Project Name: Project Code: Agency Name:	EDGEROI Site ID:	ed090 Observation ID:	: 1
Site Informatic Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	W.T. Ward 05/01/87 Sheet No. : 8837_N 1:50000	Locality:Auscott Ltd, AuElevation:194 metresRainfall:No DataRunoff:No DataDrainage:No Data	iscott
ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Parent. Mat.: No E Substrate Material: No E	
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data No Data Terrace plain 0 %	Pattern Type:No DataRelief:No DataSlope Category:LevelAspect:No Data	
Surface Soil C Erosion:	ondition (dry): Self-mulching,	Recently cultivated	
Soil Classifica			
Australian Soil C N/A ASC Confidence Confidence level	e:	Mapping Unit: Principal Profile Form Great Soil Group:	N/A n: Ug5.16 Grey clay
Site Disturban Vegetation: Surface Coars	ce: Cultivation. Irrigated, past or p e Fragments:	resent	
Profile Morpho			
A11p 0-0.1 n	Faint; Medium clay; Mode structure, 2-5 mm, Granu Very fine (0.075-1mm) ma 2-6mm, subangular, Quar	10YR3/2-Moist); Dark grey (10YR4/1-D rate grade of structure, 50-100 mm, An lar; Smooth-ped fabric; Fine, (0 - 5) mr icropores, Moderately moist; Strong co tz, coarse fragments; Very few (0 - 2 % 5 (pH meter); Few, very fine (0-1mm) r	gular blocky; Moderate grade of n crack; Few (<1 per 100mm2) nsistence; 0-2%, fine gravelly,), Calcareous, Fine (0 - 2
A12 0.1 - 0.2	Moderate grade of structu Angular blocky; Smooth-p (0.075-1mm) macropores	10YR3/2-Moist); , 10YR63, 0-2% , 0-5n re, 100-200 mm, Prismatic; Moderate g ed fabric; Medium, (5 - 10) mm crack; F s, Moderately moist; Strong consistence n), Nodules; Field pH 8.5 (pH meter); F	prade of structure, 20-50 mm, Few (<1 per 100mm2) Very fine e; Very few (0 - 2 %),
A13 0.25 - 0.	Medium clay; Moderate c structure, 20-50 mm, Angr per 100mm2) Very fine (0.); , 10YR53, 0-2% , 0-5mm, Distinct; , rade of structure, 100-200 mm, Prisma Jar blocky; Smooth-ped fabric; Medium 075-1mm) macropores, Moderately mo Fine (0 - 2 mm), Nodules; Field pH 8.7	n, (5 - 10) mm crack; Few (<1 n, (5 - 10) mm crack; Few (<1 Dist; Strong consistence; Very
A14 0.55 - 1.	structure, 20-50 mm, Lent 100mm2) Very fine (0.075); , 10YR63, 0-2% , 0-5mm, Distinct; M icular; Smooth-ped fabric; Fine, (0 - 5) -1mm) macropores, Moderately moist; e (0 - 2 mm), Nodules; Field pH 9 (pH r	mm crack; Few (<1 per Strong consistence; Very few
B2 1.2 - 1.9	Distinct; Medium clay; We Fine, (0 - 5) mm crack; Fe	10YR41, 10-20% , 0-5mm, Prominent; ak grade of structure, 50-100 mm, Ang w (<1 per 100mm2) Very fine (0.075-1 ; Very few (0 - 2 %), Calcareous, Fine (oth change to -	ular blocky; Smooth-ped fabric; nm) macropores, Moderately
1.9 - 2.9	Distinct; Medium clay; Mo structure, 20-50 mm, Angu 100mm2) Very fine (0.075	10YR62, 0-2%, 5-15mm, Prominent;, derate grade of structure, 50-100 mm, ular blocky; Smooth-ped fabric; Fine, (0 -1mm) macropores, Very firm consisten n), Nodules; Field pH 9 (pH meter);	Lenticular; Weak grade of - 5) mm crack; Few (<1 per
Morphological	Notes		

Morphological Notes

Project Name:	Soil Studies in t				
Project Code: Agency Name:	EDGEROI CSIRO Division	Site ID: of Soils (Q		Observation ID:	1
0 ,		,	,		

A11p	Some signs of inwashed sand at 110cm. At 120-130cm the core section appeared to be
	quite massive. The colour in the 250-260cm section is dull greyish- brown, compared to
	the colour at 120-130cm. This probably due to gleying. Typical older a
A12	lluvium in appearance - deep grey top on dull yellow brown clay. Possibly slightly thickened by levelling.

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

Site Notes High terrace. Drill site 75 meters west of target due to water hazard. Drillhole is in cotton mound.

Project Name:	Soil Studies in	n the Lower	Namoi Valle	еу	
Project Code:	EDGEROI	Site ID:	ed090	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

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	8.57A	0.1744	A 26.03B	14.43	1.91	1.7				
0 - 0.1	8.37A	0.123/	A 25.4B	16.12	1.52	1.25				
0.1 - 0.2	8.61A	0.0924	A 24.59B	16.6	1.51	1.44				
0.3 - 0.4	8.92A	0.158/	A 22.86B	17.24	1.03	2.26				
0.7 - 0.8	9.11A	0.283/	20.83B	17.49	1.28	5.73				
1.2 - 1.3	8.99A	0.3754	A 19.9B	17.57	1.33	6.93				
2.5 - 2.6	9.16A	0.4054	A 18.57B	16.92	1.14	5.79				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
		С	P	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	0.65C									13.1	63.8
0 - 0.1	<0.1B	0.75C	32J								14.7	61.9
0.1 - 0.2	0.1B	0.69C	28.8J								16	64.3
0.3 - 0.4	0.3B	0.49C	7.3J								14.7	63.5
0.7 - 0.8	0.3B	0.44C	32.5J								15.4	64.1
1.2 - 1.3	0.5B	0.35C	41.2J								15	66.2
2.5 - 2.6	2.1B	0.14C	13.7J								17.3	66.1

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
		Sat.	0.05 Bar	0.1 Bar		1 Bar	5 Bar	15 Bar		
m				g/	g - m3/m3	5			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
6B3	Total organic carbon - high frequency induction furnace, infrared

- 6B3 7B1 Total organic carbon - high frequency induction furnace, infrared Water soluble nitrate - automated colour
- 9B1 Bicarbonate-extractable phosphorus - manual colour
- P10_CF_C P10_CF_Z Clay (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method