Projec	ct Code: E	oil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed354 O	bservation ID:	1			
Desc. I Date D Map Ro Northin Easting	esc.: 24/0 ef.: She ng/Long.: 665 g/Lat.: 780	F. Ward 07/87 bet No. : 8837_N 1:50000 i3700 AMG zone: 55 0900 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, at Tr 361 metres No Data No Data No Data No Data	welve Mile Hill			
Geol. F	ureType: Une Ref.: No	disturbed soil core Data		Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data				
Morph Elem. Slope:	ope Class: No . Type: No Type: Hill 3 %		Pattern Type: Relief: Slope Category: Aspect:	Relief: No Data Slope Category: Gently inclined				
		tion (dry): Loose						
Erosic Soil C	on: lassification							
Austra N/A ASC C	lian Soil Class		Princi	ng Unit: pal Profile Form: Soil Group:	N/A Dr2.32 Red podzolic soil			
	ence level not s isturbance:	pecified						
Veget								
Surfac	ce Coarse Fra	agments:						
	e Morphology							
A1	0 - 0.1 m	Dark brown (7.5YR3/2-Mois 5-10 mm, Subangular block Common (1-5 per 100mm2 consistence; 0-2%, fine gra 5.5 (pH meter); Few, very f	ky; Massive grade of) Very fine (0.075-1m welly, 2-6mm, suban	structure; Earthy fa nm) macropores, N gular, Sandstone, o	abric; Fine, (0 - 5) mm crack; loderately moist; Firm coarse fragments; Field pH			
A2	0.1 - 0.22 m	Light brown (7.5YR6/4-Moist); , 7.5YR84, 2-10%, 15-30mm, Distinct; Fine sandy loam; Massive grade of structure; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Sandstone, coarse fragments Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -						
B21	0.22 - 0.3 m	Yellowish red (5YR4/6-Moist); , 7.5YR84, 0-2% , 5-15mm, Distinct; , 5YR32, 0-2% , 0-5mm, Faint; Light medium clay; Strong 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; Very firm consistence; 50-90%, coarse gravelly, 20-60mm, angular tabular, Sandstone, coarse fragments; Field pH 5.8 (pH meter); Few, fine (1-2mm) roots;						
B22	0.3 - 0.55 m	Dark reddish brown (2.5YR3/4-Moist); , 5YR53, 0-2% , 0-5mm, Distinct; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; 90-100%, coarse gravelly, 20-60mm, angular tabular, Sandstone, coarse fragments; Field pH 5.8 (pH meter); Common, coarse (>5mm) roots; Diffuse, Smooth change to -						
C1	0.55 - 1 m	Reddish brown (5YR5/4-Mo grade of structure; Fine, (0 macropores, Moderately mo angular platy, Sandstone, c	- 5) mm crack; Few (oist; Very strong cons	<1 per 100mm2) \ sistence; 90-100%	/ery fine (0.075-1mm) , coarse gravelly, 20-60mm,			
C2	1 - 1.52 m		nm crack; Few (<1 pe onsistence; 90-100%,	er 100mm2) Very fi coarse gravelly, 2				
<u>Morph</u> A1	nological Note	es Lower part of A1 is quite ma temporary waterlogging in fi colours occur in fissures. Sh	ssures. They occur b	eside root channel	s. At 70-80 gley			

Project Name:	Soil Studies in	the Lower	Namoi Valle	ey 🛛	
Project Code:	EDGEROI	Site ID:	ed354	Observation ID: 1	
Agency Name:	CSIRO Division	n of Soils (C	QLD)		

he textures determined for 4, 5, 6 are medium clay, medium clay, light clay.

Observation Notes

Parent Rock: residual, sandstone, Pilliga Sandstone

Site Notes

A2

Abundant tabular iron-stained rock plates and fragments on surface. Groundsurface slightly rill eroded. This site is 285 paces S of 338.

Project Name: Project Code: Agency Name: Soil Studies in the Lower Namoi Valley EDGEROI Site ID: ed354 CSIRO Division of Soils (QLD) Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.1	5.01A	0.043A	0.74B	<0.1	0.62	0.07				
0.1 - 0.2	4.98A	0.03A	<0.1B	1.17	0.43	0.01				
0.2 - 0.3	5.25A	0.043A	0.21B	3.82	0.57	0.4				
0.3 - 0.4	5.38A	0.061A	<0.1B	5.74	0.59	0.71				
0.7 - 0.8	8.01A	0.279A	<0.1B	10.84	0.68	2.61				
1.2 - 1.3	8.76A	0.371A	<0.1B	6.86	0.55	2.36				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
		С	Р	Р	Ν	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	<0.1B	2.59C	8J								6.4	13.5
0.1 - 0.2	<0.1B	1.33C	2.5J								8.4	19.2
0.2 - 0.3	<0.1B	0.83C	<1J								8.2	36.8
0.3 - 0.4	<0.1B	0.55C	<1J								7.7	38
0.7 - 0.8	<0.1B	0.11C	1J								25	37.7
1.2 - 1.3	<0.1B	0.25C	28.4J								18.1	25.7

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROIAgency Name: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
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