Project Name: Project Code: Agency Name:	EDG	I Studies in the Lower N GEROI Site ID: RO Division of Soils (Q	ed030	Observatio	on ID:	1		
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	W.T. V 27/06/3 Sheet 667470		Locality: Elevation: Rainfall: Runoff: Drainage:	A.B.(Alar 261 metr No Data No Data No Data	on, Nundi			
<u>Geology</u> ExposureType: Geol. Ref.:	Undist No Da	turbed soil core ata	Conf. Sub. is Pa Substrate Materi					
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Da		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data	No Data Level			
Surface Soil C	onditio	on (dry): Self-mulching, R	ecently cultivated					
Erosion: Soil Classifica	<u>tion</u>							
Australian Soil C N/A ASC Confidence Confidence level	e:		Prin	ping Unit: cipal Profile at Soil Grou		N/A Ug5.16 Brown clay		
Site Disturban	•							
Vegetation: Surface Coars	e Fragn	ments:						
Profile Morpho								
A1 0 - 0.1 n		Dark brown (7.5YR3/2-Mois of structure, 2-5 mm, Granu 100mm2) Very fine (0.075- (pH meter); Few, very fine (	ular; Smooth-ped fa 1mm) macropores,	bric; Fine, (0 Moderately	) - 5) mm moist; Fir	crack; Few (<1 per m consistence; Field pH 8.8		
C 0.1 - 0.2	2 m	Dark brown (7.5YR3/2-Mois Moderate grade of structure blocky; Smooth-ped fabric; Few, very fine (0-1mm) roo	e, 2-5 mm, Platy; W Moderately moist; V	leak grade o Very firm cor	fstructur	e, 10-20 mm, Angular		
2A11 0.2 - 0.5	55 m	Dark brown (7.5YR3/2-Mois blocky; Smooth-ped fabric; macropores, Moderately m 1mm) roots;	Fine, (0 - 5) mm cra	ack; Few (<1	per 100	mm2) Very fine (0.075-1mm)		
2A12 0.55 - 1	m	grade of structure, 20-50 m	m, Angular blocky;	Smooth-ped	fabric; F	edium heavy clay; Moderate ine, (0 - 5) mm crack; Few noist; Firm consistence; Field		
2A13 1 - 1.8 n	n	Dark brown (7.5YR3/2-Mois structure, 100-200 mm, Ler Smooth-ped fabric; Fine, (0 macropores, Moderately mo - 2 mm), Nodules; Field pH	nticular; Moderate g ) - 5) mm crack; Fev oist; Very firm cons	rade of struc w (<1 per 10 istence; Very	cture, 20- 0mm2) V / few (0 -	50 mm, Angular blocky; ery fine (0.075-1mm) 2 %), Calcareous, Fine (0		
2B2 1.8 - 2.7	75 m	Yellowish brown (10YR5/4- 15mm, Distinct; Light media grade of structure, 2-5 mm 100mm2) Very fine (0.075- Medium (2 -6 mm), Nodules	um clay; Moderate g n, Cast; Smooth-peo 1mm) macropores,	grade of stru d fabric; Fine Moderately	cture, 20 e, (0 - 5) r	-50 mm, Polyhedral; Moderate mm crack; Few (<1 per		
Morphological	Notes							
A1	-	The 10-20 structure is parer buried by very young alluvia	l wash. 70-80 has r	no visible ca	bonate b			
С		effervescence with acid. MV patches reddish cutans in E	•			S0 is aritty clay		
Observation N	otes	patones requisir cutaris III I			3/200-20	oo is gilly day.		

**Observation Notes** 

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed030GAgency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

Parent Rock: alluvial sediment, mixed texture, non-calcareous, mixed texture, with lime second (brown parna) terraced <u>Site Notes</u>

Waterworn quartz and rhyolite up to 50mm diameter on surface.

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## Laboratory Test Results:

Depth	рН	1:5 EC		changeab			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.68A	0.122A	A 28.53B	10.74	1.94	0.4				
0 - 0.1	8.44A	0.198A	A 23.62B	13	1.51	0.66				
0.1 - 0.2	8.83A	0.165A	A 22.01B	13.94	0.95	1.31				
0.3 - 0.4	9.2A	0.23A	25.82B	21.43	0.96	5.3				
0.7 - 0.8	9.29A	0.533A	20.64B	21.93	1.11	11.95				
1.2 - 1.3	9.17A	0.844A	A 18.13B	24.73	1.45	16.32				
2.5 - 2.6	9.58A	0.647 <i>A</i>	A 8.21B	15.21	0.62	10.57				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Р	article	Size	Analysi	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
	70	70	mg/ng	70	70	70	mg/mo			70		
0 - 0.02	0.4B	0.87C									16.4	45.7
0 - 0.1	0.6B	0.84C	29.2J								15.6	39.9
0.1 - 0.2	0.7B	0.71C	14J								15.1	42.4
0.3 - 0.4	1.6B	0.69C	4.4J								14.4	62.2
0.7 - 0.8	2B	0.57C	17.4J								14.5	63.7
1.2 - 1.3	1.5B	0.5C	37.3J								15.4	66.6
2.5 - 2.6	11.8B	0.03C	15.7J								15.8	35.6

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/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

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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
DIA CE C	Clov (%) Coventry and Fatt pinette method

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

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