Projec	t Code: E	oil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed238 C	Observation ID:	1			
Desc. E Date Do Map Re Northir Easting	esc.: 05/0 ef.: She ng/Long.: 665 g/Lat.: 778	. Ward 08/87 eet No. : 8837_N 1:50000 7000 AMG zone: 55 500 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	I.O.(Ian) Falkine 276 metres No Data No Data No Data No Data	r, Murrumbilla			
<u>Geolo</u> Exposi Geol. R	ureType: Und	listurbed soil core Data	Conf. Sub. is Par Substrate Materia					
Rel/Slo Morph. Elem. 1 Slope:	Land FormRel/Slope Class:No DataMorph. Type:No DataElem. Type:Terrace flatSlope:0 %		Pattern Type:No DataRelief:No DataSlope Category:Very gently slopeAspect:No Data		ed			
	e Soil Condit	tion (dry): Surface crust						
<u>Erosic</u> Soil C	lassification							
Austral N/A ASC C Confide	iian Soil Classi confidence: ence level not s	pecified	Princ	oing Unit: ipal Profile Form: t Soil Group:	N/A Ug5.15 Brown clay			
		Cultivation. Rainfed						
<u>Vegeta</u> Surfac	<u>ation:</u> :e Coarse Fra	gments:						
Profile	Morphology							
A1	0 - 0.1 m		w (<1 per 100mm2) '	Very fine (0.075-1m	am; Massive grade of m) macropores, Moderately I-1mm) roots; Clear, Smooth			
B21	0.1 - 0.25 m	of structure, 20-50 mm, An 100mm2) Very fine (0.075	Dark reddish brown (5YR3/4-Moist); , 5YR32, 2-10% , 5-15mm, Distinct; Light clay; Weak 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 6.5 (pH meter); Few, very fine (0-1mm) roots;					
B22	0.25 - 0.5 m	Dark reddish brown (5YR3, Moderate grade of structur Angular blocky; Smooth-pe (0.075-1mm) macropores, Calcareous, Fine (0 - 2 mm	e, 20-50 mm, Lenticu ed fabric; Fine, (0 - 5) Moderately moist; St	ular; Weak grade of ) mm crack; Few (< trong consistence; \	structure, 10-20 mm, 1 per 100mm2) Very fine			
B23	0.5 - 1 m	grade of structure, 100-200 blocky; Smooth-ped fabric;	) mm, Prismatic; Wea Fine, (0 - 5) mm cra noist; Strong consist	ak grade of structur ick; Few (<1 per 10 ence; Few (2 - 10 %	0mm2) Very fine (0.075-1mm) 6), Calcareous, Coarse (6 -			
B24	1 - 1.4 m	Prismatic; Weak grade of 5) mm crack; Few (<1 per Strong consistence; 0-2%,	structure, 50-100 mr 100mm2) Very fine ( medium gravelly, 6-2 eous, Medium (2 -6 m	m, Angular blocky; § 0.075-1mm) macro 20mm, subangular, nm), Nodules; Field				
2B2	1.4 - 2.62 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 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; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter);						
<u>Morph</u> A1	ological Note	es Lower part of B2 has prisma from 140-160cm is underla						

from 140-160cm is underlain by sandier sediment with manganese. Note basalt stones in core. Q terrace.

Project Name:	Soil Studies in t	the Lower	Namoi Valley	
Project Code:	EDGEROI	Site ID:	ed238	
Agency Name:	<b>CSIRO</b> Division	of Soils (C	QLD)	

Observation ID: 1

# **Observation Notes**

Parent Rock: alluvial sediment, mixed texture, with lime, second terraced fan

### Site Notes

This site is in the headland of a wheat field, near strainer post on fence line. This site is equidistant to 154, 155, 172. Sampled after 10mm of rain. Vegetation mostly weeds including rolypoly. Push tube reaches large stone at 156cm. Grav

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## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeab	le CEC	;	ECEC	ESP
m		dS/m	Ca I	Mg	К	Na Cmol (	Acidity +)/kg				%
0 - 0.02	6.49A	0.062A	7.06B	5.19	1.51	0.15					
0 - 0.1	5.61A	0.16A	6.71B	4.39	1.03	0.23					
0.1 - 0.2	7.06A	0.124A	16.39B	13.05	0.93	0.98999 99					
0.3 - 0.4	8.6A	0.109A	13.33B	13.78	0.43	1.78					
0.7 - 0.8	9.17A	0.279A	8.809999 B	14.64	0.4	4.05					
1.2 - 1.3	9.28A	0.375A	8.38B	16.26	0.44	6.99					
2.5 - 2.6	9.15A	0.545A	9.86B	22.03	0.57	9.45					
Depth	CaCO3	Organic C	Avail. P	Total P	Tota N	al Tota K			Particle CS	Size FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.02	<0.1B	2.74C									16.3 29.1
0 - 0.1	<0.1B	1.37C	38.3J								12.3 26.5
0.1 - 0.2	<0.1B		5.3J								10.4 47.4
0.3 - 0.4	0.2B	0.59C	<1J								12.5 40
0.7 - 0.8	7.5B	0.29C	4J								11.4 39.5
1.2 - 1.3	4.9B	0.28C	14.2J								13.8 41.1
2.5 - 2.6	2.9B	0.2C	19J								19.3 47.2
Depth	COLE	0-1				Water Co		45 Day	Ks	at	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/ı		5 Bar	15 Bar	mn	ı/h	mm/h

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

# Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROIAgency Name:CSIRO Division of Soils (QLD)

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 Clay (%) - Coventry and Fett pipette method P10\_CF\_Z Silt (%) - Coventry and Fett pipette method