Projec	ct Code: E	oil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed223 C	bservation ID:	1
Desc. Date D Map R Northi Eastin	vesc.: 26/0 ef.: She ng/Long.: 665 g/Lat.: 752	1. Roberts 03/85 eet No. : 8837_N 1:50000 6780 AMG zone: 55 370 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, by A 201 metres No Data No Data No Data No Data	Auscott
<u>Geolo</u> Expos Geol. I	ureType: Und	disturbed soil core Data	Conf. Sub. is Pare Substrate Materia		
Morph Elem. Slope: <u>Surfac</u>	Depe Class: No . Type: No Type: Ter 0 % Ce Soil Condit		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data	
<u>Erosio</u> Soil C	on: lassification				
N/A ASC C Confid <u>Site D</u> Veget	lian Soil Classi Confidence: lence level not s listurbance: ation: ce Coarse Fra	pecified	Princi	ing Unit: ipal Profile Form: Soil Group:	N/A Ug6.51 No suitable
	e Morphology				
A11p	0 - 0.04 m	clay; Massive grade of stru Fine (1-2mm) macropores,	cture; Earthy fabric; I Moderately moist; Fi	Fine, (0 - 5) mm cr irm consistence; V	YR4/2-Dry); ; Light medium ack; Few (<1 per 100mm2) ery few (0 - 2 %), Calcareous, um (2-5mm) roots; Abrupt,
A12p	0.04 - 0.12 m	2%, 5-15mm, Distinct; Me Earthy fabric; Fine, (0 - 5) r	dium clay; Weak grac nm crack; Few (<1 p consistence; 0-2%, fi v (0 - 2 %), Calcareou	de of structure, 10- er 100mm2) Very f ne gravelly, 2-6mr us, Medium (2 -6 n	20 mm, Subangular blocky; ine (0.075-1mm) macropores, n, rounded tabular, Quartz, im), Nodules; Field pH 6.8
A13	0.12 - 0.22 m	Subangular blocky; Earthy (0.075-1mm) macropores,	fabric; Fine, (0 - 5) m Moderately moist; St	nm crack; Few (<1 rong consistence;	of structure, 20-50 mm, per 100mm2) Very fine 0-2%, fine gravelly, 2-6mm, r); Common, very fine (0-1mm)
A14	0.22 - 0.55 m		ve grade of structure; 075-1mm) macropore Medium (2 -6 mm), N	; Earthy fabric; Fine es, Moderately moi lodules; Very few (e, (0 - 5) mm crack; Few (<1 st; Strong consistence; Very (0 - 2 %), Manganiferous,
A15	0.55 - 1 m		ve grade of structure; 075-1mm) macropore Medium (2 -6 mm), N	; Earthy fabric; Fine es, Moderately moi lodules; Very few (e, (0 - 5) mm crack; Few (<1 st; Strong consistence; Very (0 - 2 %), Manganiferous,
A16	1 - 1.35 m	Light medium clay; Weak g (0 - 5) mm crack; Few (<1 Very firm consistence; Ven	prade of structure, 10 per 100mm2) Very fir y few (0 - 2 %), Calca ⁻ine (0 - 2 mm), Nodu	-20 mm, Subangul ne (0.075-1mm) ma areous, Medium (2	(R73, 0-2%, 0-5mm, Faint; ar blocky; Earthy fabric; Fine, acropores, Moderately moist; -6 mm), Nodules; Very few pH meter); Common, very fine

Soil Studies in the Lower Namoi Valley **Project Name:** Project Code: EDGEROI Site ID: Observation ID: 1 ed223 Agency Name: **CSIRO** Division of Soils (QLD)

Brown (7.5YR4/2-Moist); , 10YR41, 10-20% , 5-15mm, Distinct; , 10YR73, 2-10% , 5-15mm, 2B1 1.35 - 1.65 m Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 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); Few, very fine (0-1mm) roots;

2B2 1.65 - 2.66 m Strong brown (7.5YR5/6-Moist); , 7.5YR44, 20-50% , 15-30mm, Distinct; , 7.5YR41, 2-10% , 5-15mm, Prominent; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.8 (pH meter);

Morphological Notes A11p

Field pH for sample 8 estimated from lab pH.

Observation Notes

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

Site Notes

Roadside adjoining Auscott.

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Agency Name:	CSIRO Divisio	on of Soils (0	QLD)		

Laboratory Test Results:

Depth	рН			ole Cations		Exchangeable	CEC	ECEC	ESP
m		Ca dS/m	Mg	к	Na Cmol (Acidity (+)/kg			%
0 - 0.02 0 - 0.04 0.04 - 0.1	7.34A 8.03A 7.59A	0.261A 17.96B 0.133A 18.6B 0.106A 16.68B	12.64 12.94 11.98	3.11 2.01 1.37	0.32 0.79 0.93999 99				
0.12 - 0.2 0.3 - 0.4	8.31A 8.9A	0.072A 19B 0.08A 17.7B	13.62 13.25	1.28 0.93999 99	1.36 2.57				
0.7 - 0.8 1.2 - 1.3 1.5 - 1.6 2.5 - 2.6	9.19A 8.99A 9.13A 9.3A	0.176A 14.07B 0.398A 10.03B 0.435A 9.21B 0.467A8.469999 B	12.29 12.22 13.12 9.84	0.95 0.95 1 0.36	4.6 6.22 7.81 8.04				

Depth	CaCO3	Organic	Avail. P	Total P	Total N	Total K	Bulk		article		Analysis	
m	%	C %	r mg/kg	P %	N %	к %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02 0 - 0.04	<0.1B <0.1B		78.7J								-	51.9 53.5
0.04 - 0.1	<0.1B		59.1J								-	50.6
0.12 - 0.2	<0.1B		38.6J								20.1	
0.3 - 0.4	<0.1B		30.1J								-	53.9
0.7 - 0.8	<0.1B	0.48C	56.1J								17.6	50.2
1.2 - 1.3	0.8B	0.29C	50J								17	46.4
1.5 - 1.6	0.7B	0.26C	47.3J								18.9	49.8
2.5 - 2.6	2.3B	0.13C	22.8J								21.6	38.4
Depth	COLE		Grav	imetric/Vo	olumetric W	ater Conte	ents		Ks	at	K unsa	t
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m3	1 Bar	5 Bar 1	5 Bar	mm	l/h	mm/h	
0 - 0.02												

0 - 0.02 0 - 0.04 0.04 - 0.1 0.12 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 1.5 - 1.6 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 Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z