 5) mm crack; Fe ⁄ery strong consiste	, 2-10% , 15-30mm, Distinct; kk grade of structure, 10-20 w (<1 per 100mm2) Very fine nce; 0-2%, fine gravelly, 2- areous, Coarse (6 - 20 mm),
Morph	ological Not	AS			

Morphological Notes

70-80 shows flecks of carbonate. Site sampled was near rail line - one rounded basalt stone at 10cm is probably ballast. Coarse fragments stop at 65cm. Small carbonate (1-2mm) to 180cm, then large carbonate from 225 on. Manganese stain begi

Project Name:	Soil Studies in the	he Lower N	lamoi Valley		
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Agency Name:	CSIRO Division	of Soils (Q	LD)		

A12

ns at 190cm on. ? aeolian component. Photoed twice - incorrectly as site 180 - photos repeated as 081.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, fifth (eroded) fan

Site Notes

Eastern side of the railway. Recent rain has made the surface sticky and the cracks are infilled.

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	7.26A	0.052A	12.98B	3.27	0.88	0.29				
0 - 0.1	6.61A	0.146A	16.51B	4.61	0.76	0.6				
0.1 - 0.2	7.4A	0.06A	19.38B	4.3	0.24	1.18				
0.3 - 0.4	8.29A	0.075A	25.6B	6.14	0.28	2.66				
0.7 - 0.8	8.64A	0.342A	A 27.37B	7.07	0.25	5.14				
1.2 - 1.3	8.83A	0.554A	A 24B	7.11	0.24	6.43				
2.5 - 2.6	8.71A	0.776A	A 22.98B	7.73	0.22	6.32				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	S
		С	P	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	1.04C									10.7	25.1
0 - 0.1	<0.1B	1.92C	13.6J								16.7	28.3
0.1 - 0.2	<0.1B	1.12C	2.2J								21.9	31.8
0.3 - 0.4	<0.1B	1.24C	<1J								21.8	41.6
0.7 - 0.8	0.3B	1.26C	<1J								22.5	44.8
1.2 - 1.3	1.4B	0.35C	<1J								17.1	43.8
2.5 - 2.6	0.5B	0.13C	<1J								13.9	43.5

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

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

Soil Studies in the Lower Namoi Valley **Project Name:** Project Code: Agency Name: EDGEROI Site ID: ed081 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
- 4A1
- EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 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 Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z