Projec	t Code:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed146 C	bservation ID:	1		
Desc. E Date D Map Re Northir Easting	esc.: 08 ef.: Si ng/Long.: 66 g/Lat.: 75	9. McGarry 8/05/85 heet No. : 8837_N 1:50000 658500 AMG zone: 55 55300 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Auscott Ltd, Aus 202 metres No Data No Data No Data No Data	cott		
<u>Geolo</u> Exposı Geol. F	ureType: U	Indisturbed soil core Io Data	Conf. Sub. is Pare Substrate Materia				
Land I Rel/Slo Morph. Elem. 1 Slope:	ppe Class: N Type: N Type: T	lo Data lo Data ferrace flat 9 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data			
		dition (dry): Self-mulching, R	ecently cultivated				
<u>Erosic</u> Soil C	on: lassificatior	n					
N/A ASC C Confide	lian Soil Clas confidence: ence level not	t specified	Mapping Unit:N/APrincipal Profile Form:Ug5.16Great Soil Group:Grey clay				
<u>Site D</u> Vegeta		Cultivation. Irrigated, past or pre	esent				
	<u>ce Coarse F</u>	ragments:					
Profile A11p	e Morpholog 0 - 0.05 m	Very dark greyish brown (10 clay; Moderate grade of stru Few (<1 per 100mm2) Very	ucture, 2-5 mm, Grar / fine (0.075-1mm) m	nular; Rough-ped fa acropores, Modera	abric; Fine, (0 - 5) mm crack;		
A12p	0.05 - 0.12	m Very dark greyish brown (10 10-20 mm, Angular blocky; (<1 per 100mm2) Very fine	consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;				
A13	0.12 - 0.25	 Wery dark greyish brown (10 Weak grade of structure, 20 crack; Few (<1 per 100mm2 consistence; Very few (0 - 2 Few, fine (1-2mm) roots; 	0-50 mm, Angular blo 2) Very fine (0.075-1	ocky; Smooth-ped f mm) macropores, I	Moderately moist; Very firm		
A14	A14 0.25 - 0.7 m Very dark greyish brown (10YR3/2-Moist); , 10YR83, 0-2% , 5-15mm, Faint; , 10YR63, 0-2% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -						
B21	0.7 - 1 m	Brown (7.5YR5/4-Moist); , 1 Heavy clay; Weak grade of Few (<1 per 100mm2) Very consistence; Few (2 - 10 % Calcareous, Fine (0 - 2 mm	structure, 20-50 mm fine (0.075-1mm) m), Argillaceous, Coar	, Subangular block hacropores, Modera se (6 - 20 mm), Ve	itely moist; Very firm ins; Very few (0 - 2 %),		
B22	1 - 1.9 m		bangular blocky; Fine es, Moderately mois	e, (0 - 5) mm crack; t; Weak consistenc	lium heavy clay; Weak grade Few (<1 per 100mm2) Very e; Few (2 - 10 %),		

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B23 1.9 - 2.81 m Brown (7.5YR5/4-Moist); , 2.5YR58, 10-20%, 30-mm, Prominent; , N30, 2-10%, 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Common (10 - 20%), Argillaceous, Very coarse (20 - 60 mm), Veins; Few (2 - 10%), Argillaceous, Coarse (6 - 20 mm), Tubules; Field pH 9 (pH meter);</p>

Morphological Notes

Large crack infill from 170-281cm.

Observation Notes

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

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Project Code:	EDGEROI	Site ID:	ed146	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	E Na	Exchangeable Acidity	e CEC	;	ECEC	I	ESP
m		dS/m	Ca i	Mg	n	Cmol (+)						%
0 - 0.02	8.6A	0.156A	27.77B	16.83	2.82	0.89						
0 - 0.05	8.35A	0.618A	28.35B	18.72	2.36	1.73						
0.05 - 0.1	8.51A	0.324A	27.48B	18.98	2.32	1.68						
0.12 - 0.2	8.77A	0.244A	26.98B	19.47	2.23	2.07						
0.3 - 0.4	8.68A	0.255A	24.12B	20.01	1.64	3.42						
0.7 - 0.8	9.15A	0.385A	19.14B	22.63	1.73	9.1						
1.2 - 1.3	9.24A	0.537A	17.09B	21.53	1.77	10.54						
2.5 - 2.6	9.11A	0.762A	17.67B	23.1	1.72	11.58						
Depth	CaCO3	Organic	Avail.	Total	Total	Total					Analysis	
		C	P	Р	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	0.2B	0.78C									16.6	63.7
0 - 0.02	0.2D	0.67C	23.2J								15.1	
0.05 - 0.1	0.4B	0.67C	30.7J								14.6	
0.12 - 0.2	0.4B	0.61C	26.3J								16.6	
0.3 - 0.4	0.2B	0.51C	17.8J								17.1	
0.7 - 0.8	0.4B	0.39C	37.1J									68.8
1.2 - 1.3	0.7B	0.16C	23.5J									71.1
2.5 - 2.6	0.6B	0.14C	15.7J									72.2
Depth	COLE		Grav	imetric/Vo	olumetric V	Nater Cont	tents		Ks	at	K unsa	t
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
m				g/	g- m3/m	3			mn	1/h	mm/h	
0 - 0.02												
0 - 0.02												

0 - 0.02 0 - 0.05 0.05 - 0.1 0.12 - 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
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method