Project Name: Project Code: Agency Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (QI	ed047 O	bservation ID:	1
Date Desc.: Map Ref.: Northing/Long.:	G.M. Roberts 01/08/85 Sheet No. : 8837_N 1:50000 6672100 AMG zone: 55 772000 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Geoff Hall, New A 252 metres No Data No Data No Data No Data	cres
	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Material		
Morph. Type: Elem. Type:	No Data No Data Terrace plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gently sloped No Data	1
<u>Surface Soil Cor</u> Erosion:	ndition (dry): Surface crust, Re	ecently cultivated		
Soil Classification		Manni	ng Unit:	N/A
N/A ASC Confidence: Confidence level no		Princi	oal Profile Form: Soil Group:	Ug5.15 Brown clay
Vegetation: Surface Coarse	_			
Profile Morpholo				
A11p 0 - 0.08 m		Weak grade of struc ck; Few (<1 per 100m nsistence; Field pH 8	ture, 5-10 mm, Suba m2) Very fine (0.07	angular blocky; Earthy 5-1mm) macropores,
A12p 0.08 - 0.25	5 m Very dark greyish brown (10 5-10 mm, Subangular block fabric; Smooth-ped fabric; M 1mm) macropores, Moderat fine (0-1mm) roots;	ky; Weak grade of str Medium, (5 - 10) mm	ucture, 20-50 mm, S crack; Few (<1 per	Subangular blocky; Earthy 100mm2) Very fine (0.075-
A13p 0.25 - 0.7	10-20 mm, Angular blocky; fabric; Medium, (5 - 10) mm	Moderate grade of st crack; Few (<1 per	ructure, 5-10 mm, L 100mm2) Very fine	enticular; Smooth-ped
B21 0.7 - 1 m	Brown (7.5YR4/4-Moist); , 1 Distinct; Medium heavy clay grade of structure, 5-10 mm Common (1-5 per 100mm2) consistence; Very few (0 - 2 meter); Clear, Smooth cha	y; Weak grade of stru n, Angular blocky; Sm) Very fine (0.075-1m 2 %), Calcareous, Fin	cture, 20-50 mm, Si ooth-ped fabric; Fin m) macropores, Mo	ubangular blocky; Weak le, (0 - 5) mm crack;
B22 1 - 1.38 m		k grade of structure, ngular blocky; Smoot (0.075-1mm) macro	10-20 mm, Subangu n-ped fabric; Fine, (pores, Moderately n	ular blocky; Moderate grade 0 - 5) mm crack; Common noist; Firm consistence;
B23 1.38 - 2.68	structure; Moderate grade c	of structure, 5-10 mm per 100mm2) Very f	, Angular blocky; Sn	
Morphological N A11p	lotes Worm casts from 140-198. \	/isible crack depth is	29cm. Stubble reter	ntion site.

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Observation ID: 1

Observation Notes

Parent Rock: alluvial sediment, clay, first terraced fan

Site Notes

Wheat stubble remains on the field.

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl	e Cations K	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	n	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.7A	0.131/	A 32.99B	11.93	2.11	0.48				
0 - 0.08	8.08A	0.2024	A 31.06B	12.54	1.91	0.79				
0.1 - 0.2	8.77A	0.095A	A 31.71B	15.03	1.28	1.41				
0.3 - 0.4	9.17A	0.19A	29.62B	18.92	1.08	3.79				
0.7 - 0.8	9.57A	0.337/	A 20.15B	21.51	0.91	9.38				
1.2 - 1.3	9.34A	0.596/	A 15.31B	20.24	0.88	9.3				
2.5 - 2.6	8.89A	0.9384	A 12.98B	17.5	0.69	6.77				

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	s
		С	Р	Р	Ν	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	0.5B	1.36C									14.5	52.6
0 - 0.08	0.2B	2.12C	40.8J								14.8	51.4
0.1 - 0.2	0.1B	1.25C	24.8J								16	55.5
0.3 - 0.4	1.3B	1.18C	27.9J								17.5	56.9
0.7 - 0.8	2.3B	0.89C	40.1J								18.5	55.2
1.2 - 1.3	2.1B	0.33C	26.3J								22.5	51.4
2.5 - 2.6	0.7B	0.11C	16.9J								18.7	43.5

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

0 - 0.02 0 - 0.08 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: ed047 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
	Soluble Sails
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
1001	

- 19B1 Carbonates - manometric
- 3A1 EC of 1:5 soil/water extract
- 4A1
- 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