Project Name: Project Code: Agency Name:	Soil Studies in the Lower I EDGEROI Site ID: CSIRO Division of Soils (C	ed010 O	bservation ID:	1				
Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	n G.M. Roberts 16/07/85 Sheet No. : 8837_N 1:50000 6677300 AMG zone: 55 766700 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, at Fairview 232 metres No Data No Data No Data					
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia						
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	No Data No Data Terrace plain 0 % ondition (dry): Self-mulching, 7	Pattern Type: Relief: Slope Category: Aspect: Trampled	No Data No Data Level No Data					
Erosion: Soil Classificat	ion							
Australian Soil C N/A ASC Confidence Confidence level	lassification: : not specified	Princi	ng Unit: pal Profile Form: Soil Group:	N/A Ug5.15 Brown clay				
Vegetation: Surface Coarse								
Profile Morphology A11 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;								
A12 0.1 - 0.2	Moderate grade of structu Fine, (0 - 5) mm crack; Fer moist; Firm consistence; 2 few (0 - 2 %), Calcareous	Dark greyish brown (10YR4/2-Moist); , 10YR81, 0-2% , 5-15mm, Prominent; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Common, fine (1-2mm) roots; Gradual, Smooth change to -						
A13k 0.2 - 0.5	Moderate grade of structur Angular blocky; Earthy fab Very fine (0.075-1mm) ma gravelly, 2-6mm, rounded,	Very dark greyish brown (10YR3/2-Moist); , 10YR81, 0-2% , 0-5mm, Faint; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to						
B21 0.52 - 0. ⁷	Moderate grade of structur (0 - 5) mm crack; Few (<1	Dark brown (10YR3/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -						
B22 0.7 - 1 m	Prismatic; Moderate grade 5) mm crack; Few (<1 per consistence; 0-2%, fine gra	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;						

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B23	1 - 1.9 m	Brown (7.5YR4/4-Moist); , 10YR31, 0-2% , 0-5mm, Faint; , 10YR81, 0-2% , 0-5mm, Faint; Medium heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.2 (pH meter); Few, very fine (0-1mm) roots;
B24	1.9 - 2.72 m	Brown (7.5YR4/4-Moist); , 10YR31, 0-2% , 0-5mm, Faint; , 10YR81, 0-2% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate grade of

Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate 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; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.2 (pH meter);

Morphological Notes

A11

Inwashed sand grains at 80cm. Distinct bands of calcium carbonate at 155 and 206cm. There is also calcium carbonate in lesser % throughout this horizon.

Observation Notes

Parent Rock: , , parna on fourth fan

Site Notes

Easy drilling to 1 metre - red ochreous mottles in lower B2 horizon.

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	Na	Exchangeabl	e CEC	•	ECEC	ES	SP
m		dS/m	Ca	Mg	n	Ma Cmol (+	Acidity -)/kg				%	
0 - 0.02	7.11A	0.23A	22.97B	13.17	4.13	0.84						
0 - 0.1	8.26A		32.62B	14.38	2.31	2.12						
0.1 - 0.2	8.95A		30.92B	14.41	1.48	3.99						
0.3 - 0.4	9.34A		26.04B	15.47	1.5	8.13						
0.52 - 0.6	9.27A	-	24.93B	15.48	1.72	10.82						
0.7 - 0.8	9.13A		25.05B	16.44	1.94	12.9						
1.2 - 1.3	8.77A		23.84B	16.53	1.98	13.71						
2.5 - 2.6	9.04A	0.818A	21.02B	16.89	1.88	12.91						
		. .						_				
Depth	CaCO3	Organic	Avail. P	Total P	Total N	Total K			article CS		Analysis	
m	%	C %	r mg/kg	P %	N %	к %	Density Mg/m3	/ GV	63	FS %	Silt C	lay
	70	70	iiig/kg	70	70	70	ing/ins			70		
0 - 0.02	<0.1B	2.67C									17.5	56
0 - 0.1	0.1B	1.06C	11.1J								14.4	58.4
0.1 - 0.2	0.5B	0.66C	3.3J								14.9	59
0.3 - 0.4	1B	0.58C	3.1J								15.2	58.7
0.52 - 0.6	1.2B	0.48C	5.9J								15.2	62.4
0.7 - 0.8	1.1B	0.36C	19.1J								15.1	64.6
1.2 - 1.3	1.5B	0.04C	15.4J								12.9	70.5
2.5 - 2.6	1.7B	0.04C	9.9J								15.4	62.4
Donth	COLE		0	imotrio///-	olumetric V	Notor Com	tonto		K-	-	K unsat	
Depth	COLE	Sat.		0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	Ks	al	r unsat	
m		341.	0.05 Ddf		о.5 Баг g - m3/m		3 Dai	i J Ddi	mn	ı/h	mm/h	
0 - 0.02 0 - 0.1												

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.52 - 0.6 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

for