Projec	ct Name: ct Code: cy Name:	EDGEROI Site ID: ed139 Observation ID: 1					
Site Information							
Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:		24/07/ Sheet 66601	Roberts /85 : No. : 8837_N 1:50000 I00 AMG zone: 55 )0 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	J.Amos/R. 316 metre No Data No Data No Data	n, Woodville	
<u>Geolo</u> Exposi Geol. F	ureType:	Undis No Da	sturbed soil core ata	Conf. Sub. is Parent. Mat.: No Da Substrate Material: No Da			
Morph. Type: No D		No Da Terra 0 % nditic	ata ce flat	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gently slope 310 degrees		1
	lian Soil Cl		cation:	Mapr	ing Unit:		N/A
N/A		acom			ipal Profile F	Form:	Ug5.15
	onfidence:		-10-1	Great	Soil Group:		Brown clay
	ence level r isturbanc		ecified Implete clearing. Pasture, nat	tive or improved cul	ltivated at sor	no stan	Cultivation Rainfed
Vegeta		<u>c.</u> 00	inplete cleaning. I asture, nat			ne stagt	, outivation. Rainicu,
	ce Coarse	Frag	ments:				
Profile	Morphol	ogy					
A11p	0 - 0.07 m	n	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Light medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Single grain grade of structure; Earthy fabric; Sandy (grains prominent) fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 6. (pH meter); Few, fine (1-2mm) roots; Abrupt, Smooth change to -				
A12	0.07 - 0.2	25 m	Brown (7.5YR4/2-Moist); , 10YR84, 0-2% , 5-15mm, Distinct; , 10YR32, 10-20% , 15-30mm, Distinct; Medium heavy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth- ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Organic (humified), Coarse (6 - 20 mm), Veins; Field pH 8.8 (pH meter); Few, fine (1-2mm) roots;				
B21k	0.25 - 0.7	<ul> <li>Brown (7.5YR4/2-Moist); , 7.5YR74, 2-10%, 15-30mm, Prominent; , 7.5YR84, 2-10%, 15-30mm, Prominent; Medium clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Few (2 - 10%), Calcareous, Coarse (6 - 20 mm), Soft segregations; Few (2 - 10%), Organic (humified), Coarse (6 - 20 mm), Veins; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -</li> </ul>					
B22k	0.7 - 1 m		Brown (7.5YR4/2-Moist); , 7.5YR84, 2-10% , 15-30mm, Prominent; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped 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), Soft segregations; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots;				
B23k	1 - 1.35 m	n	Brown (7.5YR5/4-Moist); , 7 Distinct; Medium clay; Stror structure, 10-20 mm, Angula 100mm2) Fine (1-2mm) ma %), Calcareous, Very coars Ferruginous, Fine (0 - 2 mm Clear, Smooth change to -	ng grade of structure ar blocky; Smooth-p cropores, Moderate e (20 - 60 mm), Sof	e, 100-200 mr bed fabric; Fin ly moist; Very t segregation	m, Prism ne, (0 - 5 y strong s; Very 1	natic; Strong grade of ) mm crack; Few (<1 per consistence; Few (2 - 10 few (0 - 2 %),

# Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID: ed139Observation ID: 1Agency Name:CSIRO Division of Soils (QLD)

2B21 1.35 - 2.95 m Brown (7.5YR4/4-Moist); , 7.5YR66, 2-10% , 15-30mm, Distinct; , 5YR54, 10-20% , 15-30mm, Distinct; Clayey sand; Weak grade of structure, 50-100 mm, Platy; Weak grade of structure, 2-5 mm, Subangular blocky; 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), Soft segregations; Few (2 - 10%), Ferruginous, Medium (2 -6 mm), Veins; Field pH 8.5 (pH meter);</p>

#### Morphological Notes

A11p

Well structured B2 horizon with faint ferruginous veins, calcium carbonate, manganese segregations. At 220-230 large calcium carbonate cemented nodules up to 50mm diameter. Worm casts at 230cm. Note conflict gendepth/hordesig.

### **Observation Notes**

Parent Rock: , , parna on third fan

#### Site Notes

Possibly some run-on here, as we are in very slight depression. Scattered floaters of stone (basalt). Firm to hardset. Rex Simpson, manager, mentions unusual hummocky relief on hillside footslope to north of this site. The poached surface r

Project Name: Project Code: Agency Name: Soil Studies in the Lower Namoi Valley EDGEROI Site ID: ed139 CSIRO Division of Soils (QLD) Observation ID: 1

# Laboratory Test Results:

Depth	рН	1:5 EC			e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	n	Cmol (				%
0 - 0.02	7.1A	0.095A	13.9B 9	9.190001	2.07	<0.01				
0 - 0.07	7.74A	0.08A	11.43B	12.25	1.14	0.35				
0.1 - 0.2	8.75A	0.155A	18.41B	16.96	0.38	1.37				
0.3 - 0.4	9.2A	0.212A	12.48B	18.65	0.21	3				
0.7 - 0.8	9.2A	0.459A	8.559999 B	21.48	0.47	5.33				
1.2 - 1.3	8.99A	0.585A	7.39B	20.61	0.81000 01	3.94				
2.5 - 2.6	9.11A	0.431A	5.2B	17.24	0.45	5.19				
Depth	CaCO3	Organic C	Avail. P	Total P	I Total N	Tota K	al Bulk Density	Partic GV CS		Analysis Silt Clay
m	%	%	г mg/kg	-	%	%	Mg/m3	GV C.	%	Sint Ciay
0 - 0.02	<0.1B	1.61C								16.5 36.8
0 - 0.02	0.1B	1.53C	17J							16.7 36.1
0.1 - 0.2	3.6B	0.86C	3.6J							13.6 46.2
0.3 - 0.4	6.4B	0.64C	1.5J							13.9 47.6
0.7 - 0.8	6.8B	0.29C	2.3J							13.1 48.5
1.2 - 1.3	6B	0.28C	7.3J							12.6 46.3
2.5 - 2.6	17.1B	0.01C	2.9J							10.8 33.6
Depth	COLE		Grav	vimetric/V	olumetric V	Vater Co	ntents	,	( sat	K unsat
		Sat.		0.1 Bar	0.5 Bar	1 Bar		5 Bar		
m				g	y/g - m3/m	3		n	nm/h	mm/h

0 - 0.02 0 - 0.07 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
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 Silt (%) - Coventry and Fett pipette method