Project Nam Project Code Agency Nam	e: EDGEROI S		Observation ID:	1	
Site Informa Desc. By: Date Desc.: Map Ref.: Northing/Long Easting/Lat.:	W.T. Ward 18/07/87 Sheet No. : 8837_N 1:	Locality: Elevation: 50000 Rainfall: Runoff: 5 Drainage:	I.O.(Ian) Falkiner, 305 metres No Data No Data No Data	Murrumbilla	
<u>Geology</u> ExposureType Geol. Ref.:	e: Undisturbed soil core No Data	Conf. Sub. is Par Substrate Materi			
Land Form Rel/Slope Cla: Morph. Type: Elem. Type: Slope:	No Data Pediment %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 355 degrees		
Erosion:	Condition (dry): Hardse	eung			
Soil Classifi Australian So N/A ASC Confider Confidence let Site Disturba Vegetation:	Il Classification: nce: vel not specified	Princ	ping Unit: cipal Profile Form: tt Soil Group:	N/A N/A Solodic soil	
Profile Morp					
A1 0 - 0.08 m Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/2-Dry); ; Light clay; Weak grade of structure, 2- mm, Platy; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 6 (pH meter); Few, very fine (0-1mm) roots;					
B21 0.08 ·	15mm, Faint; Ligh grade of structure Few (<1 per 100n	v (5YR4/2-Moist); , 7.5YR32, nt medium clay; Moderate gra e, 10-20 mm, Angular blocky; nm2) Very fine (0.075-1mm) r d pH 6 (pH meter); Few, very	de of structure, 100-2 Rough-ped fabric; Me macropores, Moderat	200 mm, Prismatic; Moderate edium, (5 - 10) mm crack;	
B22 0.25 - 0.55 m Dark reddish grey (5YR4/2-Moist); , 7.5YR32, 2-10% , 5-15mm, Distinct; , 7.5YR64, 0-2% , 0- 5mm, Distinct; Light medium clay; Weak grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;					
B23 0.55 - 1 m Brown (7.5YR4/4-Moist); , 7.5YR32, 2-10% , 5-15mm, Prominent; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 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;					
B24 1 - 1.	Faint; Light mediu grade of structure 100mm2) Very fir 10 %), Calcareou	YR4/4-Moist); , 7.5YR44, 2-1 um clay; Moderate grade of st e, 2-5 mm, Cast; Smooth-ped le (0.075-1mm) macropores, s, Coarse (6 - 20 mm), Nodul se, Smooth change to -	tructure, 10-20 mm, S fabric; Fine, (0 - 5) m Moderately moist; Str	Subangular blocky; Strong im crack; Few (<1 per rong consistence; Few (2 -	
C 1.8 - :	structure; Weak g prominent) fabric; macropores, Mod Quartz, coarse fra	YR6/6-Moist); , 10YR63, 0-2' rrade of structure, 20-50 mm, Fine, (0 - 5) mm crack; Few erately moist; Strong consiste agments; Very few (0 - 2 %), I 8.8 (pH meter); Few, very fir	Platy; Smooth-ped fa (<1 per 100mm2) Ve ence; 0-2%, fine grav Calcareous, Very coa	abric; Sandy (grains ry fine (0.075-1mm) elly, 2-6mm, subrounded, arse (20 - 60 mm),	

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- D1 2.5 3.5 m Light brownish grey (2.5Y6/2-Moist); , 5YR56, 0-2% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Field pH 7.8 (pH meter); Sharp, Smooth change to -
- D2 3.5 4.28 m Light yellowish brown (2.5Y6/4-Moist); ; Light clay; Massive grade of structure; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 5) mm crack; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Few (2 10 %), Calcareous, Coarse (6 20 mm), Soft segregations; Field pH 8.5 (pH meter);

Morphological Notes

A1	Dark topsoil colours run down to about 30cm; the profile however has a sandy surface over a clayey B at 8cm. Carbonate nodules at 120-130 appear to occupy root or faunal passageways; at this level earthworm activity (faunal mixing) is promi
B21	nent. B2 changes gradually to C, which becomes coarser towards base, where sample was taken. Very clear pedisediment basal contact at 250cm and sorting suggests stream action. There are several small stones at this level. A second stoneline
B22	occurs at 340 to 350 beneath grey sandy clay. It has large stones and fragments of ironstone. Colour 2 at 300 is in sandier patches. The grey is possibly hydromorphic. 350-428 is Purlawaugh.

Observation Notes

Parent Rock: colluvial sediment, from sandstone, with lime, clay colluvium, thick, no basalt

Site Notes

Site 342 is ca 350m NNW of 341. Hard-setting surface. Clay with abundant sand.

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	ou	ing	N	Cmol (+)						%
0 - 0.08	6.27A	0.043A	4.09B	4.1	0.62	0.38						
0.1 - 0.2	7.7A	0.047A	9.1B	10.78	0.45	1.6						
0.3 - 0.4	8.7A	0.062A	10.17B	14.47	0.38	2.52						
0.7 - 0.8	9.23A	0.225A	7.17B	15.16	0.41	5.14						
1.2 - 1.3	9.12A	0.316A	5.13B	15.72	0.5	6.76						
2.4 - 2.5	8.81A	0.305A	1.67B	8.24	0.24	3.86						
3 - 3.1	7.79A	0.585A	3.27B	17.83	0.37	8.71						
4 - 4.1	8.94A	0.933A	10.25B	40.65	0.6	20.85						
Depth	CaCO3	Organic	Avail.	Total	Total		Bulk				Analysis	
		C	P	Р	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08	<0.1B	1.07C	32.7J								8.2	17.9
0.1 - 0.2	<0.1B	0.67C	1.8J								8.6	34.1
0.3 - 0.4	<0.1B	0.5C	<1J								8.7	36.1
0.7 - 0.8	0.6B	0.26C	<1J								8.3	32.2
1.2 - 1.3	0.5B	0.16C	1.3J								6.5	37
2.4 - 2.5	<0.1B	0.02C	1J								1.6	17.5
3 - 3.1	<0.1B	0.03C	<1J								5.2	34.9
4 - 4.1	3.9B	0.17C	7.1J								19	37.9
Depth	COLE		Grou	umotric/\/c	lumotrio \	Vater Con	lants		Ks	a t	K unsat	
Depth	COLE	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Bar	n s	aı	n unsai	
m		Jdl.	0.05 Bai		g - m3/m		5 Bai 15	Dai	mm	/h	mm/h	
0 0 00												

0 - 0.08 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.4 - 2.5 3 - 3.1 4 - 4.1

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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