Projec	ct Name: ct Code: cy Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed230 C	Observation ID:	1
Site Ir	nformation				
Desc. Date D Map R Northin Eastin	By: N Desc.: 0 ef.: S ng/Long.: 6 g/Lat.: 7	1. Korevaar 1/05/85 Sheet No. : 8837_N 1:50000 655680 AMG zone: 55 51060 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	V.T.(Vic) Melbou 200 metres No Data No Data No Data No Data	rne, Yarral
<u>Geolo</u> Expos Geol. F	ureType: L	Indisturbed soil core No Data	Conf. Sub. is Par Substrate Materia		
	ope Class: ℕ . Type: ℕ Type: ٦	No Data No Data Ferrace flat 9 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data	
Surfac	ce Soil Con	dition (dry): Surface crust, R	ecently cultivated		
Erosic			,		
	lassificatio	n			
Austra N/A	lian Soil Clas		Princ	ing Unit: ipal Profile Form:	N/A Ug5.15
	Confidence: lence level not	tspecified	Great	Soil Group:	Grey clay
		Cultivation. Irrigated, past or pro	esent		
Veget		Cultivation. Inigated, past of pr	coon		
	ce Coarse F	ragments:			
	e Morpholog				
A11p	0 - 0.09 m	Dark brown (7.5YR3/2-Mois Distinct; Light medium clay; (<1 per 100mm2) Very fine	; Moderate grade of (0.075-1mm) macro ounded tabular, Qua	structure, 2-5 mm, 0 pores, Moderately r rtz, coarse fragmer	Granular; Earthy fabric; Few
A12p	0.09 - 0.29	grade of structure, 20-50 m	m, Subangular block w (<1 per 100mm2) e; 0-2%, fine gravelly	ky; Moderate grade Very fine (0.075-1m y, 2-6mm, rounded	of structure, 2-5 mm, m) macropores, Moderately tabular, Quartz, coarse
B21	0.29 - 0.55	Massive grade of structure; per 100mm2) Very fine (0.0	Smooth-ped fabric; 075-1mm) macropore mm, rounded tabular	Earthy fabric; Fine, es, Moderately mois , Quartz, coarse fra	(0 - 5) mm crack; Few (<1 st; Very firm consistence; 0- agments; Very few (0 - 2 %),
B22	0.55 - 1 m	Dark brown (10YR3/3-Mois Faint; Medium heavy clay; ped fabric; Fine, (0 - 5) mm Moderately moist; Very stro Quartz, coarse fragments; 8.8 (pH meter); Few, very fi	Weak grade of struc crack; Few (<1 per ong consistence; 0-2 Very few (0 - 2 %), C	ture, 50-100 mm, S 100mm2) Very fine %, coarse gravelly, calcareous, Fine (0	ubangular blocky; Smooth- (0.075-1mm) macropores, 20-60mm, rounded tabular, - 2 mm), Nodules; Field pH
B23	1 - 1.9 m	5mm, Distinct; Medium hea Smooth-ped fabric; Earthy t	ivy clay; Weak grade fabric; Fine, (0 - 5) m Moderately moist; Fi ery few (0 - 2 %), Ca	e of structure, 20-50 nm crack; Few (<1 p rm consistence; Fev	ber 100mm2) Very fine w cutans, <10% of ped faces

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 1.9 - 2.75 m Dark greyish brown (10YR4/2-Moist); , 5YR56, 0-2% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, 20-50 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 %), Ferruginous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.8 (pH meter);

Morphological Notes

Field pH's estimated from lab pH's.

Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan, Namoi Site Notes

A11p

B24

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Laboratory Test Results:

Depth	рН	1:5 EC		changeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.43A	0.131A	19.19B	10.1	1.74	0.65				
0 - 0.09	8.51A	0.105A	19.78B	9.46	1.46	0.55				
0.1 - 0.2	8.49A	0.084A	19.77B	9.219999	1.45	0.53				
0.3 - 0.4	8.82A	0.116A	20.32B	11.39	0.89	0.97				
0.7 - 0.8	9.34A	0.248A	16.13B	14.2	0.52	3.6				
1.2 - 1.3	9.35A	0.235A	14.39B	14.59	0.73	4.89				
2.5 - 2.6	9.29A	0.225A	15.16B	12.73	0.58	4.51				

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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	1.1C									20.7	53.4
0 - 0.09	0.1B	1.37C	49.6J								21.7	51.5
0.1 - 0.2	0.2B	1.19C	51.8J								22.1	50.6
0.3 - 0.4	0.7B	0.9C	23J								21.7	54.6
0.7 - 0.8	2B	0.55C	9.1J								25.3	56.9
1.2 - 1.3	0.4B	0.3C	23J								25.4	56.8
2.5 - 2.6	0.3B	0.28C	23.7J								23.9	52.4

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

0 - 0.02 0 - 0.09 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
	City (0) Concentry and Fatter matter mathe

P10_CF_Z Silt (%) - Coventry and Fett pipette method