Project N Project ( Agency I	Code: E	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (QL	ed026		oservatio	n ID:	1
Site Info Desc. By: Date Desc Map Ref.: Northing/ Easting/L	G.I c.: 19/ Sh Long.: 66	M. Roberts 07/85 eet No. : 8837_N 1:50000 75100 AMG zone: 55 2500 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		B.L. Lang 220 metre No Data No Data No Data	,	ndaroo
<u>Geology</u> Exposure Geol. Ref.	Type: Un	disturbed soil core	Conf. Sub. i Substrate N			No Data No Data	
Land For Rel/Slope Morph. Ty Elem. Typ Slope:	Class: No /pe: No pe: Te 0 9		Pattern Typ Relief: Slope Categ Aspect:		No Data No Data Very gent No Data	ly sloped	1
Surface : Erosion:		ition (dry): Self-mulching, Re	ecently cultiva	ated			
	sification						
N/A <b>ASC Con</b> Confidenc	ce level not	specified			ig Unit: al Profile Soil Group		N/A Ug5.15 Brown clay
Vegetation Surface	<u>on:</u> Coarse Fra						
_	<b>lorpholog</b> ) - 0.06 m	Dark greyish brown (10YR4, Moderate grade of structure (<1 per 100mm2) Very fine ( Field pH 8 (pH meter); Few,	, 2-5 mm, Gra (0.075-1mm)	anular; E macropo	arthy fabri pres, Mode	ic; Mediu erately m	ım, (5 - 10) mm crack; Few oist; Strong consistence;
A12k 0	).06 - 0.25 m	<ul> <li>Very dark greyish brown (10 Moderate grade of structure Lenticular; Smooth-ped fabr 1mm) macropores, Moderat Quartz, coarse fragments; F (pH meter); Few, very fine (0</li> </ul>	, 20-50 mm, Ĺ ic; Fine, (0 - 5 ely moist; Firr ēw (2 - 10 %)	_enticula 5) mm cr m consis ), Calcar	ar; Modera ack; Few ( stence; 0-2	te grade <1 per 1 %, fine g	of structure, 2-5 mm, 00mm2) Very fine (0.075- gravelly, 2-6mm, rounded,
A13k 0	).25 - 0.5 m	Brown (7.5YR4/2-Moist); , 1 Prominent; Medium heavy c Moderate grade of structure Fine, (0 - 5) mm crack; Few moist; Firm consistence; 0-2 (2 - 10 %), Calcareous, Med 1mm) roots; Gradual, Smoo	lay; Weak gra , 5-10 mm, Si (<1 per 100m 2%, fine grave lium (2 -6 mm	ade of st ubangul nm2) Ve elly, 2-6n n), Nodu	ructure, 50 ar blocky; ry fine (0.0 nm, rounde	)-100 mr Smooth- )75-1mm ed, Quar	n, Subangular blocky; ped fabric; Earthy fabric; ) macropores, Moderately tz, coarse fragments; Few
B21 0	).5 - 1.18 m	Brown (7.5YR4/2-Moist); , 1 of structure, 50-100 mm, Su blocky; Smooth-ped fabric; 1mm) macropores, Moderat Quartz, coarse fragments; F (pH meter); Few, very fine (0	bangular bloc Fine, (0 - 5) r ely moist; Firr ew (2 - 10 %)	cký; Moc mm crac m consis ), Calcar	lerate grac k; Few (<1 stence; 0-2 eous, Mec	le of stru per 100 %, fine g lium (2 -	cture, 5-10 mm, Subangular mm2) Very fine (0.075- gravelly, 2-6mm, rounded, 6 mm), Nodules; Field pH 9
B22k 1	.18 - 1.9 m	Brown (7.5YR5/2-Moist); , 7 Faint; Medium heavy clay; M grade of structure, 5-10 mm 100mm2) Very fine (0.075- - 20 %), Ferruginous, Coars mm), Crystals; Field pH 9 (p	<i>l</i> oderate grac , Lenticular, S 1mm) macrop se (6 - 20 mm	le of stru Smooth-p pores, M	ucture, 10- bed fabric; loderately	20 mm, / Fine, (0 moist; Fi	Angular blocky; Moderate - 5) mm crack; Few (<1 per rm consistence; Common (10

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B23k 1.9 - 2.61 m
 Brown (7.5YR5/2-Moist); , 7.5YR58, 2-10%, 5-15mm, Prominent; , 10YR31, 0-2%, 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; 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; Common (10 - 20%), Ferruginous, Coarse (6 - 20 mm), Veins; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter);</li>

# Morphological Notes

One or two manganese-iron nodules found at 130cm, 3cm diameter [sic].

#### **Observation Notes**

Parent Rock: , , second (brown parna) terraced

#### Site Notes

Few waterworn coarse gravels up to 50mm on surface. Site subject to flood.

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## Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.56A	0.092/	A 32.85B	14.37	1.64	1.95				
0 - 0.06	8.31A	0.131/	A 21.23B	8.34	0.79	1.61				
0.1 - 0.2	9.08A	0.147	A 25.42B	10.38	0.54	3.68				
0.3 - 0.4	9.29A	0.229/	A 26.5B	14.64	0.56	6.64				
0.7 - 0.8	8.06A	2.37A	21.66B	14.89	0.66	11.31				
1.2 - 1.3	8.71A	1.072/	A 21.97B	20.46	1.13	13.31				
2.5 - 2.6	8.97A	0.8564	A 17.71B	15.58	0.91	10.96				

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	s
		С	Р	Р	N	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	0.83C									17.2	2 57.9
0 - 0.06	0.1B	1.06C	22.3J								17.2	2 55.2
0.1 - 0.2	0.4B	0.63C	4.5J								16.2	2 58.1
0.3 - 0.4	1.4B	0.51C	1.8J								16.7	<b>7</b> 57
0.7 - 0.8	1.7B	0.38C	4.9J								15.6	64.1
1.2 - 1.3	0.8B	0.11C	11J								14.5	5 72
2.5 - 2.6	4.3B	0.03C	5.8J								14.7	65.8
	-											

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar B	5 Bar	15 Bar	mm/h	mm/h

0 - 0.02 0 - 0.06 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