Project Name: Project Code: Agency Name	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed168 Observ	ration ID: 1
Site Informatic Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	W.T. Ward 31/01/86 Sheet No. : 8837_N 1:50000		ata
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Parent. Ma Substrate Material:	t.: No Data No Data
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope:	No Data No Data Terrace flat 0 %	Pattern Type:No DRelief:No DSlope Category:LeveAspect:No D	lata
Surface Soil C	ondition (dry): Surface crust, T	rampled	
Erosion:			
Soil Classifica	tion		
Australian Soil (Classification:	Mapping Un	
N/A ASC Confidenc	e .	Principal Pro Great Soil G	3
Confidence level			
Site Disturban	<u>ce</u>: Complete clearing. Pasture, na	tive or improved, cultivated	at some stage
Vegetation:			
Surface Coars			
<u>Profile Morpho</u> A11 0 - 0.1 r	Dark brown (7.5YR3/2-Moi structure, 20-50 mm, Angu		ry); ; Light clay; Moderate grade of e, (0 - 5) mm crack; Moderately moist; , very fine (0-1mm) roots;
A12 0.1 - 0.2		(0 - 5) mm crack; Moderate	rade of structure, 10-20 mm, Subangular ly moist; Strong consistence; Field pH 7.5
A13 0.25 - 0	structure, 10-20 mm, Suba	ngular blocky; Earthy fabric; few (0 - 2 %), Calcareous, F	n, Faint; Medium clay; Strong grade of Fine, (0 - 5) mm crack; Moderately moist; ine (0 - 2 mm), Nodules; Field pH 8.5 (pH
A14 0.55 - 0	Distinct; Medium heavy cla fabric; Fine, (0 - 5) mm cra	y; Moderate grade of structurack; Moderately moist; Stron	n, Faint; , 10YR44, 0-2% , 0-5mm, ıre, 20-50mm, Subangular blocky; Earthy ıg consistence; Very few (0 - 2 %), ł meter); Diffuse, Smooth change to -
B2 0.9 - 2.2	Distinct; Medium clay; Mod Fine, (0 - 5) mm crack; Mod	lerate grade of structure, 20-	n, Faint; , 5YR22, 2-10% , 5-15mm, -50 mm, Angular blocky; Earthy fabric; stence; Very few (0 - 2 %), Calcareous, use, Smooth change to -
C 2.2 - 2.7	Prominent; Medium clay; W Smooth-ped fabric; Fine, (0	Veak grade of structure, 50- [.]) - 5) mm crack; Common (1 oist; Strong consistence; Ve	5mm, Faint; , 5YR32, 20-50% , 30-mm, 100 mm, Angular blocky; Earthy fabric; -5 per 100mm2) Very fine (0.075-1mm) ery few (0 - 2 %), Calcareous, Medium (2
Morphological			
A11 A12	Second and third cores wer not been sampled. Topsoil I coexisting with moderate to nize two structures 0-10. Co	has dried out, powdery surfa strong angular blocky, but r	not enough to recog
Observation N		οιοαι οπο, 200-200, 18 101 μα	
5.000. 1440111	<u></u>		

Parent Rock: alluvial sediment, mixed texture, with lime, second terraced fan Site Notes

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Grasses too dry and eaten to identify. Surface soil is reddish-brown, and appears quite dispersive. No surface stone.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	e Cations K	s Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	n	Cmol (%
0 - 0.02	7.02A	0.117A	11.37B	12.24	2.42	<0.01				
0 - 0.1	6.46A	0.24A	7.46B	11.54	1.24	0.93999 99				
0.1 - 0.2	7.42A	0.139A	12.15B	22.42	0.82	2.2				
0.3 - 0.4	8.98A	0.356A	15.41B	28.16	0.65	4.21				
0.7 - 0.8	8.94A	0.322A	10.12B	26.36	0.64	5.64				
1.2 - 1.3	9.23A	0.328A	8.25B	20.14	0.56	3.63				
2.5 - 2.6	9.13A	0.269A	9.4B	25.65	0.58	4.84				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	5
•		Ċ	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	2.57C									21.7	35.7
0 - 0.1	<0.1B	2.16C	49.4J								21.4	33.1
0.1 - 0.2	<0.1B	1.43C	6J								19.2	53.8
0.3 - 0.4	3.1B	1.25C	3.7J								22.1	53.7
0.7 - 0.8	0.5B	0.69C	30J								19.3	51.4
1.2 - 1.3	1.7B	0.22C	18.5J								21.6	40.1
2.5 - 2.6	0.7B	0.23C	21.7J								37	50.6

Depth	COLE	Gravimetric/Volume	K sat	K unsat			
		Sat. 0.05 Bar 0.1 Bar 0.5	Bar 1 Bar 5 Bar	r 15 Bar			
m		g/g - r	n 3/m3		mm/h	mm/h	
0 - 0.02							

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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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