Projec	t Name: t Code: y Name:	ED	il Studies in the Lower I GEROI Site ID: IRO Division of Soils (G	we013	Observa	ation ID:	1	
Desc. B Date De Map Re	esc.: f.: g/Long.: /Lat.:	W.T. 15/02 Sheet 66590		Locality: Elevation: Rainfall: Runoff: Drainage:	rail line eas 175 metres No Data No Data No Data		, SE of Cubbaroo	
	reType:	Undis No D	sturbed soil core ata	Conf. Sub. is Parent. Mat.: No Da Substrate Material: No Da				
Morph. Elem. T Slope:	pe Class: Type: ype: e Soil Co	No Data No Data Terrace flat 0 % <b>Indition (dry):</b> Firm		Pattern Type: Relief: Slope Category Aspect:	No Data No Data : Level No Data			
Soil Cl	assificati	ion						
Australian Soil Classification: N/A ASC Confidence: Confidence level not specified				Mapping Unit: N/A Principal Profile Form: N/A Great Soil Group: Prairie soil				
Vegeta	tion:					a como clag	•	
	e Coarse		ments:					
<u>Profile</u> A11	<u>Morphol</u> 0 - 0.1 m							
A12	0.1 - 0.15	5 m	N Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Massive grade of structure; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (< per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 8 (pH meter); Fe very fine (0-1mm) roots; Clear, Smooth change to -				) - 5) mm crack; Few (<1 ;; Very firm consistence; 0-	
A13	0.15 - 0.2	?7 m	7 m Very dark greyish brown (10YR3/2-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;					
A14	0.27 - 0.5	55 m Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Sharp change to -						
B21	0.55 - 1 n	n	Brown (7.5YR4/4-Moist); ; Light clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;					
B22	1 - 1.3 m		Brown (7.5YR4/4-Moist); ; Moderate grade of structur Few (<1 per 100mm2) Ver consistence; Few (2 - 10 % Few, very fine (0-1mm) roc	e, 10-20 mm, Prisn y fine (0.075-1mm) 6), Calcareous, Mee	natic; Smc macropor dium (2 -6	oth-ped fabi es, Moderat mm), Nodul	ric; Fine, (0 - 5) mm crack;	

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C1	1.3 - 2.45 m	Reddish yellow (7.5YR6/6-Moist); , 7.5YR44, 2-10% , 0-5mm, Faint; Clay loam; Weak grade of structure, 50-100 mm, Prismatic; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (pH meter);					
C2	2.45 - 2.75 m	Reddish yellow (7.5YR6/6-Moist); ; Clay loam; Weak grade of structure, 50-100 mm, Prismatic; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (pH meter);					
Morph	ological Notes	S					
A11		Originally bu015. Top 15cm is recent flood deposit. 230-240cm sampled by mistake for 250-260cm (also sampled). Pian. The hard concretions at 70-80cm are somewhat irregular and lumpy. As the soil is deep, dark, well structured and carbonate-					
A12		rich, I prefer prairie soil to grey clay. Parent sediment below 130cm is weakly weathered.					
Observ	vation Notes						

Observation Notes Parent Rock: alluvial sediment, clay, mixed texture, with lime first terraced fan, Namoi

Site Notes

Shallow surface deposit over Pian sediment. Low terrace. Slight levee rise. Poplar box.

Project Name:	Soil Studies in	n the Lower	Namoi Valle	У	
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Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

## Laboratory Test Results:

Depth	pН	1:5 EC		hangeable Mg	e Cations K	E Na	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m	Ga	wig	n	Cmol (+)						%
0 - 0.1	7.21A	0.156A	19.77B	6.31	2.76	0.21						
0.1 - 0.15	7.95A	0.115A	25.16B	10.14	1.58	0.44						
0.15 - 0.25	8.42A	0.155A	25.6B	12.12	0.91	0.7						
0.3 - 0.4	8.65A	0.175A	21.55B	14.28	0.59	1.17						
0.7 - 0.8	8.7A	0.299A	14.09B	15.52	0.58	1.74						
1.2 - 1.3	8.42A	0.44A	10.08B	12.72	0.57	1.44						
2.3 - 2.4	8.33A	0.354A	11.34B	12.25	0.48	1.46						
2.5 - 2.6	8.34A	0.365A	13.89B	12.59	0.47	1.6						
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Р	article	Size	Analysi	s
200		C	P	P	N	K	Density	GV	CS	FS	•	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	<0.1B		69.6J								16.2	-
0.1 - 0.15	0.1B	1.63C	26.9J								17	47.6
0.15 - 0.25	1.1B	1.26C	16.5J								17.9	9 49.5
0.3 - 0.4	3.9B	0.76C	11.5J								21	47
0.7 - 0.8	9.1B	0.16C	19.2J								26.6	6 44.3
1.2 - 1.3	2.6B	0.05C	25.3J								20.9	32.3
2.3 - 2.4	0.4B	0.06C	23.2J								20.5	5 28.6
2.5 - 2.6	0.9B	0.19C	21.9J								27.8	3 31.7
Depth	COLE		Grav	imetric/Vo	olumetric V	Vater Con	tents		Ks	at	K unsa	ıt
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 1	5 Bar				
m				g/	g - m3/m	3			mm	n/h	mm/h	
0 - 0.1												
0-0.1												

0 - 0.1 0.1 - 0.15 0.15 - 0.25 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.3 - 2.4 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
P10_CF_Z	Silt (%) - Coventry and Fett pipette method