Projec	ct Name: ct Code: cy Name:	Soil Studies in the Lower M EDGEROI Site ID: CSIRO Division of Soils (Q		ed004 C	bservatio	n ID:	1		
Desc. I Date D Map Ro Northin Easting	Date Desc.:17/05Map Ref.:SheetNorthing/Long.:66777		eldhuis 5/85 t No. : 8837_N 1:50000 750 AMG zone: 55 00 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Twynam Pastora 194 metres No Data No Data No Data No Data		Co., Boolcarrol		
<u>Geolo</u> Exposi Geol. F	ureType:	Undis No D	sturbed soil core Data	Conf. Sub. is Parent. Mat. Substrate Material:		No Dat No Dat			
Morph Elem. Slope:	ope Class: . Type: Type:	No D Terra 0 %	Data Relief: No Data race plain Slope Category: Level						
Austra N/A ASC C Confid <u>Site D</u> Vegeta	lassificat lian Soil C Confidence ence level i isturbanc ation:	lassifie :: not spe ::: Cu	ecified ultivation. Rainfed	Princi	ing Unit: pal Profile Soil Group		N/A Ug5.25 Grey clay		
	ce Coarse		ments:						
<u>Profile</u> A11p	struct fabri Mode		Brown (7.5YR4/2-Moist); Brown (7.5YR4/2-Dry); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Granular; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 8.1 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -						
A12x	0.1 - 0.25	5 m	, , ,	e of structure; Earthy f -1mm) macropores, N	abric; Fine, loderately n	(0 - 5) m noist; Ve			
A13x	0.25 - 0.4	4 m	5) mm crack; Few (<1 per	mm, Subangular bloc 100mm2) Very fine (0 ew (0 - 2 %), Calcare	ky; Smooth).075-1mm)	-ped fab macrop	pric; Earthy fabric; Fine, (0 -		
A14	0.4 - 1.1	m	Dark brown (10YR3/3-Moi 5mm, Distinct; Light mediu Smooth-ped fabric; Earthy (0.075-1mm) macropores, Fine (0 - 2 mm), Nodules Smooth change to -	ım clay; Weak grade (fabric; Fine, (0 - 5) m Moderately moist; Fir	of structure, m crack; Fe m consister	20-50 m ew (<1 pe nce; Ver	nm, Subangular blocky; er 100mm2) Very fine y few (0 - 2 %), Calcareous,		
B21	1.1 - 1.9	m	5YR58, 0-2% , 0-5mm, P	rominent; Medium cla ew (<1 per 100mm2) ' Very few (0 - 2 %), Fe	y; Massive (Very fine (0. erruginous, l	grade of 075-1m Medium			
B22	1.9 - 3 m		Light medium clay; Massiv mm crack; Few (<1 per 10	e grade of structure; 0mm2) Very fine (0.0	Earthy fabrie 75-1mm) ma	c; Smoo acropore	3, 0-2% , 0-5mm, Prominent; th-ped fabric; Fine, (0 - 5) es, Moderately moist; Weak oft segregations; Field pH 9		

Morphological Notes

Observation ID: 1

A11p Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan

Site Notes

Due to cultivation the surface cracks are not visible. The penetrometer finds big cracks.

Project Name:	Soil Studies in	n the Lower	Namoi Valley	
Project Code:	EDGEROI	Site ID:	ed004	Observation ID:
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)	

Laboratory Test Results:

Depth	рН	1:5 EC		changeabl		NI.	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	7.91A	0.205A	A 32.19B	12.87	2.57	2.45				
0 - 0.1	8.62A	0.178A	27.74B	12.49	1.69	4.9				
0.1 - 0.2	9.21A	0.197A	31.78B	13.73	1.34	3.4				
0.3 - 0.4	9.32A	0.267 <i>F</i>	A 36.46B	15.58	0.85	5.57				
0.7 - 0.8	9.08A	0.746A	30.29B	14.99	0.68	8.4				
1.2 - 1.3	8.74A	1.415A	27.94B	15.9	0.78	13.76				
2.5 - 2.6	9.08A	1.066A	A 25.4B	16.09	0.71	14.55				

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02	<0.1B	0.91C									18.4	66.8
0 - 0.1	0.1B	0.68C	28.3J								18.7	66.7
0.1 - 0.2	0.3B	0.45C	9.3J								16	68.9
0.3 - 0.4	0.4B	0.48C	15J								17	69.2
0.7 - 0.8	0.9B	0.3C	21.9J								13.8	55.1
1.2 - 1.3	1.2B	0.16C	19.4J								17.8	72.6
2.5 - 2.6	1.2B	0.04C	12.5J								18.3	67.9

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3		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
6B3	Total organic carbon - high frequency induction furnace, infrared

- 7B1
- Water soluble nitrate automated colour Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z