Project Name: Project Code: Agency Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed057 O	bservation ID:	1
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	n G.M. Roberts 31/07/85 Sheet No. : 8837_N 1:50000 6670500 AMG zone: 55 751400 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	C. and H. Freer, C 196 metres No Data No Data No Data	Greenbah
ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Material		
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data Terrace plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data	
	ondition (dry): Self-mulching, R	Recently cultivated		
Erosion: Soil Classificat	ion			
Australian Soil C N/A ASC Confidence	:	Princip	ng Unit: oal Profile Form: Soil Group:	N/A Ug5.15 Black earth
Confidence level	not specified :e: Cultivation. Irrigated, past or pr	esent		
Vegetation:	C. Outivation. Ingatod, past of pr	CSCIII		
Surface Coarse	Fragments:			
Profile Morpho				
A11p 0-0.1 m	of structure, 5-10 mm, Sul	bangular blocky; Earth e (0.075-1mm) macrop	ny fabric; Medium, (pores, Moderately r	nedium clay; Moderate grade (5 - 10) mm crack; Common noist; Very firm consistence; ooth change to -
A12 0.1 - 0.2	5 m Dark greyish brown (10YR- Weak grade of structure, 5 Coarse, (10 - 20) mm crack Moderately moist; Very stro Nodules; Field pH 8.3 (pH	0-100 mm, Subangula k; Few (<1 per 100mm ong consistence; Very	ar blocky; Earthy fal n2) Very fine (0.075 few (0 - 2 %), Calo	bric; Smooth-ped fabric; i-1mm) macropores,
A13 0.25 - 0.5	Weak grade of structure, 5	0-100 mm, Subangula arthy fabric; Smooth-p 075-1mm) macropores ous, Fine (0 - 2 mm),	ar blocky; Moderate ed fabric; Medium, s, Moderately moist	grade of structure, 10-20 (5 - 10) mm crack; Few (<1 ; Very strong consistence;
B21k 0.5 - 1 m	Brown (7.5YR5/4-Moist); , Medium clay; Moderate gra structure, 10-20 mm, Lentic Few (<1 per 100mm2) Very consistence; 0-2%, fine gra %), Calcareous, Fine (0 - 2	ade of structure, 10-20 cular; Smooth-ped fab y fine (0.075-1mm) ma avelly, 2-6mm, rounde) mm, Angular bloc rric; Earthy fabric; N acropores, Moderat d, Quartz, coarse fi	Aedium, (5 - 10) mm crack; ely moist; Strong ragments; Very few (0 - 2
B22 1 - 1.5 m		e of structure, 10-20 n poth-ped fabric; Mediu cropores, Moderately r Quartz, coarse fragme	nm, Angular blocky m, (5 - 10) mm crad moist; Very firm cor ents; Very few (0 -	nsistence; 0-2%, fine 2 %), Calcareous, Coarse
B23 1.5 - 2.8	m Reddish brown (5YR5/3-M Distinct; Medium clay; Stro structure, 5-10 mm, Angula per 100mm2) Very fine (0.0 Few (2 - 10 %), Calcareous	ng grade of structure, ar blocky; Smooth-ped 075-1mm) macropores	10-20 mm, Lenticu fabric; Medium, (5 s, Moderately moist	- 10) mm crack; Few (<1 ;; Very firm consistence;

Morphological Notes

Project Name:	Soil Studies ir	the Lower	Namoi Vall	ey	
Project Code:	EDGEROI	Site ID:	ed057	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (C	ALD)		

Heavy plough layer 10cm to 40cm. Increased ferruginous mottles - plus worm casts from 180-280cm. A11p

Observation Notes Parent Rock: alluvial sediment, clay, parna on fourth fan Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC		•	le Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	7.53A	0.062A	A 14.24B	9.26	1.38	1.25				
0 - 0.1	7.72A	0.116A	17.34B	10.54	1.27	1.88				
0.1 - 0.2	8.19A	0.095A	20.07B	11.28	0.85	2.75				
0.3 - 0.4	9.23A	0.244A	21.03B	10.08	0.52	4.52				
0.7 - 0.8	8.43A	1.29A	23.26B	13.62	1.14	10.88				
1.2 - 1.3	8.81A	1.071 <i>A</i>	A 26.34B	12.42	1.48	11.15				
2.5 - 2.6	8.43A	0.96A	25.36B	13	1.32	12.95				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
		С	Р	Р	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	1.34C									20.6	42.6
0 - 0.1	0.1B	1.23C	24.9J								23.2	48.1
0.1 - 0.2	0.1B	0.66C	8J								20.9	45
0.3 - 0.4	0.7B	0.62C	3J								22.7	46
0.7 - 0.8	0.8B	0.15C	9.6J								19	58.5
1.2 - 1.3	2.1B	0.08C	8.9J								14.3	63.9
2.5 - 2.6	0.4B	0.08C	3.8J								14.4	66.4

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

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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
- 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